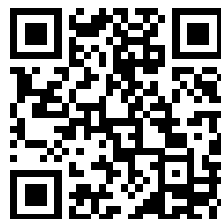

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EQUIPMENT CIRCULARS.

Colonel Winn.

LETTERS FROM GENERAL ORDERS
AND BULLETINS
AND
QUESTIONS OF THE
U.S. ARMY OFFICE
DEPARTMENT

Frank L. Winn.

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CIRCULAR
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WAR DEPARTMENT,
WASHINGTON, February 25, 1920.

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR REMOUNT SERVICE ORGANIZATIONS—AMENDMENT TO CIRCULAR NO. 377, WAR DEPARTMENT, 1919.

Circular No. 377, War Department, 1919, as amended by Circulars Nos. 445 (Special Allowances of Equipment for Engineer Troops) and 449, War Department, 1919; and Circulars Nos. 46 (Basic Allowances of Equipment Special to the Tank Corps) and 80 (Basic Allowances of Equipment Special for Infantry), War Department, 1920, is further amended by adding the following table:

TABLE IV-F.

SECTION I.—Basic allowance of organization equipment for *Remount Squadron* in addition to that specified in Circular No. 377, War Department, 1919.

Articles of equipment.	(A) (War set) for field and garrison service.	(B) Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Accessories for vehicles.....	(a)	(b)	a b To be supplied when vehicles are supplied (see note 31, Cir. 377, W. D., 1919; see Vehicles).
Bags, feed.....	(a)		a 1 per animal in addition to bag issued as part of riding equipment.
Blades, hand clipper, upper, extra.....	(a)		a 3 per clipper.
Blades, hand clipper, lower, extra.....	(a)		Do.
Blades, clipping machine, upper, extra.....	(a)		a 6 per machine.
Blades, clipping machine, lower, extra.....	(a)		Do.
Blow torch, hand.....	(a)		a 1 per 50 animals.
Brushes, whitewash.....	(a)		a 2 per 100 animals.
Buckets, canvas, folding.....	(a)		a 1 per 10 animals.
Clippers, hand.....	(a)		a 1 per 25 animals.
Corborundum wheel, with fixtures.....	(a)		a 1 per squadron.
Diggers, post-hole.....	(a)		a 2 per squadron.
Extinguishers, fire, hand.....	(a)		a 1 per 50 animals.
Harness.....	(a)	(b)	a b To be supplied when vehicles are supplied (see note 31, Cir. 377, W. D., 1919; see Vehicles).
Harness, casting, sets.....	(a)		a 1 per squadron.
Halter and tie rope.....	(a)		a 1 per animal in addition to riding equipment.
Hooks, hay.....	(a)		a 1 per 50 animals.
Iron, branding:			
"A".....	(a)		a 1 per squadron.
"D".....	(a)		Do.
"R".....	(a)		Do.
"P".....	(a)		Do.
Lead lines.....	(a)		a 1 per 22 animals (see note "A").
Machines, clipping.....	(a)		a 1 per 50 animals.
Mules, draft.....	(a)		a To be supplied when vehicles are supplied (see note 31, Cir. 377, W. D., 1919; see Vehicles). Issued at the rate of 2 per water cart, 4 per rolling kitchen, and 4 per escort wagon.
Pistols, automatic, caliber .45.....	(a)		a 1 to each officer and enlisted man.
Rope, picket-line, 14-inch.....	(a)		a 5 feet per animal.
Shears, roaching.....	(a)		a 1 per 50 animals.
Sprayers, knapsack.....	(a)		a 1 per 100 animals.
Stencil plates, sets.....	(a)		Do.
Tanks, water, canvas, Model 1912.....	(a)		Do.
Twine, binder.....	(a)		a 5 pounds per squadron.
Vehicles.....	(a)	(b)	a b To be supplied only when Remount Squadron is serving detached from a remount depot.
Cart, water, 2-mule.....	1		
Kitchen, rolling, 4-mule.....	1		
Motor cycle, with side car.....	1		
Truck, 3-ton, type B.....	1		
Wagons, escort, 4-mule.....	4		

INDA

W 2

Section I.—Basic allowance of equipment special to a Field Remount Depot, capacity 600 animals, in addition to equipment for the Remount Squadron.

Articles of equipment.	(A) (War set) for field and garrison service.	(B) Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Requisites for vehicles.....	(c)	.....	• For complete list see note 31, Cr. 377, W. D., 1919.
Requisits.....	.....	.....	• Issued as part of complete vehicle (see note 31, Cr. 377, W. D., 1919).
Requisits, small.....	(c)	.....	• 2 per water cart, 4 per rolling kitchen, and 4 per escort wagon.
Requisits with arms.....	(c)	.....	• 4 per depot.
Requisits, automatic caliber G.....	(c)	.....	• To each officer, Veterinary Corps; sergeant, Veterinary Corps; and stable sergeant, Veterinary Corps.
.....	(c)	.....	• 1 per depot.
.....	(c)	.....	• Do.
.....	(c)	.....	• Do.
.....	(c)	.....	• Do.
.....	(c)	.....	• 4 per depot.

Section II.—Basic allowance of equipment special for Field Remount Depots, capacity 1,200, 2,400, and 4,800 animals, in addition to equipment for the Remount Squadron.

The depot is organized as a separate battalion headquarters per Cr. 377, W. D., 1919. The enlisted men of the depot are equipped as a "company."

.....	(c)	.....	• See note 31, Cr. 377, W. D., 1919.
.....	(c)	.....	• 1 per 100 animals.
.....	(c)	.....	• 3 per clipper.
.....	(c)	.....	• Do.
.....	(c)	.....	• 6 per machine.
.....	(c)	.....	• Do.
.....	(b)	.....	• 1 per animal.
.....	(c)	.....	• 1 per 100 animals.
.....	(b)	.....	• 1 per 100 animals for cooking feed.
.....	(b)	.....	• 1 per 100 animals.
.....	(b)	.....	• See Engine.
.....	(c)	.....	• 1 per 25 draft mules or major fraction thereof assigned for depot use.
.....	(c)	.....	• 1 per depot.
.....	(c)	.....	• 3 per depot.
.....	(c)	.....	• Do.
.....	(b)	.....	• 1 per depot, for hay chopper and oat roller.
.....	(b)	.....	• 1 per 100 animals.
.....	(b)	.....	• 1 per depot.
.....	(c)	.....	• 1 per depot.
.....	(b)	.....	Included in Vehicles, complete (see note 31, Cr. 377, W. D., 1919).
.....	(b)	.....	• As directed by commanding officer.
.....	(c)	.....	• 1 per depot.
.....	(c)	.....	• Do.
.....	(c)	.....	• Do.
.....	(c)	.....	• Do.
.....	(c)	.....	• 1 per 100 animals.
.....	(c)	.....	• 1 per 50 draft mules or major fraction thereof assigned for depot use.
.....	(c)	.....	• 1 per depot.
.....	(c)	.....	• 1 per 600 animals or major fraction thereof.
.....	(c)	.....	• 4 per escort wagon.
.....	(c)	.....	• 1 per 100 animals.
.....	(c)	.....	• 1 per 200 animals.
.....	(c)	.....	• Do.
.....	(c)	.....	• 1 per 100 animals.

SCHEDULE III.—Basic allowances of equipment special for Field Remount Depots, capacity 1,200, 2,400, and 3,200 animals, in addition to equipment for the Remount Squadrons.—Continued.

Articles of equipment.	(A) (War set) for field and garrison service.	(B) Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Pistols, automatic, caliber .45.....	(a)		a 1 to each officer in headquarters detachment, officers, Veterinary Corps; quartermaster sergeant, senior grade, quartermaster sergeants as sergeant major, first sergeant and supply sergeant, sergeant first class, Veterinary Corps; sergeants, Veterinary Corps; stable sergeants, Veterinary Corps.
Rakes, steel.....	(a)		a 1 per 100 animals.
Roller, oat.....		(b)	b See Engine.
Rope:			
Picket line, 1½-inch.....	(a)		a 1,000 feet per depot.
1-inch.....	(a)		Do.
¾-inch.....	(a)		Do.
Scale:			
Spring, 500 pounds.....		(b)	b 1 per depot.
Platform, 8-ton.....		(b)	b 1 per depot. To be supplied when practicable.
Shears, roaching.....	(a)		a 1 per 200 animals.
Shovels, long-handled:			
Round-point.....	(a)		Do.
Square-point.....	(a)		Do.
Spades.....	(a)		Do.
Stretchers, wire fence.....	(a)		a 2 per depot.
Trucks, hand, warehouse.....		(b)	b 1 per 200 animals.
Twine, binder.....	(a)		a 10 pounds per depot.
Vehicles:			
Cars, motor, DS or DT.....	(a)		a 1 per depot.
Motor cycles, with side cars.....	(a)		a 1 per 1,200 animal depot, 2 per each 2,400 and 3,200 animal depots.
Wagons, escort.....	(a)		a 15 per 1,200 animal depot, 30 per 2,400 animal depot, and 40 per 3,200 animal depot.
Wheelbarrows.....		(b)	b 1 per 100 animals.

NOTE A.—Lead line to be made by squadron.

Specifications.—Take 123 feet of 1-inch rope and beginning at a point 7 feet from one end splice two ¾-inch ropes, each 1 foot long with snap hooks, every 12 feet up to 103 feet; place spreader 3 feet 10 inches long on the front end of rope (7-foot length), and attach two singletrees to ends of spreader; place spreader 3 feet 10 inches long at rear end of rope (20-foot length), the breast straps of rear horses to be attached to ends of rear spreader. In the center of the rope attach a ¾-inch rope 5 feet long for use of rider. A set of lead harness is used on the front of the rope and a set of wheel harness at the rear end of the rope. Capacity, 22 animals.

NOTE B.—Motor transportation for the Remount Service offices will be assigned as follows:

To chief remount officer Services of Supply, 2 Cadillac limousines or Cadillac touring; to chief remount officer, advance zone (50,000 to 500,000 men), 1 Cadillac limousine or Cadillac touring; to chief remount officer, advance zone (1,000,000 men), 1 Cadillac limousine or Cadillac touring and 1 motor cycle with side car; to headquarters group of remount depots, 1 Cadillac limousine or Cadillac touring; to Army remount officer, 1 Cadillac limousine or Cadillac touring and 1 motor cycle with side car; to Corps remount officer, 1 Dodge sedan or Dodge touring; to Division remount officer, 1 Dodge sedan or Dodge touring.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,

General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,

The Adjutant General.

SECTION II.—Basic allowances of equipment special to a *Field Remount Depot*, capacity 400 animals, in addition to equipment for the Remount Squadron.

Articles of equipment.	(A) (War set) for field and garrison service.	(B) Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Accessories for vehicles.....	(a)	.....	a For complete list see note 31, Cir. 377, W. D., 1919.
Harness.....	.....	.....	Issued as part of complete vehicle (see note 31, Cir. 377, W. D., 1919).
Mules, draft.....	(a)	.....	a 2 per water cart, 4 per rolling kitchen, and 4 per escort wagon.
Padlocks with keys.....	(a)	.....	a 4 per depot.
Pistols, automatic caliber .45.....	(a)	.....	a To each officer, Veterinary Corps; sergeant, Veterinary Corps; and stable sergeant, Veterinary Corps.
Vehicles:			
Carts, water, 2-mule.....	(a)	.....	a 1 per depot.
Kitchens, rolling, 4-mule.....	(a)	.....	Do.
Motor cycle, with side car.....	(a)	.....	Do.
Truck, 3-ton, type B.....	(a)	.....	Do.
Wagons, escort, 4-mule.....	(a)	.....	a 4 per depot.

SECTION III.—Basic allowances of equipment special for *Field Remount Depots*, capacity 1,200, 2,400, and 3,200 animals, in addition to equipment for the Remount Squadrons.

(The headquarters is equipped as a separate battalion headquarters per Cir. 377, W. D., 1919. The enlisted men of the headquarters detachment are equipped as a "company.")

Accessories for vehicles.....	(a)	.....	a See note 31, Cir. 377, W. D., 1919.
Axes, with helvcs.....	(a)	.....	a 1 per 100 animals.
Blades, hand, clipper, upper, extra.....	(a)	.....	a 3 per clipper.
Blades, hand, clipper, lower, extra.....	(a)	.....	Do.
Blades, clipping machine, upper, extra.....	(a)	.....	a 6 per machine.
Blades, clipping machine, lower, extra.....	(a)	.....	Do.
Boxes, feed.....	.....	(b)	b 1 per animal.
Brushes, whitewash.....	(a)	.....	a 1 per 100 animals.
Cauldrons, with stovepipe.....	.....	(b)	b 1 per 100 animals for cooking feed.
Carts, hand.....	.....	(b)	b 1 per 100 animals.
Chopper, hay.....	.....	(b)	b See Engine.
Clippers, hand.....	(a)	.....	a 1 per 25 draft mules or major fraction thereof assigned for depot use.
Corborandum wheel, with fixtures.....	(a)	.....	a 1 per depot.
Crowbars:			
Pinch point.....	(a)	.....	a 3 per depot.
Wedge point.....	(a)	.....	Do.
Engine, gasoline, complete with shafting.....	.....	(b)	b 1 per depot, for hay chopper and oat roller.
Extinguishers, fire:			
Hand.....	.....	(b)	b 1 per 100 animals.
Chemical, hand-drawn, with 2 extra fillers.....	.....	(b)	b 1 per depot.
Harness, casting, sets.....	(a)	.....	a 1 per depot.
Harness.....	.....	.....	Included in Vehicles, complete (see note 31, Cir. 377, W. D., 1919).
Hose, rubber, 1-inch, with connections.....	.....	(b)	b As directed by commanding officer.
Irons, branding:			
"A".....	(a)	.....	a 1 per depot.
"D".....	(a)	.....	Do.
"P".....	(a)	.....	Do.
"R".....	(a)	.....	Do.
Mattocks.....	(a)	.....	a 1 per 100 animals.
Machines:			
Clipping.....	(a)	.....	a 1 per 50 draft mules or major fraction thereof assigned for depot use.
For sharpening hand and machine clipping blades.....	(a)	.....	a 1 per depot.
Spraying.....	(a)	.....	a 1 per 800 animals or major fraction thereof.
Mules, draft.....	(a)	.....	a 4 per escort wagon.
Needles, sacking.....	(a)	.....	a 1 per 100 animals.
Padlocks and keys.....	(a)	.....	a 1 per 200 animals.
Paulins, large.....	(a)	.....	Do.
Pickaxes and helvcs.....	(a)	.....	a 1 per 100 animals.

SECTION III.—Basic allowances of equipment special for Field Remount Depots, capacity 1,200, 2,400, and 3,200 animals, in addition to equipment for the Remount Squadrons—Continued.

Articles of equipment.	(A) (War set) for field and garrison service.	(B) Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Pistols, automatic, caliber .45.....	(a)		a 1 to each officer in headquarters detachment, officers, Veterinary Corps; quartermaster sergeants, senior grade, quartermaster sergeants as sergeant major, first sergeant and supply sergeant, sergeant first class, Veterinary Corps; sergeants, Veterinary Corps; stable sergeants, Veterinary Corps.
Rakes, steel.....	(a)		a 1 per 100 animals.
Roller, cat.....		(b)	b See Engine.
Rope:			
Picket line, 1½-inch.....	(a)		a 1,000 feet per depot.
1-inch.....	(a)		Do.
¾-inch.....	(a)		Do.
Scale:			
Spring, 500 pounds.....		(b)	b 1 per depot.
Platform, 8-ton.....		(b)	b 1 per depot. To be supplied when practicable.
Shears, roaching.....	(a)		a 1 per 200 animals.
Shovels, long-handled:			
Round-point.....	(a)		Do.
Square-point.....	(a)		Do.
Spades.....	(a)		Do.
Stretchers, wire fence.....	(a)		a 2 per depot.
Trucks, hand, warehouse.....		(b)	b 1 per 200 animals.
Twine, binder.....	(a)		a 10 pounds per depot.
Vehicles:			
Cars, motor, DS or DT.....	(a)		a 1 per depot.
Motor cycles, with side cars.....	(a)		a 1 per 1,200 animal depot, 2 per each 2,400 and 3,200 animal depots.
Wagons, escort.....	(a)		a 15 per 1,200 animal depot, 30 per 2,400 animal depot, and 40 per 3,200 animal depot.
Wheelbarrows.....		(b)	b 1 per 100 animals.

NOTE A.—Lead line to be made by squadron.

Specifications.—Take 123 feet of 1-inch rope and beginning at a point 7 feet from one end splice two ¾-inch ropes, each 1 foot long with snap hooks, every 12 feet up to 103 feet; place spreader 3 feet 10 inches long on the front end of rope (7-foot length), and attach two singletrees to ends of spreader; place spreader 3 feet 10 inches long at rear end of rope (30-foot length), the breast straps of rear horses to be attached to ends of rear spreader. In the center of the rope attach a ¾-inch rope 5 feet long for use of rider. A set of lead harness is used on the front of the rope and a set of wheel harness at the rear end of the rope. Capacity, 22 animals.

NOTE B.—Motor transportation for the Remount Service offices will be assigned as follows:

To chief remount officer Services of Supply, 2 Cadillac limousines or Cadillac touring; to chief remount officer, advance zone (50,000 to 500,000 men), 1 Cadillac limousine or Cadillac touring; to chief remount officer, advance zone (1,000,000 men), 1 Cadillac limousine or Cadillac touring and 1 motor cycle with side car; to headquarters group of remount depots, 1 Cadillac limousine or Cadillac touring; to Army remount officer, 1 Cadillac limousine or Cadillac touring and 1 motor cycle with side car; to Corps remount officer, 1 Dodge sedan or Dodge touring; to Division remount officer, 1 Dodge sedan or Dodge touring.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

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CIRCULAR }
No. 178. }

WAR DEPARTMENT,
WASHINGTON, May 15, 1920.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL TO FIELD ARTILLERY TROOPS—
TABLE IV-C, 75-MM. GUN REGIMENT, HORSE-DRAWN—AMENDMENT TO CIR-
CULAR NO. 152, WAR DEPARTMENT, 1920.**

Circular No. 152, War Department, 1920 (Tables of Basic Allowances), as amended by Circular No. 153, War Department, 1920 (Basic Allowances of Equipment Special for Posts, Garrisons, and Semipermanent Camps), is further amended by adding to the tables enumerated therein the following table with notes prescribing the allowances of individual and organizational equipment for 75-mm. gun regiment, horse-drawn:

TABLE IV-C.

75-mm. gun regiment, horse-drawn.

[The term "company" is used to include battery, headquarters company, and supply company. When the allowance does not apply to all organizations in the regiment, the specific company is designated as battery, headquarters company, or supply company.]

**INDIVIDUAL EQUIPMENT TO BE ISSUED TO PERSONNEL OF 75-MM. GUN
REGIMENTS, HORSE-DRAWN.**

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively permanent nature.	Remarks.
Dispatch cases.....	(a)	.....	a 1 per officer, sergeant major, and first sergeant.
Pistols.....	(a)	.....	a 1 per officer and enlisted man.

ORGANIZATIONAL EQUIPMENT FOR 75-MM. GUN REGIMENTS, HORSE-DRAWN.

Ammunition.....	(a)	.....	a 300 rounds per gun.
Ammunition, saluting powder.....	.....	(b)	b As prescribed by local commanding officer.
Ammunition, sectionalized, set.....	.....	(b)	b 1 per battery. (Note 1.)
Bicycles.....	(a)	.....	a 1 per battery, 2 per battalion headquarters, and 2 per regimental headquarters.
Caissons, M. 1918.....	(a)	.....	a 1 per gun section and 2 per caisson section. (Note A.)
Camouflage equipment, set.....	(a)	.....	a 1 per battery. (Note 2.)
Carriages, complete, 75-mm.....	(a)	.....	a 1 per gun. (Note A.)
Cars, motor, D. T. or D. S.....	(a)	.....	a 1 per regiment.
Cartridges, ball, caliber .30, for auto- matic rifle.....	(a)	.....	a 6,000 per company.
Cartridges, ball, caliber .30, for anti- aircraft machine gun.....	(a)	.....	a 11,250 (45 boxes) per battery.
Carts, ration.....	(a)	.....	a 1 per company.
Carts, reel, battery.....	(a)	.....	a 1 per battery. (Note A.)
Carts and reel, battalion and regimental.....	(a)	.....	a 1 per battalion headquarters and 1 per regimental headquarters. (Note A.)
Carts, water.....	(a)	.....	a 1 per company.
Cases, cartridge, 75-mm.....	.....	(v)	b 60 per supply company for saluting purposes.
Cavassons, with longes.....	(a)	.....	a 2 per company.

TABLE IV-C—Continued.

75-mm. gun regiment, horse-drawn—Continued.

ORGANIZATIONAL EQUIPMENT FOR 75-MM. GUN REGIMENTS, HORSE-DRAWN—Cont'd.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively permanent nature.	Remarks.
Communications equipment.....	(a)		a 1 per battery, battalion headquarters and regimental headquarters. (Note 3.)
Cutters, wire.....	(a)		a 3 per supply company. Additional to allowance in Table II, Cir. No. 152, W. D. 1920.
Cyclostyle.....	(a)		a 1 per regiment.
Drill projectiles.....		(b)	b 2 per gun.
Fire-control equipment, sets.....	(a)		a 1 per battery, battalion headquarters and regimental headquarters. (Note 4.)
Fuze setters, bracket.....	(a)		a 1 per caisson of firing battery. (Note A.)
Fuze setters, hand.....	(a)		a 1 per gun. (Note A.)
Guns, complete, 75-mm.....	(a)		a 1 per gun section. (Note A.)
Harness, artillery, double, lead sets.....	(a)		a 2 per artillery vehicle, except 1 set in case of battery reel, and 2 spares per battery. (Note A.)
Harness, artillery, double, wheel sets.....	(a)		a 1 per artillery vehicle, and 1 spare per battery. (Note A.)
Harness sacks.....		(b)	b 1 per double set harness.
Horses, draft.....	(a)		a 6 per artillery vehicle throughout, except reel, battery (4-horse) and wagons, spring (4-horse); also 6 spare per battery.
Horses, riding.....	(a)		a 1 per officer in regimental headquarters and battalion headquarters.
			In battery:
			1 per officer.
			1 per noncommissioned officer, except gunners and one caisson corporal in each caisson section.
			1 per chief mechanic.
			1 per horseshoer with firing battery.
			1 per bugler.
			1 per first class private in battery details.
			1 per guidon (first-class private).
			1 per private in battery details, except 1 reel cart operator.
			1 per agent in battalion headquarters (first-class private).
			In headquarters company:
			1 per officer, except band leader.
			1 per noncommissioned officer, except personnel detachment, wireless men, post men, statistical clerks, and company clerks.
			1 per horseshoer.
			1 per bugler.
			1 per first-class private, except wireless operators and chauffeurs.
			1 per private, except drivers of vehicles (including motorcycles and bicycles), assistant drivers, wire men on reel cart.
			No bandmen are mounted.
			In supply company:
			1 per officer.
			1 per noncommissioned officer, except company clerk and those mounted on mule.
			1 per each of two privates (orderlies).
Kitchens, rolling.....	(a)		a 1 per company.

TABLE IV-C—Continued.

75 mm. gun regiment, horse-drawn—Continued.

ORGANIZATIONAL EQUIPMENT FOR 75-MM. GUN REGIMENTS, HORSE-DRAWN—Contd.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively permanent nature.	Remarks.
Limbers, battery wagon.....	(a)		a 1 per battery wagon. (Note A.)
Limbers, combined battery and store wagon.....	(a)		a 1 per combined battery and store wagon. (Note A.)
Limbers, caisson, M. 1918.....	(a)		a 1 per caisson. (Note A.)
Limbers, gun, M. 1918.....	(a)		a 1 per gun. (Note A.)
Limbers, store wagon.....	(a)		a 1 per store wagon. (Note A.)
Machine guns, antiaircraft.....	(a)		a 2 per battery. (Note A.)
Motorcycles, with sidecars.....	(a)		a 1 per regimental headquarters and 1 per battalion headquarters.
Mules, draft.....	(a)		a 4 per rolling kitchen; 4 per ration and baggage wagon; 2 per ration cart; 4 per wagon, medical; and 2 per cart, water.
Mules, riding.....	(a)		a In supply company: 1 per mess sergeant, stable sergeant, supply sergeant, and sergeant; 1 per assistant wagonmaster (corporal), 1 per one horseshoer (company headquarters).
Observation ladder.....	(a)		a Per battery. This observation ladder to be made by organization mechanics and carried on a caisson.
Paint, rubberine, gallon cans.....		(b)	b 1 per supply company.
Picket line, wire cable, 1/2-inch.....		(b)	b 2 1/2 feet per animal.
Pliers, 8-inch.....		(b)	b 3 per supply company; additional to those in kit.
Primers, 20-grain, sauting.....		(b)	b 500 per supply company.
Reloading and cleaning cut.....		(b)	b 1 per battery, consisting of 1 bushing; 1 cleaning brush (16.75 inches); 1 case holder; 1 case-holder stand; 1 decapping tool (17.9 inches); 1 hammer; 1 primer-inserting press, small; 1 sauting powder measure; 1 storage chest.
Rifles, automatic.....	(a)		a 8 per company. (Note A.)
Rope, manila, 1/2-inch, feet.....		(b)	b 600 per supply company.
Saddler's repair material.....	(a)		a 1 per battery. (Note A.)
Scoops, manure, short-handled.....		(b)	b 2 per company.
Sights, spare, sets.....	(a)		a 1 per battery.
Spare fuze setters.....	(a)		a 1 bracket and 1 hand per battery.
Spare parts for battery and store wagons, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts for caissons, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts for carriage and caisson limbers, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts for carriages, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts for guns, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts, tools and accessories for antiaircraft machine guns.....	(a)		a 1 per antiaircraft machine gun. (Note 5.)
Spare parts for reel, battery, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts, tools and accessories, for reels and carts, battalion and regiment, sets.....	(a)		a 1 per reel and cart. (Note A.)
Spare parts, for bracket fuze setters, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts, for hand fuze setters, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts for harness, sets.....	(a)		a 1 per battery. (Note A.)
Spare parts for tools and accessories, sets.....	(a)		a 1 per battery. (Note A.)
Subcaliber outfit, 37-mm. gun, complete.....		(b)	b 1 per gun section. (Note A.)
Tanks, watering, circular.....	(a)		a 1 per 75 animals.
Tape, metallic, 100 feet.....	(a)		a 1 per company.
Tents, storage, complete, with poles, pins, ropes, and flies.....		(b)	b 1 additional to allowance in Table III, Cir. No. 152, W. D., 1920, for regimental supply officer as ammunition shelter.
Tents, wall, small, complete, with poles, pins, ropes, and flies.....	(a)		a 3 per regiment (headquarters company); additional to allowance in Table III, Cir. No. 152, W. D., 1920, for shelter for radio stations, and 1 per company for office.

TABLE IV-C—Continued.

75-mm. gun regiment, horse-drawn—Continued.

ORGANIZATIONAL EQUIPMENT FOR 75-MM. GUN REGIMENTS, HORSE-DRAWN—Contd.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Topographical equipment.....	(a)		a 1 per battery, battalion headquarters, and regimental headquarters. (Note 6.)
Wads, felt, for saluting charges.....	(a)	(b)	b 1,000 per supply company.
Wagons, combined battery and store....	(a)		a 1 per headquarters company. (Note A.)
Wagons, battery.....	(a)		a 1 per battery. (Note A.)
Wagons, medical.....	(a)		a 1 per battalion headquarters and 1 per regimental headquarters.
Wagons, spring, 4-horse.....	(a)		a 1 per company, regimental headquarters, and battalion headquarters.
Wagons, ration and baggage.....	(a)		a 3 per battery and 5 per regiment (issued to supply company).
Wagons, store.....	(a)		a 1 per battery. (Note A.)
Watches, pocket, with luminous hands and numbers, water and dust proof, gun-metal case, with nonbreakable crystal; Waltham movement, or equal.	(a)		a 4 per battery, 1 per battalion headquarters, and 4 per regimental headquarters.

NOTES PERTAINING TO TABLE IV-C.

NOTE A.—Standard equipment according to most recent specifications of the particular supply department and as described in the latest edition of handbook for that article.

NOTE 1.—Ammunition, sectionalized, set.

- 1 cartridge case with primer.
- 2 fuzes, long.
- 1 shell, gas.
- 1 shell, H. E. short fuze.
- 1 shell, shrapnel.

NOTE 2.—Camouflage equipment, set.

(To be issued in time of war.)

Camouflage fish nets, 40 by 40 feet.....	4
Come alongs.....	2
Mauls, wooden.....	2
Stakes, wooden, 4 by 6 inches, 8 feet long (when requested).....	100
Wire, galvanized-iron, No. 10, rolls.....	4
Wire, galvanized-iron, No. 16, rolls.....	1
Wire cutter, large.....	4
Wire cutter, small.....	4
Camouflage supplies consisting of burlap, paints, etc., colors according to season and theater of operations.	

NOTE 3.—*Communications equipment (signal).*

Articles of equipment.	Battery.	Each bat- talion head- quarters.	Regi- mental head- quarters.	Supply company.
Bags, tool, service, complete.....		1	1	
Batteries:				
For flashlights, spare ¹				
Type BA-1, spare.....	4	4	10	
Type BA-2, spare.....		15	35	
Type BA-9, spare.....	18	18	18	
Type BA-11, spare.....	12	16	16	
Bulbs, for flashlights, spare ¹				
Chests, type B. C. 5.....			1	
Cipher device.....		1	1	
Connectors, type A, 19-point, with cords and ground rod, type D.....	2	3	3	
Envelopes, field message.....		100	150	
Flashlights, type TL-85, with batteries and bulbs, complete, additional to allowance prescribed in Table II, Cir. No. 152, W. D., 1920.....	6	8	3	
Fuzes, 1-ampere, monocord, for switchboards.....	16	24	40	
Glasses, field, Huet, 8-power, with mil scale; additional to allowance in Table II, Cir. No. 152, W. D., 1920, type EE to be issued when Huet are no longer available.....	6	11	9	
Headsets, telephone, Western Electric high-efficiency, with soft rubber ear cap ¹				
Hydrometers, type HY-2.....		1	1	
Kits:				
Flag, combination, standard.....	15	15	11	
Inspector's pocket.....	6	3	3	
Lineman's equipment, type TE-21.....	2	2	2	
Megaphones.....	2			
Panels, divisional artillery, sets, type AP-9.....		1	1	
Reels, breast, with spools.....	4	4	2	
Sets:				
Low-frequency amplifier, with batteries, complete, type S. C. R.-121.....		1	1	
Monocord, operator's, type EE-64, with batteries, complete.....	1	1	2	
Set:				
Radio, type S. C. R.-54-A, with batteries, complete.....		1		
Radio, type S. C. R.-105, with batteries, complete.....			1	
Radio telephone, type S. C. R.-87-A, with batteries, com- plete.....			1	
Test, universal, type EE-65, with batteries, complete.....			1	
U. W. loop, radio telegraph, type S. C. R.-77, with batteries, complete.....		1	1	
Signal lamps:				
Type EE-6, with batteries, complete.....	3			
Type EE-7, with batteries, complete.....		2	2	
Studs, connector, 19-point, spare.....	4	6	6	
Switchboards:				
Type BD-9.....	2	1	1	
Type BD-10.....		1	2	
Unit type, EE-2.....	1	1	1	
Tape:				
Friction, pounds.....	3	2	2	
Rubber, pounds.....		1	1	
Telephones, type EE-5, with batteries, complete, with one ground rod each.....	6	6	6	
Tubes:				
Type VT-1, spare.....		10	40	
Type VT-2, spare.....			15	
Voltmeter, battery, 0 to 36 amperes, 0 to 11 volts.....	1	1	1	
Wavemeter, type S. C. R.-128.....			1	
Watches, wrist, luminous hands and numbers, with wristlets.....	12	1	16	
Wire:				
Twisted pair, 2-conductor, heavy, kilometers.....	5	10	15	
Twisted pair, 2-conductor, light, kilometers.....	8	5	2	

¹ 1 per flashlight.¹ 1 per telephone.

NOTE 4.—*Fire-control equipment (ordnance).*

Articles of equipment.	Battery.	Battalion headquarters and battalion section of headquarters company.	Regimental headquarters and regimental section of headquarters company.	Supply company.
Absorbers, shock, time-interval recorder.....	6	3	3	
Bars, adjustment, for 1-meter base range finder.....	1	1	1	
Batteries:				
Dry cell for flashlights with hood (Ordnance Department type), spare.....	21	3	3	
No. 6, for devices, lighting, for aiming posts, spare.....	16			
Bulbs, for flashlights, with hood (Ordnance Department type), spare.....	21	3	3	
Cases, carrying:				
For aiming circle and tripod.....	2	2	2	
For battery commander's scissors telescope.....	2	2	2	
For prismatic compass, model 1918.....	8	8	8	
For 1-meter base range finder.....	1	1	1	
For tripod and adjustment bar, for 1-meter base range finder.....	1	1	1	
Chains, time-interval recorders.....	6	3	3	
Circles, aiming, French type.....	2	2	2	
Compass, prismatic, model 1918—additional to those allowed in Table II, Cir. No. 152, W. D., 1920.....	3	7	8	
Device, lighting, for aiming posts in case with batteries, complete	5			
Flashlights with hoods, with batteries and bulbs, complete (Ordnance Department type).....	21	3	3	
Posts, aiming.....	12			
Protractors, semicircular, xylonite, transparent, with mil graduations, coordinate window, with plotting scales on two adjacent sides of window and across diameter:				
Of 3½-inch diameter.....	1	2	2	
Of 12-inch diameter.....	1	2	2	
Range finder, 1-meter base.....	1	1	1	
Recorders, time interval.....	6	3	3	
Rulers, wood, battery commander's, with strings, for 75-mm. gun.....	10	5	8	3
Rulers, flat, straight edge, xylonite.....	2	2	2	
Scales, plotting, metallic, triangular.....	3	3	3	
Sitgoniometers, with leather cases with 1 extra string each.....	5	5	8	3
Squares, coordinate, zinc.....	2	2	2	
Straps, carrying, for tripods, for battery commander's scissors telescope.....	2	2	2	
Strings, extra, for B. C. rulers.....	10	5	8	3
Tables, range, for 75-mm. gun.....	6	8	5	3
Tape, steel, 30 meters.....	1	1	1	
Telescopes, battery commander's, scissors.....	2	2	2	
Telescopes, monocular (to be issued until present supply is exhausted).....		1	1	
Thermometers.....	2			
Tripods:				
Aiming circle, French type.....	2	2	2	
For battery commander's scissors telescope.....	2	2	2	
For prismatic compass, M. 1918.....	8	8	8	
For 1-meter base range finder.....	1	1	1	

NOTE 5.—*Tools and accessories for antiaircraft machine guns.*

Belts, ammunition.....	45 per battery.
Boxes:	
Ammunition.....	45 per battery.
Water.....	2 per gun.
Spare parts.....	1 per gun.
Covers, canvas, machine gun.....	1 per gun.
Devices, steam condensing.....	1 per gun.
Rods, cleaning.....	1 per gun.
Spare barrels.....	1 per gun.
Sights, antiaircraft, set.....	1 per gun.
Tripods, M. 1918.....	1 per gun.

NOTE 6.—*Topographical equipment (Engineer).*

Articles of equipment.	Battery.	Battalion head-quarters and battalion section of head-quarters company.	Regimental head-quarters and regimental section of head-quarters company.	Supply company.
Allidade:				
Brass, open-sight, leveling, complete with case and declinator with leveling bubble.....	1	1	1	
Miniature, telescopic, with leather case.....			1	
Compass, watch, additional to allowance in Table II, Cir. No. 152, W. D., 1920.....	14	15	11	4
Glass, reading, $4\frac{1}{2}$ inches diameter, with case.....	1	1	1	
Instruments, drawing, office set in case, consisting of.....	1	1	1	
3 ruling pens, $4\frac{1}{2}$ inches, 5 inches, and $5\frac{1}{2}$ inches.				
1 contour pen, $4\frac{1}{2}$ inches.				
1 5-inch center adjustment pen.				
1 5-inch hairspring dividers.				
1 5 $\frac{1}{2}$ -inch compass, with pen, pencil, and lengthening bar, fixed needle point.				
1 tubular case for points.				
1 3 $\frac{1}{2}$ -inch bow spacer.				
1 3 $\frac{1}{2}$ -inch bow pencil.				
1 3 $\frac{1}{2}$ -inch bow pen.				
1 semicircular 4-inch protractor.				
2 irregular curves.				
1 45° triangle.				
1 30°-60° triangle.				
Plane table:				
18 by 24 inches, with tripod attachment, tripod, and waterproof cover.....	2			1
24 by 31 inches, with tripod attachment, tripod, and waterproof cover.....		2	2	
Plumb bob, brass, 10-ounce, with line.....	2	2	2	
Sketching outfit complete.....	2	2	2	
1 alidade, boxwood.				
1 board, sketching, with waterproof cover.				
1 chest, sketching outfit.				
1 clinometer, service, with case.				
1 compass, prismatic, with case.				
1 pace tally.				
1 strap, wrist.				
1 tripod, wood, folding.				
Stadia rod, 2 meters maximum reading, with 2 fixed targets and 1 sliding target in 2 sections, with socket connection, length of each section not over 49.75 inches.....	1	1	1	
Tubes, japan.....	2	6	6	
SUPPLIES.				
Celluloid sheets:				
18 by 24 inches.....	24			
24 by 31 inches.....		24	24	
Erasers, pencil, art gum.....	2	2	2	
Paper, drawing, single, 24 inches wide, 5-yard rolls.....	2	6	6	
Pencils, drawing, 3H.....	24	24	24	
Pads, pencil, pointing, 1 $\frac{1}{2}$ by 4 inches.....	2	4	4	
Pins, tally, steel arrows, 10-inch set.....	1	1	1	
Supplies, sketching outfit, each set as follows:				
12 celluloid sheets, 12 $\frac{1}{2}$ by 13 $\frac{1}{2}$ inches.				
4 erasers, rubber, pencil.				
$\frac{1}{2}$ paper, sketching, gross.				
Pencils:				
4 colored blue.				
16 drawing, H.				
4 colored green.				
4 colored red.				
4 protectors, pencil point.				
3 tape, adhesive, rolls.				
Tacks, thumb, gross.....	2	2	2	

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR }
No. 179. }

WAR DEPARTMENT,
WASHINGTON, May 13, 1920.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL TO FIELD ARTILLERY TROOPS—
TABLE IV-C, 155-MM. HOWITZER REGIMENT, MOTOR-DRAWN—AMENDMENT
TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920.**

Circular No. 152, War Department, 1920 (Tables of Basic Allowances), as amended by Circular No. 153, War Department, 1920 (Basic Allowances of Equipment Special for Posts, Garrisons, and Semipermanent Camps), and Circular No. 178, War Department, 1920 (Basic Allowances of Equipment Special to Field Artillery Troops, Table IV-C, 75-mm. Gun Regiment, Horse-drawn), is further amended by adding to the tables enumerated therein the following table, with notes prescribing the allowances of individual and organizational equipment for 155-mm. howitzer regiment, motor-drawn:

TABLE IV-C.—155-mm. howitzer regiment, motor-drawn.

[Throughout the tables the item "company" is intended to cover all organizations in the regiment, viz, batteries, headquarters company, and supply company. Where an item is not supplied to all organizations, the particular organization concerned is designated as "battery," "headquarters company," or "supply company."]

INDIVIDUAL EQUIPMENT TO BE ISSUED TO PERSONNEL OF 155-MM. HOWITZER REGIMENT.

Articles of equipment.	A	B	Remarks.
	War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Dispatch cases.....	1		Per officer, sergeant major, and first sergeant.
Pistols.....	1		Per officer and enlisted man.

ORGANIZATIONAL EQUIPMENT FOR 155-MM. HOWITZER REGIMENT.

Ambulance, motor.....	(a)		a 1 per battalion and 1 per regiment.
Ammunition.....	(a)		a 150 rounds per gun.
Ammunition, sectionalized.....		(b)	b 1 set per battery. (Note 1.)
Bicycles.....	(a)		a 1 per company, 2 per battalion and regimental headquarters. (Note A.)
Cable, wire, 1 inch in diameter, steel, 2-pintle eyes, 20 feet long.....	1		Per tractor.
Camouflage equipment, set.....	1		Per battery. (Note 2.)
Caissons.....	(a)		a 2 per howitzer and 4 per caisson section. (Note A.)
Carriages, complete, 155-mm. howitzer.....	1		Per howitzer. (Note A.)
Cars, motor, D. T. or D. S.....	1		Per company, battalion, and regimental headquarters. (Note A.)
Cars, reconnaissance.....	2		Per battery, battalion, and regimental headquarters. (Note A.)
Cartridges, ball, caliber .30, for automatic rifle.....	6,000		Per company.
Cart and reel.....	1		Per battery, battalion, and regimental headquarters. (Note A.)
Communications equipment.....	1		Per battery, battalion, and regimental headquarters. (Note 3.)
Cutters, wire.....	3		Per supply company. Additional to allowance in Table II, Circular 152.
Cyclostyle.....	1		Per regiment.
Drill projectiles.....		2	Per howitzer. (Note A.)
Fire-control equipment..... sets.....	1		Per battery, battalion, and regimental headquarters. (Note 4.)
Fuze setters.....	2		Per howitzer. (Note A.)

TABLE IV-C.—155-mm. howitzer regiment, motor-drawn—Continued.
 ORGANIZATIONAL EQUIPMENT FOR 155-MM. HOWITZER REGIMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Howitzer, complete.....	1		Per howitzer section. (Note A.)
Limbers, howitzer.....	1		Per howitzer carriage. (Note A.)
Machine guns, antiaircraft.....	2		Per battery. (Note A.)
Motorcycles, with side cars.....	6		Per battery, battalion, and regimental headquarters, and supply company. (Note A.)
Observation ladder.....	1		Per battery. (Note 5.)
Paulins, large.....	1		Per company in addition to allowance prescribed in Table III, Circular 152
Paint, rubberine..... gals.	2		Per Dodge light repair truck.
Pliers, 8-inch.....	3		Per supply company; additional to those in kits.
Rifles, automatic.....	8		Per company. (Note A.)
Rope, manila, 2-inch diameter..... ft.	250		Per company.
Sights, spare..... sets	1		Per battery. (Note A.)
Spare parts for caissons..... sets	1		Per battery. (Note A.)
Spare parts for carriages..... sets	1		Per battery. (Note A.)
Spare parts for carriage limbers..... sets	1		Per battery. (Note A.)
Spare parts for howitzer..... sets	1		Per battery. (Note A.)
Spare parts for hand fuze setters..... sets	1		Per battery. (Note A.)
Spare parts for cart..... sets	1		Per cart. (Note A.)
Spare parts for reels..... sets	1		Per reel. (Note A.)
Spare parts for tools and accessories..... sets	1		Per battery. (Note A.)
Spare parts for tractors, 5-ton.....	1		Per supply truck, load B. (Note A.)
Spare parts for F. W. D. trucks, 3-ton.....	1		Per supply truck, load B. (Note A.)
Spare parts for White trucks, 1½-ton.....	1		Per supply truck, load B. (Note A.)
Spare parts for light Dodge chassis.....	1		Per supply truck, load B. (Note A.)
Spare parts, tools, and accessories for antiaircraft machine gun.....	1		Per antiaircraft machine gun. (Note 6.)
Subcaliber outfit, 37-mm. gun, complete.....		1	Per gun section. (Note A.)
Tape, steel, measuring, 100-foot.....	(a)	1	Per company.
Tents, wall, small, complete, with poles, pins, ropes, and flies.....			Additional to allowance in Table III, Cir. No. 152, W. D., 1920, 1 per battalion, and 1 per regiment for radio stations, and 1 per company as office.
Topographical equipment.....	1		Per battery, battalion, and regiment. (Note 7.)
Tractors, 5-ton, artillery.....	1		Per howitzer carriage, per 2 caissons, per reel and cart, per rolling kitchen and water trailer, and per antiaircraft machine-gun trailer, per battery as spare. (Note A.)
Trailers, antiaircraft machine gun.....	1		Per battery. (Note A.)
Trailers, kitchen.....	1		Per company. (Note A.)
Trailers, water.....	1		Per company. (Note A.)
Trucks, F. W. D., 3-ton, cargo.....	(a)		<p>1 per 50 rounds of ammunition complete. (NOTE.—14 rounds are carried in each caisson.)</p> <p>1 spare for each 10 trucks, supply company.</p> <p>1 per each 20 men not otherwise carried.</p> <p>In figuring seats for men the following assignments are considered the maximum permissible:</p> <p>1 man per reel, per water trailer.</p> <p>2 men per motorcycle and side car, per tractor, per howitzer carriage, per artillery supply truck, per artillery repair truck, per light repair truck, per light delivery truck, per ammunition truck.</p> <p>3 men per cart, per caisson.</p> <p>5 men per car, motor, D. S. or D. T.</p> <p>8 men per kitchen, ration, baggage, and record truck.</p> <p>11 men per reconnaissance car.</p> <p>20 men per empty 3-ton truck.</p>

TABLE IV-C.—155-mm. howitzer regiment, motor-drawn—Continued.
 ORGANIZATIONAL EQUIPMENT FOR 155-MM. HOWITZER REGIMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Trucks, F. W. D., 3-ton, cargo (contd.)			1 per battalion and 2 per regimental headquarters—records, mess equipment, office, etc. 3 per company—kitchen, rations, and baggage.
Trucks, F. W. D., artillery repair	1		1 per battery for gasoline drums. Per battalion (issued to supply company). (Note A.)
Trucks, F. W. D., artillery supply:			
Load A	1		Per battery and supply company. (Note A.)
Load B	1		Per battalion. (Note A.)
Load D	1		Per artillery repair truck. (Note A.)
Trucks, light repair, Dodge	1		Per company. (Note A.)
Trucks, light delivery, Dodge	1		Per company, battalion, and regimental headquarters, for spare wire, wireless outfit, etc. (Note A.)
Watches, pocket, with luminous hands and numbers, water and dust proof, gun-metal case, with nonbreakable crystal; Waltham movement or equal.	(a)		4 per company, 1 per battalion, 4 per regiment.

NOTES PERTAINING TO TABLE IV-C—155-MM. HOWITZER REGIMENT.

NOTE A.—Standard equipment according to the most recent specifications of the particular supply department and as described in the latest edition handbook for that article.

NOTE 1.—Ammunition, sectionalized, set.

1 fuze, long, I. A. L., Mark III	} All sectionalized.
1 fuze, short, Mark IV	
1 shell, long	
1 shell, "D," semisteel	
1 shrapnel	
1 powder charge	

NOTE 2.—Camouflage equipment, set.

(To be issued in time of war.)

Camouflage fish nets, 40 by 40 feet	4
Come alongs	2
Mauls, wooden	2
Stakes, wooden, 4 by 6 inches, 8-foot long (when requested)	100
Wire, galvanized-iron, No. 10, rolls	4
Wire, galvanized-iron, No. 16, rolls	1
Wire cutter, large	4
Wire cutter, small	4
Camouflage supplies, consisting of burlap, paint, etc.; colors according to season and theater of operations.	

NOTE 3.—Communications equipment (signal).

Articles of equipment.	Battery.	Battalion head-quarters and battalion section of head-quarters company.	Regimental head-quarters and regimental section of head-quarters company.	Supply company.
Bags, tool, service, complete.....		1	1	
Batteries for Signal Corps, flashlight, type TL-95, spare ¹				
Batteries, Signal Corps, type BA-1, for monocard sets, and universal test, sets, spare.....	4	4	10	
Batteries, Signal Corps, type BA-2, spare.....		15	35	
Batteries, Signal Corps, type BA-9, for telephone, spare.....	18	18	18	
Batteries, Signal Corps, type BA-11, for signal lamps, spare.....	12	16	16	
Bulbs, for Signal Corps, flashlight, type TL-95, spare ¹				
Chests, type BC-5.....			1	
Cipher device.....		1	1	
Connectors, type A, 19-point, with cord and ground rod, type D.....	2	2	3	
Envelopes, field message.....		100	150	
Flashlights, Signal Corps, type TL-95, with batteries and bulbs, complete, additional to allowance prescribed in Table II, Circular 152, W. D., 1920.....	6	3	3	
Fuzes, 1-ampere, monocard, for switchboards.....	16	24	40	
Glasses, field, Huet, 8-power, with milscale; additional to allowance in Table II, Circular 152, W. D., 1920.....	6	11	9	
Head sets, telephone, Western Electric, high efficiency, with soft rubber ear cap.....	6	6	6	
Hydrometers, Signal Corps, type HY-2.....	1	1	1	
Kits, flag, combination, standard.....	15	15	11	
Kits, inspectors' pocket.....	6	3	3	
Lineman's equipment, type TE-21.....	2	2	2	
Megaphones.....	2			
Panels, divisional artillery, sets, type AP-9.....		1	1	
Reels, breast, with spools.....	4	4	2	
Sets, low-frequency amplifier, type SCR-121, with batteries, complete.....		1	1	
Sets, monocard operators, type EE-64, with batteries, complete.....	1	1	2	
Set, radio, type SCR-54-A, with batteries, complete.....		1		
Set, radio, type SCR-105, with batteries, complete.....			1	
Set, radio telephone, type SCR-67-A, with batteries, complete.....			1	
Set, test, Universal, type EE-65.....			1	
Set, U. W. loop, radio telegraph, type SCR-77, with batteries, complete.....		1	1	
Signal lamps, Signal Corps, type EE-6, with batteries, complete.....	3			
Signal lamps, Signal Corps, type EE-7, with batteries, complete.....		2	2	
Studs, connector, 19-point, spare.....	4	6	6	
Switchboards, Signal Corps, type BD-9.....	2	1	1	
Switchboards, Signal Corps, type BD-10.....		1	2	
Switchboards, Signal Corps unit, type EE-2.....	1	1	1	
Tape, friction..... pounds.....	3	2	2	
Tape, rubber.....		1	1	
Telephones, Signal Corps, type EE-5, with batteries, complete, and 1 ground rod..... each.....	6	6	6	
Tubes, type VT-1, spare.....		10	40	
Tubes, type VT-2, spare.....			15	
Voltmeter, battery, 0 to 35 amperes, 0 to 11 volts.....	1	1	1	
Wavemeter, type SCR-128.....			1	
Watches, wrist, luminous hands and numbers, with wristlets.....	12	18	16	
Wire, twisted pair, double-conductor, heavy..... kilometers.....	8	16	32	
Wire, twisted pair, double-conductor, light..... kilometers.....	8	5	2	

¹ 1 per flashlight.

NOTE 4.—*Fire-control equipment (ordnance).*

Articles of equipment.	Battery.	Battalion head-quarters and battalion section of head-quarters company.	Regimental head-quarters and regimental section of head-quarters company.	Supply company.
Absorbers, shock, time-interval recorder.....	6	3	3	
Bars, adjustment, for 1-meter base range finder.....	1	1	1	
Batteries, dry cell, for flashlights, with hood (Ordnance Department type), spare.....	21	3	3	
Batteries, No. 6, for devices, lighting, for aiming post, spare.....	16			
Bulbs, for flashlights with hood (Ordnance Department type), spare.....	21	3	3	
Cases, carrying, for aiming circle and tripod.....	2	2	2	
Cases, carrying, for prismatic compass, M. 1918.....	8	8	8	
Cases, carrying, for battery commander's scissors telescope.....	2	2	2	
Cases, carrying, for 1-meter base range finder.....	1	1	1	
Cases, carrying, for tripod and adjustment bar, for 1-meter base range finder.....	1	1	1	
Chains, time-interval recorder.....	6	3	3	
Circles, aiming, French type.....	2	2	2	
Compass, prismatic, M. 1918, additional to those allowed in Table II, Circular 152, W. D., 1920.....	3	7	8	
Device, lighting, for aiming posts, in case with batteries, complete.....	5			
Flashlights, with hoods, with batteries and bulbs, complete (Ordnance Department type).....	21	3	3	
Posts, aiming.....	12			
Protractor, semicircular, xylonite, transparent, with mill graduations, coordinate window, with plotting scales on 2 adjacent sides of window and across diameter of—				
8½ inches diameter.....	1	2	2	
12 inches diameter.....	1	2	2	
Range finder, 1-meter base.....	1	1	1	
Recorders, time interval.....	6	3	3	
Rulers, flat, straightedge, xylonite.....	2	2	2	
Rulers, wood, battery commander's, with strings, for 155-mm. howitzer.....	10	5	8	3
Scales, plotting, metal, triangular.....	2	3	3	
Sitogoniometers, with leather cases, with 1 extra string each.....	5	5	8	3
Squares, coordinate, zinc.....	2	2	2	
Straps, carrying, for tripods for battery commander's scissors telescope.....	2	2	2	
Strings, extra, for B. C. rulers.....	10	5	8	3
Tables, range, for 155-mm. howitzer, M. 1918, complete.....	10	8	5	3
Tape, steel, 30 meters.....	1	1	1	
Telescopes, battery commander's scissors.....	2	2	2	
Telescopes, monocular—to be issued until present supply is exhausted.....		1	1	
Thermometers.....	2			
Tripods, aiming circle, French type.....	2	2	2	
Tripods, for prismatic compass, M. 1918.....	8	8	8	
Tripods, for 1-meter base range finder.....	1	1	1	

NOTE 5.—This observation ladder to be made by organization mechanics and carried on a caisson.

NOTE 6.—*Tools and accessories for anti-aircraft machine guns.*

Belts, ammunition.....	45 per battery.
Boxes, ammunition.....	45 per battery.
Boxes, water.....	2 per gun.
Boxes, spare parts.....	1 per gun.
Covers, canvas, machine gun.....	1 per gun.
Devices, steam condensing.....	1 per gun.
Rods, cleaning.....	1 per gun.
Spare barrels.....	1 per gun.
Sights, anti-aircraft, set.....	1 per gun.
Tripods, M. 1918.....	1 per gun.

NOTE 7.— *Topographical equipment (engineer).*

Articles of equipment.	Battery.	Battalion head-quarters and battalion section of head-quarters company.	Regimental head-quarters and regimental section of head-quarters company.	Supply company.
Allidade, brass, open sight, leveling, complete, with case and declinator with leveling bubble.....	1	1	1	.....
Allidade, 18-inch, telescopic, with leather case.....	.....	1	1	.....
Compass, watch, additional to allowance in Table II, Circular 152, W. D., 1920.....	14	15	11	4
Glass, reading, 4½-inch diameter, with case.....	1	1	1	.....
Instruments, drawing, office set, in case.....	1	1	1	.....
Consisting of—				
3 ruling pens, 4½, 5, and 5½ inch.				
1 contour pen, 4½-inch.				
1 5-inch center adjustment pen.				
1 5-inch hairspring dividers.				
1 5½-inch compass, with pen, pencil and lengthening bar—fixed needle point.				
1 tubular case for points.				
1 3½-inch bow spacer.				
1 3½-inch bow pencil.				
1 3½-inch bow pen.				
1 semicircular 4-inch protractor.				
2 irregular curves.				
1 45° triangle.				
1 30°-60° triangle.				
Plane table, 18 by 24 inches, with tripod attachment, tripod, and waterproof cover.....	1	.....	.....	1
Plane table, 24 by 31 inches, with tripod attachment, tripod, and waterproof cover.....	1	2	2	.....
Plumb bob, brass, 10-ounce, with line.....	2	2	2	.....
Sketching outfit, complete.....	2	2	2	.....
1 allidade, boxwood.				
1 board, sketching, with waterproof cover.				
1 chest, sketching outfit.				
1 clinometer, service, with case.				
1 compass, prismatic, with case.				
1 pace, tally.				
1 strap, wrist.				
1 tripod, wood, folding.				
Stadia rod, 2 meters maximum reading, with 2 fixed targets and 1 sliding target, in 2 sections with socket connection, length of each section not over 49.75 inches.....	1	1	1	.....
Tubes, Japan.....	8	8	8	.....
SUPPLIES.				
Celluloid sheets, 18 by 24 inches.....	12	.....	.....	.....
Celluloid sheets, 24 by 31 inches.....	12	12	12	.....
Erasers, pencil, art gum.....	2	2	2	.....
Paper, drawing, single, 24 inches wide, 5-yard rolls.....	8	8	8	.....
Pencils, drawing, 3H.....	24	24	24	.....
Pads, pencil pointing, 1½ by 4 inches.....	2	4	4	.....
Pins, tally, steel arrows, 10-inch set.....	1	1	1	.....
Supplies, sketching outfit:				
Each set as follows—				
12 celluloid sheets, 12½ by 13½ inches.				
4 erasers, rubber, pencil.				
½ paper, sketching, gross.				
Pencils—				
4 colored blue.				
16 drawing, H.				
4 colored green.				
4 colored red.				
4 protectors, pencil point.				
3 tape, adhesive, rolls.				
Tacks, thumb, gross.....	2	2	2	.....

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

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CIRCULAR }
No. 180. }

WAR DEPARTMENT,
WASHINGTON, May 13, 1920.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL TO FIELD ARTILLERY TROOPS—
TABLE IV-C, FIELD ARTILLERY BRIGADE HEADQUARTERS—AMENDMENT
TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920.**

Circular No. 152, War Department, 1920 (Tables of Basic Allowances), as amended by Circular No. 153, War Department, 1920 (Basic Allowances of Equipment Special for Posts, Garrisons, and Semipermanent Camps), Circular No. 178, War Department, 1920 (Basic Allowances of Equipment Special to Field Artillery Troops—Table IV-C, 75-mm. Gun Regiment, Horsedrawn), and Circular No. 179, War Department, 1920 (Basic Allowances of Equipment Special to Field Artillery Troops—Table IV-C, 155-mm. Howitzer Regiment, Motordrawn), is further amended by adding to the tables enumerated therein the following table with notes prescribing the allowances of individual and organizational equipment for Field Artillery brigade headquarters:

TABLE IV-C.—*Field Artillery brigade headquarters.*

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
INDIVIDUAL EQUIPMENT TO BE ISSUED TO PERSONNEL OF ARTILLERY BRIGADE HEADQUARTERS.			
Dispatch cases.....	1		Per officer, sergeant major and first sergeant.
Pistols.....	1		Per individual.
ORGANIZATIONAL EQUIPMENT FOR ARTIL- LERY BRIGADE HEADQUARTERS.			
Bicycles.....	2		
Carts, ration.....	1		
Cars, reconnaissance.....	2		
Cars, motor, CT or CL.....	1		
Cars, motor, DT or DS.....	1		
Cavassons, with longe.....	2		
Communications equipment.....	1		
Fire control equipment.....	1		
Harness sacks.....	1	1	Note 1. Note 2. Per double set harness.
Horses, riding.....	(e)		c Ten (10).
Motor-cycles, with side cars.....	4		a 4 per ration and baggage wagon; 4 per spring wagon; 2 per ration cart.
Mules, draft.....	(e)		Per animal.
Picket line, wire cable, 1/4-inch, feet.....		2 1/2	
Reel carts, pack, type RL-16.....	3		
Rope, manila, 1/2-inch, feet.....	100		
Scoops, manure, short handled.....		1	
Tanks, watering, circular.....	1		
Tape, measuring, 100-foot.....	1		
Tents, wall, small, complete.....	3		Additional to allowance in Table III, Cir. No. 152, W. D., 1920, for protec- tion of instruments from inclement weather.
Topographical equipment.....	1		Note 3.
Truck, 1 1/2-ton.....	3		
Trunk locker for topographical equip- ment.....	2		
Wagons, ration and baggage.....	2		
Wagons, spring.....	2		1 for radio equipment; 1 for reel carts, pack, and wire.

NOTES PERTAINING TO TABLE IV-C—ARTILLERY BRIGADE HEADQUARTERS.

NOTE 1.—Communications equipment (signal).

Axes, hand, lineman.....	1
Bags, tool, service, complete.....	1
Battery, type BA-1, spare.....	4
Battery, for flashlights, spare, per flashlight.....	1
Battery, type BA-2, spare.....	15
Battery, type BA-9, spare.....	36
Battery, type BA-10.....	8
Bells, vibrating, 4-ohm.....	2
Bulbs, spare, per flashlight.....	1
Buttons, push.....	2
Case, battery, type CS-8.....	3
Chest, type BC-5.....	1
Cipher device.....	2
Clips, test, Frankel.....	6
Connectors, type A, 19 point, with cord and ground rod.....	2
Envelopes, field message.....	500
Flashlights, type TL-95, with batteries and bulbs, complete, additional to allowance in Table II, Circular 152.....	6
1 for message center.....	
1 for messenger.....	
1 for telephone switchboard.....	
1 for trouble man.....	
1 for each radio set (2).....	
Fuses, 1 ampere monocord.....	45
Glasses, field, Huet, 8 power, additional to allowance in Table II, Circular 152.....	2
1 for corporal, radio station.....	
1 for private, wireman.....	
Headsets, telephone, W. E. high efficiency, with soft rubber ear caps.....	12
Hydrometer, type HY-2.....	2
Kits, inspectors', pocket.....	4
Kits, soldering, complete, Signal Corps type.....	1
Lineman's equipment, type TE-21.....	2
Panels, divisional artillery set, type AP-9.....	1
Sets, monocord operator, type EE-64, with battery, complete.....	2
Sets, test, Universal, type EE-65, with battery, complete.....	3
Sets, low frequency amplifier, type SCR-121, with battery, complete.....	1
Set, radio-telegraph, type SCR-105.....	1
Set, U. W. radio-telegraph, type SCR-79-A.....	1
Strips, terminal, 10 pr.....	4
Switchboards, type BD-10.....	3
Switchboards, unit type EE-2.....	3
Tape, friction, pounds.....	3
Tape, rubber, pounds.....	1
Telephones, type EE-5, with batteries and ground rods, complete.....	12
Tubes, type VT-1.....	15
Voltammeter, battery 0 to 35 amperes; 0 to 11 volts.....	1
Voltammeter, Weston, type 280.....	1
Watches, wrist, with wristlet.....	14
Wire, twisted pair, two conductor, heavy, kilometers.....	50

NOTE 2.—Fire control equipment (Ordnance).

Protractor, semicircular, xylonite, transparent with mil graduation; coordinate window with plotting scales on two adjacent sides of window and across diameter, 12-inch.....	2
Ruler, metallic, triangular, 12-inch.....	4
Ruler, flat, straightedge, xylonite.....	2
Scales, plotting, metallic, triangular.....	4
Squares, coordinate, zinc, with plotting scale.....	2
Tables, range, 75-mm. gun.....	4
Tables, range, 155-mm. howitzer.....	4
Tape, steel, 30-meter.....	1

NOTE 3.—Topographical equipment (Engineer).

Alidade, brass, open sight, leveling complete with case and declinator with leveling bubble.....	1
Instruments, drawing, office set in case consisting of.....	2
3 ruling pens, 4 $\frac{1}{2}$, 5, and 5 $\frac{1}{2}$ inch.....	
1 contour pen, 4 $\frac{1}{2}$ -inch.....	
1 5-inch center adjustment pen.....	
1 5-inch hairspring dividers.....	
1 5 $\frac{1}{2}$ -inch compass with pen, pencil, and lengthening bar, fixed needle point.....	
1 tubular case for points.....	
1 3 $\frac{1}{2}$ -inch bow spacer.....	
1 3 $\frac{1}{2}$ -inch bow pencil.....	
1 3 $\frac{1}{2}$ -inch bow pen.....	
1 semicircular 4-inch protractor.....	
2 irregular curves.....	
1 45° triangle.....	
1 30° to 60° triangle.....	
Knife, steel, eraser.....	6
Plane table, 24 by 31 inches, with tripod attachment, tripod, and waterproof cover.....	1
Plumb bob, brass, 10-ounce, with line.....	1

Sketching outfit, complete, consisting of.....	2
1 alidade, metal.	
1 board, sketching, with waterproof cover.	
1 chest, sketching outfit.	
1 clinometer, service, with case.	
1 compass, prismatic, with case.	
1 pace tally.	
1 strap, wrist.	
1 tripod, wood, folding.	
Tubes, Japan.....	6
SUPPLIES.	
Celluloid sheets, 24 by 31 inches.....	6
Erasers, pencil, art gum.....	6
Paper, drawing, single, 24 inches wide, 5-yard rolls.....	6
Paper, tracing, 30 inches wide, 20-yard rolls.....	4
Pencils, drawing, 3H.....	60
Pads, pencil, pointing, 1½ by 4 inches.....	6
Pins, tally, steel arrows, 10-inch set.....	1
Supplies, sketching outfit, each set as follows:	
12 celluloid sheets, 12½ by 13½ inches.	
4 erasers, rubber, pencil.	
½ paper, sketching, gross.	
Pencils:	
8 colored blue.	
30 drawing, H.	
8 colored green.	
8 colored red.	
4 protectors, pencil point.	
3 tape, adhesive, rolls.	
Tacks, thumb, gross.....	2

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

NOTES PERTAINING TO TABLE IV-C—ARTILLERY BRIGADE HEADQUARTERS.

NOTE 1.—Communications equipment (signal).

Axes, hand, lineman	1
Bags, tool, service, complete	1
Battery, type BA-1, spare	4
Battery, for flashlights, spare, per flashlight	1
Battery, type BA-2, spare	15
Battery, type BA-9, spare	36
Battery, type BA-10	8
Bells, vibrating, 4-ohm	2
Bulbs, spare, per flashlight	1
Buttons, push	2
Case, battery, type CS-8	3
Chest, type BC-5	1
Cipher device	2
Clips, test, Frankel	6
Connectors, type A, 19 point, with cord and ground rod	2
Envelopes, field message	500
Flashlights, type TL-95, with batteries and bulbs, complete, additional to allowance in Table II, Circular 152	6
1 for message center	
1 for messenger	
1 for telephone switchboard	
1 for trouble man	
1 for each radio set (2)	
Fuses, 1 ampere monocord	48
Glasses, field, Huet, 8 power, additional to allowance in Table II, Circular 162	2
1 for corporal, radio station	
1 for private, wireman	
Headsets, telephone, W. E. high efficiency, with soft rubber ear caps	12
Hydrometer, type HY-2	2
Kits, inspectors', pocket	4
Kits, soldering, complete, Signal Corps type	1
Lineman's equipment, type TE-21	2
Panels, divisional artillery set, type AP-9	1
Sets, monocard operator, type EE-64, with battery, complete	2
Sets, test, Universal, type EE-65, with battery, complete	3
Sets, low frequency amplifier, type SCR-121, with battery, complete	1
Set, radio-telegraph, type SCR-105	1
Set, U. W. radio-telegraph, type SCR-79-A	1
Strips, terminal, 10 pr	4
Switchboards, type BD-10	3
Switchboards, unit type EE-2	3
Tape, friction, pounds	3
Tape, rubber, pounds	1
Telephones, type EE-5, with batteries and ground rods, complete	12
Tubes, type VT-1	15
Voltammeter, battery 0 to 35 amperes; 0 to 11 volts	1
Voltammeter, Weston, type 280	1
Watches, wrist, with wristlet	14
Wire, twisted pair, two conductor, heavy, kilometers	50

NOTE 2.—Fire control equipment (Ordnance).

Protractor, semicircular, xylonite, transparent with mil graduation; coordinate window with plotting scales on two adjacent sides of window and across diameter, 12-inch	2
Ruler, metallic, triangular, 12-inch	4
Ruler, flat, straightedge, xylonite	2
Scales, plotting, metallic, triangular	4
Squares, coordinate, zinc, with plotting scale	4
Tables, range, 75-mm. gun	4
Tables, range, 155-mm. howitzer	4
Tape, steel, 30-meter	1

NOTE 3.—Topographical equipment (Engineer).

Allidade, brass, open sight, leveling complete with case and declinator with leveling bubble	1
Instruments, drawing, office set in case consisting of	2
3 ruling pens, 4 $\frac{1}{2}$ and 5 $\frac{1}{2}$ inch	
1 contour pen, 4 $\frac{1}{2}$ -inch	
1 5-inch center adjustment pen	
1 5-inch hairspring dividers	
1 5 $\frac{1}{2}$ -inch compass with pen, pencil, and lengthening bar, fixed needle point	
1 tubular case for points	
1 3 $\frac{1}{2}$ -inch bow spacer	
1 3 $\frac{1}{2}$ -inch bow pencil	
1 3 $\frac{1}{2}$ -inch bow pen	
1 semicircular 4-inch protractor	
2 irregular curves	
1 45° triangle	
1 30° to 60° triangle	
Knife, steel, eraser	6
Plane table, 24 by 31 inches, with tripod attachment, tripod, and waterproof cover	1
Plumb bob, brass, 10-ounce, with line	1

Sketching outfit, complete, consisting of.....	2
1 alidade, metal.	
1 board, sketching, with waterproof cover.	
1 chest, sketching outfit.	
1 clinometer, service, with case.	
1 compass, prismatic, with case.	
1 pace tally.	
1 strap, wrist.	
1 tripod, wood, folding.	
Tubes, Japan.....	6
SUPPLIES.	
Celluloid sheets, 24 by 31 inches.....	6
Erasers, pencil, art gum.....	6
Paper, drawing, single, 24 inches wide, 5-yard rolls.....	6
Paper, tracing, 30 inches wide, 20-yard rolls.....	4
Pencils, drawing, 3H.....	60
Pads, pencil, pointing, 1½ by 4 inches.....	6
Pins, tally, steel arrows, 10-inch set.....	1
Supplies, sketching outfit, each set as follows:	
12 celluloid sheets, 12½ by 13½ inches.	
4 erasers, rubber, pencil.	
½ paper, sketching, gross.	
Pencils:	
8 colored blue.	
30 drawing, H.	
8 colored green.	
8 colored red.	
4 protectors, pencil point.	
3 tape, adhesive, rolls.	
Tacks, thumb, gross.....	2

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR }
No. 198. }

WAR DEPARTMENT,
WASHINGTON, May 27, 1920.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL TO SIGNAL CORPS TROOPS—
AMENDMENT TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920.**

Circular No. 152, War Department, 1920 (Tables of Basic Allowances), as amended, is further amended by adding the following table with notes prescribing the basic allowances of individual and organizational equipment special to Signal Corps troops:

**TABLE IV-H.
EQUIPMENT.**

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammeters:			
Hot wire, radio frequency, portable, 0-1.5 amperes.		(b)	b 2 per division; corps and army field signal battalion.
Radio frequency, portable, 0-3 amperes.		(b)	b 1 per division and corps, and 2 per army field signal battalion.
Antenna and mast equipment (equipment type A-1).	(a)		a 2 per army radio section.
Antenna, type A-50.		(b)	b 1 per division and corps, and 2 per army field signal battalion.
Animals.	(a)		a See transportation.
Augers, posthole, 6-inch.	(a)		a 3 per division wire company, 10 per telegraph company, 2 per outpost company of army and corps field signal battalions.
Axes, hand, with helve.	(a)		a 1 per radio set.
Bags, tool, service, complete.	(a)		a 3 per wire company, 12 per telegraph company, 4 per outpost company of army and corps field signal battalions. See note 1.
Bars:			
Crow and digging, octagonal 1½ inches by 7 feet, tool steel.	(a)		a 6 per division wire company, 36 per telegraph company, 8 per outpost company of army and corps field signal battalions.
Tamping.	(a)		a 12 per telegraph company, 4 per outpost company of army and corps field signal battalions.
Wrecking, carpenter.	(a)		a 4 per telegraph company.
Batteries:			
Type BA-1.	(a)		a 2 (1 spare) per each telephone, type EE 4, monocrad operators switch-board set, type EE 64, and universal test set, type EE 65; 4 (2 spare) per each service buzzer and buzzerphone, type EE 1.
Type BA-2.	(a)		a 5 (additional spares) per each radio set, type SCR 77, SCR 79-A, SCR 97; SCR 99, SCR 121, and SCR 130; 4 (2 spare) per universal test set, type EE 65.
Type BA-4.	(a)		a 1 per wavemeter.
Type BA-9.	(a)		a 3 (2 spare) per telephone, type EE 5.
Type BA-10.	(a)		a 4 (2 spare) per vibrating-bell 4-ohm, simplex telegraph set, and to supply sections field signal battalion at the rate of 50 per division, 100 per each corps and army headquarters. To meteorological sections, 10 per each single register, type ML 28, and quadruple register, type ML 27, and 50 per telegraph battalion.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Bells, vibrating, 4-ohm, 2 $\frac{1}{2}$ -inch.....	(a)		a To field signal battalions at the rate of 10 per division, 36 per corps, and 72 per army.
Blocks.			
Connecting, one pair.....		(b)	b 10 per each division and corps field signal battalion.
Tackle, sets.....	(a)		a 1 per telegraph company. See note 2.
Bolt cutters, 36-inch.....	(a)		a 2 per telegraph company.
Bridges, dial, Wheatstone Leeds and Northrup, type S.....		(b)	b 1 per field signal and telegraph battalion.
Brushes, 1 $\frac{1}{2}$ -inch round, stencil, and box stencil paste.....	(a)		a 4 per telegraph company.
Buttons, push.....	(a)		a 1 per bell, vibrating, 4-ohm.
Buzzers, service.....	(a)		a 1 per radio set, 3 per each wire cart, and test and switching point; 3 extra per battalion headquarters.
Buzzerphones, type EE 1.....	(a)		a 2 per field signal battalion headquarters.
Cases:			
Battery, type CS 8.....	(a)		a 1 per each 12 spare batteries, type BA-9.
Map or dispatch.....	(a)		a 1 per officer and to noncommissioned officers down to and including the grade of sergeants, first class, in division, corps, and army organizations only.
Carts, wire, complete with harness and accessories.....	(a)		a See transportation. See note 3.
Chains:			
Log, $\frac{3}{4}$ inch by 9 feet, with load binder.....	(a)		a 2 per telegraph company.
Surveyor, 100-foot.....	(a)		a 1 per telegraph company.
Chests:			
Cable splicers, complete with contents.....	(a)	(b)	a 1 per telegraph company. b 1 per division field signal battalion headquarters. See note 4.
Mechanics' tools, Nos. 1 and 2, complete with contents.....	(a)		a 1 of each per field signal battalion headquarters, to each telegraph company, and to each army radio section. See note 5.
Telephone repair parts, complete with contents.....	(a)		a 1 per field signal battalion headquarters. See note 6.
Type BC 5.....	(a)		a 1 per test or switching point, 10 per each battalion supply section and telegraph company, and 10 per army radio section.
Cipher device.....	(a)		a 4 per message center, 1 per each radio set.
Clips, test (Frankel).....	(a)		a 2 per each telephone, type EE 5, universal test set, type EE 65, and telephone switchboard; 4 per each wire cart and 6 per each radio set and battery charging set.
Clocks, chronometer.....	(a)		a 2 per each army radio section.
Coils, induction:			
Camp telephone.....		(b)	b 5 per battalion headquarters.
Common battery.....		(b)	Do.
Condensers, telephone, 2 mfd.....		(b)	Do.
Condensers, variable, air, 0.001 mfd. and 0.005 mfd.....		(b)	b 2 each per field signal battalion headquarters.
Cooking outfit, pack type.....	(a)		a 1 per battalion and 1 per telegraph company, 1 per army radio section headquarters. See note 7.
Cords, switchboard.			
Camp type.....	(a)		a 4 per camp switchboard.
Monocord type.....	(a)		a 2 per switchboard, types BD 9 and BD 10, 3 per switchboard, type BD 11.
Counter, pole.....	(a)		a 1 per telegraph company.
Crimpers, cable ring.....	(a)		a 2 per telegraph company.
Dead man, standard, W. E. 848.....	(a)		Do.
Decremeter, type SCR 87.....	(a)		a 1 per each set SCR 97, 1 per army radio section.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Drafting equipment	(a)		a 1 per each battalion headquarters and meteorological headquarters, field forecast section, and field observation section. See note 8.
Dynamotors, type DM 1, with case		(b)	b 2 per field signal battalion.
Filter, radio special	(a)		a 6 per army radio section.
Flashlights, complete with spare bulb and battery	(a)		a 1 per radio set, service buzzer, buzzer- phone, and switchboard.
Fuses, for monocoord switchboards	(a)		a At the rate of 1 per two lines.
Gloves, rubber:			
Light, pairs	(a)		a 2 per battery-charging set.
Heavy, lineman's, pairs	(a)		a 1 per wire company, 4 per telegraph company.
Grinders, carborundum	(a)		a 1 per each field-signal battalion and telegraph company.
Grindstone, mounted	(a)		a 1 per telegraph battalion.
Grips, Buffalo, with pulleys complete, pairs	(a)		a 4 per field signal battalion, 12 per tele- graph company, 4 per outpost com- pany of army and corps field signal battalions.
Grips, Haven, complete with strap, hook, and pulleys	(a)		a 2 per field signal battalion, 6 per tele- graph company, 4 per outpost com- pany of army and corps field signal battalions.
Groundman's equipment, type TE-23 ..	(a)		a 1 per each test point, 12 per each field signal battalion, 24 per telegraph company, and 10 per army radio sec- tion. See note 9.
Hammers, sledge, 8-pound	(a)		a 4 per telegraph company.
Head sets:			
Telephone, complete		(b)	b 4 per company.
High efficiency, with rubber ear caps ..	(a)		a 2 per meteorological section station.
Hooks:			
Brush	(a)		a 1 per wire cart, 6 per telegraph com- pany.
Cant	(a)		a 6 per telegraph company.
Horses:			
Draft	(a)		a See transportation.
Riding	(a)		Do.
Hydrometers, type HY-2	(a)		a 1 per radio station, 2 per battery- charging set.
Inductances, variable, assorted sizes ..		(b)	b 5 per field signal battalion.
Jacks, cable reel	(a)		a 2 per telegraph company.
Jenny, cable spinning		(b)	b 1 per telegraph company.
Keys:			
Telegraph, CC, legless		(b)	b 5 per company.
Telegraph, vibroplex	(a)	(b)	a 1 per simplex telegraph set. b 5 per company.
Ringing and listening, for switch- board, type BD-14		(b)	b 5 per battalion headquarters.
Kits:			
Inspector's pocket, complete	(a)		a 1 per each wire cart, radio set, switch- board, and 1 per army radio section station. See note 10.
Soldering, complete	(a)		a 2 per each wire company and tele- graph company, 1 per SCR 124 and SCR 97. See note 11.
Ladders, extension (2-18 foot sections), complete with hoisting gear	(a)		a 1 per field signal battalion and 1 per telegraph company.
Lanterns, candle, folding	(a)		a 1 per each test point, buzzer, and radio set.
Line jacks, for switchboard, type BD-14 ..		(b)	b 4 per camp switchboard, type BD-14.
Lineman's equipment, type TE 21	(a)		a 1 per each wire cart and test point, 12 per each field signal battalion, 24 per telegraph company, and 10 per army radio section. See note 12.
Lofts, mobile pigeon	(a)		a To army pigeon headquarters for dis- tribution at the rate of 2 per division. There is a trailer chassis with this loft, for which see transportation.
Magnetos, telephone		(b)	b 5 per battalion headquarters.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Mast sections, types MS 5, with clamps, type FT 14 A, complete.	(a)	.....	a 150 per army radio section.
Mats, ground, type MT 2.	(a)	.....	a 78 per army radio section.
Mil-ammeter, portable, D.C., scale 50-0-50	.....	(b)	b 1 per battalion.
Meters, audibility.	.....	(b)	b 1 per field signal battalion.
Meteorological equipment.	(a)	.....	a 1 per meteorological section. See note 13.
Needles, poised, magnetic.	.....	(b)	b 5 per battalion headquarters.
Panels, sets.	(a)	.....	a 1 per division and corps field signal battalion. See note 14.
Photographic equipment.	(a)	.....	a 1 per field signal battalion headquarters. See note 15.
Pike poles, 10 to 14 feet, standard heavy.	(a)	(b)	a 16 per telegraph company, 8 per outpost company of army and corps field signal battalions. b 6 per divisional wire company.
Pikes, wire.	(a)	.....	a 3 per wire cart.
Pigeon equipment.	(a)	.....	a 1 per pigeon loft. See note 16.
Pins, surveyors, sets, 11 pins per set.	(a)	.....	a 1 per telegraph company.
Pistols, caliber .45, M 1911.	(a)	.....	a At the rate of 1 per each officer and enlisted man.
Pliers:			
Diagonal cutting, 5-inch.	(a)	.....	a 1 per switchboard.
Long oval nose, 5-inch.	(a)	.....	Do.
Side-cutting, 8-inch.	(a)	.....	a 6 per outpost company of army and corps field signal battalions.
Poles, telephone, 25 and 30 foot.	.....	(b)	b 5 of each per field signal battalion and telegraph company.
Receivers, telephone, hand.	.....	(b)	b 5 per battalion headquarters.
Reel carts, pack, type RL 16.	(a)	.....	a 4 per wire company, 4 per outpost company of army and corps field signal battalions. See note 17.
Reels:			
Hand, buzzer wire.	(a)	.....	a 1 per buzzer.
Pay-out.	(a)	.....	a 4 per field signal battalion, 10 per telegraph company.
Repeater, automatic telegraph.	.....	(b)	b 1 per army and corps wire company.
Resonators, telegraph.	(a)	(b)	a 1 per simplex telegraph set. b 5 per company.
Rock drills, hand, sets.	(a)	.....	a 1 per telegraph company. See note 18.
Rock drill, portable, compressed air, complete with compressor, power, plant, and drills.	(a)	.....	a 1 per telegraph battalion, normally at signal corps dump or supply depot. See note 19.
Rods:			
Surveyors.	(a)	.....	a 3 per telegraph company.
Ground, type GF 16.	(a)	.....	a 2 per switchboard; 96 per army radio section.
Rollers, cable.	(a)	.....	a 2 per telegraph company.
Saws:			
Crosscut—			
2-man.	(a)	.....	a 2 per telegraph company.
8-point, 26-inch.	(a)	.....	a 4 per each field signal battalion and telegraph company, 2 per outpost company of army and corps field signal battalions.
3-foot.	(a)	.....	a 4 per telegraph company, 2 per outpost company of army and corps field signal battalions.
Rip, 6-point, 28-inch.	(a)	.....	a 2 per telegraph company.
Saw sets, with clamps.	(a)	.....	a 1 per field signal battalion, 1 per telegraph company.
Screw drivers, cabinet type.	(a)	.....	a 1 per switchboard.
Set:			
Amplifier—			
6-stage, BC-8.	(a)	(b)	a 6 per army radio section. See note 20. b 1 per field signal battalion.
7-stage.	(a)	.....	a 6 per army radio section, 1 per army radio company.
Low-frequency, type SCR 121 or BC 101.	(a)	.....	a 1 per each radio set SCR 54-A and SCR 105; 7 per each army radio section. See note 21.
Buzzer instruction, type EE 14.	.....	(b)	b 2 per company.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Set—Continued.			
Battery-charging, SCR 82, complete.	(a)	.....	a 1 per army radio section, 1 per set radio operating, type SCR 124, 1 per storage battery trailer, 1 per radio trailer in corps and army battalions only. See note 22.
Monocord operator, type EE 64.....	(a)	.....	a 1 per each 12 monocord switchboard lines, or fraction thereof. See note 23.
Radio receiving, type SCR 54-A.....	(a)	.....	a 1 per each divisional and 2 per each corps and army radio company, 1 per army meteorologic-1 headquarters, 13 per army radio section. See note 24.
Radiotelegraph—			
Type SCR 62.....	(a)	.....	a 1 per meteorological mobile observation section. See note 23.
U. W. loop, type SCR 77.....	(a)	(b)	a 4 per divisional radio company. b 4 per corps and army radio company. See note 28.
Type SCR 79-A.....	(a)	.....	a 1 per radio set, type SCR 124. See note 27.
And telephone, type SCR-97.....	(a)	.....	a 1 per divisional and 2 per corps and 1 for army radio company. This set includes a truck, for which see transportation. See note 28.
U W., type SCR 99.....	(a)	.....	a 1 per radio set, type SCR 124. See note 29.
Type SCR 105.....	.....	(b)	b 1 per divisional radio company. See note 30.
U. W., type SCR 130.....	(a)	.....	a 1 per divisional radio company. See note 31.
Direction-finding radio receiving, type SCR 122.....	.....	(b)	b 1 per army radio section. See note 32.
Radio receiving—			
Short-wave, special.....	(a)	.....	a 4 per army radio section.
Type SE 1420.....	(a)	.....	Do.
Radio telephone and telegraph—			
Type SCR 132.....	(a)	.....	a 1 per army radio section. See note 33.
Type SCR 132 and set direction-finding radio receiving, type SCR 122, installed in trailer.	(a)	.....	a 6 per army radio section. For trailer, see transportation.
Radio operating, type SCR 124.....	(a)	.....	a 1 per radio company. This set includes a truck, for which see transportation. See note 34.
Simplex telegraph.....	(a)	.....	a 1 per divisional wire company, 10 per corps and army wire company. See note 35.
Test—			
Cable man, tone.....	(a)	(b)	a 2 per telegraph company. See note 36. b 2 per wire company.
Universal, type EF 65.....	(a)	.....	a 2 per wire and telegraph company. See note 37.
Shovels:			
Long handle.....	(a)	.....	a 3 per wire company, 36 per telegraph company, 8 per outpost company of army and corps field signal battalions.
Short handle.....	(a)	.....	a 3 per wire company, 12 per telegraph company, 6 per outpost company of army and corps field signal battalions.
Signal:			
Line, camp switchboard, complete.....	.....	(b)	b 15 per battalion.
Supervisory, camp switchboard.....	.....	(b)	b 5 per battalion.
Sounders, telegraph, 4-ohm.....	.....	(b)	b 5 per company.
Spoons, shovel.....	(a)	.....	a 3 per wire company, 24 per telegraph company, 4 per outpost company of army and corps field signal battalions.
Squares, steel, 30-inch.....	(a)	.....	a 2 per telegraph company.
Stencils:			
"U. S. A.," "SC," 2-inch letters.....	(a)	.....	a 1 per telegraph company.
0-9, 2-inch, set.....	(a)	.....	Do.
Strips, terminal, 10-pair.....	(a)	.....	a 20 per wire company.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Switches:			
Special listening station.....	(a)	.....	a 10 per army radio section.
Hook, wall telephone.....		(b)	b 5 per battalion.
Snap.....		(b)	b 2 per company.
Switchboards:			
Telegraph—			
4-line.....	(a)	.....	a 1 per simplex telegraph set. See note 38.
8-line.....		(b)	b 1 per field signal battalion, division only.
8-line spring jack.....	(a)	.....	a 1 per corps wire company. See note 39.
20-line spring jack.....	(a)	.....	a 1 per army wire company.
L. B. type, model.....		(b)	b 1 per battalion.
Type BD-9.....	(a)	.....	a 6 per battalion.
Type BD-11.....	(a)	.....	a 1 per test or switching point and 2 per wire company, 1 per meteorological headquarters, and 1 per telegraph battalion.
Type BD-14.....	(a)	.....	a 2 per each divisional wire company, 6 per corps wire company, 12 per army wire company, and 1 per telegraph battalion. See note 40.
Switchboard units, type EE 2.....	(a)	.....	a 1 per 12 monocoord telephone switchboard lines or fractions thereof.
Tachometers.....		(b)	b 1 per field signal battalion.
Tape, steel, 200 feet.....	(a)	.....	a 1 per telegraph company.
Telephones:			
Type EE-4.....	(a)	.....	a 1 per meteorological section, 36 per divisional field signal battalion, 100 per corps field signal battalion, and 150 per army field signal battalion, 19 per army radio section, and 4 per telegraph battalion.
Type EE-5.....	(a)	.....	a 1 per test or switching point, 8 per wire company, and 6 per telegraph company.
Tents:			
Wall, small.....	(a)	.....	a To field signal battalions at the rate of 1 per test or switching point, 1 per each wire company and radio company and for each radio set SCR 54-A, SCR 77, SCR 62, and SCR 105.
Pyramidal.....	(a)	.....	a For offices, 2 per battalion, 1 per company.
Test or switching points.....			Located on communication axis, normally 4 per division, 12 per each corps and army.
Tools:			
Line construction, sets.....	(a)	(b)	a 6 per telegraph company, 4 per out post company of army and corps field signal battalions. b 1 per field signal battalion. See note 41.
Transmitters:			
Breast set.....	(a)	(b)	a 2 per meteorological section. b 5 per battalion.
Telephone (commercial).....		(b)	b 5 per battalion.
Transportation:			
Animals—			
Horses—			
Draft.....	(a)	.....	a 2 per wire cart.
Riding.....	(a)	.....	a 1 per officer, 1 per orderly, and in wire company, 1 per chief of wire-cart section, 2 (for wire-cart pikemen) per wire cart. Divisional organization only.
Vehicles—			
Cars, motor, medium (D. S. or D. T.).	(a)	.....	a 2 per battalion headquarters, 1 per each corps and army company, 1 per army meteorological headquarters, 1 per army radio section.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Transportation—Continued.			
Vehicles—Continued.			
Carts, reel, 2-horse	(a)	.....	^a 4 per divisional wire company.
Motorcycles, with side cars.....	(a)	.....	^a 2 per battalion headquarters supply section, 4 per field signal company, 3 per battalion headquarters, 6 per telegraph company, 1 per mobile pigeon loft, 1 per each meteorological forecast section and army photo section, 9 per army radio section.
Trucks—			
Cargo, ½-ton (AA type 2)....	(a)	.....	^a 1 per battalion headquarters, 1 per photo section, 1 per battalion supply section, 3 per wire company, 2 per radio company, 4 per telegraph company, 4 per outpost company of army and corps field signal battalions, 1 per meteorological field observation section, and 4 per army radio section.
5-ton telegraph, special body.....	(a)	.....	^a 1 per army field signal battalion. To be issued until supply is exhausted, when trailers will be supplied. See note 42.
5-ton, telephone switch-board, special body.....	(a)	.....	^a 1 per army field signal battalion. To be issued until supply is exhausted, when trailers will be supplied. See note 43.
Cargo, 1½-2 ton (A type 3)....	(a)	.....	^a 5 per battalion supply section, 1 per battalion headquarters, 2 per signal company, 8 per telegraph company, 1 per mobile meteorological observation section, 3 per army radio section.
1½-2 ton (type 3), with special body for set radio telephone and telegraph, SCR 97.....	(a)	.....	^a 1 per division radio company, 2 per corps radio company, 1 per army radio company.
1½-2 ton (type 3), with special body for set radio telegraph, SCR 124.....	(a)	.....	^a 1 per division radio company, 1 per corps radio company.
Trailers—			
Pigeon loft, 1½ ton, 4-wheel (X3P).....	(a)	.....	^a At army headquarters for distribution at the rate of 2 per division.
4-wheel, 1½ ton, with special storage battery body.....	(a)	.....	^a 1 per division radio company, 2 per army radio section. See note 44.
4-wheel, 1½ ton, with special body for radio equipment.....	(a)	.....	^a 1 per corps and army radio company, 10 per army radio section.
Ration (X1R).....	(a)	.....	^a 1 per battalion.
Kitchen (X3K).....	(a)	.....	Do.
½-ton tank (X1W).....	(a)	.....	Do.
Trimmers, tree.....	(a)	.....	^a 4 per telegraph company and 4 per corps and army outpost company.
Tubes:			
Vacuum—			
Type VT 1.....	(a)	.....	^a 100 per radio company and army radio section.
Type VT 2.....	(a)	.....	^a 25 per radio company and 50 per army radio section.
Type VT 3 or VT 4.....	(a)	.....	^a 25 per divisional radio company.
Plotron.....	(a)	.....	^a 6 (all spare) per radio telegraph set, type SCR 97.
Typewriters, telegraph, caps only.....	(a)	.....	^a 1 per each simplex telegraph set, radio set, type SCR 97, radio set, type SCR 124, and 6 per army radio section.
Volt-ammeter:			
Battery, 0-35 amperes, 0-11 volts.....	(a)	.....	^a 4 per radio company, 1 per wire company.
Weston, type 280.....	(a)	.....	^a 2 per each wire company, 1 per battalion headquarters, 6 per army radio section.

EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Wavemeter: Type SCR 61.....	(a)		a 1 per radio company, 1 per army radio section.
Type SCR 95.....	(a)		a 1 per radio set, type SCR 130.
Type SCR 125.....	(a)		a 1 per radio set, type SCR 105.
Type SCR 138.....	(a)		a 2 per army radio section.
Watches, wrist, 7-jewel, luminous dial, with wristlet.....	(a)		a 1 per noncommissioned officer down to and including the grade of corporal; 1 per each radio set, telephone switchboard, simplex telegraph set, service buzzer, and buzzerphone; 2 per meteorological forecast section.
Wrenches, tie: For No. 8 BWG wire.....	(a)		a 24 per telegraph company.
For No. 12 BWG wire.....	(a)		Do.

SUPPLIES.

Batteries: BA-12.....		(b)	b 20 per battalion.
BA-14.....		(b)	Do.
Bolt: Carriage, $\frac{1}{2}$ by $2\frac{1}{2}$ inches.....	(a)		a 800 per telegraph company (for Repp line).
Fetter drive— $\frac{1}{2}$ by $4\frac{1}{2}$ inches.....	(a)		a 500 per telegraph company (for Repp line).
$\frac{1}{2}$ by $2\frac{1}{2}$ inches.....	(a)		a 400 per telegraph company (for Repp line).
Braces, crossarm, 17 inches (Repp type).....	(a)		a 800 per telegraph company (for Repp line).
Brackets, oak.....	(a)		a 500 per corps and army outpost company, 1,000 per telegraph company.
Cable, 20-pair, switchboard, feet.....	(a)		a 100 per divisional wire company, 300 per corps and army wire company.
Candle, lantern.....	(a)		a 6 per folding lantern.
Cord: Lamp, twisted pair, feet.....	(a)		a 500 per divisional field signal battalion, 1,000 per corps and army field signal battalion.
Sash, No. 6, feet.....	(a)		a 2,000 per telegraph company.
Electrolite, in 12-gallon carboys.....	(a)		a 2 per divisional and corps field signal battalion and 3 per army radio company and army radio section.
Insulators: Hard rubber, type IN-5.....	(a)		a 500 per army radio section.
Porcelain knobs, No. 5 $\frac{1}{2}$, solid.....	(a)		a 250 per telegraph company, 300 per army radio section, 250 per corps and army outpost company.
Pony, porcelain.....	(a)		a 500 per corps and army outpost company, 1,000 per telegraph company.
With lag screw (Repp type).....	(a)		a 2,000 per telegraph company.
Lumber, 2 by 4 inch by 16-foot pieces.....		(b)	b 200 pieces per telegraph company.
Marlin, pounds.....	(a)		a 30 per telegraph company.
Nails: 16d, pounds.....	(a)		a 100 per telegraph company, 100 per army radio section.
20d, pounds.....	(a)		a 200 per telegraph company.
40d, pounds.....	(a)		Do.
60d, pounds.....	(a)		Do.
Renewals for type BA-14 battery.....		(b)	b 1 per type BA-14 cells.
Rope: $\frac{1}{4}$ -inch, feet.....	(a)		a 1,000 per telegraph company.
$\frac{1}{2}$ -inch, feet.....	(a)		Do.
$\frac{3}{4}$ -inch, feet.....	(a)		a 2,000 per telegraph company.
Screws, iron, round-head, $2\frac{1}{2}$ -inch, No. 10, gross.....	(a)		a 5 per telegraph company, 1 per army radio section, 5 per corps and army outpost company.

SUPPLIES—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Stationery:			
Radio, set.....	(a)		o 1 per SCR 97, SCR 124. See note 45.
Telegraph, set.....	(a)		o 1 per simplex telegraph set. See note 46.
Tacks, milonite.....	(a)		o 500 per divisional and 1,000 per corps and army field signal battalion.
Tape:			
Friction, pounds.....	(a)		o 1 per each buzzer, switchboard, and radio set, 4 per wire cart, and 10 pounds per telegraph company.
Rubber, pounds.....	(a)		o 4 per each buzzer, switchboard, and radio set, 2 per wire cart, and 5 pounds per telegraph company.
Washers, round:			
$\frac{1}{4}$ -inch hole.....	(a)		o 800 per telegraph company (for Repp line).
$\frac{1}{2}$ -inch hole.....	(a)		o 400 per telegraph company (for Repp line).
Wire:			
Antenna, type W-1, feet.....	(a)		o 20,000 per army radio section.
No. 12, N. E. S. bare copper, feet.....	(a)		o 2,000 per army radio section.
No. 8, weatherproof, miles.....	(a)		o 5 per army radio section.
G. I. No. 9, miles.....	(a)		o 1 per telegraph company.
House, twisted pair, feet.....	(a)		o 1,000 per divisional field signal battalion, 2,000 per corps and army wire company, 1,000 per army radio company.
Outside distributing, twisted pair, No. 17, miles.....	(a)		o 5 per field signal battalion, 70 per telegraph company.
Type W-4, feet.....	(a)		o 5,000 per army radio section (until stock exhausted).
Silicon bronze, No. 17, miles.....	(a)		o 135 per telegraph company.
Outpost, twisted pair, miles.....	(a)		o 25 per divisional field signal battalion and 50 per corps and army field signal battalion.
Field, 11 strand, miles.....	(a)		o 5 per wire cart and 60 per field signal battalion.
Buzzer, on $\frac{1}{2}$ -mile spools.....	(a)		o 1 spool per buzzer.

EQUIPMENT B.—SIGNAL SUPPLIES FOR TRAINING PURPOSES.

Adapter, FT 65.....	per field signal battalion..	30
Anchors, guy, $\frac{5}{8}$ inch by 6 feet.....	per battalion..	6
Arresters, lightning, W. E. 12-A or equal.....	do.....	15
Bakelite, sheet, $\frac{1}{4}$ inch or $\frac{1}{2}$ inch.....	do.....	2
Binding posts, assorted sizes.....	do.....	50
Bluestone, pounds.....	do.....	50
Bolts, cross-arm:		
$\frac{3}{8}$ by 10 inches.....	do.....	5
$\frac{3}{8}$ by 14 inches.....	do.....	10
Braces, cross-arm:		
GI, 24-inch.....	do.....	25
GI, 28-inch.....	do.....	25
Brackets:		
Oak.....	per field signal battalion..	200
Tranposition—		
Drop.....	per battalion..	8
3-piece (phantom).....	do.....	4
Cable, 25-pair, 22-gauge type, lead covered, feet.....	do.....	300
Condensers, type CA 8, CA 9, each.....	per field signal battalion..	2
Cleats, hard fiber, double-groove; length, $\frac{3}{4}$ inch; width, $\frac{1}{2}$ inch.....	per battalion..	200
Coils, retardation, W. E. No. 12.....	do.....	3

EQUIPMENT B.—SIGNAL SUPPLIES FOR TRAINING PURPOSES—Continued.

Coppers, crowfoot.....	per battalion..	2
Cross arms, wooden:		0
4-pin.....	do.....	20
6-pin.....	do.....	20
8-pin.....	do.....	20
10-pin.....	do.....	20
Hangers:		
Cable, Boston clip, 6-inch, strip.....	do.....	20
Messenger, wood pole.....	do.....	20
Insulators:		
Type IN 25 (pony, porcelain, single-groove).....	do.....	500
Type IN 26 (pony, porcelain, double-groove).....	do.....	100
Paraffin, pounds.....	do.....	25
Pins, insulator, oak.....	do.....	400
Relays, W. E. type No. 44.....	do.....	3
Resistance, type RS 1, RS 2, RS 3, each.....	per field signal battalion..	3
Rheostats, porcelain base, 10-ohm.....	do.....	3
Rings, bridle, enameled, 1½-inch.....	per battalion..	50
Screws:		
FHB, ¾-inch, No. 6, gross.....	do.....	2
FHB, 1¼-inch, No. 8, gross.....	do.....	2
FHB, 1½-inch, No. 10, gross.....	do.....	2
RHB, 1 inch, No. 6, gross.....	do.....	2
RHB, 1½-inch, No. 8, gross.....	do.....	2
RHB, 2-inch, No. 8, gross.....	do.....	2
RHB, 2½-inch, No. 8, gross.....	do.....	2
Sleeving lead, 1½ inches diameter, feet.....	do.....	75
Sleeves, splicing, paper, ¼ by 3 inches.....	do.....	4,000
Sockets:		
Type S. O. 2 (for tube VT 1).....	per field signal battalion..	20
Type S. O. 3 (for tube VT 2).....	do.....	10
Solder:		
Half-and-half, pounds.....	per battalion..	20
Wiping, pounds.....	do.....	20
Switches:		
S. P., S. T., 15-ampere.....	do.....	4
S. P., D. T., 15-ampere.....	do.....	4
D. P., S. T., 15-ampere.....	do.....	4
D. P., D. T., 15-ampere.....	do.....	4
D. P., S. T., 25-ampere.....	do.....	2
Tubes:		
Porcelain, ½ by 4 inches.....	do.....	25
Porcelain, ¾ by 8 inches.....	do.....	10
Wire:		
Bridle, twisted pair, 40 mils, feet.....	do.....	2,000
Counterpoise, type W-30, feet.....	per field signal battalion..	1,000
Copper—		
Hard-drawn, No. 12 N. B. S., miles.....	per battalion..	1
Rubber covered and braided, No. 18 B. & S., feet.....	do.....	300
GI No. 9, miles.....	do.....	2
GI No. 14, miles.....	do.....	15
Nickel silver, No. 18, pounds.....	do.....	2
Magnet—		
No. 32 (8 mils), D. C. C., pounds.....	do.....	2
No. 20 (31.9 mils), D. C. C., pounds.....	do.....	4
No. 24 (20.1 mils), D. C. C., pounds.....	do.....	2
No. 28 (12.6 mils), D. C. C., pounds.....	do.....	2
Nichrome—		
No. 22, D. S. C., pounds.....	do.....	2
No. 28, D. S. C., pounds.....	do.....	2
No. 32, D. S. C., pounds.....	do.....	2
Pothead, 36 mils, feet.....	do.....	400
Type W-29 (antenna cord), feet.....	per field signal battalion..	1,000
Zincs, crowfoot.....	per battalion..	20

NOTES.

Note No.	Articles.	Note No.	Articles.
1	Bag, tool service.	25	Set, radiotelegraph, type SCR-62.
2	Blocks, tackle, sets.	26	Set, U. W. radiotelegraph, type SCR-77.
3	Carts, wire, complete with harness.	27	Set, U. W. radiotelegraph, type SCR-79-A.
4	Chest, cable splicers.	28	Set, U. W. radiotelegraph and telephone, type SCR-97.
5	Chest mechanics tools, Nos. 1 and 2.	29	Set, U. W. radiotelegraph, type SCR-99.
6	Chest, telephone repair.	30	Set, radiotelegraph, type SCR-105.
7	Cooking outfit, pack type.	31	Set, U. W. radiotelegraph, type SCR-130.
8	Drafting equipment.	32	Set, direction-finding radio, type SCR-122.
9	Groundman's equipment, type TE-23.	33	Set, U. W. radiotelegraph and telephone, type SCR-132.
10	Kit, inspector's pocket.	34	Set, radio-operating, type SCR-124.
11	Kit, soldering, complete.	35	Simplex telegraph set.
12	Lineman's equipment, type TE-21.	36	Set, test, cableman's, tone.
13	Meteorological equipment.	37	Set, test, universal, type EE-65.
14	Panels, sets.	38	Switchboard telegraph, 4-line.
15	Photograph equipment.	39	Switchboard, 8-line, spring jack.
16	Pigeon equipment.	40	Switchboard, telephone, camp, type BD-14.
17	Reel carts, pack, type RL-16.	41	Tools, line construction set.
18	Rock drills, sets.	42	Truck, 5-ton, telegraph.
19	Rock drill, portable, compressed air.	43	Truck, 5-ton, telephone.
20	Set, amplifier, type BC-8.	44	Trailer, storage battery.
21	Set, low-frequency, amplifier, type SCR-121.	45	Stationery, radio.
22	Set, battery-charging, type SCR-82.	46	Stationery, telegraph.
23	Set, monorecord operator, type EE-64.		
24	Set, radio receiving, type SCR-54-A.		

NOTE 1.

BAG, TOOL SERVICE COMPLETE.

The bag is made of canvas; approximate dimensions, 17 inches long, 7 inches wide at the base, and 8 inches high; the bag was formerly made of leather, 15½ inches long, 3½ inches wide and 12 inches high.

EQUIPMENT.

Number.	Articles.	Number.	Articles.
1	Try-square, steel, 4-inch blade	1	Screw drivers:
	Chisels:		6-inch blade
	Cold, ½-inch	1	10-inch blade
	Wood, ½-inch socket blade, iron, ring-topped handle, Jennings, No. 15	1	Solder, resin core, pound
1	Hammer, claw, bell faced, 16-ounce		Wrenches:
1	Holder, tool, and 10 high grade steel tools	1	Screw, forged, 6-inch, monkey
1	Knife, electricians, 2 blades	1	Socket, for telephone apparatus, 4-inch
1	Level, pocket spirit, 3-inch	1	Brace, ratchet, 8-inch throw
1	Plane, block, 6-inch, ¾-inch cutter		Bits, auger, solid center double cutter extension lips:
	Pliers:		½-inch
1	Pair, 6-inch, side-cutting	1	¾-inch
1	Pair, 8-inch, side-cutting	1	1-inch
1	Rule, 4-foot, folding, boxwood, 8 parts	1	1-inch
1	Saw, back, 10-inch	1	Polarity indicator

NOTE 2.

BLOCKS, SET.

A set of blocks for line construction purposes. Comprises the following:

Number.	Articles.	Number.	Articles.
12	Single-sheave, 4-inch	1	Five-sheave, 6-inch
8	Two-sheave, 6-inch		Swivels:
4	Three-sheave, 6-inch		5-inch
1	Four-sheave, 6-inch		Snap

NOTE 3.

CART, WIRE, TYPE N.

A 2-wheel reel cart for the rapid laying and recovering of telephone and telegraph lines in the field. It is completely equipped with two reels, mechanically rotated and controlled, one chest with wire-laying equipment, a driver's seat, and appropriate parts and fittings especially designed for and used only on this cart; designed to carry 5 miles of standard field wire. Specification 596-C, drawing 100-3; comprises the following detachable parts and tools:

Number.		Number.	
Cart, proper.....	1	Chain for tongue support.....	1
Axle, extra.....	1	Crank, reel.....	1
Bands, brake.....	2	Doubletree.....	1
Bearings, extra, for reel.....	2	Insulators, strain, electrose, for traces.....	4
Bucket, canvas, water.....	1	Pads, hand, leather.....	2
Can, oil, steel, pint size.....	1	Paulin.....	1
One canvas roll provided with the following tools:		Singletrees.....	2
Chisel, cold, 3/4-inch.....	1	Tongue.....	1
Screw driver, 5-inch.....	1	Wheel, extra (issued to Organized Militia only).....	1
Screw driver, 10-inch.....	1	Wrenches:	
Hammer, claw, 16-ounce.....	1	Wheel.....	1
Pliers, side-cutting, 8-inch.....	1	Sockets, for axle bracket nuts.....	1
Wrenches—		Yoke, neck.....	1
Monkey, 8-inch.....	1		
S, 7/8-inch and 3/4-inch flats.....	1		
S, 3/4-inch and 1/2-inch flats.....	1		
Alligator, 9-inch.....	1		

Harness, breast collar, for 2-horse Signal Corps wire cart; comprises—

Number.		Number.	
Backbands.....	2	Reins:	
Bellybands.....	2	Long bearing.....	2
Bits, snaffle, M1911.....	2	Long driving—	
Breeching, complete.....	2	Buckle parts.....	1
Collars, breast, wheel, complete.....	2	Plain parts.....	1
Headstalls:		Short bearing.....	2
Artillery bridle, M1913.....	2	Ropes, halter tie, M1912.....	2
Halter, M1904.....	2	Spreaders.....	2
Martingales, with cincha strap, assembled.....	2	Traces, wheel, M1908, 56.88-inch.....	4
Rein checks.....	2		

NOTE 4.

CHEST, TOOL, CABLE SPLICER'S, COMPLETE, WITH CONTENTS.

Number.		Number.	
Plumber's furnace (galvanized tank), two chimney.....	1	Hammers:	
Ladle, 3-inch, W. I., with W. I. handle.....	1	Claw, with handle.....	1
Kit, inspector's pocket.....	1	Plumber's, 18-ounce, with handle.....	1
Hook shave, oval.....	1	Bag, tool, canvas, leather bottom, 20-inch.....	1
Plumber's kettle, 5-inch.....	1	Paper sleeves, 1/4 by 3 inches.....	250
Soldering coppers, 2 1/2 and 4 pound, with handles, each.....	1	Cotton strips, 1/2 inch, rolls 5 inches diameter.....	2
Knife, cable, sheath, 4 1/2-inch blade.....	1	Cloths, wiping, moleskin, 3, 5, and 6 inches square, each.....	2
Saw, plumber's, 14-inch.....	1	Files:	
Hacksaw frame, adjustable, No. 10.....	1	Hand, smooth, with handle, 6-inch.....	1
Hacksaw blades, 10-inch, dozen.....	2	Half-round bastard, with handle, 6-inch.....	1
Cable dresser, dogwood.....	1	Rasp, cabinet, with handle, 12-inch.....	1
Stearine, 1/2-pound can.....	1	Rule, folding, boxwood, 2-foot.....	1
Paper, gummed, 1 1/2 inches wide, pounds.....	1	Pliers, pair, 8-inch.....	1
		Snips, No. 10.....	1
		Driftpins, 1 1/2, 1 1/4, and 2 inches, each.....	1
		Torch, gasoline.....	1

NOTE 5.

MECHANIC'S TOOL CHEST No. 1.

This chest is made of oak, strongly reinforced, 30 inches long, 16 inches wide, and 13 inches high.

EQUIPMENT.

<i>Lid.</i>		<i>Drawer No. 1.</i>	
	Number.		Number.
Frame, hacksaw, adjustable.....	1	Screw plate set, U. S. standard thread, consisting of 1 stock, 1 tap wrench, 1 screw driver, 7 taps and dies, sizes $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", $1\frac{1}{8}$ ", in hardwood case.....	1
<i>Top of chest.</i>		Square, combination, 6-inch blade, without center head.....	1
Pliers:		Oilstone, mounted, 8-inch, soft, Arkansas.....	1
Side-cutting, 6-inch.....	1	Screw driver, machinist's, swivel head, 5-inch, $\frac{1}{4}$ -inch blade, $\frac{1}{4}$ -inch handle.....	1
Diagonal, 6-inch.....	1	Chisel, cold, diamond point $\frac{1}{4}$ -inch, 6 inches long.....	1
Long chain nose, 5 $\frac{1}{2}$ -inch.....	1	Center punches, straight shank.....	2
Shears, metal, 11-inch, 2 $\frac{1}{2}$ in. cut.....	1	Files:	
Hammer, riveting, 4-ounce, cast-steel.....	1	4-inch, round.....	4
Can, oil, curved spout, with screw cap.....	1	4-inch, square.....	4
Drill, hand, 14 $\frac{1}{2}$ in., two speed, three jaw chuck for 0- $\frac{3}{4}$ in. round shank drills.....	1	6-inch, round.....	6
Vise, adjustable jaw, swivel base, 2-inch jaws, open 2 $\frac{1}{2}$ inches.....	1	Handle, file, malleable iron.....	1
Screw driver ratchet, with two blades, 1 countersunk and 8 drill points.....	1	Iron, soldering:	
Drill, twist, set of 60, straight shank, Nos. 1-60.....	1	$\frac{1}{2}$ -pound.....	1
<i>End of chest.</i>		1 $\frac{1}{2}$ -pound.....	1
Torch, gasoline, 1 quart.....	1	<i>Drawer No. 2.</i>	
Grinder, hand, with 1 by 5 inch grinding wheel.....	1	Files, 8-inch, flat bastard.....	6
		File cleaner, No. 2.....	1
		Hacksaw blades, 12-inch, medium, dozen....	2

MECHANIC'S TOOL CHEST No. 2.

The chest is made of oak, strongly reinforced, 34 inches long, 16 inches wide, and 12 inches high.

EQUIPMENT.

<i>Cover.</i>		<i>Lower drawer.</i>	
	Number.		Number.
Saw:		Screw plate set, U. S. Standard thread, consisting of 2 stocks, 2 tap wrenches, 7 dies and taps, sizes $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{7}{8}$ ", in hardwood case.....	1
Hand, 10-point, 26-inch.....	1	Planes:	
Rip, 6-point, 28-inch.....	1	Jack, 2-inch bit.....	1
Square, steel, 24-inch (short end cut to 14 inches).....	1	Block, 1 $\frac{1}{2}$ -inch bit.....	1
Rule, 4 ft., 8 fold.....	1	Oilstone, soft Arkansas, 5-inch, mounted.....	1
<i>Top of chest.</i>		Saw set, adjustable.....	1
Wrenches:		Hatchet, half, with handle, thin blade.....	1
Screw, monkey, 15-inch.....	1	<i>Upper drawer.</i>	
Screw, monkey, 6-inch.....	1	File holder, malleable iron.....	1
Pipe, Stillson pattern, 14-inch, wood handle	1	File cleaner.....	1
Screw drivers:		Drills, twist, bit, stock, set of 9, 3 each of $\frac{1}{4}$ -inch, $\frac{3}{8}$ -inch, and $\frac{1}{2}$ -inch diameter.....	1
7-inch blade.....	1	Files, set of 14; three 8-inch, half-round smooth; three 8-inch, half-round bastard; two 8-inch, flat bastard, six 6-inch, saw files.....	1
5-inch blade.....	1	Bits, set of 14; 13 $\frac{1}{4}$ inch to 1 inch by $\frac{1}{8}$ -inch, solid center double cutter extension lip and 1 bit, expansive, $\frac{3}{4}$ inch to 3 inches, No. 1....	1
Nail puller.....	1	(The last three items are incased in canvas rolls).	
Knife, draw, 8-inch, folding type.....	1		
Hammers:			
Claw, flat faced.....	1		
Riveting, 8-ounce.....	1		
Tape, steel, 100-foot.....	1		
Brace, ratchet, 10-inch, throw.....	1		
Chisels, set of 5, 1 $\frac{1}{2}$, 1 $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{1}{4}$ inches.....	1		
Calipers, outside, 4-inch.....	1		
Dividers, wing, 6-inch.....	1		

NOTE 6.

CHEST, TELEPHONE, REPAIR PARTS.

EQUIPMENT TYPE EK-24.

A chest containing spare parts to be used in repairing telephone and telegraph apparatus assigned to Signal Corps companies.

Comprises one chest, type BC-97, equipped as per specification 587 with the following:

In container No. 7, parts of switchboard, type BD-14-5, as follows (for use when W. E. type material is supplied):

	Number.		Number.
Receivers, No. 539.....	2	Fahnestock clips for line fuses.....	10
Receiver cords, No. 539.....	4	Carbon protector blocks:	
Transmitter cords, D-12240.....	8	Top.....	100
Transmitters, D-12293.....	2	Bottom.....	100
Transmitter mouthpieces for above transmitter.....	6	Separators, mica.....	400
Caps for head receiver, No. 539.....	4	Line fuses, 8-ampere, 600-volt.....	100
Line signal coils.....	10	Fiber plug shells, No. 47-A plug.....	10
Shutters, line signal, D-12982.....	2	Plug shellscrews, No. 47-A plug.....	24
Cords, connecting, white, D-12982.....	20	Plug terminal screws, No. 47-A plug.....	24
Connecting cord plugs, 47-A.....	2	Transmitter rim screws, D-12293 transmitter.....	24
Cord weights, No. 116.....	2	Line jacks.....	2
Hand generator cranks, No. 12238, DET-1.....	2	Ring and listening key.....	1
Hand generator, D-12238.....	1		

In container No. 10, parts of switchboard, type BD-14-6, as follows (for use when Stromberg Carlson Co. material is supplied):

	Number.		Number.
Coils for No. 4-B drop.....	10	Plug shell screws.....	2
Drops, complete.....	2	Plug terminal screws.....	24
Plugs, No. 42-R.....	2	Sets of complete parts for line jack.....	2
Plug shells, for No. 42-R plugs.....	10	Ring and listening key complete.....	1

In container No. 9, parts of lightning arresters, as follows (when W. E. type is supplied):

	Number.		Number.
Lightning arresters.....	2	Protector blocks, No. 2.....	200
Protection caps for lightning arresters.....	5	Fuses, No. 11-C.....	100
Protector blocks, No. 1.....	100	Fuses, Signal Corps No. 7, for Mascn arresters.....	100
Protector micas.....	500		

In container No. 4, parts of service buzzer, Model 1914, as follows:

	Number.		Number.
Cords:		Studs, type FT-49.....	4
Type CC-305.....	2	Receiver, type R-3-6.....	1
Type CC-304 (4 for transmitter, 4 for receiver).....	8	Head receiver bands for receiver, type R-3-6.....	4
Plug, type PL-1.....	1	Receiver diaphragms for receiver, type R-3-6.....	6
Plug sleeves for plug, type PL-1.....	2	Transmitter, type T-4-6.....	1
Plug sleeve screws for plug, type PL-1.....	20	Wrenches, type TL-92.....	2
Condensers (0.25 mfd.).....	3	Screw drivers, type TL-27.....	2
Condenser switch.....	1	Screw drivers, type TL-18.....	2
Condenser block.....	1	Sets of screws as per drawing 1394-1.....	4
Transfer switch.....	1	Tension springs, drawing 1283-3, detail 72.....	2
Vibrators.....	2	Contact screws, drawing 1288-3, details 67 and 78.....	2
Keys.....	2	Lower contact studs, drawing 1288-3, details 67 and 75.....	2
Induction coil.....	1		
Connectors, type TM-32.....	4		

In container No. 3, parts of switchboard unit, type EE-2, as follows:

	Number.		Number.
Line signal coils, drawing 1305-B.....	3	Connecting cord plugs, drawing 1305-B.....	2
Line signal armatures, drawing 1305-B.....	3	Connecting cords, W. E. drawing D-14282.....	10
Line signal shutters, drawing 1305-B.....	2	Connecting cord plug shells.....	5
Auxiliary signal contact springs, drawing 1305-B.....	5	Lightning tooth disks, drawing 1305-B.....	4
Tip jack springs, drawing 1305-B.....	2	Nuts No. 6-40, drawing 1305-B.....	20
Ring jack springs, drawing 1305-B.....	2	Jack spring bushings.....	20
Jack spring insulators, drawing 1305-B.....	10	Plug shell screws, W. E. drawing P-82233.....	24
Signal retainers, drawing 1305-B.....	2	Terminal screws, W. E. drawing P-82239.....	24
Line fuse clip springs, drawing 1305-B.....	2	Spools No. 3, linen thread.....	2
M-36.....	100	Sets of screws, drawing 1305-B.....	4

In container No. 1, parts for telephone, types EE-32 and EE-32-A.

	Number.		Number.
Hand sets, type TL-4, with cords, type CC-309.....	5	Binding posts, drawing 1299-2.....	5
Receiver diaphragms, drawing 1296-2.....	10	Terminal screws, drawing 1299-2.....	25
Receiver caps, drawing 1390-2.....	6	Terminals, drawing 1259-2.....	6
Transmitter cap screws, drawing 1296-2.....	50	Hook switch levers, drawing 1258-2.....	4
Cords, type CC-309.....	10	Hand generator cranks, drawing 1258-2.....	2
Generator switch, drawing 1299-2.....	1	Hand generator, W. E. No. 50-A.....	1
Condensers, type CA-61.....	2	Ringers, W. E. drawing D-29949.....	2
Hook switches, drawing 1299-2.....	2	Colls, for ringer, W. E. drawing D-29949.....	4
Hook switch bushings, drawing 1299-2.....	24	Brass machine nuts and screws, No. 6-32.....	25
Hook switch insulators, drawing 1299-2.....	24	Induction coll, W. E. drawing D-25948.....	1
Hook switch clamping plates, drawing 1299-2.....	2		

NOTE.—It will be noted that the items in several of the containers of the chest of this equipment are not listed. This is due to the fact that the apparatus for which these items were parts is *obsolete*; and to eliminate the necessity of designing a new chest, the same one is furnished with several containers empty.

NOTE 7.

COOKING OUTFIT, MOUNTAIN ARTILLERY.

	Number.		Number.
Grates or fire jacks.....	2	Kettle, stewing, and cover.....	1
Locking bars.....	4	Knives:	
Pans, bake:		Butcher.....	2
Top.....	2	Paring.....	4
Bottom.....	2	Saw, meat.....	1
Boilers and covers:		Skimmer, large.....	1
MA-3.....	2	Skillet.....	1
MA-4.....	2	Handle, extension, for skillet.....	1
MA-5.....	1	Spoons, large.....	2
Buckets.....	2	Steel, butcher.....	1
Can, grease.....	1	Sheath, leather:	
Dippers, 2-quart.....	4	For cleaver.....	1
Cleaver.....	1	For butcher knives.....	1
Fork, flesh.....	1	For paring knives.....	1

NOTE 8.

DRAFTING EQUIPMENT, ENGINEERS.

	Number.		Number.
Board, drawing, 23 by 31 inches, with trestle.....	1	Cloth, tracing, 30-inch, 24-yard roll.....	1
Chest, drafting, company, engineer.....	1	Erasers, rubber:	
Eraser, steel.....	1	Pencil.....	2
Instruments, drawing, office set.....	1	Ink.....	1
Measurer, map.....	1	Fillers, book, sets of 50 sheets.....	6
Protractor, G. S., semicircular, 6-inch.....	1	Ink:	
Scales:		Drawing—	
Architect's, 12-inch, with sheath.....	1	Black, bottles.....	2
Engineer's, 12-inch, with sheath.....	1	Blue, bottle.....	1
Map, metric, 30-centimeter.....	1	Carmine, bottle.....	1
Shield, erasing.....	1	India, stick.....	1
Slab, ink.....	1	Pads:	
T-square, 24-inch.....	1	Pencil pointing, 1½ by 4 inches.....	1
Triangles:		Scratch, 6 by 9 inches.....	2
30°-60°, 10-inch.....	1	Paper:	
45°, 8-inch.....	1	Blotting, 3½ by 9½ inches, dozen.....	1
Tubes, tin, 39 by 4 inches diameter.....	3	Drawing, 22 by 30 inches, gross.....	1
Irregular curve.....	1	Profile, tracing, 20-inch, 50-yard roll.....	1
Books, record, with fillers (loose leaf ring binder).....	3		

NOTE 9.

GROUNDMAN'S EQUIPMENT, TYPE TE-23.

	Number.		Number.
Belt, tool, plain.....	1	Gloves, leather.....	1
Pliers, side-cutting, 8-inch.....	1		

NOTE 10.

Kit, Inspector's Pocket, Complete.

	Number.		Number.
Case, carrying, inspector's pocket kit.....	1	File, half-round bastard, with handle, 3-inch.....	1
Screw driver and skinning knife combined, with safety spring.....	1	Tweezers, 4½-inch, pair.....	1
Scissors, electrician's, 5-inch.....	1	Screw driver, 2-inch.....	1
Pliers, side-cutting, 6-inch.....	1	Rule, 2-foot, four-fold, narrow boxwood.....	1

NOTE 11.

Kit, Soldering, Complete.

	Number.		Number.
Torch, gasoline, with hook support on burner, pint size.....	1	Sheets of sandpaper, No. 1.....	4
Soldering copper, 4-pound, with handle.....	1	Spools of resin core solder, 5 pounds each.....	2
		Oak containing case, 10½ by 8½ by 11 inches.....	1

NOTE 12.

Lineman's Equipment, Type TE-21.

	Number.		Number.
Ax, hand, lineman's, 4-pound.....	1	Pliers, side-cutting, 8-inch.....	1
Belt, lineman's, and safety straps.....	1	Screw driver, 10-inch blade.....	1
Clamp, splicing, combination, 10½-inch.....	1	Wrench, lag, combination 13½-inch.....	1
Pair or set of climbers (eastern), lineman's, with straps and pads (not over 16½ inches).....	1		

NOTE 13.

Meteorological Equipment.

Surface Instruments.	General headquarters and forecast section.	Field forecast section.	Mobile observation section.	Field observation section.
Anemometers:				
Indicating, with buzzer and cups, type ML-13.....	0	0	0	1
Standard, with cups, type ML-26.....	2	2	0	1
Barometers:				
Aneroid, type ML-10.....	1	1	1	0
Mercurial, type ML-1.....	2	2	1	1
Barographs, recording aneroid barometer, type ML-3.....	1	1	0	1
Boxes, barometer.....	2	2	1	1
Cable, 10-conductor, 16-gage wire, weatherproof, feet.....	200	200	0	0
Gages:				
Rain and snow, type ML-17.....	1	1	0	1
Rain, tipping bucket, type ML-30.....	1	1	0	0
Hand anemometers.....	1	1	1	1
Hydrographs, type ML-16.....	1	1	0	0
Instrument shelters, cotton region, type ML-41.....	1	1	0	1
Psychrometers, sling, type ML-24.....	4	4	3	3
Registers:				
Quadruple, type ML-27.....	1	1	0	0
Single, type ML-28.....	0	0	0	1
Sunshine recorders, type ML-20.....	2	2	0	0
Supports:				
Anemometer and wind vane—				
7-foot, type ML-29.....	0	0	0	1
20-foot, type ML-31.....	1	1	0	0
Instrument shelter, wood, type ML-42.....	1	1	0	1
Thermometer, Townsend.....	1	1	0	1
Thermographs, type ML-18.....	1	1	0	1
Thermometers:				
Maximum, type ML-4.....	4	4	0	2
Minimum, type ML-5.....	4	4	0	0
Exposed, type ML-6.....	4	4	0	4
Wind vanes, trench.....	2	2	1	1
Wire, twisted pair, feet.....	200	200	0	150

¹ At selected stations of this class only.

METEOROLOGICAL EQUIPMENT—Continued.

Surface instruments.	General head-quarters and forecast section.	Field forecast section.	Mobile observation section.	Field observation section.
AIR SOUNDING EQUIPMENT.				
Cases:				
For plotting boards.....	1	1	1	1
For instrumental equipment.....	1	1	1	1
Fahnestock connectors.....	12	12	12	12
Instruments, time interval.....	2	2	2	2
Lantern patterns.....	1	1	1	1
Plotting boards, special.....	2	2	2	2
Rules, slide.....	1	1	1	1
Scales, metric, 50-centimeter div. mm. and $\frac{1}{2}$ mm.....	1	1	1	1
Stopecks, special, with weights, for filling balloon.....	1	1	1	1
Telephones, head and breast set.....	2	2	2	2
Theodolites, special, with tripod, complete, for night work, type ML-47.....	2	2	1	1
Tubing, rubber:				
Heavy, 150-centimeters long.....	1	1	1	1
Soft, 75-centimeters long.....	1	1	1	1
Wire, twisted pair, feet.....	1,000	1,000	2,000	500
EXPENDABLE SUPPLIES (FOR THREE MONTHS).				
Balloons, pilot, rubber, assorted sizes and colors.....	900	900	900	600
Batteries, electric, wet or dry.....	18	18	18	18
Books, note.....	1	1	1	1
Candles, pounds.....	40	10	40	10
Clips, paper, boxes.....	18	18	6	6
Erasers, rubber, hard and soft.....	12	12	6	3
Forms, printed, meteorological assorted.....	(¹)		(¹)	
Glue, bottles.....	9	9	6	3
Ink:				
Fountain-pen, pints.....	1	1	1	1
Drawing, all colors, bottles.....	6	6	3	3
Special re-ister, bottles.....	6	6	3	3
Journals, daily.....	5	5	0	0
Oil, clock, bottles.....	2	2	1	1
Maps, weather.....	900	900	0	0
Paper:				
Cross section, 50-yard rolls.....	1	1	0	0
Detail, drawing, rolls.....	1	1	0	0
For lantern, square meters.....	75	75	75	60
Transparent, 1-meter wide, meters.....	150	150	6	6
Correspondence, reams.....	3	2	$\frac{1}{2}$	$\frac{1}{2}$
Paste, bottles.....	18	18	9	6
Pencils:				
Drawing, hard, soft, and medium.....	108	108	39	36
Red and blue.....	18	18	0	0
Pens:				
Crow quill.....	18	18	0	0
Steel—				
Fine.....	72	72	18	18
Medium.....	36	36	18	18
Penholders.....	12	12	6	6
Pins, pounds.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
Rubber bands, assorted sizes, boxes.....	6	6	3	3
String, balls, meters.....	3,000	3,000	3,000	2,250
Tacks, thumb, gross.....	3	3	$\frac{1}{2}$	$\frac{1}{2}$
Wire, outpost, twisted pair.....	(²)	(²)	(²)	(²)

¹ As needed.² As directed by commanding officer.

NOTE 14.

PANELS.

Infantry division set, type AP-1.

A series of light, readily portable, black and white cotton panels for aerial signal communication at infantry division, comprises:

- 1 panel, type AL-41, division identification, black circle, 9 feet 10 inches in diameter.
- 1 panel, type AL-42, division identification, white circle, 9 feet 10 inches in diameter.
- 4 panels, type AL-43, signaling, black rectangle, 1 foot 3 inches by 9 feet 10 inches.
- 4 panels, type AL-44, signaling, white rectangle, 1 foot 3 inches by 9 feet 10 inches.

Cavalry division set, type AP-10.

A series of light, readily portable, black and white cotton panels for aerial signal communication at cavalry division, comprises:

- 1 panel, type AL-41, division identification, black circle, 9 feet 10 inches in diameter.
- 1 panel, type AL-42, division identification, white circle, 9 feet 10 inches in diameter.
- 5 panels, type AL-43, signaling, black rectangle, 1 foot 3 inches by 9 feet 10 inches.
- 5 panels, type AL-44, signaling, white rectangle, 1 foot 3 inches by 9 feet 10 inches.
- 1 panel, type AL-71, cavalry distinguishing, black square, 6 feet 6 inches by 6 feet 6 inches.
- 1 panel, type AL-72, cavalry distinguishing, white square, 6 feet 6 inches by 6 feet 6 inches.

Army corps set, type AP-6.

A series of light, readily portable, black and white cotton panels for aerial signal communication at army corps, comprises:

- 1 panel, type AL-53, corps identification, black star, 9 feet 10 inches diameter.
- 1 panel, type AL-54, corps identification, white star, 9 feet 10 inches diameter.
- 3 panels, type AL-43, signaling, black rectangle, 1 foot 3 inches by 9 feet 10 inches.
- 3 panels, type AL-44, signaling, white rectangle, 1 foot 3 inches by 9 feet 10 inches.

NOTE 15.

TABLE OF PHOTOGRAPHIC EQUIPMENT.

Article of equipment.	Remarks.
Adapters, film pack, 4 by 5, speed-graphic.....	2 per division headquarters, 2 per corps headquarters, and 2 per army headquarters.
Backs, focusing, Graflex, 4 by 5.....	1 per division headquarters, 1 per corps headquarters, and 1 per army headquarters.
Bags, changing.....	2 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
Bed, wide-angle, for cycle-graphic.....	1 per corps headquarters, 1 per army headquarters.
Board lens, for 6½ by 8½ cycle-graphic.....	Do.
Cameras:	
Graphic, speed, 4 by 5.....	2 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
Cycle-graphic, 6½ by 8½.....	1 per corps headquarters, 1 per army headquarters.
Speed-graphic, 5 by 7.....	Do.
Graflex, 4 by 5, R. B., telescopic, without lens.....	2 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
Camera, B. & H., M. P. (17).....	1 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
Cases:	
Carrying—	
Graphic, 4 by 5.....	2 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
Graflex, telescopic, 4 by 5, R. B.....	Do.
Graphic, 5 by 7.....	1 per corps headquarters, 1 per army headquarters.
For cycle-graphic, 6½ by 8½.....	Do.
For 6, 6½ by 8½, graphic holders.....	2 per corps headquarters, 2 per army headquarters.
For 12, 4 by 5.....	4 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
For 4 by 5 magazines.....	2 per corps headquarters, 2 per army headquarters.
F wood for cycle-graphic, 6½ by 8½.....	1 per corps headquarters, 1 per army headquarters.
Cranks, B. & H. tripod.....	2 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
Glass, magnifying.....	1 per corps headquarters, 1 per army headquarters.
Holders:	
Plate, cycle-graphic, 6½ by 8½.....	36 per corps headquarters, 36 per army headquarters.
Graphic plate, 4 by 5.....	24 per division headquarters, 24 per corps headquarters, 24 per army headquarters.
Magazines, 4 by 5, Graflex.....	8 per division headquarters, 8 per corps headquarters, 8 per army headquarters.
Cut film, 4 by 5, graphic.....	24 per division headquarters, 24 per corps headquarters, 24 per army headquarters.
Magazines, 4 by 5, graphic.....	4 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
3-inch, adjustable.....	2 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
Lenses:	
Portar Zeiss, 6½ by 8½, S5 WA.....	1 per corps headquarters, 1 per army headquarters.
1c Tessar, 5 by 8, for 4 by 5 Graflex.....	2 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
B. & L. 1c Tessar—	
5 by 7.....	1 per corps headquarters, 1 per army headquarters.
4 by 5 telephoto attachment.....	1 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
4 by 5.....	2 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
R. & L. Co., 6½ by 8½.....	1 per corps headquarters, 1 per army headquarters.

TABLE OF PHOTOGRAPHIC EQUIPMENT—Continued.

Article of equipment.	Remarks.
Tops, tilting, No. 2, Crown.....	2 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
Tripods:	
No. 2, complete.....	Do.
B. & H.....	Do.
PHOTOGRAPHIC SUPPLIES.	
Brushes:	
Bristle, 2-inch.....	1 per division headquarters, 1 per corps headquarters, 1 per army headquarters.
Camel's-hair.....	2 per division headquarters, 2 per corps headquarters, 2 per army headquarters.
Filters, K1, K2, K3, 3-inch.....	2 each per division headquarters, corps headquarters, and army headquarters.
Cloth, focusing.....	6 per corps headquarters, 6 per army headquarters.
Filters, ray, series A.....	1 per corps and army headquarters.

Photographic supplies, such as films and dry plates, will be furnished in quantities as directed by the commanding officer.

NOTE 16.

LIST OF EQUIPMENT FOR PIGEON LOFTS.

<i>Loft equipment.</i>		<i>Miscellaneous—Continued.</i>	
	Number.		Number.
Scraper.....	1	Baskets:	
Pan bath.....	1	Stall, 4-bird.....	1
Spade.....	1	Stock, 15-bird.....	1
Rake.....	1	Triangular—	
Broom.....	1	2-bird.....	4
Pail.....	1	4-bird.....	2
Fountain, drinking, crook.....	1	6-bird.....	2
Disinfectant, C. N. or similar preparation, can.....	1	Assault, 2-bird.....	1
Disinfectant, powder, Dalmatian, pound.....	1	Trays, metal, water:	
Blowgun, disinfectant.....	1	For 4-bird stock basket.....	2
Stamps, rubber, 1/2-inch No. 11, set.....	1	For 15 and 8 bird stock basket.....	4
Ink, indelible, blue or black, bottle.....	1	Basket, stock, 8-bird.....	1
Stamp pads, plain, no color, No. 0, 2 1/2 by 3 1/2 inches.....	2	Bags, canvas, feed.....	6
Ink, indelible, red, bottle.....	1	Stamps, rubber:	
Cups, galvanized-iron drinking, with hooks, 1/2-pint.....	10	U. S. A.....	1
Can, drinking.....	1	A.....	1
Book, record, 300 pages.....	1	B.....	1
Bowls, nest, wooden or earthen (preferably wooden).....	72	C.....	1
<i>Miscellaneous.</i>		<i>Stationery.</i>	
Bands, leg, seamless, aluminum, U. S. A., serially numbered.....	100	Covers:	
Holders, aluminum, message.....	25	Message book.....	25
Bands, leg, celluloid, spiral, consisting of 7 distinctive colors of 25 bands each color.....	175	Map message book.....	25
		Refills:	
		Message book.....	50
		Map message book.....	50
		Cards, record, homing pigeon.....	500
		Manuals, copies of.....	2

NOTE 17.

REEL CART, PACK, TYPE RL-16.

1. This cart was designed for use in the Cavalry and is constructed on the knockdown principle that it may be taken apart to pack on the back of an animal, its total weight being approximately 105 pounds. When disassembled for packing it consists of five parts, viz, two wheels, frame, pole, and axle for reel. The wheels are of motorcycle type, are ball bearing, and are equipped with solid rubber tires.

2. The entire cart may be assembled in a few moments without the use of tools, the several parts being provided with tapered sockets and drawn together by eccentric clamps which hold them very rigidly. This cart will carry two steel spools of the French type, 7 inches wide and 22 inches in diameter, each holding 1 mile of single, or one-half mile of twisted-pair, 11-strand field wire weighing, complete with spools, 112 pounds.

3. The cart with its full load of wire may be easily drawn by two men over ordinary ground, the wire being paid out or picked up as may be desired, a crank provided for picking up the wire being operated by a third man.

4. This equipment packs on the ordnance-type sparejo and pack frame, two separate devices being provided for carrying the wheels. These are fastened to the frame by means of the eccentric catch, the same as is used for ammunition carriers of the mountain gun. The reels with wire are carried on separate animals, each animal carrying two reels. The same ordnance-type equipment is used for these reels as for the cart, but the hanger for the reel is slightly different than that used for carrying the wheel of the cart.

NOTE 18.

ROCK DRILL SET.

ROCK DRILL SET.		Drills—Continued.	
	Number.		Number.
Blasting machine	1	Star—	
Drills:		$\frac{1}{2}$ -inch	6
Rock—		$\frac{3}{4}$ -inch	6
3-foot	8	$\frac{7}{8}$ -inch	6
4-foot	8		
6-foot	8		

NOTE 19.

ROCK DRILL, PORTABLE, COMPRESSED AIR, COMPLETE WITH COMPRESSOR, POWER PLANT, AND DRILLS.

(Description to be furnished later.)

NOTE 20.

SET, AMPLIFIER, TYPE BC-8.

Operates best at 1,050 meters, wave length ranges 800 to 1,400 meters. Arrangements made by suitable switching devices for three stages of radio-frequency amplification or one detector tube and two stages audio-frequency amplification.

NOTE 21.

SET, LOW-FREQUENCY AMPLIFIER, TYPE SCR-121.

A two-stage vacuum-tube audio-frequency amplifier using iron core transformers; furnished with the required connection cords so that the amplifier may be used on any radio-receiving set; comprises:

	Number.
Equipment, type PE-10, or equipment, type PE-29	1
Equipment, type PE-10:	
Batteries, type BB-14 (1 in use, 2 spare), storage, lead, 2-cell, 4-volt, 90-ampere-hour; 15 plates, $8\frac{1}{2}$ by $7\frac{1}{2}$ by $14\frac{1}{4}$ inches; weight, 37 pounds; celluloid or hard rubber jar; nonspill design	3
Equipment, type PE-29:	
Batteries, type BB-28 (1 in use, 2 spare), storage, 2-cell, 4-volt, 90-ampere-hour, lead, hard rubber jars of nonspill design; dimensions, approximately, $7\frac{1}{2}$ by 8 by $10\frac{1}{2}$ inches; specification, 70-3	3
Equipment, type RC-11	1
Set box, BC-44 (2-stage amplifier)	1
Cords, CD-40 (extension cords—6 feet of 2 cords, No. 16 B. & S. lamp cord, with appropriate terminals and plugs)	2
Cord, CD-56, 3-foot extension with clips and plug	1
Head sets, type F-11 (1 in use, 1 spare)	2
Batteries, type BA-2 (2 in use, 2 spare)	4
Tubes, type VT-1 (2 in use, 2 spare)	4

For further information, see Radio Pamphlet No. 10.

NOTE 22.

SET, BATTERY CHARGING, TYPE SCR-82.

1 $\frac{1}{2}$ -kilowatt, 25 and 125 volt, battery-charging set, complete, with engine, direct-connected generator, switchboard, and accessories; comprises:

	Number.
Gasoline engine, type GE-2, four-cycle, air-cooled, 1,200 revolutions per minute, 3-horsepower, complete with coupling, gasoline tank, muffler, piping, etc.	1
Generator, type GN-9, direct-connected, 25 and 115 volts, 2,000 watts	1
Panel, type BD-4, charging, bakelite dielecto, 24 by 18 by $\frac{1}{2}$ inch	1
Panel, type BD-5, charging, three-circuit, bakelite dielecto, 24 by 18 by $\frac{1}{2}$ inch	1

NOTE 23.

SET, MONOCORD OPERATOR'S, TYPE EE-64.

1. This set has been designed to replace the several types of telephones which have been used as operator's sets in connection with the monocord switchboards, type EE-2. It is contained in a fiber-covered wooden case and provided with adjustable webbing shoulder carrying strap. It is 10 inches long, 6½ inches wide, and 7½ inches high, and weighs approximately 15 pounds.

2. The equipment of the set consists of a generator, buzzer, induction coil, single head receiver, adjustable transmitter, buzzer for night alarm, operator's switch and ringing key, two BA-1 batteries with a switch that either may be used, and connection cord and plug. The circuit is so arranged that the operator answers the call by inserting the plug connected to the switchboard unit in the jacket of the calling line and, on ascertaining the line desired, completes the connection by placing the plug of the calling line in the jack of the desired line and ringing the telephone on that line by operating the generator of the switchboard, without the manipulation of any keys. He then may listen on the line until the called party answers, after which he can remove his plug. Should, however, the calling party leave his telephone and it is desired to recall him before the operator's plug is removed, this may be done by throwing the ringing key in the opposite direction and operating the generator of the switchboard. The buzzer for the night alarm is connected to the same key; and should the operator leave the switchboard, this buzzer may be switched in circuit and the battery of the transmitter cut out at the same time.

3. The set is entirely self-contained, and on closing the cover the several parts are protected from mechanical injury and the battery switch is automatically thrown to the "off" position, thereby cutting the battery out of circuit.

NOTE 24.

SET, RADIO RECEIVING, TYPE SCR-64-A.

(See Radio Pamphlet No. 3.)

	Number.
Equipment, type RC-1-A, radio-receiving.....	1
1 set box, type BC-14-A, for receiving damped or modulated wave signals; wave-length range, 200 to 600 meters; wooden box 8½ by 12½ by 4½ inches, with hinged waterproof cover 3-⅞ inches deep; bakelite operating panel; box contains primary and secondary tuned circuits inductively coupled and each comprising adjustable inductance and capacitance; coupling adjustable; secondary may be made aperiodic and it comprises crystal detector and double telephone jack; calibration chart furnished with the box. Contains the following separate parts:	
Strap, ST-5, carrying.....	.....
Head sets, P-11, telephone receivers.....	2
Crystals, DC-1, detectors (spare).....	6
Batteries, BA-4, 1.5-volt primary cells (1 in use, 1 spare).....	2
Screw driver, TL-2, 4-inch, Stanley.....	1
Wire, W-20, 7-strand, rubber-covered and silk braid, feet.....	30
Contact springs, M-14, for crystal detector (spare).....	2
Equipment, type A-2-A or A-2-B, antenna.....	1
Mast sections, type MS-5, bamboo, 14-foot iron tips.....	6
Insulators, type IN-5, bakelite.....	6
Pins, type FT-3, metal, for mounting insulators.....	6
Wire:	
Type W-1, 7-strand, No. 22, soft tinned copper, bare, feet.....	750
Type W-4, single-conductor, 26-strand, insulated, feet.....	75
Type W-2, No. 14, bare soft copper, pounds.....	2
Mat, type MT-2, ground, copper-mesh, 9 feet by 1 foot 8 inches.....	1
Stakes, type GP-3, ground, angle-iron, 2½ feet long.....	14
Insulators, type IN-5, strain, hard rubber.....	8
Couplers, type FT-2, cast-iron, for masts.....	6
Rope, type RP-1, ⅜-inch, manila, feet.....	150
Reels, type RL-3, hand, for antenna.....	4
Pliers, type TL-20, combination, 8-inch.....	1
Tape, type TL-83, friction, ⅜-inch, pound.....	½
Marlin, type RP-2, 42-foot lengths, tarred, ⅜-inch coils.....	2
Chest, type BC-26, carrying, wooden, for carrying set.....	1

NOTE 25.

SET, RADIOTELEGRAPH, TYPE SCR-62.

Transmitting and receiving set for use of balloon companies. This set consists of SCR-73 modified by substituting dynamotor of 100-watt output of 900 cycles and 4,500 revolutions per minute, to be driven by 12-volt battery with the GN-4 generator. Transmitting wave length, 200-500 meters. Uses the standard type A-2 V antenna. Receiving set consists of SCR-54.

NOTE 26.

SET, U. W. LOOP RADIOTELEGRAPH, TYPE SCR-77.

The set box is provided with 10 operating wave lengths, all within a narrow band of about 2 meters; range, 74 to 76 meters; maximum working range, using break-in communication, 5 miles. Uses three type VT-1 tubes. The first tube oscillating provides the power used for transmission, also used simultaneously for heterodyne reception. Two tubes are used as audio-frequency amplifiers for receiving. Break-in communication is provided as both sets are simultaneously sending and receiving. When the key is pressed at either end, the same signal is heard in the head sets at both ends. A detachable, one-turn loop, 3 by 4 feet, is mounted above the set box. Comprises:

	Number.		Number.
Equipment, type PE-10.....	1	Equipment, type RE-8—Continued.	
Batteries, type BB-14 (1 in use, 2 spare)...	3	Batteries, type BA-2.....	5
Equipment, type RE-8.....	1	Tubes, type VT-1.....	3
Set box, type BC-38, transmitting and receiving.....	1	Head sets, type P-11.....	2
Loop, type LP-2.....	1	Knife, electrician's.....	1
			Pounds.
Weight of set box.....			32
Weight of accessories.....			8
Weight of 1 storage battery, type BB-14.....			37
Total.....			77
Weight of 2 spare batteries.....			74
Weight of entire equipment.....			151

NOTE 27.

SET, U. W. RADIOTELEGRAPH, TYPE SCR-79-A.

(See Radio Pamphlet No. 17.)

Transmitting and receiving; wave length range, 500 to 1,100 meters; inductively coupled vacuum-tube oscillator for transmitting and a vacuum-tube detector and two-stage amplifier for receiving. Requires a low-resistance antenna.

	Number.
Equipment, type PE-7, power.....	1
Batteries, BB-14, storage, lead, 2 cells, 4 volts, 90 ampere-hours.....	9
Dynamotor, DM-1, D. C. to D. C., 10-300 volts, 50 watts, weight, 15 pounds.....	1
Box, BC-25 or 25-A, aluminum, for dynamotor.....	1
Equipment, type RE-5-A, radio.....	1
Chest, BC-43, wooden, carrying.....	1
Set box, BC-32-A, transmitting and receiving.....	1
Tubes:	
VT-1, receiving and amplification.....	6
VT-2, transmitting.....	4
Batteries, BA-2, dry, 22 volts, 15 cells in box.....	4
Head sets, P-11, phones.....	2
Key J-12, telegraph; base, 2½ by 3¼ inches.....	1
Set box, BC-40; wave-length range, 500 to 1,100 meters; comprises a variometer inductance, a fixed condenser, carbon rheostat, indicator lamp socket, buzzer, dry battery clips, and inclosed in a box 4½ by 5½ by 3½ inches over all.....	1
Cords:	
CD-49, extension, 1 foot 6 inches, with terminals.....	2
CD-38, extension, 1 foot, with terminals.....	5
Wire, W-7, annunciator No. 18, cotton insulated, pounds.....	2
Batteries, BA-4, dry, 1.5 volts, 1 cell (1 in use, 3 spare).....	4
Lamps, LM-4, incandescent bulb, 2.5 volts, for wave meter (1 in use, 3 spare).....	4
Screw driver, TL-21, 6-inch.....	1
Voltmeter, 1-10, D. C., 0-10 volts and 0-50 volts.....	1
Clock, 1-15, auto, 15-jewel Waltham, 8-day.....	1
Pliers, TL-19, combination, 6-inch.....	1
Tape, TL-83, friction, ½-inch, pound.....	½
Cords:	
CD-15, extension, 5 feet 6 inches, with terminals.....	3
CD-47, extension, 5¼ feet, with terminals.....	2
CD-48, extension, 6 feet, with terminals.....	2

SET, U. W. RADIOTELEGRAPH, TYPE SCR-79-A—Continued.

	Number.
Equipment, type A-9, antenna.....	1
Insulators:	
IN-5, strain, hard rubber.....	2
IN-7, bakelite on pin.....	6
Couplers, FT-2, cast-iron, for masts.....	6
Mats, MT-3, ground, 13 feet by 3 feet 4 inches.....	3
Wire, W-1, 7-strand, No. 22, copper, bare, feet.....	750
Reels, RL-3, hand, for antenna.....	2
Wire, W-6, 26-strand, weatherproof, feet.....	300
Masts, MS-5, bamboo, 13 feet, iron tips.....	6
Bags, BG-14, carrying, canvas, 2 feet 7½ inches by 4 inches.....	2
Stakes, GP-3, ground, angle-iron, 2½ feet long.....	12
Bag, BG-8, carrying, 20 by 14 by 3 inches.....	1
Wire, W-4, lamp cord, 26-strand, weatherproof, feet.....	50
Hammer, HM-1, 2-face, 2 pounds, 16-inch handle.....	1
Marlin, RP-2, tarred, ¼-inch.....	½
Cord, RP-3, sash, No. 5, ¼-inch, feet.....	300

NOTE 28.

SET, U. W. RADIO TRACTOR TELEGRAPH AND TELEPHONE, TYPE SCR-97.

Transmitting and receiving; apparatus mounted on 1½-ton White chassis; wavelength range; transmitting 1,000 to 3,000 meters; receiving, 300 to 8,000 meters; working range, 200 to 600 miles; transmitter comprises six type P pliotrons, oscillator and modulator circuits, and auxiliary apparatus mounted on panel; apparatus provides for continuous wave telegraphing, buzzer modulation; plate and filament power furnished by generators mounted on chassis and driven by gas engine of the tractor; receiving equipment comprises type SE-1420 Navy type receiver, combination radio and audio frequency amplifier, type BC-103, separate heterodyne type BC-104; antenna equipment comprises type E mast and counterpoise.

NOTE 29.

SET, U. W. RADIOTELEGRAPH, TYPE SCR-99.

Transmitting and receiving wave length range, 900-1,900 meters, with a 400-700 micro-mfd. antenna; average distance of transmission, 60 miles; consists of an inductively coupled vacuum-tube oscillator circuit for transmitting and a vacuum-tube detector, and 2-stage amplifier circuit for receiving. Comprises:

	Number.
Equipment, type PE-7, power.....	1
Batteries, type BB-14, storage, lead, 2 cells, 4 volts, 90 ampere-hours, weight 37 pounds, nonspill design.....	9
Dynamotor, type DM-1, D. C., 10 to 300 volts, 0.167 ampere at 300 volts, 50 watts output, 2,550 revolutions per minute, weight 15 pounds.....	1
Box, type BC-25 or BC-25-A, carrying, aluminum box equipped with fuse block; for dynamotor, type DM-1.....	1
Equipment, type RE-7 (radio).....	1
Chest, BC-43, carrying, wood, 12½ by 26½ by 19 inches.....	1
Set box, type BC-45, transmitting and receiving set.....	1
Tubes:	
Type VT-1, receiving.....	6
Type VT-2, transmitting.....	4
Batteries, type BA-2, dry, 22 volts, 15 cells.....	4
Head sets, type P-11, telephone.....	2
Key, J-12, telegraph; base, 2½ by 3½ inches.....	1
Set box; wave length range, 900 to 1,900 meters; comprises, suitably connected and mounted, a variometer inductance, fixed condenser, carbon rheostat, indicator lamp socket, buzzer, dry battery clips, all included in a wooden box, 4½ by 5½ by 3½ inches over all.....	1
Batteries, BA-4, dry, 1-cell, 1.5-volt.....	4
Lamps, LM-4, miniature flash, 2.5-volt, for wave meter.....	4
Screw driver, TL-21, 6-inch.....	1
Voltmeter, 1-10, D. C., 0-10-volt and 0-50-volt, with lead.....	1

SET, U. W. RADIOTELEGRAPH, TYPE SCR-90—Continued.

Equipment, type RE-7 (radio)—Continued.	Number.
Clock, I-15, auto, 15 jewels, Waltham, 8-day.....	1
Pliers, TL-19, combination, 6-inch.....	1
Tape, TL-83, friction, $\frac{3}{4}$ inch wide.....	1
Cords:	
CD-15, extension, 5 $\frac{1}{2}$ feet, with terminals.....	3
CD-47, extension, 5 $\frac{1}{2}$ feet, with terminals.....	2
CD-48, extension, 6 feet, with terminals.....	2
CD-49, extension, 1 $\frac{1}{2}$ feet, with terminals.....	2
CD-38, extension, 1 foot, with terminals.....	5
Wire, W-7, annunciator, No. 18, pounds.....	2
Equipment, type A-9, antenna.....	1
Insulators:	
Type IN-5, strain, hard rubber.....	6
Type IN-7, bakelite, with pin.....	6
Couplers, FT-2, cast-iron, for masts.....	6
Mats, MT-3, ground, 13 feet by 3 feet 4 inches.....	3
Wire, W-1, 7-strand, No. 22, copper, bare, feet.....	750
Reels, RL-3, hand, for antenna.....	2

NOTE 30.

SET, RADIOTELEGRAPH, TYPE SCR-105.

Transmitting and receiving; comprises a special polarized, double-winding transmitting buzzer, with radio-frequency quenched interrupter, quenched spark gap, an adjustment for six fixed wave-length settings and one crystal detector; the radio circuits, spares, and accessories are contained in the set box; the operating panel is covered by a canvas flap for transportation; working range, 5 miles, with amplifier 20 miles; comprises:

Equipment, type PE-11, power.....	Number.
Batteries, type BB-23, storage, lead, 5 cells, 10 volts, 17 ampere-hours.....	1
Equipment, type RE-12, radio.....	1
Set box, type BC-53, transmitting and receiving.....	1
Cords, type CD-64, extension, 4 feet, with terminals.....	2
Head sets, type P-11, telephone.....	2
Lamps, type LM-4, 2.5 volts, 0-35 amperes.....	4
Crystals, type DC-1, detector.....	4
Contacts:	
Type CN-8.....	1
Type CN-9.....	2
Separators, type IN-9, mica, 0.005 inch thick, 1 $\frac{1}{2}$ inches diameter.....	6
Screw driver, 4-inch.....	1
File, flat, needle, 3 $\frac{1}{2}$ -inch.....	1
Equipment, type A-10-A, antenna.....	1
Roll, type M-15, carrying.....	1
Mast sections, type MS-14, wood, 6 feet 9 $\frac{1}{2}$ inches long by 1 $\frac{1}{2}$ inches diameter.....	12
Mat, type MT-5, ground.....	1
Bag, type BG-12, carrying.....	1
Antennae, type AN-7, wound on 1 hand reel, type RL-3.....	2
Guys, type GY-4, carried on 3 hand reels, type RL-3.....	6
Counterpoise, type CP-5, consisting of 75 feet of type W-6 wire, to be wound on hand reel, type RL-3.....	1
Reels, type RL-3, hand.....	7
Hammer, 2-face, 2-pound.....	1
Pliers, 6-inch combination, pair.....	0
Wire, type W-24, antenna, to be wound on hand reel, type RL-3, feet.....	50
Cord, No. 5, olive-drab braided cotton, $\frac{1}{4}$ inch diameter.....	15
Stakes, type GP-8, ground.....	6
Insulators, type IN-10, spares.....	40
Friction tape, roll.....	1
Wire, type W-4, lead-in, feet.....	25

NOTE 31.

SET, U. W. RADIOTELEGRAPH, TYPE SCR-130.

	Number.		Number.
Batteries, type BB-14; lead, storage, 4-volt (3 in use, 6 spare).....	9	Bag—Continued.	
Case, type BC-25-A; containing 1 dynamotor, type DM-1.....	1	Reels, type RL-3, 6 for antenna, 6 for counterpoise, 1 for antenna lead-in.....	13
Set box, type BC-7 (including following parts).	1	Cord, type CD-89, set box to counterpoise, block type, BL-2, on one end.....	1
Tubes:		Connectors, type M-6 (spares for antenna wires).....	2
Type VT-2.....	4	Insulator, type IN-4, electrose, mast bottom.....	1
Type VT-1.....	3	Bag, type BG-6 (including the following parts).....	1
(Tubes VT-3 or VT-5 may be used with dry batteries.)		Bag, type BG-7.....	1
Instruction pamphlet.....	1	Containing:	
Box, type BC-102 (including following parts):	1	Hammers, type HM-1.....	2
Cords:		Stakes, type GP-2.....	6
Type CD-91, 350-volt leads, dynamotor to set box.....	1	Tent, type TN-1 (with following parts rolled up inside).....	1
Type CD-92, 12-volt leads, dynamotor to set box.....	1	Insulating device, for tent.....	1
Type CD-88, three-conductor, set box to dry batteries.....	1	Pins, wood, for tent.....	14
Type CD-90, 12-volt leads, set box to storage batteries.....	1	Ropes, tent guys.....	2
Type CD-38, connecting storage batteries in series (1 spare).....	3	Plug, for tent adapter.....	1
Tubes:		Voltmeter, type 1-10.....	1
Type VT-1 (spare).....	4	Pliers, type TL-19.....	1
Type VT-2 (spare).....	5	Screw driver, type TL-21.....	1
Batteries, type BA-8 (2 spare).....	4	Wire, type W-7, pounds.....	2
Head sets, type P-11.....	2	Tape, friction, 4-inch, pound.....	1
Bag, type BG-6 (including following parts)....	1	Mast sections:	
Mast cap, type MP-4, complete with 50 feet of antenna lead-in wire.....	1	Type MS-1.....	1
Antenna, type AN-4, six 75-foot lengths antenna cord, complete, with insulators and guy ropes.....	1	Type MS-2.....	12
Counterpoise, type CP-3, six 90-foot lengths counterpoise wire.....	1	Type MS-3.....	1
		Ridgepole extension piece, for tent adapter.....	1
		Tent pole extension pieces, with spike in end, for tent adapter.....	2
		Legs for set box, type BC-7.....	4
		Straps, type ST-5, for bundling mast sections..	6

NOTE 32.

SET, DIRECTION-FINDING RADIO RECEIVER, TYPE SCR-122.

Consists of 5-foot shielded loop; four stages high-frequency amplification. Wave length, 300-500 meters.

NOTE 33.

SET, U. W. RADIOTELEGRAPH AND TELEPHONE, TYPE SCR-132.

Ground set to work with Army observation planes. Working range in miles, telephone 80-100, telegraph 200-250; transmitting wave length, 800-1,900 meters, receiving 550-2,200.

NOTE 34.

TRUCK, RADIO-OPERATING, TYPE SCR-124.

* Consists of a 1½-ton White chassis, pneumatic tires, on which is mounted a fully inclosed body containing one SCR-79, one SCR-99, one SCR-121, one SCR-54-A, and one battery-charging set (SCR-82 will be supplied until such time as the SCR-110 is available). The sets furnished with this truck will not carry their full complement of storage batteries. There will be allotted for the SCR-99, six BB-14's; for the SCR-79, six BB-14's, and for the SCR-121, two BB-14's.

NOTE 35.

SIMPLEX TELEGRAPH SET.

1. This telegraph set is intended as a portable instrument for general field work and consists of one main line relay, 150 ohms; one sounder, 4 ohms; one key; one W. B. No. 47-A repeating coil; one 100-ohm rheostat mounted in a fiber-covered oak case, approximately 8 by 8 by 11 inches and weighing approximately 14 pounds. This case is provided with a shoulder carrying strap.

2. The local sounder is operated from a BA-1 battery when the set is used as a portable instrument for short periods, but larger calls should be provided in case it is installed for a more extended time. The 100-ohm rheostat is inserted in one side of the line and is intended for balancing. If it is found that the resistance is needed on the opposite side of the line, then the line wires in the terminal posts should be reversed.

3. Provision is made for using the half of the repeating coil as a retardation coil, and thus bridging the telegraph set on the telephone line, or cutting the line through the repeating coil, as is done in ordinary simplex telegraph work.

NOTE 36.

SET, TEST, CABLEMAN'S TONE.

Known as "Find-A-Fault" set; not an instrument of precision; consists of transmitter, receiver, induction coil, buzzer, condenser, battery, and switches; used by cable splicers in quickly locating pairs, or wires of cables in which there may be some form of trouble.

NOTE 37.

SET, TEST, UNIVERSAL, TYPE EE-65.

1. This testing set is designed for testing and locating practically all troubles on magnetic telephone lines and apparatus, and combines all the features of a condensed wire chief's desk that is used in connection with commercial telephone exchanges. It is inclosed in a suitable carrying case, approximately 6 inches deep, 8½ inches wide, and 10¼ inches high, weighs about 14 pounds, and is provided with a shoulder carrying strap that it may be easily transported in the field.

2. The equipment of the set consists of a generator, condenser, voltmeter, buzzer, five keys, induction coil, single head receiver, transmitter, test clips and cords, ground rod, BA-1 battery for transmitter, and two BA-2 batteries for testing, and is designed for making the following principal tests on either grounded or metallic circuits:

- (a) Talking to other telephones connected to the line.
- (b) Ringing.
- (c) Continuity tests.
- (d) Tests for short circuits.
- (e) Tests for grounds.
- (f) Tests for crosses with lines carrying current, such as telegraph lines and common battery telephone lines.
- (g) Tests for crosses with other telephone lines.
- (h) Measuring voltage of batteries.

3. The telephone equipment consists of a generator, buzzer, induction coil, transmitter, and receiver, and provides all the necessary ringing and talking equipment that the test man may not need an additional telephone and he may also use this as the ordinary lineman's test set. The voltmeter is of the Weston model 280 pattern and has a range of 50 volts, thereby providing means of reading the voltage of outside batteries of this potential or less.

4. By means of the several keys, the several tests already named can be made without changing the connections. Curves are provided that the resistance measurements may be easily read regardless of the voltage of the self-contained battery or of an external battery if used.

NOTE 38.

SWITCHBOARD, TELEGRAPH, 4-LINE.

Consists of eight perpendicular bars to which the lines coming into the station are brought, usually through lightning arresters. Between each pair of these vertical bars is a row of brass disks, all the disks in any horizontal row being connected together by a metal strip on the back of the board. Semicircular spaces are cut adjoining each other in the strips and disks so connections may be made at any of these points between the disks and strips by the insertion of conical metal plugs with hard rubber heads. By means of these, sets of instruments may be connected up with each other, the different lines, or the ground.

NOTE 39.

SWITCHBOARD, TELEGRAPH, SPRING JACK, 8-LINE.

This instrument is usually employed as a terminal switchboard. In general it is similar in construction to the 4-line telegraph switchboard, excepting that there are 16 perpendicular bars with a row of spring Jack at the bottom of the board. The lines are brought through fuses to the top spring contact of the jacks, pass through the back contact and up to one of the vertical bars of the switchboard. Flat plugs made of two metal strips separated by a hard rubber insulation, to which two-conductor flexible cords are connected, leading to sets of instruments. The insertion of a round conical plug at the appropriate disk connects that line to battery and ground. The insertion of a flat plug and cord leading to a set will introduce that instrument into the circuit. Various arrangements can be made for interconnecting various lines, loops, and instruments, as well as providing for duplex and repeater sets.

NOTE 40.

SWITCHBOARD, CAMP, TYPE BD-14.

Telephone, camp, semiportable; a complete switchboard ready to be set up and operated, permanently contained in a case which also provides compartments in which are stored legs, tools, and spare parts. The spare parts of the switchboard, most of which are permanently attached, include 40 line signals, 40 line jacks, 8 supervisory signals, 8 ringing and listening keys, 16 connecting cords and plugs, a hand generator, a night bell, a night bell switch, a transmitter and transmitter arm complete with cords, a single head receiver with cord, plug, and jack, 40 brass protectors and line terminals, and 1 clock. The removable equipment comprises 4 telescoping wooden legs, type M-69, the following spare parts: 1 single head receiver with cord and plug, 8 connecting cords with plugs, 2 transmitter cords, 2 receiver cords, 3 line signals, 2 generator crank handles, 2 mouthpieces; and the following tools: One 6-inch screw driver, one 6-inch screw wrench, one 3-inch screw driver, one pair 5½-inch diagonal cutting pliers, one pair 5½-inch long-nose pliers. (Specification 578.)

A field multiple switchboard is now being developed which will consist of five sections, each of which will be similar to the present camp telephone switchboard, but which will be wired and equipped with 30 magneto lines, 15 cord circuits, 60 multiple jacks, the necessary operator's set, and a transfer circuit. These switchboards may be used singly or any number up to five may be set up as a multiple board connected together by means of flexible cables equipped with multiple conductor plugs. This will give a switchboard of five sections with a total capacity of 150 lines.

NOTE 41.

TOOLS, LINE CONSTRUCTION, SET.

	Number.		Number.
Bag, tool, canvas.....	1	Files, flat bastard, 10-inch.....	2
Bits:		Frame, hacksaw, adjustable, 10-inch.....	1
½ by 8 inches.....	2	Hammers, claw.....	2
½ by 8 inches.....	2	Handle, file.....	1
½ by 12 inches.....	4	Knife, draw, 10-inch.....	1
Auger, 1½ by 6½ inches.....	1	Mallets, wood.....	1
Bell hanger, ½ by 18 inches.....	1	Rules, folding, 6-foot.....	2
Blades, hacksaw, 10-inch, medium teeth, dozen.	2	Tape, metallic, 50-foot.....	1
Braces, ratchet, 12-inch.....	1	Wrenches, monkey, 12-inch.....	2
Chisels, wood, 2-inch.....	3	Whetstone, India, oil, 2 by 8 inches.....	1

NOTE 42.

TELEGRAPH OFFICE TRACTOR.

The telegraph office is a complete portable telegraph office intended for field work. The outfit is mounted on a 5-ton White chassis and includes the necessary storage battery for terminal operation and a power plant for charging the battery. The charging generator is driven by the truck engine through the power take-off of the transmission. The body is special and exceptionally large, as it provides working space for eight operators and one supervisor. Four operating sets are installed on a permanent table on either side of the truck; in addition to this equipment there is a repeater set, four duplex telegraph sets, one repeater position, the necessary line control panels and switchboards such as will be found in any modern telegraph office; the lighting for night work is provided from the storage battery, making the set complete in itself without being dependent upon any outside source of power. The chassis is provided with large Westinghouse shock absorbers that the equipment may ride easily in transit, and every other possible means have been taken to protect the apparatus and to provide comfort and ventilation for the operators while the set is in use.

NOTE 43.

TELEPHONE SWITCHBOARD TRACTOR.

The telephone switchboard exchange contains a five-position multiple magneto switchboard, wire chief's testing set, ringing machines, generator for charging storage batteries, power panels, storage batteries, protector equipment, and all other apparatus that would be found in a modern telephone exchange of its size. A 5-ton White chassis is used, and the generators for charging the storage battery are driven from the power take-off of the transmission. The body is of special design in order to contain and protect the apparatus and to provide comfort and ventilation for the operators. A special means of support is provided for the switchboard, which is of necessary rigid construction throughout its entire length. The storage battery furnishes power for one of the ringing machines, operation of the switchboard, and for lighting interior for night work. The whole chassis is mounted on Westinghouse shock absorbers to protect equipment as far as practicable during transit.

NOTE 44.

WEIGHT OF SPARE BATTERIES AND CHARGING SET CARRIED ON STORAGE BATTERY TRAILER FOR RADIO EQUIPMENT USED WITH ONE INFANTRY DIVISION.

Set.	Number.	Batteries per set.	Number of spares to be carried on trailer per set.	Total number on trailer.	Weight per battery.		Total weight of spares on trailer.	Dimensions.
					Pounds.	Pounds.		
SCR-79 ¹	3	9 BB-14....	3	9	37	333	8 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 14 $\frac{1}{2}$.	
SCR-795.....	10	3 BB-23....	1	10	25	250	7 $\frac{1}{2}$ x 4 $\frac{1}{2}$ x 12 $\frac{1}{2}$.	
SCR-77.....	29	3 BB-14....	1	29	37	1,073	8 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 14 $\frac{1}{2}$.	
SCR-121 ¹	17	3 BB-14....	1	17	37	629	8 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 14 $\frac{1}{2}$.	
SCR-67-A.....	3	6 BB-5....	2	6	76	456	19 x 7 x 16 $\frac{1}{2}$.	
				71		2,741		

¹ Two additional sets supplied with each infantry division, but are carried on trucks, radio-operating, type SCR-124.

Battery charging set, SCR-82, weight with panels, 850 pounds, carried on storage battery trailer.

NOTE 45.

STATIONERY FOR EACH SCR-97 AND SCR-124 SET.

Quantity.	Form No.	Articles.	Quantity.	Form No.	Articles.
1,000	123e	Radiograms sent.	1,000	144	Message envelopes.
1,000	125e	Radiograms received.	2,000	.....	Paper, telegraph, sheets.
1,000	125f	Radiograms sent or received.	1	.....	Paper, carbon, gross.
60	128	Message delivery sheet.	12	.....	Pencils, lead.
30	138	Operator's number sheet.	1	.....	Ribbon, typewriter (black record).

NOTE 46.

STATIONERY FOR EACH TELEGRAPH SET.

Quantity.	Form No.	Articles.	Quantity.	Form No.	Articles.
2,000	123b	Telegrams sent (small unruled).	1,000	144	Message envelopes.
500	123d	Telegrams sent (large unruled).	1	.....	Paper, carbon, gross.
2,000	125b	Telegrams received (small unruled).	2,000	.....	Paper, telegraph, sheets.
150	125d	Telegrams received (large unruled).	12	.....	Pencils, lead.
100	124	Message delivery sheet.	1	.....	Ribbon, typewriter (black record).
45	138	Operator's number sheet.			

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR }
No. 212. }

WAR DEPARTMENT,
WASHINGTON, June 9, 1920.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL TO AIR SERVICE UNITS, TABLE
IV—AMENDMENT TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920.**

Circular No. 152, War Department, 1920 (Tables of Basic Allowances), as amended, is further amended by adding to the tables enumerated therein the following table with notes prescribing the allowances of individual and organizational equipment for Air Service units:

**INDIVIDUAL EQUIPMENT TO BE ISSUED TO PERSONNEL OF AIR SERVICE
ORGANIZATIONS.**
(Air Service equipment.)

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
Aprons, rubber.....	Balloon park.....	6		For hydrogen plant operators.
Caps, soft, winter and summer.	Chauffeur.....	1		Air Service Spec. 27.
Coats, aviators', leather....	Motorcyclist.....	1		
	Balloon company.....	4		Air Service Spec. 3012.
Coats, oilskin.....	Pilot, airplane.....	1		Not provided when issued flying suits.
	Observer, airplane.....	1		
	Flying student.....	1		
	Airship company.....	8		
Gloves, wool lined, special.	Balloon company.....	4		Air Service Spec. 28.
	Airship company.....	8		Air Service Spec. 19.
	Balloon company.....	4		
Gauntlets.....	Flying student.....	1		
	Pilot, airplane.....	1		Air Service Spec. 3001.
Gauntlets, rubber.....	Observer, airplane.....	1		
	Balloon park.....	6		For hydrogen plant operators.
Glasses, amber or smoked....	Airship company.....	24		For lookouts.
	Balloon company.....	16		For balloon observers.
	Balloon park.....	12		For lookouts.
Goggles, flyers'.....	Balloon company.....	4		Air Service Spec. 3003.
	Pilot, airplane.....	1		
	Observer, airplane.....	1		
	Flying student.....	1		
Helmet, hard.....	do.....	1		Air Service Spec. 3007.
Helmet, soft.....	Airship company.....	8		
	Balloon company.....	4		Air Service Spec. 3002.
	Pilot, airplane.....	1		
	Observer, airplane.....	1		
Moccasins.....	Airship company.....	8		
	Balloon company.....	4		Air Service Spec. 8.
	Pilot, airplane.....	1		
Suits, flying, winter, electric heated.	Observer, airplane.....	1		
	Pilot, airplane.....	1		Air Service Spec. 3015-A.
	Observer, airplane.....	1		Issued only as directed by local commander.
Suits, flying, summer.....	Flying student.....	1		Air Service Spec. 7. Summer use only.
	Airship company.....	8		
	Observer, airplane.....	1		
	Pilot, airplane.....	1		
Suits, overalls, 1-piece combination.	Chauffeur.....	2		
	Mechanic.....	2		Air Service Spec. 36.
	Motorcyclist.....	2		
Suits, winter, flying.....	Airship company.....	8		
	Balloon company.....	4		Air Service Spec. 3009.
	Pilot, airplane.....	1		Winter use only.
	Observer, airplane.....	1		
Sweaters.....	Balloon company.....	4		Air Service Spec. 5.
	Balloon park.....	18		
	Pilot, airplane.....	1		
	Observer, airplane.....	1		
	Flying student.....	1		

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS.

(Air Service equipment.)

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Aerial cameras:				
Hand operated, 18 by 24 cm. plate.	Biplace pursuit and Army observation squadron and School of Aerial Photography.	6	.....	Aerial cameras issued to these organizations when photo sections are attached. See note 1.
Mapping, automatic film, 18 by 24 cm.	Multiengine squadron... Corps observation squadron and School of Aerial Photography.	2	.....	See note 2.
	Divisional observation squadron.	6	.....
Mapping, automatic film, 6 by 6 inches.	Monoplace pursuit squadron.	4	.....	See note 3.
	School of Aerial Photography.	8	.....
		6	.....
Airplanes, complete:				
Bombardment, day....	Day bombing section....	1	.....	See note 4.
Spare parts for same, sets.	Day bombing squadron.	1	.....	See note 5.
Engines, extra....	Per 4 engines.....	1	.....	See note 4 for type of engine.
Engine spares, sets.	Day bombing squadron.	1	.....	See note 6.
Bombardment, night....	Night bombing section....	1	.....	See note 7.
Spare parts for same, sets.	Night bombing squadron.	1	.....	See note 8.
Engines, extra....	Per 4 engines.....	1	.....	See note 7 for type of engine.
Engine spares, sets.	Night bombing squadron	1	.....	See note 9.
Multiengine, airplane..	Per multiengine section.	1	.....	See note 10.
Spare parts for same, sets.	Per multiengine squadron.	1	.....	See note 11.
Engines, extra....	Per 4 engines in airplanes	1	.....	See note 10 for type of engine.
Engine spares, sets.	Per multiengine squadron.	1	.....	See note 12.
Observation, day....	Day observation section.	1	.....	See note 13.
Spare parts for same, sets.	Day observation squadron.	1	.....	See note 14.
Engines, extra....	Per 4 engines in airplanes.	1	.....	See note 13 for type of engine.
Engine spares, sets.	Day observation squadron.	1	.....	See note 15.
Observation, night....	Night observation section.	1	.....	See note 16.
Spare parts for same, sets.	Night observation squadron.	1	.....	See note 17.
Engines, extra....	Per 4 engines in airplanes.	1	.....	See note 16 for type of engine.
Engine spares, sets.	Night observation squadron.	1	.....	See note 18.
Pursuit, monoplace....	Monoplace pursuit section.	1	.....	See note 19.
Spare parts for same, sets.	Monoplace pursuit squadron.	1	.....	See note 20.
Engines, extra....	Per 4 engines in airplanes.	1	.....	See note 19 for type of engine.
Engine spares, sets.	Monoplace pursuit squadron.	1	.....	See note 21.

NOTE.—Air parks to carry 1 set of airplane and engine spares for each squadron it supplies.
NOTE.—Intermediate storage depots to carry sets of engine and plane spares for 1,000 hours and 10,000 hours necessary to supply all organizations dependent on depot for issue.

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perma- nent nature.	
Airplanes, complete—Con.				
Pursuit (or attack) multiplace.	Multiplace pursuit (or attack) section.	1	.....	See note 22.
Spare parts for same, sets.	Multiplace pursuit (or attack) squadron.	1	.....	See note 23.
Engines, extra.....	Per 4 engines in air- planes.	1	.....	See note 22 for type of en- gine.
Engine spares, sets.	Multiplace pursuit squadron.	1	.....	See note 24.
Training.....	Per 6 students.....	1	.....	See note 25.
Spare parts for same, sets.	Per 25 airplanes.....	1	.....	See note 26; supply for 3 months.
Engines, extra.....	Per 4 engines in air- planes.	1	.....	See note 25 for type of air- plane.
Engine spares, sets.	Per 25 engines.....	1	.....	See note 27; supply for 3 months.
Airship.....	Airship company.....	1	.....	See note 28.
Spares for same, sets.	.....do.....	1	.....	See note 29.
Engine spares, sets	.....do.....	1	.....	See note 30.
Accessories, ground, for same.	.....do.....	1	.....	See note 31.
Balloon, observation, com- plete, less basket.	Balloon company.....	1	1	See note 32.
Balloon accessories.....	Balloon park.....	4	.....
	Balloon company.....	1	1	See note 32-A.
	Balloon park.....	4	.....
Balloons, supply, 5,000 cu. ft.	Balloon park.....	6	.....	See Air Service Spec. (being prepared).
Balloon basket and acces- sories.	Balloon company.....	1	1	See note 32-B.
Balloon cable and cordage..	Balloon park.....	4	.....
	Balloon company.....	1	.....	See note 32-C.
	Balloon park.....	4	.....
Balloon winch.....	Balloon company.....	1	1	For specifications of body see "Handbook on Amer- ican Caquot Windlass, Cunningham type, 1918," War Department, D. M. A., 1919.
	Balloon park.....	2	.....
Blacksmith's equipment.	Airdrome company.....	1	.....	See note 35.
	Airplane squadron.....	1	.....	See note 34. Furnished when no machine-shop truck is supplied.
Blower, portable.....	Air park.....	1	.....	Field service only.
	Balloon company.....	1	.....	See Air Service Spec. (being drawn). To be driven by hand or geared to motor cycle; used for inflating fins or main sections of observation balloon on ground.
	Balloon park.....	1	.....
	Airship company.....	1	.....	See Air Service Spec. (being drawn). To be mounted on truck chas- sis and equipped to de- liver 4,500 c. f. m., and driven by gasoline mo- tor.
Caustic soda.....	Balloon park.....	2 tons.	.....	Air Service Spec. No. 2101.
Chart-room trailer body....	Airship company.....	1	.....	See Air Service Spec. 2119.
	Balloon company.....	1	.....	Motor transport trailer (X-5), 4-ton, used as chassis.
	Balloon park.....	1	.....
	Balloon group headquar- ters.	2	.....
	Headquarters Corps Air Service.	1	.....

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Chests, complete with tools:				
Airship, instrument.....	Airship company.....	2		See note 36.
Airplane, maintenance.....	Airplane flight.....	3		See note 37.
	Air park.....	6		
Airplane, rigger.....	Airplane flight.....	2		See note 38.
	Air park.....	6		
Balloon bed equipment.....	Balloon company.....	1		See note 33. Carried on
	Balloon park.....	1		winch tender.
Balloon, instrument.....	Balloon company and	1		See note 39.
	balloon park.....			
Carpenter's.....	Per carpenter, not in-	1		See note 40.
	cluding assistant car-			
	penters.....			
Company reserve, car-	Airdrome company.....	2		See note 41.
penters.....	Permanent field.....		1	
Electrician.....	Air park.....	1		See note 43. For field serv-
				ice only.
Inflation.....	Balloon company.....	1		See note 44.
	Balloon park.....	1		See note 44.
	Airship company.....	4		
Maneuvering.....	Balloon company.....	1		See note 33 A. Carried on
	Balloon park.....	1		winch tender.
Pioneer.....	Airship company.....	1		See note 42.
	Balloon company.....	1		
	Balloon park.....	1		
Pipe fitters.....	Airdrome company.....	1		See note 45.
	Permanent stations.....		2	
	Airplane squadron.....		1	When machine shop truck
	Air park.....		1	is not furnished.
Plumbers.....	Airdrome company.....	1		See note 46.
	Permanent station.....		2	
Rigger, lighter-than-air.....	Balloon company and	1		See note 47.
	balloon park.....			
	Airship company.....	2		
Supply, lighter-than-air.....	Balloon company.....	1		See note 48.
	Balloon park.....	1		
	Airship company.....	1		
Compressor unit.....	Balloon park.....	1		See Air Service Spec.
Construction equipment:				(now being prepared).
Company reserve.....	Airdrome company.....	2		See note 49.
	Permanent field.....		1	
Erectors.....	Airdrome company.....	2		See note 50.
	Permanent field.....		1	
Airdrome.....	Airdrome company.....	4		See note 51.
	Permanent field.....		1	
Cylinders, hydrogen, com-	Balloon company.....	276	234	Carried along with balloon
plete with valve caps.....				company. Allotments to
	Airship company, equip-	1,600		stations according to
	ped with class "C" air-			their needs.
	ship.....			Carried along with airship
	Airship company, equip-	1,100		company and varies with
	ped with class "SST" air-			need and type of air-
	ship.....			ships.
	Per class "C" airship.....		4,800	Do.
	Per class "SST" air-		2,400	Charged cylinders are ob-
	ship.....			tained from refilling de-
				posits in amounts propor-
				tionate to the necessi-
				ties of the service and to
				the available supply.

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Drafting equipment.....	Airdrome company..... Air park..... Wing and group headquarters. Permanent fields..... Airship company..... Balloon company..... Balloon park..... do.....	1 1 1 1 1 1 1 1	1	See note 52. See note 52 A. Do. Do.
Ferro-silicon.....	do.....	2 tons.		Air Service Spec. 2102-A. See Air Service Spec. (being prepared).
Ferro-silicon generating plant.....	do.....	1		Air Service Spec. 3511 (three days' supply).
Gas (gallons).....	Per each 100 horsepower for each engine installed in all airplanes and airships in addition to airplane and airship tank capacity. Air park, 1,500 gals. Per light motor car.....	50 20		See motor transport specifications. Do.
	Per truck-ton including special trucks.	20		Do.
Oil (gallons).....	Per each 100 horsepower for each engine installed in all airplanes and airships in addition to airplane and airship tank capacity. Air park, 75 gals. Per light motor car.....	2.5 1		Air Service Spec. 3501 (three days' supply). See motor transport specifications. Do.
	Per truck ton, including special trucks.	1		Do.
Electrician's equipment.....	Airdrome company..... Air park.....	2 1		See note 53.
	Permanent stations.		2	
Field lighting truck body.....	Airplane squadron..... Airship company..... Airdrome company.....	1 1 1		See note 54.
Graders, road.....	do.....	4		8-foot blade.
	Permanent field.		1	
Hangars.....	Airplane section other than multiengine section. Multiengine section.....	1 1		Tent hangar, Type RE-7 Tent hangar, Type Bes-soneau. Do.
	Air park.....	3		
	Balloon company.....	1		See Air Service Spec. 2001-C.
	Balloon park.....	1		
Harrow, spike tooth.....	Airdrome company.....	6		3 bar, 8-foot chain connected.
	Permanent field.....		1	
Inflation net, airship.....	Airship company.....	1		See note 55.
Kits complete with tools:				
Motor overhaul.....	Airplane flight..... Air park..... Permanent field.....	1 8 8		See note 56.
	Airship company.....	1		
Sailmakers.....	Airplane squadron..... Air park..... Permanent field.....	1 1 4		See note 57.
			4	

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
Ladder, extension.....	Airship company.....	2		85-foot extension mounted on portable truck with elevating gear. See Navy specification "Telescope Airship Ladders" and U. S. Navy, Bureau of C. & E., drawing No. 883-897.
Machine-shop truck body..	Air Service headquarters, G. H. Q.	1		See note 58. Motor Transport truck (B), 8-ton used as chassis.
	Airplane squadron.....	1		
	Airship company.....	1		
Mooring, mast.....	Airship company.....	2		Field service only.
	Airship company.....	1		Vickers type, 100 feet high. Field service only.
Motor overhaul, equipment, sets.	Air park.....	1		See note 59.
Mowing machine.....	Permanent field.....		3	
	200-acre flying field.....		1	Horsedrawn, as issued by Quartermaster Corps.
Office equipment.....	All Air Service organizations.	1		See note 60.
Painters' equipment.....	Airdrome company.....	1		See note 61.
	Air park.....	1		
	Permanent field.....		2	
Parachutes:				
Airplane.....	Airplane section.....	(1)		See Air Service Spec. 40, 009-A.
	Permanent field.....		(1)	
Balloon—				
Single or basket.....	Airship company.....	(2)		See Air Service Spec. 2108.
	Balloon park.....	10		
	Balloon company.....	4		See Air Service Spec. 2215.
Photographic equipment other than aerial cameras, sets.	Photographic section.....	1		See notes 62, 62A, 62B, and 62C.
	Air park.....	1		See note 62 (Equipment).
	do.....	3		See note 62A (Supplies).
	do.....	6		See note 62B and C (Supplies.)
	Headquarters, Army Air Service.		1	See note 63.
	Air park.....	1		See note 64.
	Photographic section.....	2		See note 65. Motor Transport trailer.
Photographic truck body..	School of Aerial Photography.	2		
	Photographic section.....	2		See note 66. See note 96 for chassis.
Plows:				
	School of Aerial Photography.	2		
Gang, 3 share.....	Airdrome company.....	3		12 inch cut, complete for hauling.
Walking.....	do.....	1		12-inch cut.
Rooter.....	do.....	1		Reversible point.
Intermediate depot equipment, complete.	Repair depot.....		1	See note 67 (being prepared), and note 62.
Roller, road, 10-ton.....	Airdrome company.....	1		3-wheel, rear wheel fitted for spikes, motor driven.
	Permanent field.....		1	

¹ Number equal to personnel capacity of airplanes, with 20 per cent replacements.² Number equal to personnel capacity of airships, with 20 per cent replacements.

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perman- ent nature.	
Scarifier, 3-ton.....	Airdrome company.....	1		Steerable, 4-tine adjust- able.
Scrapers, drag.....	Permanent field.....		1	Steel, with wooden han- dles, 5 cubic feet capacity.
	Airdrome company.....	4		
School equipment, supply and maintenance.	Permanent field.....		1	See note 68.
	.....do.....	1		
School equipment, me- chanics, enlisted training sets.				Every 6 months to gradu- ate number listed under "Basis of allotment."
Armorer.....	312 students.....	1		See note 69.
Auto mechanics (chauf- feur).	566 students.....	1		See note 70.
Instrument repairers...	188 students.....	1		See note 71.
Lubrication testers.....	44 students.....	1		See note 72.
Machinists.....	152 students.....	1		See note 73.
Motor overhaul.....	1,395 students.....	1		See note 74.
Photographic.....	200 students.....	1		See note 75.
Radio.....	270 students.....	1		See note 76.
Set, portable, gasoline test- ing.	Permanent field.....		1	Specifications being pre- pared.
Set, portable oil testing.....	Air park.....	1		Do.
	Permanent field.....		1	
Sewing machines: Portable, single stitch.	Air park.....	1		See note 77.
	.....do.....	1		
Single stitch.....	Airship company.....	1		See note 78; field service only.
	Balloon company.....	1		
	Balloon park.....	1		
	Intermediate depot.....	1		
Double stitch.....	.....do.....		1	See note 79.
Stock, metal supply.....	Airplane squadron.....	1		See note 80.
	Air park.....	2		
Supplies, airplane, miscel- laneous.	Permanent field.....		4	See note 81.
	Airplane section.....	1		
Supply depot equipment, complete.	Air park.....	12		See note 82. As ordered by C. O.
	Permanent field.....		12	
Surveying equipment.....	Supply depot.....		1	See note 83.
	Airdrome company.....	1		
Tinsmith equipment.....	Permanent field.....		1	See note 84. When ma- chine-shop truck is not furnished.
	Airdrome company.....	1		
Truck, balloon tender.....	Air park.....	1		See M. T. Spec. (being prepared).
Water still.....	Balloon company and balloon park.....	1		Barnstead automatic; ca- pacity 1 gallon per hour for use on 110-volt circuit.
	Airplane squadron.....	1		
	Air park.....	1		
Woodworker, Universal....	Airship company.....	1		See note 85; field service only. Mounted on ma- chine-shop truck.
	Intermediate depot.....	1		

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Ladder, extension.....	Airship company.....	2		85-foot extension mounted on portable truck with elevating gear. See Navy specification "Telescope Airship Ladders" and U. S. Navy, Bureau of C. & R., drawing No. 883-897.
Machine-shop truck body..	Air Service headquarters, G. H. Q.	1		See note 58, Motor Transport truck (B), 8-ton used as chassis.
	Airplane squadron.....	1		
	Airship company.....	1		
	Air park.....	2		Field service only.
Mooring, mast.....	Airship company.....	1		Vickers type, 100 feet high. Field service only.
Motor overhaul, equipment, sets.	Air park.....	1		See note 59.
Mowing machine.....	Permanent field.....		3	
	200-acre flying field.....		1	Horsedrawn, as issued by Quartermaster Corps. See note 60.
Office equipment.....	All Air Service organizations.	1		
Painters' equipment.....	Airdrome company.....	1		See note 61.
	Air park.....	1		
	Permanent field.....		2	
Parachutes:				
Airplane.....	Airplane section.....	(1)		See Air Service Spec. 40, 009-A.
	Permanent field.....		(1)	
Balloon—				
Single or basket....	Airship company.....	(2)		See Air Service Spec. 2108.
	Balloon park.....	10		
	Balloon company.....	4		See Air Service Spec. 2115.
Photographic equipment other than aerial cameras, sets.	Photographic section.....	1		See notes 62, 62A, 62B, and 62C.
	Air park.....	1		See note 62 (Equipment).
	do.....	2		See note 62A (Supplies).
	do.....	6		See note 62B and C (Supplies.)
	Headquarters, Army Air Service.....		1	See note 63.
Photographic trailer body..	Air park.....	1		See note 64.
	Photographic section....	2		See note 65. Motor Transport trailer.
	School of Aerial Photography.....	2		
Photographic truck body..	Photographic section....	2		See note 66. See note 96 for chassis.
	School of Aerial Photography.....	2		
Plows:				
Gang, 3 share.....	Airdrome company.....	3		12 inch cut, complete for hauling.
Walking.....	do.....	1		12-inch cut.
Rooster.....	do.....	1		Reversible point.
Intermediate depot equipment, complete.	Repair depot.....		1	See note 67 (being prepared), and note 82.
Roller, road, 10-ton.....	Airdrome company.....	1		3-wheel, rear wheel fitted for spikes, motor driven.
	Permanent field.....		1	

¹ Number equal to personnel capacity of airplanes, with 20 per cent replacements.

² Number equal to personnel capacity of airships, with 20 per cent replacements.

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
Scarifier, 3-ton.....	Airdrome company.....	1		Steerable, 4-tine adjustable.
Scrapers, drag.....	Permanent field.....		1	Steel, with wooden handles, 5 cubic feet capacity.
	Airdrome company.....	4		
School equipment, supply and maintenance.	Permanent field.....		1	See note 68.
	.....do.....	1		
School equipment, mechanics, enlisted training sets.				Every 6 months to graduate number listed under "Basis of allotment."
Armorsers.....	312 students.....	1		See note 69.
Auto mechanics (chauffeur).	566 students.....	1		See note 70.
Instrument repairers.....	188 students.....	1		See note 71.
Lubrication testers.....	44 students.....	1		See note 72.
Machinists.....	152 students.....	1		See note 73.
Motor overhaul.....	1,395 students.....	1		See note 74.
Photographic.....	200 students.....	1		See note 75.
Radio.....	270 students.....	1		See note 76.
Set, portable, gasoline testing.	Permanent field.....		1	Specifications being prepared.
Set, portable oil testing.....	Air park.....	1		Do.
	Permanent field.....		1	
Sewing machines:	Air park.....	1		See note 77.
	.....do.....	1		
Portable, single stitch.....	Airship company.....	1		See note 78; field service only.
	Balloon company.....	1		
	Balloon park.....	1		
	Intermediate depot.....	1		
Double stitch.....	.....do.....		1	See note 79.
Stock, metal supply.....	Airplane squadron.....	1		See note 80.
	Air park.....	2		
Supplies, airplane, miscellaneous.	Permanent field.....		4	See note 81.
	Airplane section.....	1		
Supply depot equipment, complete.	Air park.....	12		See note 82. As ordered by C. O.
	Permanent field.....		12	
Supply depot.....	Supply depot.....		1	See note 83.
Surveying equipment.....	Airdrome company.....	1		See note 84. When machine-shop truck is not furnished.
Tinsmith equipment.....	Permanent field.....		1	
	Airdrome company.....	1		
	Air park.....	1		See M. T. Spec. (being prepared).
Truck, balloon tender.....	Balloon company and balloon park.....	1		Barnstead automatic; capacity 1 gallon per hour for use on 110-volt circuit.
Water still.....	Airplane squadron.....	1		See note 85; field service only. Mounted on machine-shop truck.
	Air park.....	1		
	Airship company.....	1		
Woodworker, Universal.....	Intermediate depot.....	1		

MOTOR TRANSPORT EQUIPMENT.

(See Motor Transport specifications for description of these cars.)

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	
Cars, medium, open.....	All wing headquarters.....	(a)		* 1 per each 4 Air Service officers assigned thereto.
	All group headquarters.....			
	Service park.....			
	Service depot headquarters.			
	All headquarters squadrons.			
	Air plane squadron.....		2	
	Air park.....		1	
	Airdrome company.....		1	
	Balloon company.....		1	
	Balloon park.....		1	
	Airship company.....		1	
Intermediate depot headquarters.		2		
Air Service permanent stations.		2		
Motorcycles, with side cars.	Air Service wing and group headquarters.	3		
	Service park headquarters.	3		
	Service depot headquarters.	3		
	Airplane flight.....	1		
	Headquarters airplane squadron.	1		
	Balloon and airship companies	3		
	Air park and balloon park.	4		
	Airdrome company and communication section.	3		
	Photographic section.....	2		
	Air Service permanent stations.		(a)	* 3 for headquarters, 1 per 75 of the total garrison strength less students.
Ambulances.....	Air Service group and depot headquarters.	1		When operating separately.
	Airplane squadron.....	1		
	Air Service permanent fields.		2	
	Other permanent stations.		1	
Trucks, cargo (truck-tons)..	All headquarters (except supply and intermediate depots) superior to squadrons, parks, and companies.	6		Type of truck as best adapted for local conditions and as issued by Motor Transport Corps.
	Intermediate and supply depot headquarters.	3		
	Permanent stations.....		(a)		* 1 truck-ton per 10 airplanes, 1 truck-ton per 100 total garrison strength.

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
Cannon, aircraft.....				Issued as prescribed under "Airplanes" and "Airships." See under same headings for types, caliber, etc.
Cartridges:				
Very pistol.....	Observation section.....	24		
	Pursuit section.....	18		
	Bombing section.....	18		
	Airship company.....	24		
Chest, armorers.....	Each airplane squadron.....	1		See note 86.
	Air park.....	1		
	Airship company.....	1		
	Permanent field.....		2	
Flares, airplane:				
Mark I.....	Airplane section.....	16		Issued only to multiengine organizations engaged in night work.
	Airship company.....	26		
Wing tip.....	Airplane section.....	100		
Guns, 37 mm., M. 1916 (complete with mounts). Spares for same, sets...	Balloon and airship companies.....	2		Issued to lighter-than-air organizations only.
	Per gun.....	1		As per lists published by Ordnance Department from time to time.
Repair sets, for same... Machine guns:	Per gun.....	1		Do.
Aircraft.....				Issued as prescribed under "Airplanes" and "Airships." See under same headings, for types, caliber, etc.
Spares for same, sets...	Per gun.....	1		As per lists published by Ordnance Department from time to time.
Ground, antiaircraft complete with tripod (or mount).	Air Service headquarters, G. H. Q.	3		Issued as per Ordnance Department specifications for current issue.
	Headquarters Army Air Service.	3		
	Corps Air Service headquarters.	3		
	Air Service wing.....	3		
	All group headquarters, except Balloon Group.	3		
	All squadrons except Supply and Repair.	3		
	Air park.....	3		
	Airdrome company.....	3		
	Balloon and airship companies.	12		
	Balloon park.....	12		
Spares, for same, sets...	Per gun.....	1		As per lists published by Ordnance Department.
Repair sets for same... Machines, loading, ammunition, machine gun.	Per gun.....			Do.
	Airplane squadron.....	2		As issued by Ordnance Department for types of machine guns in service.
	Airship company.....	2		
	Air park.....	2		
	Balloon company.....	2		
Machines, reloading, for caliber .30, gallery practice.	Permanent Air Service Fields equipped for gallery practice.		1	See War Department Special Regulations No. 31.
Pistols, Very.....	Observation section.....	4		Allow 20 per cent replacement per month in field service.
	Pursuit section.....	2		
	Biplane pursuit section.....	4		
	Bombing section.....	3		
	Airship company.....	4		

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS.

(Ordnance equipment.)

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Ammunition, rounds:				
Cannon, aircraft, explosive, 37 mm.	Per cannon	300		(In course of development.) Type and caliber of all aircraft guns are specified in notes pertaining to "Airplanes" and "Airships." Metallic links should be included where required.
Machine gun—				
Armor-piercing.....	Per gun on all airplanes and airships.	300		
Service.....	Per fixed gun on all observation and bombing airplanes. Per flexible gun on all airplanes and airships.	600		
	Per fixed gun on all pursuit and attack airplanes.	300		
	Per gun, antiaircraft, ground.	225		
	Per aviation and airship student.	1,800		
Incendiary.....	Per gun on all airplanes and airships.	300		Issued only as specifically directed.
	Per gun, ground, antiaircraft.	125		
Tracer.....	Per gun on all airplanes and airships.	300		
	Per gun, antiaircraft, ground.	75		
Rifle, automatic, service....	Per rifle.....	60		
Shotgun, 12-gauge.....	Each shotgun used for guard.	25		Monthly allowance.
	Pilot.....	25		Do.
	Observer.....	25		Do.
	Aviation student.....	100		Do.
	Airship student.....	100		
Bombs:				
Antisubmarine (Navy Department).	Each airplane section used with coast defense.	10		See under "Airplanes" and "Airships" for type of bombs to be carried by various types of airplanes and airships.
	Each airship company used with coast defense.	15		
Armor-piercing.....	Bombing section.....	10		
	Airship company.....	20		
Demolition.....	Observation section.....		32	Allotments of bombs entered in column "B" are peace-time allowances as prescribed by A. G. O. in letter to Director of Air Service, Dec. 23, 1919, subject "Aerial bomb requirements."
	Bombing section.....	5	128	
	Airship company.....	25		
Dummy.....	Observation student.....		25	
	Bombing student.....		109	
	Pursuit student.....		10	
	Aerostation student.....		50	
Fragmentation.....	Observation section.....	10	152	Allowances for "students" are ample for peace and war training.
	Pursuit section.....	5	76	
	Bombing section.....	10	443	
	Airship company.....	20		
Gas.....	Bombing section.....	10		
	Airship company.....	20		
Incendiary.....	Bombing section.....	10		
	Airship company.....	20		
Smoke.....	Bombing section.....	5		
	Multiengined section.....	5		
	Airship company.....	20		

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
Canon, aircraft.....	.....			Issued as prescribed under "Airplanes" and "Airships." See under same headings for types, caliber, etc.
Cartridges:				
Very pistol.....	Observation section.....	24		
	Pursuit section.....	18		
	Bombing section.....	18		
	Airship company.....	24		
Chest, armorers.....	Each airplane squadron.....	1		See note 86.
	Air park.....	1		
	Airship company.....	1		
	Permanent field.....		2	
Flares, airplane:				
Mark I.....	Airplane section.....	10		Issued only to multiengine organizations engaged in night work.
	Airship company.....	25		
Wing tip.....	Airplane section.....	100		
Guns, 37 mm., M. 1916 (complete with mounts).	Balloon and airship companies.....	2		Issued to lighter-than-air organizations only.
Spare for same, sets.....	Per gun.....	1		As per lists published by Ordnance Department from time to time.
Repair sets, for same.....	Per gun.....	1		Do.
Machine guns:				
Aircraft.....	.....			Issued as prescribed under "Airplanes" and "Airships." See under same headings, for types, caliber, etc.
Spare for same, sets.....	Per gun.....	1		As per lists published by Ordnance Department from time to time.
Ground, antiaircraft, complete with tripod (or mount).	Air Service headquarters, G. H. Q.	3		Issued as per Ordnance Department specifications for current issue.
	Headquarters Army Air Service.	3		
	Corps Air Service headquarters.	3		
	Air Service wing.....	3		
	All group headquarters, except Balloon Group.	3		
	All squadrons except Supply and Repair.	3		
	Air park.....	3		
	Airdrome company.....	3		
	Balloon and airship companies.	12		
	Balloon park.....	12		
Spare, for same, sets.....	Per gun.....	1		As per lists published by Ordnance Department. Do.
Repair sets for same.....	Per gun.....			
Machines, loading, ammunition, machine gun.	Airplane squadron.....	2		As issued by Ordnance Department for types of machine guns in service.
	Airship company.....	2		
	Air park.....	2		
	Balloon company.....	2		
Machines, reloading, for caliber .30, gallery practice.	Permanent Air Service Fields equipped for gallery practice.		1	See War Department Special Regulations No. 31.
Pistols, Very.....	Observation section.....	4		Allow 20 per cent replacement per month in field service.
	Pursuit section.....	2		
	Biplace pursuit section.....	4		
	Bombing section.....	3		
	Airship company.....	4		

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A	B	
Shop, mobile, repair section, Heavy Artillery ordnance.	Intermediate depot per 3 air parks.	1	For field service only. See Ordnance Handbook No. 1961, June 26, 1919. For larger depots, multiply by the multiples of 3.
Shotguns:				
Blot type, 12-gauge....	Air park.....	10	For guard.
Sporting type, 12-gauge.	Per each 6 flying officers and aviation or airship students.	1	For training purposes.
Tractors, 5-ton, ordnance..	Airdrome company.....	4	Issued in accordance with Ordnance Department Specifications for Air Service.
	Airplane group headquarters.	1	.....
	Airpark.....	1	.....
	Balloon park.....	1	.....
	Intermediate depot.....	1	.....
	Multieinged squadron..	1	.....
	Permanent fields.....		1	
Tripod, machine-gun, ground, antiaircraft, double mount.	Balloon company.....	6	.....
	Balloon park.....	6	.....
	Airship company.....	6	.....

For specifications and parts list of all Signal Corps equipment see "Equipment List and Standard Nomenclature of the Signal Corps," U. S. Army, edition No. 2.
(Signal Corps equipment.)

Airplane radio equipment:				
Set, airplane inter- phone, type SCR- 57-A.	Per airplane of observa- tion, bombing and bi- place pursuit squadrons. Air park.....	1	Only for air park supply- ing multieinged squad- ron.
Set, airplane inter- phone, type SCR-89.	Per airplane of multieinged squadron. Air park.....	10	.....
Set, airplane radio re- ceiving, type SCR-59.	Per airplane in each squadron. Air park.....	6	.....
Set, airplane radio telegraph transmit- ting, type SCR-73.	Per airplane in each squadron. Air park.....	1	.....
Set, airplane radio telephone, type SCR- 68.	Per airplane of observa- tion, bombing and multieinged squadrons. Air park.....	15	.....
	Monoplace pursuit, bi- place pursuit and bomb- ing squadrons, each. Air park.....	1	.....
	Observation squadron....	6	.....
	Multieinged squadron..	5	.....
Bags, tool service, Spec. 312 complete.	Airship company.....	4	.....
Chests, mechanic, Nos. 1 and 2.	Balloon company.....	4	.....
Kits, inspectors' pocket...	Airship company.....	1	.....
	Balloon company.....	1	.....
	Balloon park.....	1	.....
	Airship company.....	4	.....
	Balloon company.....	4	.....

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.
		A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively per- manent nature.	
Motor, type MO-1.....	Air park	3	.....
	Airplane squadron	1	.....
Reel, R. L. 9.....	Communications section.....	2	.....
Set, miscellaneous radio equipment and supplies: Heavier-than-air.....	Airplane squadron	1	.....	See note 88.
	Air park	1	.....	See note 90.
Lighter-than-air.....	Balloon park	1	.....	See note 91
Set, monocard, operators'	Headquarters Army Air Service.....	4	.....
	Air Service headquarters, G. H. Q.	4	.....
	Air park	3	.....
	Airship company.....	2	.....
	Balloon company.....	2	.....
	Balloon park.....	3	.....
	Communications section ..	2	.....
	All other Air Service or- ganizations.....	1	.....
Set, airplane interphone, type SCR-57.....	Airship company.....	1	.....
	Balloon company.....	1	.....
Set, radio receiving, SCR- 54-A, with amplifier BC-101.....	Airship company.....	1	.....
	Balloon company.....	1	.....
	Airplane squadron	1	.....
	Balloon park.....	1	.....
	Air park	2	.....
Set, radio telegraph, type, SCR-62.....	Airship company.....	1	.....
	Balloon company.....	1	.....
	Balloon park.....	1	.....
Set, radio telephone, type SCR-67-A.....	Airship company.....	1	.....
	Balloon company.....	1	.....
Set, radio telephone, type SCR-67.....	Bombing squadron.....	1	.....
	Air park	2	.....
Set, U. W. radio tele- graph, type SCR-79-A.....	Balloon company.....	1	.....
Set, U. W. radio tele- graph, type SCR-99.....	Headquarters Army Air Service.....	1	.....
	Air Service wing head- quarters.....	1	.....
	Biplane pursuit group headquarters.....	1	.....
	Corps observation group headquarters.....	1	.....
Set, telegraph, simplex, portable.....	Air park	3	.....
	Air Service headquarters, G. H. Q.	1	.....
	Each Air Service organi- zation larger than a wing.....	1	.....
	All Air Service wing and group headquarters, except corps observa- tion group.....	1	.....
	Divisional observation squadron.....	1	.....
Signal equipment for bal- loon or airship com- pany.....	Airship company.....	1	.....	See note 92.
	Balloon company.....	1	.....
	Balloon park.....	1	.....
Switchboards, type BD-9.....	Air Service headquarters, G. H. Q.	2	.....
	Headquarters Army Air Service.....	2	.....
	Balloon company.....	2	.....
	Airship company.....	1	.....
	Photo section.....	1	.....

ORGANIZATIONAL EQUIPMENT FOR AIR SERVICE ORGANIZATIONS—Continued.

Articles of equipment.	Basis of allotment.	Quantity allotted.		Remarks.	
		A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.		
Switchboards, type BD-11.	Air park	3	.....	
	Balloon park	1	.....	
	Balloon company	1	.....	
	Air Service headquarters, G. H. Q.	2	.....	
	Headquarters Army Air Service	3	.....	
	Communications section	2	.....	
	All other Air Service organizations except photo section	1	.....	
	Telephones, type EE-4....	Air Service headquarters, G. H. Q.	24	
		Headquarters Army Air Service	24	
		Communications section	24	
Balloon Park		16	.....	
Air park		12	.....	
Corps Air Service headquarters		12	.....	
Headquarters Divisional Air Service		12	.....	
Airship company		12	.....	
Balloon company		10	.....	Also 1 each EE66 and EE67.
All Air Service wing and group headquarters		8	.....	
Telephone installation and maintenance unit.	Intermediate depot headquarters	8	.....	
	Supply depot headquarters	8	.....	
	Airdrome company	6	.....	
	Air Service squadron	6	.....	
	Photo section	2	.....	
	Air Service headquarters, G. H. Q.	6	.....	See note 87.
	Headquarters Army Air Service	6	.....	
	All airplane wing and group headquarters	6	.....	
	Communications section	6	.....	
	Airdrome company	4	.....	
Testing cart with MO-1... Truck, radio operating, type SCR-108.	Headquarters Divisional Air Service	3	.....	
	Corps Air Service headquarters	2	.....	
	Air park	3	.....	
	Balloon park	1	.....	
	All Air Service squadrons except supply	1	.....	
	Communications section	1	.....	
	Army Air Service headquarters	1	.....	
	Airplane wing and group headquarters	1	.....	
	All airplane squadrons	1	.....	
	Airship company	1	.....	
Truck, radio repair, type SCR-88.	Balloon park	1	.....	
	Communications section	1	.....	
	Army Air Service headquarters	1	.....	
	Communications section	1	.....	

Notes for basic table of allowances, Air Service.

NOTE 1.

AERIAL CAMERA, HAND-OPERATED.

No.	Item.	Quantity.
1	Camera F-2 French, hand-operated, 18 by 24 cm. Plate 50 cm. (lens complete).....	1
2	Plate magazine in carrying cases, 18 by 24 cm.....	3
3	Plate magazine adapter.....	1
4	Field case with repair tools.....	1

NOTE 2.

AERIAL CAMERA, MAPPING, AUTOMATIC, 18 BY 24 CM.

No.	Item.	Quantity.
1	Camera K-1 automatic, film, 18 by 24 cm., with 50 cm. lens complete.....	1
2	Cone to take 10-inch lens in standard mount.....	1
3	Copper insulated wire.....	4
4	Electric motor, $\frac{1}{2}$ horse power.....	1
5	Empty film spool.....	1
6	Field case to contain unit except storage battery and spares.....	1
7	Filter mount.....	1
8	Filter, aero No. 1.....	1
9	Filter, aero No. 2.....	1
10	Flexible shafts, $1\frac{1}{2}$ feet long.....	1
11	Flexible shafts, 2 feet long.....	1
12	Flexible shafts, 3 feet long.....	1
13	Hose, rubber, 4-foot lengths, $\frac{1}{8}$ inch diameter.....	1
14	Instruction manual.....	2
15	Repair kit to every 10 cameras.....	1
16	Right-angle terminal.....	1
17	Speed control.....	1
18	Standard shaft terminal for electric motor.....	1
19	Storage battery, 12 volt (additional batteries can be drawn as needed).....	2
20	Suspension.....	1
21	Switch, single-pole, single-throw.....	1
22	Venturi tube.....	1

NOTE 3.

AERIAL CAMERA, MAPPING, AUTOMATIC, 6 BY 6 INCHES.

No.	Item.	Quantity.
1	Mapping, G. E. M. Automatic film, 6 by 6 inches, with 12-inch lens, complete.....	1
2	Take-up holders, film, extra.....	3
3	Filter, K-1, glass $6\frac{1}{2}$ by $6\frac{1}{2}$ inches.....	1
4	Filter, K-2, glass $6\frac{1}{2}$ by $6\frac{1}{2}$ inches.....	1
	Outfit:	
5	Developing, for G. E. M. film.....	1
6	Tanks.....	3
7	Reel.....	1
8	Drying rack.....	1

NOTE 4.

AIRPLANE COMPLETE—DAY BOMBARDMENT.

DH 4-B Standard equipped with one high-compression Liberty 12 motor (420 horsepower).

Gas capacity, 88 gallons.

Oil capacity, 9 gallons.

Crew, 2 men.

Weight, empty, 2,700 pounds.

Weight, fully loaded (without bombs), 3,920 pounds.

Dimensions:

Span, 42 feet 7 inches.

Length, 39 feet 11 inches.

Height, 9 feet 8 inches.

Chord and gap, 5 feet 6 inches.

Total area, 440.16 square feet.

Notes for basic table of allowances, Air Service—Continued.

NOTE 4—Continued.

ACCESSORIES.

Instruments:	Quantity.	Instruments:	Quantity.
Altimeters.....	2	Mark 1-A bomb sight.....	1
Air-pressure gauge.....	1	Model A flexible scarf mount.....	1
Ammeter and switch.....	1	Mark 1 wing tip flare holders.....	2
Air-speed indicators.....	2	Mark 1 airplane flare release.....	1
Compass.....	1	Mark V bomb release mechanism with adapter to take mark 11-B bombs.....	1
Clocks.....	2	Norman wind vane and ring sight.....	1
Heating and lighting switches.....	2	Trigger control (duplex).....	1
Instrument-board lights.....	3	5-inch ring and bead sight.....	1
Oil-pressure gauge.....	1	35-mm. signal pistols ("Verys").....	2
Tachometer.....	1	Radio:	
Thermometer-radiator.....	1	Wing and brackets complete for—	
Ordnance:		1 SCR-73 radio transmitting set.	
Akdis unit sight.....	1	1 SCR-50 radio receiving set.	
Bombs, Mark 11-B, 24-pound.....	8	1 SCR-57 interphone set.	
Double Nelson or C. C. fire-control gear.....	1	1 SCR-68 radio telephone.	
Gun mounts, fixed, for synchronized guns... 2		Photographic:	
Lewis machine guns, flexible, caliber .30 with 6 drums of 97 rounds each.....	2	1 suspension for standard serial camera.	
Lewis double gun yoke with jumelage.....	1		
Marlin machine guns, synchronized, caliber .30 and 500 rounds of ammunition in boxes. 2			

NOTE 5.

AIRPLANE, BOMBARDMENT, DAY, AIRPLANE SPARES, SETS MAINTAINED WITH SQUADRON.

DH-4-B airplane—1,000 flying hours.

Quantity.	Item.	Drawing No.
	Landing gear:	
2	Landing gear, complete with brace wires.....	21612
3	Set struts, complete, L.H. and R.H.....	21674
2	Streamline landing gear axle, front.....	16858
2	Streamline landing gear axle, rear.....	16859
5	Axles, complete with fairing.....	18600
10	Wheel assembly, with tires and tube.....	16862
10	Tubes, inner.....	41913
260	Feet cord, shock absorber.....	
	Tail skid:	
10	Skids, complete.....	110437
10	Shoes, tail skid.....	21722
	Empennage:	
2	Rudder, complete with horns and brace rods.....	1299
4	Elevators, complete with horns and brace rods.....	1285
2	Stabilizer, horizontal, complete.....	1288
2	Stabilizer, vertical, complete.....	1278
2	Brace wire assembly, horizontal stabilizer to vertical stabilizer.....	18000-X-19
2	Brace wire assembly, horizontal stabilizer to fuselage.....	18000-X-20
2	Brace wire assembly, horizontal stabilizer, top brace.....	18000-X-21
2	Brace wire assembly, horizontal stabilizer, bottom brace.....	18000-X-22
2	Tube assembly stabilizer brace.....	21441
	Wings:	
1	Set wings, with ailerons, interplane struts and brace wires and control cables.....	1830 1327 2448 18471
1	Set wings, lower, with fittings, control and ailerons.....	1830
1	Set lower ailerons, with masts.....	1327
1	Set wing skids (R.H. and L.H.).....	1327
1	Center section, with tank.....	12087
1	Set struts, center section.....	18941
	Controls:	
10	Sets control cable for elevators and ailerons.....	2448 18471
	Cooling system:	
5	Radiators, with cowl and shutter assembly.....	155-
12	Hose, 2 by 4 1/2 inches header to radiator.....	18922
6	Hose, 2 by 3 1/2 inches water pump to radiator pipe.....	18212-X-1
36	Clamp, 2 1/2 inches, Morgan hose.....	18212-X-2 19046

Notes for basic table of allowances, Air Service—Continued.

NOTE 5—Continued.

AIRPLANE, BOMBARDMENT, DAY, AIRPLANE SPARES, SETS MAINTAINED WITH SQUADRON—Continued.

Quantity.	Item.	Drawing No.
	Fuel system:	
2	Pumps, hand, air	18790
2	Strainers, main gas tank	21462
2	Caps, main gas tank filler	21457
2	Caps, gravity gas tank filler	18195
2	Valves, gas-tank shut-off	X-30-132
2	Cocks, gas-tank sediment	18290
2	Strainer and control cock assemblies	18872
	Connections, aircraft hose—	
50	$\frac{1}{8}$ inch inside diameter by $2\frac{1}{2}$ inches long	18706-X-1
50	$\frac{1}{8}$ inch inside diameter by $2\frac{1}{2}$ inches long	18706-X-2
50	$\frac{1}{8}$ inch inside diameter by $2\frac{1}{2}$ inches long	18706-X-3
50	$\frac{1}{8}$ inch inside diameter by $2\frac{1}{2}$ inches long	18706-X-4
75	Liners, hose, $\frac{3}{8}$ inch	X-30-112
75	Liners, hose, $\frac{3}{8}$ inch	X-30-113
75	Liners, hose, $\frac{3}{8}$ inch	X-30-133
50	Clamps, Sherman, hose, $\frac{3}{8}$ inch diameter by $\frac{1}{2}$ inch long	X-10-201
50	Clamps, Sherman, hose, $\frac{1}{2}$ inch diameter by $\frac{1}{2}$ inch long	X-10-202
	Oil line:	
25	Connections, $\frac{1}{4}$ -inch oil line hose, $\frac{3}{8}$ inch inside diameter by 3 inches long	X-10-154
25	Connections, $\frac{1}{4}$ -inch oil line hose, $\frac{3}{8}$ inch inside diameter by 2 inches long	X-10-155
	Propellers:	
15	Propellers	34555
	Instruments:	
2	Tachometers	0-K-32
2	Altimeters	0-K-584
2	Air speed indicators (without Petot tubes)	0-K-33
2	Compasses	41072
2	Thermometers (with capillaries)	030045
2	Oil pressure gauges	0-K-572
2	Air pressure gauges	0-K-57
2	Switches, ignition	12863

NOTE 6.

LIBERTY ENGINES.

SPARES REQUIRED FOR 20 ENGINES 1,000 FLYING HOURS.

Standard parts used on two or more airplanes or engines will have the classification number 04—i. e., the first two digits to left of assembly letter.

Part No.	Item.	Quantity.
1102C165	Cam shaft rocker arm cover	12
5104L005	Distributor assembly	10
5104L025	Distributor control connecting rod assembly	4
5104L060	High tension cable and tube assembly	2
5104L100	Ignition battery	5
5104L205	Ignition switch	4
5104L210	Voltage regulator	4
5104L215	Generator assembly	5
5104L225	Delco spare box	10
1104K005	Carburetor assembly "A"	4
1104K135	Carburetor float	10
1104K105	Carburetor main jets, 145	10
1104K105	Carburetor main jets, 150	10
1104K105	Carburetor main jets, 155	10
1104K220	Carburetor needle valve	5
1104K250	Carburetor secondary well assembly	5
1104K310	Carburetor to bracket alt. adj. link and clevis assembly	10
1102K355	Intake header assembly	4
1102K355	Intake header water outlet plug gasket	12
1102K395	Intake header gasket	20
	Intake header water outlet hose	20
	Intake header water outlet clamp	40
1102K410	Intake header water inlet elbow gasket	96
1102K415	Intake header water inlet elbow screw	42
1102P145	Crank case to cam shaft oil tube assembly	10
1102P185	Crank case to cam shaft oil tube connection	4
1102P190	Crank case to cam shaft oil tube connection gasket	10
1102K390	Intake header gaskets	96

Notes for basic table of allowances, Air Service—Continued.

NOTE 6—Continued.

STATES REQUIRED FOR 20 ENGINES 1,000 FLYING HOURS—continued.

Part No.	Item.	Quantity.
1102K380	Spark plugs, B. G.	96
	Spark plugs, gasket.	192
1102K375	Priming cup	6
	Cylinder water hose (inlet)	48
	Cylinder water hose clamp	96
	Cylinder water inlet manifold extension hose	12
	Cylinder water inlet manifold extension hose clamp	48
1102H130	Cylinder water inlet manifold	4
1102H140	Cylinder water inlet manifold extension, L. H.	2
1102H135	Cylinder water inlet manifold extension, R. H.	2
1102D050	Generator driving shaft assembly	3
1102P005	Oil pump assembly	3
1102P145	Oil pump screen and housing—upper assembly	5
1102P105	Oil pump screen and housing—lower assembly	5
1102P170	Oil pump screen and upper nut lock	15
1102P140	Oil pump body lower half cover gasket	20
1102P020	Oil pump tube connection	4
1102P050	Oil pump driving gear pin (short)	2
1102P055	Oil pump upper driven gear	4
1102P045	Oil pump upper driven gear pin (long)	2
1102P030	Oil pump lower driving gear	2
1102P035	Oil pump lower driven gear	2
1102P040	Oil pump separating plate	2
1102P085	Oil pressure relief valve seat	4
1102P100	Oil pump pressure relief valve	4
1102P095	Oil pump pressure relief valve spring	10
1102P090	Oil pump pressure relief valve guide	2
1102P190	Crank case oil tube union connection gasket	15
1102H005	Water pump assembly	2
1102H010	Water pump shaft with gear	2
1102H015	Water pump shaft ball bearing	2
1102H025	Water pump packing	6
1102H035	Water pump shaft gland spring	10
1102H030	Water pump shaft gland spring	4
1102H075	Water pump cover gasket	20
1102H060	Water pump impeller	10
1102H055	Water pump impeller key	4
1102H050	Water pump cover stud	6
1102B140	Propeller hub	2
1102B145	Propeller hub flange	2
1102B150	Propeller hub bolt	48
1102B155	Propeller hub nut (special)	96
1102B170	Propeller hub lock wire	20
1102B175	Propeller hub lock nut	2
1102B165	Propeller hub lock retaining nut	2
1102C210	Cam-shaft rocker lever R. H. assembly	12
215	Cam-shaft rocker lever L. H. assembly	12

BOLTS, NUTS, AND COTTERS FOR LIBERTY ENGINES.

Bolt $\frac{1}{2}$ —28 by $\frac{1}{4}$	25
Bolt $\frac{1}{2}$ —24 by $\frac{5}{16}$, special	15
Bolt $\frac{1}{2}$ —28 by $\frac{1}{2}$, stud	20
Bolt $\frac{1}{2}$ —24 by $\frac{1}{2}$, special	15
Bolt $\frac{1}{2}$ —28 by $\frac{1}{2}$	20
Bolt $\frac{1}{2}$ —28 by $1\frac{1}{4}$	20
Bolt $\frac{1}{2}$ —28 by $1\frac{1}{2}$	150
Bolt $\frac{3}{4}$ —24 by $\frac{1}{2}$	30
Bolt $\frac{1}{2}$ —28 by $\frac{1}{2}$	150
Bolt $\frac{3}{4}$ —24 by $2\frac{1}{2}$	50
Cotter pin, $\frac{3}{16}$ by $\frac{1}{2}$	150
Cotter pin $\frac{3}{16}$ by $\frac{1}{2}$	150
Cotter pin $\frac{3}{16}$ by $\frac{1}{2}$	200
Cotter pin $\frac{3}{16}$ by $\frac{1}{2}$	100
Cotter pin $\frac{3}{16}$ by $\frac{1}{2}$	100
Cotter pin $\frac{1}{8}$ by 1	25
Cotter pin $\frac{3}{16}$ by $\frac{1}{2}$	25
Cotter pin $\frac{3}{16}$ by 1	25
Lock wire	feet 26
Gaskets, $\frac{1}{2}$	25
Gaskets, $\frac{1}{4}$	25
Gaskets, $\frac{1}{2}$	50
Gaskets, $2\frac{1}{2}$	18
Gaskets, $\frac{1}{2}$	100

Notes for basic table of allowances, Air Service—Continued.

NOTE 6—Continued.

BOLTS, NUTS, AND COTTERS FOR LIBERTY ENGINES—continued.

Part No.	Item.	Quantity.
	Gaskets, $\frac{1}{2}$	25
	Screw, $\frac{1}{4}$ —20 by $\frac{1}{2}$, flat head.....	25
	Screw, 10—32 by $\frac{1}{2}$	25
	Nut, $\frac{1}{4}$ —24, standard.....	100
	Nut, $\frac{1}{4}$ —24, standard.....	50
	Nut, $\frac{1}{4}$ —20.....	50
	Nut, $\frac{1}{4}$ —24.....	100
	Nut, $\frac{1}{4}$ —20.....	15
	Nut, $\frac{1}{4}$ —28.....	55
	Nut, $\frac{1}{4}$ —24.....	25
	Nut, $\frac{1}{4}$ —1 $\frac{1}{2}$	12
	Nut, $\frac{1}{4}$ —20.....	10
	Clevis pin.....	25
	Washers, $\frac{1}{8}$	50
	Washers, $\frac{1}{8}$	100
	Washers, $\frac{1}{8}$	50
	Washers, $\frac{1}{8}$	25
	Bolt, $\frac{1}{4}$ —28 by $\frac{1}{2}$	12

NOTE 7.

AIRPLANE, BOMBARDMENT, NIGHT.

At present same as note 4.

NOTE 8.

AIRPLANE, BOMBARDMENT, NIGHT; AIRPLANE SPARES, SETS.

At present same as note 5.

NOTE 9.

AIRPLANE, BOMBARDMENT, NIGHT; ENGINE SPARES, SETS.

At present same as note 6.

NOTE 10.

MULTIENGINE AIRPLANE (STANDARD MARTIN BOMBER).

1. Standard Martin Bomber, complete, with 2 Liberty, 12 A, 400 horsepower engines.

Gasoline capacity, 200 gallons.

Oil, capacity, 16 gallons.

Weight, fully loaded, 9,863 pounds.

Weight, empty, 5,862 pounds.

Span, 71 feet 5 inches.

Length, 46 feet.

Height, 14 feet 7 inches.

Chord, 7 feet 10 inches.

Gap, 8 feet 6 inches.

Number of crew, 5 men.

Ordnance:

Lewis machine guns with scarf mounts and standard aircraft equipment..... 5

Photographic:

1 suspension for standard aerial camera.

Radio:

Set, airplane interphone, type SCR-89..... 1

Set, airplane radio telegraph transmitting, type SCR-73..... 1

Set, radio telephone, receiving and transmitting, type SCR-68..... 1

Notes for basic table of allowances, Air Service—Continued.

NOTE 6—Continued.

STATES REQUIRED FOR 30 ENGINES 1,000 FLYING HOURS—continued.

Part No.	Item.	Quantity.
1102K280	Spark plugs, B. G.	96
	Spark plugs, gasket.	192
1102K275	Priming cup	6
	Cylinder water hose (inlet)	48
	Cylinder water hose clamp	96
	Cylinder water inlet manifold extension hose	12
	Cylinder water inlet manifold extension hose clamp	48
1102H120	Cylinder water inlet manifold	4
1102H140	Cylinder water inlet manifold extension, L. H.	2
1102H125	Cylinder water inlet manifold extension, R. H.	2
1102D050	Generator driving shaft assembly	3
1102P006	Oil pump assembly	3
1102P145	Oil pump screen and housing—upper assembly	5
1102P105	Oil pump screen and housing—lower assembly	5
1102P170	Oil pump screen and upper nut lock	15
1102P140	Oil pump body lower half cover gasket	20
1102P020	Oil pump tube connection	4
1102P050	Oil pump driving gear pin (short)	2
1102P055	Oil pump upper driven gear	4
1102P045	Oil pump upper driven gear pin (long)	2
1102P030	Oil pump lower driven gear	2
1102P035	Oil pump lower driven gear	2
1102P040	Oil pump separating plate	2
1102P085	Oil pressure relief valve seat	4
1102P109	Oil pump pressure relief valve	4
1102P065	Oil pump pressure relief valve spring	10
1102P090	Oil pump pressure relief valve guide	2
1102P190	Crank case oil tube union connection gasket	15
1102H005	Water pump assembly	2
1102H010	Water pump shaft with gear	2
1102H015	Water pump shaft ball bearing	2
1102H025	Water pump packing	6
1102H035	Water pump shaft gland spring	10
1102H030	Water pump shaft gland spring	4
1102H075	Water pump cover gasket	20
1102H090	Water pump impeller	10
1102H155	Water pump impeller key	4
1102H060	Water pump cover stud	6
1102B140	Propeller hub	2
1102B145	Propeller hub flange	2
1102B150	Propeller hub bolt	48
1102B155	Propeller hub nut (special)	96
1102B170	Propeller hub lock wire	20
1102B175	Propeller hub lock nut	2
1102B165	Propeller hub lock retaining nut	2
1102C210	Cam-shaft rocker lever R. H. assembly	12
215	Cam-shaft rocker lever L. H. assembly	12

BOLTS, NUTS, AND COTTERS FOR LIBERTY ENGINES.

Bolt 1/4-28 by 1/2	25
Bolt 1/4-24 by 5/8, special	15
Bolt 1/4-28 by 1, stud	20
Bolt 1/4-24 by 4/8, special	15
Bolt 1/4-28 by 1	20
Bolt 1/4-28 by 1 1/2	20
Bolt 1/4-28 by 1 1/2	150
Bolt 1/4-24 by 1 1/2	30
Bolt 1/4-28 by 1 1/2	150
Bolt 1/4-24 by 2 1/2	50
Cotter pin 1/8 by 1/2	150
Cotter pin 1/8 by 3/4	150
Cotter pin 1/8 by 1	200
Cotter pin 1/8 by 1 1/4	100
Cotter pin 1/8 by 1 1/2	100
Cotter pin 1/8 by 1 3/4	25
Cotter pin 1/8 by 1 3/4	25
Cotter pin 1/8 by 1 3/4	25
Lock wire	feet 26
Gaskets, 1/2	25
Gaskets, 1 1/2	25
Gaskets, 1 1/2	50
Gaskets, 2 1/2	18
Gaskets, 1 1/2	100

Notes for basic table of allowances, Air Service—Continued.

NOTE 6—Continued.

BOLTS, NUTS, AND COTTERS FOR LIBERTY ENGINES—continued.

Part No.	Item.	Quantity.
	Gaskets, $\frac{1}{2}$	25
	Screw, $\frac{1}{2}$ —20 by $\frac{1}{2}$, flat head.....	25
	Screw, 10—32 by $\frac{1}{2}$	25
	Nut, $\frac{1}{2}$ —24, standard.....	100
	Nut, $\frac{1}{2}$ —24, standard.....	50
	Nut, $\frac{1}{2}$ —20.....	50
	Nut, $\frac{1}{2}$ —24.....	100
	Nut, $\frac{1}{2}$ —20.....	15
	Nut, $\frac{1}{2}$ —28.....	55
	Nut, $\frac{1}{2}$ —24.....	25
	Nut, $\frac{1}{2}$ —1 $\frac{1}{2}$	12
	Nut, $\frac{1}{2}$ —20.....	10
	Clevis pin.....	25
	Washers, $\frac{1}{2}$	50
	Washers, $\frac{1}{2}$	100
	Washers, $\frac{1}{2}$	50
	Washers, $\frac{1}{2}$	25
	Bolt, $\frac{1}{2}$ —28 by $\frac{1}{2}$	12

NOTE 7.

AIRPLANE, BOMBARDMENT, NIGHT.

At present same as note 4.

NOTE 8.

AIRPLANE, BOMBARDMENT, NIGHT; AIRPLANE SPARES, SETS.

At present same as note 5.

NOTE 9.

AIRPLANE, BOMBARDMENT, NIGHT; ENGINE SPARES, SETS.

At present same as note 6.

NOTE 10.

MULTIENGINE AIRPLANE (STANDARD MARTIN BOMBER).

1. Standard Martin Bomber, complete, with 2 Liberty, 12 A, 400 horsepower engines.

Gasoline capacity, 200 gallons.

Oil, capacity, 16 gallons.

Weight, fully loaded, 9,663 pounds.

Weight, empty, 5,862 pounds.

Span, 71 feet 5 inches.

Length, 46 feet.

Height, 14 feet 7 inches.

Chord, 7 feet 10 inches.

Gap, 8 feet 6 inches.

Number of crew, 5 men.

Ordnance:

Lewis machine guns with scarf mounts and standard aircraft equipment..... 5

Photographic:

1 suspension for standard aerial camera.

Radio:

Set, airplane interphone, type SCR-89..... 1

Set, airplane radio telegraph transmitting, type SCR-73..... 1

Set, radio telephone, receiving and transmitting, type SCR-68..... 1

Notes for basic table of allowances. Air Service—Continued.

NOTE 11.

MULTIENGINE AIRPLANE, SPARE PARTS FOR SAME (MARTIN BOMBERS), SETS.

Item.	Per plane.	Per 100 planes.	Item.	Per plane.	Per 100 planes.
WINGS.			COMPLETE LANDING GEAR—CON.		
Upper center (less gravity and			Attaching parts:		
Narrie tanks).....	1	32	Bolt.....	8	384
Upper left.....	1	32	Bolt.....	4	192
Upper right.....	1	32	Bolt.....	4	192
Lower outer left.....	1	48	Bolt.....	4	192
Lower outer right.....	1	48	Bolt.....	4	192
Lower inner left.....	1	48	Washer.....	4	192
Lower inner right.....	1	48	Washer.....	10	480
Wing hinge pins.....	4	192	Nut.....	12	576
Wing hinge pins.....	8	320	Nut.....	4	192
Cotter.....	12	512	Nut.....	4	192
ALERONS.			Nut.....	2	96
Upper left.....	1	32	Nut.....	4	192
Upper right.....	1	32	Cotter.....	12	576
Lower left.....	1	48	Cotter.....	4	192
Lower right.....	1	48	Cotter.....	8	384
Hinge pins.....	24	960	Wood screws.....	8	384
Cotter.....	24	960	Wood screws.....	26	1,248
WING SKID.			LANDING PARTS.		
Wing skid.....	2	96	Vertical tubes, center section.....	1	48
Wing skid V strut.....	1	48	Vertical tubes, center section.....	1	48
Wing skid V strut.....	1	48	Vertical tubes and wing section.....	2	96
Stud, center.....	2	96	Bracing tubes, center section.....	2	96
Stud, upper.....	2	96	Bracing tubes, wing section.....	2	96
Standard parts:			Streamline, outer.....	2	96
Bolt.....	4	192	Streamline, inner left.....	1	48
Nut.....	4	192	Streamline, inner right.....	1	48
Nut.....	4	192	Wheel.....	4	200
Cotter.....	4	192	Spool.....	4	200
Cotter.....	4	192	elastic cord, 28 feet.....		200
INTERPLANE STREAMLINE WOOD STRUTS.			Wrapping wire.....		200
Complete strut, front, inner.....	2	80	Propeller.....	2	200
Complete strut, rear, inner.....	2	80	INSTRUMENT BOARD.		
Complete strut, front, outer.....	2	80	Pilot's cock pit.....	1	12
Complete strut, rear, outer.....	2	80	Front cock pit.....	1	12
Eye bolt.....	8	320	COMPLETE NACELLE WITHOUT ENGINE.		
Eye bolt.....	8	320	Nacelle, left.....	1	24
Washer.....	16	640	Nacelle, right.....	1	24
Nut.....	16	640	Attaching parts:		
Cotter.....	16	640	Bolt.....	32	768
COMPLETE LANDING GEAR.			Bolt.....	16	384
Axle.....	2	96	Nut.....	16	384
Vertical tubes, center section.....	1	48	Nut.....	32	768
Vertical tubes, center section.....	1	48	Cotter.....	16	384
Vertical tubes, wing section.....	2	96	Cotter.....	32	768
Spacer tubes.....	1	48	TANKS (LESS GASOLINE LEVEL GAUGES).		
Spacer tubes.....	1	48	Front.....	1	24
Bracing tubes.....	2	96	Rear, left.....	1	24
Center section.....	2	96	Rear, right.....	1	24
Bracing tubes, wing section.....	2	96	Narrie.....	2	48
Cross cables.....	4	192	Gravity, left, less gauges.....	1	24
Wheels.....	4	192	Gravity, right, less gauges.....	1	24
Streamline, outer.....	2	96	Oil tank.....	2	48
Streamline, inner left.....	1	48	Tank strap.....	1	24
Streamline, inner right.....	1	48	Tank strap.....	1	24
Mud guards.....	2	96	Tank strap.....	6	144
Fitting.....	2	96	Washer.....	9	216
Spool.....	4	192	Nut.....	18	432
elastic cord.....	4	192	RADIATOR.		
Round wire.....	2	96	Radiator.....	2	84
Eyebolt.....	4	192	SEATS.		
Eyebolt.....	2	96	Pilot.....	1	12
Block.....	4	192	Observer.....	1	12
Filler blocks.....	2	96	Front gunner.....	1	12
Wrapping wire.....	8	384			

Notes for basic table of allowances, Air Service—Continued.

NOTE 11—Continued.

MULTIENGINE AIRPLANE, SPARE PARTS FOR SAME (MARTIN BOMBERS), SETS—Continued.

Item.	Per plane.	Per 100 planes.	Item.	Per plane.	Per 100 planes.
SEATS—continued.			CONTROLS—continued.		
Rear gunner.....	1	12	Pulley and bracket, left.....	1	40
Safety belt, front and rear gunner.....	2	24	Pulley and bracket, right.....	1	40
Safety belt, pilot and observer.....	2	24	Pulley and bracket.....	2	80
Anchor.....	1	12	Standard parts:		
Anchor.....	1	12	Bolt.....	2	80
Pilot's cushion.....	1	12	Bolt.....	4	160
Clip.....	2	24	Washer.....	6	240
Plate.....	2	24	Nut.....	6	240
Fitting.....	1	12	Cotter.....	6	240
Fitting.....	1	12			
Bolts, special.....	1	12	EMPENNAGE.		
Bolt, special.....	1	12	Stabilizer.....	1	12
Bolt, special.....	1	12	Streamline.....	1	12
Bolt, special.....	1	12	Rear brace.....	2	24
Plate.....	2	24	Diagonal brace, left.....	1	12
Plate.....	2	24	Diagonal brace, right.....	1	12
Fittings.....	1	12	Front brace.....	2	24
Fittings.....	1	12	Link assembly.....	1	12
Standard parts:			Cable.....	4	48
Bolt.....	5	60	Cable.....	2	24
Bolt.....	2	24	Round wire.....	2	24
Bolt.....	2	24	Standard parts:		
Washer.....	3	36	Pin.....	2	24
Washer.....	2	24	Bolt.....	2	24
Nut.....	4	48	Bolt.....	2	24
Nut.....	2	24	Bolt.....	2	24
Nut.....	5	60	Bolt.....	8	96
Nut.....	2	24	Bolt.....	2	24
Cotter.....	6	72	Bolt.....	4	48
Cotter.....	2	24	Washer.....	4	48
			Nut.....	4	48
CONTROLS.			Nut.....	2	24
Control column.....	1	20	Nut.....	10	120
Parts to attach:			Nut.....	4	48
Bolt.....	4	80	Cotter.....	6	72
Washer.....	4	80	Cotter.....	8	96
Nut.....	4	80	Cotter.....	2	24
Cotter.....	4	80	Cotter.....	4	48
Bracket and pulley, left.....	1	20	Wood screw.....	4	48
Bracket and pulley, right.....	1	20	Elevator.....	1	12
Bracket and pulley, left.....	1	20	Standard parts:		
Bracket and pulley, right.....	1	20	Bolt.....	18	216
Standard parts:			Nut.....	18	216
Bolt.....	3	60	Cotter.....	18	216
Bolt.....	6	120	Rudder, left-hand.....	1	12
Bolt.....	2	40	Rudder, right-hand.....	1	12
Washer.....	11	220	Tie cable.....	1	12
Nut.....	11	220	Standard parts:		
Cotter.....	11	220	Bolt.....	12	144
			Nut.....	12	144
TORQUE TUBE AND MAST.			Cotter.....	12	144
Torque tube and mast.....	1	20	Fin, left.....	1	12
Link.....	1	20	Fin, right.....	1	12
Standard parts:			Cable.....	2	24
Pin.....	2	40	Cable.....	2	24
Cotter.....	2	40	Cable.....	2	24
			Cable.....	2	24
CONTROLS.			Standard parts:		
Bracket and pulley, left.....	2	40	Bolt.....	2	24
Bracket and pulley, right.....	2	40	Bolt.....	2	24
Standard parts:			Nut.....	4	48
Bolt.....	8	160	Cotter.....	4	48
Nut.....	8	160			
Cotter.....	8	160	TAIL SKID.		
Rudder control.....	1	40	Tail skid.....	1	100
Standard parts:			Shock absorber.....	2	400
Bolt.....	2	80	Rebound rubber.....	2	200
Washer.....	2	80	Eyebolt.....	1	100
Nut.....	2	80	Bearing pin.....	1	100
Cotter.....	2	80	Fulcrum bearing and tube.....	1	100
Wood screw.....	2	80	Washer.....	1	100
			Nut.....	1	100
			Collar.....	1	100

Notes for basic table of allowances, Air Service—Continued.

NOTE 11—Continued.

MULTIENGINE AIRPLANE, SPARE PARTS FOR SAME (MARTIN BOMBERS), SETS—Continued.

Item.	Per plane.	Per 100 planes.	Item.	Per plane.	Per 100 planes.
TAIL SKID—continued.			STRUTS WITH STREAMLINES—CON.		
Wrapping wire.....	8	800	Fuselage to nacelle.....	2	80
Standard parts:			Streamline.....	4	168
Bolt.....	1	100	Streamline.....	1	40
Washer.....	1	100	Streamline.....	1	40
Nut.....	1	100	Streamline.....	1	40
Pin.....	1	100	Streamline.....	1	40
Cotter.....	1	100	Brace, rear, inner left.....	1	40
Cotter.....	1	100	Brace, rear, inner right.....	1	40
Cotter.....	1	100	Brace, rear, outer left.....	1	40
CABLES.			Brace, rear, outer right.....	1	40
Cables.....	4	80	Brace, front.....	2	80
Cables.....	4	80	Brace, front.....	2	80
Cables.....	4	80	Horizontal strut.....	4	160
Cables.....	4	80	Fuselage to upper wing front.....	1	40
Cables.....	4	80	Strut-wing.....	1	40
Cables.....	4	80	Strut-wing.....	1	40
Cables.....	2	40	Strut-wing.....	1	40
Cables.....	2	40	Attaching parts:		
Cables.....	2	40	Machine screw.....	20	800
Cables.....	2	40	Machine screw.....	56	2,400
Cables.....	2	40	Washer.....	152	7,000
Cables.....	2	40	Nut.....	76	2,500
Cables.....	2	40	Eyebolt.....	6	256
Cables.....	2	40	Eyebolt.....	6	256
Cables.....	4	80	Eyebolt.....	4	160
Cables.....	2	40	Washer.....	16	640
Cables.....	4	80	Nut.....	16	640
Cables.....	2	40	Cotter.....	16	640
Cables.....	4	80	Bolt.....	12	512
Cables.....	2	40	Bolt.....	6	256
Cables.....	4	80	Bolt.....	6	256
Cables.....	2	40	Bolt.....	4	160
Cables.....	2	40	Washer.....	12	512
Cables.....	2	40	Nut.....	20	800
BOMB RELEASE.			Nut.....	4	160
Bomb release and control without trap and bombs.....	1	12	Cotter.....	20	800
STRUTS WITH STREAMLINES.			Cotter.....	4	160
Front, outer left.....	1	40	Universal line.....	2	80
Front, outer right.....	1	40	Link.....	4	160
Front, inner left.....	1	40	Eyebolt.....	2	80
Front, inner right.....	1	40	Washer.....	2	80
Rear, inner left.....	1	40	Bolt.....	2	80
Rear, inner right.....	1	40	Attaching parts:		
Rear, outer left.....	1	40	Bolt.....	2	80
Rear, outer right.....	1	40	Bolt.....	2	80
Fuselage to nacelle.....	2	80	Washer.....	2	80
			Washer.....	2	80
			Washer.....	2	80
			Nut.....	6	256
			Nut.....	2	80
			Cotter.....	8	320

NOTE 12.

MULTIENGINE AIRPLANE, ENGINE SPARES, SETS.

At present same as note 5.

NOTE 13.

AIRPLANE, OBSERVATION, DAY.

At present same as note 4, except no bombs are carried.

NOTE 14.

AIRPLANE, OBSERVATION, DAY, AIRPLANE SPARES, SETS.

At present same as note 5.

Notes for basic table of allowances, Air Service—Continued.

NOTE 15.

AIRPLANE, OBSERVATION, DAY, ENGINE SPARES, SETS.

At present; same as note 6.

NOTE 16.

AIRPLANE, OBSERVATION, NIGHT.

At present same as note 4, except no bombs are carried.

NOTE 17.

AIRPLANE, OBSERVATION, NIGHT, AIRPLANE SPARES.

At present same as note 5.

NOTE 18.

AIRPLANE, OBSERVATION, NIGHT, ENGINE SPARES, SETS.

At present same as note 6.

NOTE 19.

AIRPLANE, PURSUIT, MONOPLACE.

(SE 5-A and Spad XIII until supply is exhausted, and to be superseded by Thomas Morse MB 3, Wright, H-300 H. P. and Orenco, 300 H. P. Wright, H.)

Standard Spad XIII, complete with Hispano-Suiza 180-horsepower engine, 1 per section.

Gas capacity, 209 pounds, 32.5 gallons.

Oil capacity, 42 pounds, 5.25 gallons.

Crew.

Weight, empty, 1,325 pounds.

Weight, fully loaded, 1,888 pounds.

Span, 27 feet 1 inch.

Length (over-all), 20 feet 4 inches.

Height, 7 feet 7 inches.

Chord (upper), 4 feet 11 inches; (lower), 4 feet 6 inches.

Gap (inner), 3 feet 10½ inches; (outer), 3 feet 8 inches.

ACCESSORIES.

Instruments:	Quantity.	Ordnance:	Quantity.
Air-pressure gauge (French).....	1	Bomb rack, Mark XVIII.....	1
Air-speed indicator.....	1	Double ammunition box (1,000 rounds)....	1
Altimeter (French).....	1	Ring and bead sight 2½ inches or ¼ inch....	1
Compass (French).....	1	Spad synchronizing gears.....	2
Oil-pressure gauge (French).....	1	Shell box (pad), right hand.....	1
Radiator thermometer.....	1	Telescopic sight.....	1
Tachometer gauge.....	1	Vickers guns, rigid.....	2
Watch (French).....	1		

NOTE 20.

AIRPLANE, PURSUIT, MONOPLACE.

Spad, 1,000 flying hours.

ITEM.	Quantity.	ITEM—continued.	Quantity.
Ailerons:		Struts—Continued.	
Pin, hinge, aileron.....	3	Connecting rod spacer, half struts.....	2
Landing gear:		Tank systems:	
Landing gear assembly, complete.....	1	Tank assembly, main gasoline.....	1
Axle assembly, landing gear.....	1	Plug, filling, main gas tank.....	1
Wheel assembly, landing gear.....	2	Strainer, main gas tank.....	1
Casing, landing gear wheel tire.....	1	Tank assembly, gravity.....	1
Tube, landing gear wheel tire.....	2	Plug, filling, gravity gas tank assembly....	1
Cap, axle, end.....	2	Valve, gasoline shut-off.....	1
Collar, axle.....	2	Oil tank assembly.....	1
Radiator:		Connection, oil line hose.....	2
Radiator, complete.....	1	Connection, oil line hose.....	2
Struts:		Tail skid:	
Strut assembly, outer front.....	2	Skid assembly, tail.....	1
Strut assembly, outer rear.....	2	Shoe tail skid.....	2
Half-strut, upper front.....	2	Wind shield:	
Half-strut, lower front.....	2	Wind shield assembly.....	1
Half-strut, upper rear.....	2		
Half-strut, lower rear.....	2		

Notes for basic table of allowances, Air Service—Continued.

NOTE 21.

WRIGHT ENGINE MODEL A-E-I.

SPARES REQUIRED FOR 20 ENGINES 1,000 FLYING HOURS.

Standard parts used on two or more airplanes or engines will have the classification number 04—i. e., the first two digits to left of assembly letter.

Part No.	Item.	Quantity.
3102B080	Propeller hub assembly	2
3102B085	Propeller hub	2
3102B090	Propeller hub flange	3
3102B095	Propeller hub nut, inner	6
3102B105	Propeller hub bolt	48
3102B110	Propeller hub bolt nut	96
3102B045	Propeller hub key	4
3102B050	Propeller hub key screw	24
3102B085	Propeller hub nut, inner	4
3102H005	Water pump assembly	2
3102H020	Water pump shaft and impeller assembly	3
3102H045	Water pump cover screw	48
3102H050	Water pump cover gasket	40
3102H040	Water pump bushing	24
	Water pump backing	feet
3102H010	Water pump body	2
3102H025	Water pump thrust button	8
3102H065	Water pump gland nut	4
3102H015	Water pump cover	2
3102H100	Manifold water pipe nozzle	12
3102J005	Oil pressure pump assembly	4
3102J010	Oil pressure pump body	4
3102J020	Oil pressure pump shaft	4
3102J015	Oil pressure pump vane	24
3102J025	Oil pressure pump spring	48
	Oil pressure pump plug	8
3102J070	Oil pressure relief valve assembly	2
3102J075	Oil pressure relief body	3
	Oil pressure relief cap	3
3102J080	Oil pressure relief spring	12
3102J085	Oil pressure relief plunger	6
3102H080	Water pump bracket	3
3102H055	Water pump gasket	24
3102J045	Oil filter screen assembly	3
3102J050	Oil filter screen cap	1
	Oil filter screen screws	12
	Oil pump drive nut	4
3102J100	Oil gear pump assembly	2
3102J105	Oil gear pump assembly body	2
3102J110	Oil gear pump assembly cover	3
3102J115	Oil gear pump assembly gear	4
3102J120	Oil gear pump assembly Idler gear	2
3102E195	Air pressure pump assembly	4
	Brazing union nut	8
	Brazing union nut nozzle	8
3102E255	Air pump valve assembly	6
	Air pump cover	2
	Air pump cover gasket	18
3102E210	Air pump tappet spring	12
3102E205	Air pump tappet	6
3102E235	Air pump plunger washer	24
3102E245	Air pump plunger leather	24
3102E240	Air pump plunger nut	12
	Cotter pin	48
	Round-head rivet	40
	Washer	40
3102E200	Air-pump body	2
3102E225	Air-pump valve spring	6
3102E220	Air-pump plunger buffer	12
3102E215	Air-pump tappet spring retainer washer	12
3102E280	Engine tachometer drive-shaft bushing	2
3102E275	Engine tachometer drive-shaft	4
3102E285	Engine tachometer drive-shaft coupling	6
3102E290	Engine tachometer drive-shaft coupling pin	10
3102M015	Magneto coupling assembly	8
3102M010	Magneto support	8
	Cotter pin	14
3102M100	Dowel	28
	Machine screw	8
3102M90	Magneto B. B. nut-lock spring	8
	Stud	8
	Nut plain	12
	Washer	24
3102M025	Hess. Bright B. B.	8

Notes for basic table of allowances, Air Service—Continued.

NOTE 21—Continued.

WRIGHT ENGINE MODEL A-E-I—Continued.

SPARES REQUIRED FOR 20 ENGINES 1,000 FLYING HOURS—continued.

Part No.	Item.	Quantity.
3102M30	Hess. Bright B. B.	8
3102M35	Magneto pinion	8
	Magneto coupling gear key	12
3102L010	Magneto pinion nut	8
	Magneto pinion B. B. nut	8
3102M085	Magneto drive-shaft gear (24 teeth)	8
3102M040	Magneto pinion shaft	4
3102H015	Ignition wire manifold assembly	4
	Ignition wire, 58 feet. each	4
	Ignition wire terminals	90
	Wire manifold and tube	8
	Ignition wire manifold	3
	Ignition wire ring	24
	Ignition wire ring	120
	Ignition wire washers	6
3104L015	Dixie magneto, R. H. 800	5
3104L020	Dixie magneto, L. H. 800	5
	Spark plug, B. G. or Mosler	80
	Admission manifold flange assembly	3
	Cam-shaft oil tube and flange assembly	12
	Admission manifold T-assembly	4
	Gasket, $\frac{11}{16}$ -inch inside diameter by $\frac{13}{16}$ -inch outside diameter	28
	6mm. nut	96
	6 mm. by 1 P. by $1\frac{1}{8}$ -inch stud	28
	12 mm. core plug	4
	12 mm. core plug	12
	8 mm. by 1.25 P. slotted nut	12
	Hose connection for $\frac{3}{8}$ -inch inside diameter hose	6
	Breather tube gasket, 14 inches inside diameter by $1\frac{1}{2}$ -inch outside diameter	6
	Crank-case stud, 8 m/m. by 1.25 P. by $1\frac{1}{8}$	12
	Intake manifold stud, 8 mm. by 1.25 P. by $1\frac{1}{8}$	12
	Fillister head screw, 14 by 24 by $\frac{1}{8}$ -inch	36
	Dowel pin, 0.158 by $\frac{1}{2}$ inch	8
	Gasket, $\frac{11}{16}$ inside diameter by $\frac{13}{16}$ inch outside diameter	24
	Oil-pump connection for $\frac{3}{8}$ -inch hose	8
	Crank-case hose connection	6
	Gasket, $\frac{3}{8}$ inch inside diameter by $\frac{13}{16}$ inch outside diameter	24
	Plug, $\frac{3}{8}$ inch by 18 P.	6
	Crank-case hose connection and oil thermometer body	12
	Breather tube assembly	4
J145	Oil pump nipple	4
J150	Oil pipe nipple packing nut	4
J155	Oil pipe flange gasket	24
	Cylinder cover gasket	24
	Cylinder cover screw	96
	Carburetor, model "E" NE-D-4	4
	Carburetor, model "I" NA-D-4	4
3104K270	Idle needle valve	6
3104K415	Idle tube assembly	12
3104K370	Float with lever assembly	6
3104K340	Needle valve assembly	6
3104K300	Gasoline strainer complete	6
3104K330	Needle valve plug gasket	12
3104K 55	Union long nipple	3
3104K 45	Union hose connection	12
3104K215	Accelerating metering nozzle for models A and I	3
3104K220	Accelerating metering nozzle for model E	3
31 4K435	Body metering nozzle for models A and I	4
3104K436	Body metering nozzle for model E	4
3104K485	Air horn drain coupling	3
3104K490	Air horn drain stud	3
3104K495	Union nut	3
3104K500	Union solder nipple	3
DIXIE MAGNETO—800 SPARES.		
3104L645	Distributor block	4
3104L475	Condenser	4
3104L435	Breaker bar, R. H.	4
3104L440	Breaker bar, L. H.	4
3104L505	Thumb nut	20
3104L600	Distributor brush	24
3104L605	Starting brush	24
3104L400	Contact screw with platinum	4

Notes for basic table of allowances, Air Service—Continued.

NOTE 22.

PURSUIT (OR ATTACK), MULTIPLE AIRPLANE.

At present same as note 4.

NOTE 23.

PURSUIT (OR ATTACK), MULTIPLE AIRPLANE, SPARE PARTS, SETS.

At present same as note 5.

NOTE 24.

PURSUIT (OR ATTACK), MULTIPLE AIRPLANE, ENGINE SPARES, SETS.

At present same as note 6.

NOTE 25.

AIRPLANE, TRAINING.

Standard JN4D-2 airplane equipped with OX-5 engine (90 horsepower).

Gas capacity, 21 gallons.	Length (overall), 27 feet 4 inches.
Oil capacity, 4 gallons.	Height, 9 feet 10½ inches.
Crew, 2 men.	Chord, 4 feet 11½ inches.
Weight, empty, 1,520 pounds.	Gap, 5 feet 1½ inches.
Weight, fully loaded, 2,016 pounds.	Total area, 357.77 square feet, including ailerons, (35.2 square feet).
Dimensions:	
Span, 43 feet 7½ inches.	

ACCESSORIES.

Instruments:	Quantity:	Radio:
Altimeter.....	1	SCR-57, telephone set.
Air-pressure gauge.....	1	SCR-59, receiving set (advanced training).
Clock.....	1	
Tachometer.....	1	
Thermometers, radiator.....	2	

NOTE 26.

AIRPLANES, TRAINING, SPARE PARTS, SETS.

Spare parts for maintenance of 25 JN-4-D airplanes for three months.

Assembly or part.	Drawing No.	Unit No. per ship.	Quantity.
Ailerons:			
Aileron assembly, upper.....	13071	2	6
Hinge assembly, aileron.....	13206	4	10
Belt, safety.....	11099	2	5
Controls:			
Front foot control assembly.....	14537	1	3
Rear foot control assembly.....	16460	1	3
Bar, front and rear foot control.....	5845	2	5
Shaft, front and rear foot control.....	5827	2	5
Stick control, assembly.....	216700	1	5
Motor, control assembly.....	12959	1	5
Grip, gas shut-off valve, front.....	11826	1	5
Wheel assembly, gas control valve, rear.....	13178	1	5
Lever assembly, carburetor hand throttle control, front and rear.....	12289	2	10
Cowling:			
Cowling, motor hood assembly.....	12403	1	3
Cowling, side, right.....	12544-R	1	3
Cowling, side, left.....	12544-L	1	3
Cowling, under, front.....	12542-1	1	3
Cowling, under, rear.....	12542-2	1	3
Cowling, front, pit, rear.....	12517-1	1	3
Cowling, front, pit, front.....	12517-2	1	3
Elevator assembly, tail erection.....	11582	1	4
Fuselage:			
Bed, engine.....	11741	2	6
Longeron, upper, left.....	12307-L	1	3
Longeron, upper, right.....	12307-R	1	3
Longeron, lower, left.....	12433	1	3
Longeron, lower, right.....	12433	1	3
Fuselage cover:			
Assembly, fuselage cover.....	18125	1	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 26—Continued.

AIRPLANES, TRAINING, SPARE PARTS, SETS—Continued.

Assembly or part.	Drawing No.	Unit No. per ship.	Quantity.
Fuselage fittings:			
Catch, safety belt.....	1963	2	10
Hinge, fuselage cover.....	5664	8	20
Board assembly, front instrument.....	16630	1	3
Board assembly, rear instrument.....	16553	1	3
Landing gear:			
Axle stream line, wood.....	5068	1	3
Axle, landing gear.....	12314-3	1	5
Bumper, landing gear axle.....	5112	2	5
Guard, shock absorber, rubber.....	4950	2	5
Rubber shock absorber.....	12822-53	2	50
Landing gear, assembly.....	5114	1	5
Nipple, spoke.....	14273	80	400
Socket, landing gear strut, front, left.....	14508-L	1	3
Socket, landing gear strut, front, right.....	14508-R	1	3
Socket, landing gear strut, rear, left.....	14511-L	1	3
Socket, landing gear strut, rear, right.....	14511-R	1	3
Spoke, running gear wheel.....	2266	80	400
Strut, landing gear, front, left.....	5021-L	1	3
Strut, landing gear, front, right.....	5021-R	1	3
Strut, landing gear, rear, left.....	5022-L	1	3
Strut, landing gear, rear, right.....	5022-R	1	3
Landing gear:			
Tire assembly.....	10964	2	25
Wheel assembly, 24 by 4 inch landing gear, $\frac{1}{2}$ -inch axle.....	10964	2	10
Piping diagram, complete, motor control.....	15020	1	3
Radiator assembly.....	4920	1	5
Rudder assembly 11659 (tail erection).....	11842	1	3
Stabilizer:			
Vertical assembly.....	13068	1	3
Horizontal assembly.....	11842	1	3
Struts:			
Strut assembly, wing front outer.....	4755-5	2	15
Strut assembly, wing rear outer.....	4755-6	2	15
Strut assembly, intermediate front.....	12492-1	2	15
Strut assembly, intermediate rear.....	12492-2	2	15
Sockets; wing struts universal, 4755 and 12492.....	12277	16	40
Tail skid:			
Tail skid, assembly.....	16510	1	15
Bumper rubber, tail skid.....	16815	1	25
Shoe, tail skid.....	13145	1	50
Skid, tail.....	16604	1	5
Tanks:			
Gasoline tank assembly.....	12135	1	3
Cap assembly, gasoline tank filler.....	6214	1	5
Wind shield, celluloid.....	406100	2	5
Wings:			
Wing assembly, lower curved.....	4682	2	20
Wing assembly, upper curved.....	4685	2	15
Hinge plate assembly.....	6159	2	5
Hinge plate assembly.....	6157	2	5
Masts, erection wing.....	14668	1	3
Fittings, assembly, wing.....	15130	1	3
Skids, wing.....	17266	2	25
Utilities:			
Bolts, nuts, screws, eyebolts, washers, shackles, turnbuckles, pins, terminals, ferrules, cotters, wires, etc., to be maintained at 10 per cent of official Curtiss Parts List unit per ship.			

Each assembly will be complete with all attached utility parts and wiring.

Notes for basic table of allowances, Air Service—Continued.

NOTE 7.

AIRPLANES, TRAINING, ENGINE SPARES, SETS.

Spare parts for each 25 Curtiss OX-5 engines for 3 months.

Name of part.	Part No.	Number required for 25 engines.
Cam-follower guide:		
Guide.....	3175	20
Screw, guide (see Screws).....	41298	
Lock washer (see Washers).....	K-3	
Follower, intake cam.....	OX-12	20
Follower, exhaust cam.....	41297	20
Gasket (see Gaskets).....	1931	
Nut, attaching (see Nuts).....	K-44	
Cotter (see Cotter pins).....	K-52	
Cam shaft and bearings:		
Cam shaft.....	2580	3
Center bearing assembly.....	40344	75
Gear, cam shaft.....	O-19	3
Bearing, front.....	OX-20	25
Key, gear (see Keys).....	3161	
Screw, clamping (see Screws).....	K-76	
Lock washer (see Washers).....	K-1	
Screw, center bearing retaining (see Screws).....	O-71	
Bearing, rear.....	41582	25
Valve, oil-pressure.....	3005	5
Valve, spring.....	3009	5
Screw, pressure reg.....	41811	5
Gasket, pressure screw (see Gaskets).....	K-464	
Lock wire (No. 17 gauge, soft iron). Obsolete, substitute standard lock washer.....	K-358	
Plug.....	2585	5
Gasket, rear bearing (see Gaskets).....	41613	
Screw, attaching (see Screws).....	K-456	
Elbow, oil con. to dash.....	K-166	5
Union nut.....	K-156	120
Gasket, plug (see Gasket).....	K-464	
Carburetor and parts (carburetor, zenith 06 D, complete, 5 parts):		
Air-sleeve body.....	1	2
Air-sleeve shutter.....	2	2
Air-sleeve shaft.....	3	5
Air-sleeve lever.....	4	5
Air-sleeve lever spring.....	5	5
Air-sleeve lever taper pin.....	6	5
Air-sleeve shutter cotter pin.....	7	100
Air-sleeve lever spring, cotter.....	8	100
Air-sleeve assembly screw.....	9	25
Air-sleeve assembly screw lock washer.....	10	100
Altitude air valve.....	11	2
Altitude air valve shaft.....	12	3
Altitude air valve cotter pin.....	13	25
Butterfly set screw.....	14	25
Butterfly throttle valve taper pin.....	15	25
Butterfly throttle valve.....	16	5
Butterfly throttle lever.....	17	5
Butterfly throttle lever spring.....	18	10
Butterfly throttle lever clamp screw.....	19	25
Butterfly throttle lever stop screw.....	20	25
Butterfly throttle lever shaft.....	21	5
Butterfly throttle lever taper pin.....	22	10
Cap jet.....	23	10
Cap jet washer.....	24	100
Carburetor barrel.....	25	2
Carburetor bowl.....	26	2
Carburetor barrel assembly screw.....	27	25
Carburetor barrel assembly screw lock washer.....	28	200
Choke tube.....	29	5
Choke-tube screw.....	30	25
Choke-tube screw lock washer.....	31	100
Compensating jet.....	32	25
Size 100, 5 each.....		
Size 105, 5 each.....		
Size 110, 5 each.....		
Size 115, 5 each.....		
Size 120, 5 each.....		
Compensating jet washer.....	33	100
Channel-hole screw.....	34	25

Notes for basic table of allowances, Air Service—Continued.

NOTE 27—Continued.

* AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Carburetor and parts (carburetor, zenith 06 D, complete, 5 parts)—Continued.		
Channel-hole screw washer.....	35	100
Float.....	36	15
Float cover.....	37	5
Float-cover screw.....	38	25
Float-cover screw, lock washer.....	39	100
Filter plug.....	40	15
Filter-plug lock.....	41	25
Filter-plug lock washer.....	42	100
Filter-plug lock, castle nut.....	43	25
Idling screw.....	44	15
Idling seat.....	45	10
Idling lock nut.....	46	25
Idling tube.....	47	10
Lower plug (compensator).....	49	25
Lower plug (main jet).....	50	25
Lower plug washer.....	51	100
Main jet.....	52	25
Size 100, 5 each.....		
Size 105, 5 each.....		
Size 110, 5 each.....		
Size 115, 5 each.....		
Size 120, 5 each.....		
Main jet washer.....	53	100
Needle valve.....	54	15
Needle-valve cap.....	55	5
Needle-valve collar.....	56	10
Needle-valve lever axle.....	57	10
Needle-valve lever weights.....	58	10
Needle-valve seat.....	59	5
Needle-valve seat washer.....	60	100
Needle-valve seat, lock-nut washer.....	61	25
Needle-valve seat lock nut.....	62	5
Priming-hole screw.....	63	25
Union body.....	64	3
Union body washer, upper.....	65	100
Union body washer, lower.....	66	100
Case joint attaching:		
Gasket, front half (see Gaskets).....	41403	
Gasket, rear half (see Nuts).....	41402	
Nut, joint bolt (see Nuts).....	K-248	
Cotter (see Cotter pins).....	K-52	
Bolt, case joint.....	K-48	100
Bolt, case joint.....	K-375	10
Clamps, hose:		
Clamp, hose.....	K-472	300
Clamp, hose.....	K-441	250
Clamp, hose.....	K-471	50
Clamp, hose.....	K-392	200
Clamp, hose.....	K-448	25
Connecting rod and piston:		
Connecting rod and cap.....	3376	25
Bearing, connecting rod.....	3302	1,000
Bolt, connecting rod.....	3378	200
Nut, connecting rod bolt (see Nuts).....	K-188	
Rivet, connecting rod bearing.....	K-102	2 lbs.
Piston.....	41750	100
Pin, piston.....	41762	200
Pin, lock.....	40632	100
Lock, wire (No. 17 gauge, soft iron). Obsolete, substitute standard lock washer.....	K-358	
Ring, piston.....	41862	500
Cotter. (See Cotter pins).....	K-459	
Ring, piston, 0.005 oversize.....	41862	200
Ring, piston, 0.010 oversize.....	41862	100
Connections, hose:		
Hose, water outlet.....	3154	200
Hose, water inlet.....	3155	200
Hose, pump to elbow.....	41701	100
Hose, elbow to manifold.....	41920	100
Hose.....	41422	200
Hose.....	41420	50
Hose.....	3151	100

Notes for basic table of allowances, Air Service—Continued.

NOTE 7—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Cotter pins:		
☆ by 1/2 Campbell, hammer lock.....	K-54	1,250
☆ by 3/4 Campbell, hammer lock.....	K-459	4,000
☆ by 1/2 Campbell, hammer lock.....	K-52	26,000
☆ by 3/4 Campbell, hammer lock.....	K-53	375
☆ by 1/2 Campbell, hammer lock.....	K-59	875
Crank case (upper half):		
Crank case.....	41648	4
Cap, front main bearing.....	41731	3
Cap, center main bearing.....	41732	6
Key, front and rear main bearing (see Keys).....	41740	.....
Key, center main bearing (see Keys).....	41741	.....
Pin, dowel.....	K-242	13
Stud, main bearing (short) (see Studs).....	K-231	.....
Stud, main bearing (long) (see Studs).....	K-230	.....
Nut, main bearing stud (see Nuts).....	K-42	.....
Plate, bearing cap.....	41784	5
Washer, bearing cap (see Washers).....	K-321	.....
Bushing, oil outlet.....	K-511	5
Cap, rear main bearing.....	41733	3
Stud. (See Studs).....	K-213	.....
Bearing, front main, lower.....	41737	75
Bearing, center main, lower.....	41735	225
Bearing, outer main, lower.....	41736	75
Bearing, front main, upper.....	41857	75
Bearing, center main, upper.....	41858	225
Bearing, rear main, upper.....	41859	75
Screw, retaining, upper (see Screws).....	K-115	.....
Stud, cylinder, long, (Obsolete).....	3862	.....
Stud, cylinder, short, (see Studs).....	K-214	.....
Stud, camfollower guide, long (see Studs).....	K-215	.....
Stud, cam follower guide, short (see Studs).....	K-482	.....
Stud, magneto bracket (see Studs).....	K-206	.....
Stud, magneto bracket (see Studs).....	K-211	.....
Stud, crank case joint (see Studs).....	K-220	.....
Cotter, stud nut (see Cotter pins).....	K-54	.....
Crank case (lower half):		
Screw. (See Screws).....	K-65	.....
Indicator hand.....	2857	3
Stud, attaching (see Studs).....	K-215	.....
Stud, carburetor brace, short (see Studs).....	K-218	.....
Stud, carburetor brace, long (see Studs).....	K-424	.....
Gasket, sector (see Gaskets).....	3225	.....
Plug assembly.....	42112	13
Baffle plate.....	3045	3
Oil float assembly.....	41839	5
Sector.....	41578	3
Plate, oil level.....	42111	3
Casing, oil pump drive shaft.....	OX-88	2
Case, lower half.....	41376	4
Screw, attaching (see Screws).....	K-382	.....
Cotter (see Cotter pins).....	K-52	.....
Gasket (see Gaskets).....	42110	.....
Plug, thumb.....	K-487	13
Pin, plug.....	K-427	.....
Washer, oil conn. nut (see Washers).....	K-44	.....
Nut, stud (see Nuts).....	K-469	.....
Gasket, plug (see Gaskets).....	K-371	.....
Nut (see Nuts).....	42109	13
Plug, crank case.....	42456	.....
Nut, oil conn. (see Nuts).....	3100	13
Plug, oil drain.....	2853	35
Collar, retaining.....	41372	.....
Gasket (see Gaskets), oil strainer flange.....	41840	2
Float.....	41737	5
Pan, oil drain.....	41373	5
Flange, oil drain strainer.....	41375	13
Oil drain screen assembly.....	K-382	.....
Screw, attaching (see Screws).....	K-382	.....
Lock wire (No. 22 gauge, soft iron). Obsolete, substitute standard lock washer.....	K-357	.....

Notes for basic table of allowances, Air Service—Continued.

NOTE 7—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Crank shaft:		
Crank shaft.....	41734	10
Gear, crank shaft.....	3839	5
Pin, taper.....	K-163	5
Key, gear (see Keys).....	3198	.....
Shaft, water-pump stub.....	3840	8
Slinger, oil.....	41198	5
Key, propeller hub (see Keys).....	41738	.....
Screw, retaining (see Screws).....	K-431	.....
Plug (large).....	K-419	85
Plug (small).....	K-80	40
Nut and oil slinger assembly.....	41433	5
Lock wire (see Wire, lock).....	3386	.....
Thrust bearing.....	K-518	10
Oil slinger.....	41355	5
Nut, thrust bearing (see Nuts).....	3385	.....
Cylinders and attaching parts:		
Cylinder and jacket.....	40019	5
Valve intake.....	O-217	50
Spring, intake valve.....	42744	50
Valve, exhaust.....	O-85	100
Spring, exhaust valve.....	O-86	100
Washer, valve stem (see Washers).....	O-88	.....
Washer, lock (see Washers).....	O-89	.....
Cotter (see Cotter pins).....	K-459	.....
Stud, rocker arm support (see Studs).....	3858	.....
Stud, intake manifold, short (see Studs).....	3814	.....
Stud, intake manifold, long (see Studs).....	3815	.....
Nut, cylinder stud, flat, (see Nuts).....	K-23	.....
Washer, lock (see Washer).....	40210	.....
Nut, cylinder stud, castellated (see Nuts).....	K-41	.....
Cotter (see Cotter pins).....	K-52	.....
Yoke, tie down.....	O-14	10
Gasket, flange (see Gaskets).....	1932	.....
Engine installation bolts:		
Bolt, engine bed.....	K-308	20
Nut (see Nuts).....	K-45	.....
Cotter (see Cotter pins).....	K-59	.....
Washer (see Washers).....	K-15	.....
Exhaust equipment:		
Nut, attaching bolt (see Nuts).....	K-44	.....
Cotter (see Cotter pins).....	K-52	.....
Screw, clamping (see Screws).....	552	.....
Nut, clamping screw (see Nuts).....	K-44	.....
Gasket, exhaust flange (see Gaskets).....	40458	.....
Screw, attaching (see Screws).....	K-331	.....
Lock washer (see Washers).....	K-5	.....
Gaskets:		
Gasket.....	1932	400
Gasket.....	1931	400
Gasket.....	41613	50
Gasket.....	K-464	125
Gasket.....	2526	400
Gasket.....	3225	50
Gasket.....	K-469	50
Gasket.....	42108	50
Gasket.....	41372	75
Gasket.....	41168	50
Gasket.....	1935	75
Gasket.....	K-244	600
Gasket.....	2888	75
Gasket.....	41403	150
Gasket.....	41402	150
Gasket.....	3059	75
Gasket.....	3004	75
Gasket.....	40488	600
Gasket.....	3498	100
Gasket.....	3499	200
Gasket.....	3500	50
Gasket.....	3373	50
Gasket.....	40458	1,000
Gasket.....	3008	50
Gasket.....	3084	50
Gasket.....	42523	100
Gasket.....	K-498	800

Notes for basic table of allowances, Air Service—Continued.

NOTE 37—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines
Gear-case cover:		
Gear-case cover.....	41240	3
Gasket, case cover (see Gaskets).....	1085	
Screw, attaching (see Screws).....	K-251	
Lock washer (see Washers).....	K-13	
Ignition equipment:		
Plug, pinion.....	2697	5
Cotter (see Cotter pins).....	K-53	
Key, shaft (see Keys).....	K-92	
Lock screw.....	3370	13
Lock wire (see Wires, lock).....	3269	
Cotter (see Cotter pins).....	K-52	
Nut, pin (see Nuts).....	K-44	
Nut, drive shaft (see Nuts).....	3205	
Nut, bearing stud (see Nuts).....	K-43	
Pin, coupling.....	3460	25
Do.....	40033	26
Stud, bearing (see Studs).....	3363	
Stud, base (see Studs).....	3423	
Coupling, magneto drive.....	3207	5
Bearing, S. K. F. No. 1202.....	K-291	8
Cover, coupling.....	40320	10
Shock absorber.....	3438	25
Magneto control spring.....	41772	5
Pinion, magneto drive.....	3364	5
Cap, gear-case cover.....	3368	5
Magneto strap.....	3447	10
Bolt, magneto strap.....	3446	10
Magneto hood (not being purchased).....	42277	
Gasket, magneto drive gear-case cover.....	3004	
Screw, cover (see Screws).....	K-75	
Bolt, clip.....	K-112	40
Screw, cover (see Screws).....	K-179	
Spark plug gasket (see Gaskets).....	K-498	
Spark plug terminal.....	K-450	100
Washer (see Washers).....	K-18	
Cable tube end plug (see Screws).....	K-72	
Cotter (see Cotter pins).....	K-52	25
Cable tube end plug.....	O-170	1,000
Spark plug (Rajah).....	K-516	5
Cable holder.....	O-172	50
Magneto terminal.....	K-451	10
Clip, cable tube support.....	40327	13
Cable tube.....	O-168	162
Wire, high-tension (feet).....		
Nut, coupling pin (see Nuts).....	K-44	
Gasket, magneto pinion cover (see Gaskets).....	3004	
Cotter (see Cotter pins).....	K-52	
Nut, strap bolt (see Nuts).....	K-44	
Cotter (see Cotter pins).....	K-52	
Intake manifold:		
Intake pipe assembly (right hand).....	40326	5
Elbow intake manifold.....	3435	3
Carburetor brace.....	41681	5
Intake pipe assembly (left hand).....	40325	5
Intake Y pipe.....	3440	5
Intake manifold assembly.....	3433	5
Nut, stud (see Nuts).....	K-41	
Nut, attaching (see Nuts).....	K-41	
Nut, brace stud (see Nuts).....	K-41	
Cotter (see Cotter pins).....	K-52	
Pipe, lower.....	40251	3
Clamp, hose (see Clamp, hose).....	K-392	
Pipe, intermediate.....	40249	
Hose, connection (see Connections, hose).....	41422	
Clamp, hose (see Clamp, hose).....	K-392	
Stud, pipe attaching (see Studs).....	K-208	
Nut, attaching (see Nuts).....	K-41	
Do.....	K-41	
Nut, Manifold stud (see Nuts).....	K-41	
Washer, manifold attaching (see Nuts).....	K-337	
Cotter (see Cotter pins).....	K-52	
Gasket intake manifold (see Gaskets).....	40488	
Gasket, elbow (see Gaskets).....	3498	

Notes for basic table of allowances, Air Service—Continued.

NOTE 27—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Intake manifold—Continued.		
Stud, carburetor brace (see Studs).....	K-218	.....
Stud (see Studs).....	K-208	.....
Stud, carburetor attaching (see Studs).....	K-423	.....
Clamp, hose (see Clamp, hose).....	K-392	.....
Plug, pipe.....	K-439	10
Gasket, pipe to elbow (see Gaskets).....	3499	.....
Bolt, attaching.....	K-116	20
Reducer, pipe.....	K-109	20
Union water connection.....	K-182	10
Gasket, carburetor (see Gaskets).....	3500	.....
Pipe, upper (left hand).....	41421	5
Pipe, upper (right hand).....	41423	5
Elbow, water connection (see under Water pump).....	K-168	.....
Pet cock.....	K-408	5
Pipe, lower.....	40251	3
Union nut (see Oiling system).....	K-158	.....
Hose connection (see Connections, hose).....	41422	.....
Brace carburetor Y pipe.....	41756	3
Pipe, intermediate.....	40429	3
Hose connection (see Connections, hose).....	41420	.....
Keys:		
Key.....	41740	5
Do.....	41741	8
Do.....	3198	5
Do.....	41738	3
Do.....	3161	3
Do.....	K-92	5
Do.....	40631	5
Do.....	K-185	5
Magneto and parts:		
Magneto, Berling D-81, complete.....	1044	3
Cable terminal plug assembly.....	5107	16
Terminal plug clamp bracket screw.....	5148	24
Distributor block terminal index.....	5465	6
Inside distributor block for D-81.....	5522	6
Pinion for D-81.....	5065	12
Distributor gear for D-81.....	5062	0
Interrupter block clockwise.....	5407	12
Distributor block cover.....	5526	6
Distributor block clamp spring assembly.....	5118	12
Distributor finger assembly.....	5523	6
Timing stop pin.....	5412	24
Wound armature core.....	5484	18
Distributor block stud, upper.....	5117	12
Distributor block stud, lower.....	5116	24
Frame assembly clock and anticlockwise.....	5072	2
Interrupter clockwise.....	5481	12
Yoke assembly clockwise.....	5485	6
Collector spool.....	5057	24
Cam housing clockwise.....	5043	25
Interrupter and bearing assembly for D-81.....	5080	24
Armature for D-81.....	5496	4
Interrupter base clockwise.....	5404	12
Distributor finger locating bushing.....	5095	12
Condenser-mounting screw insulating bushing.....	5476	50
Distributor-gear mounting screw.....	5094	50
Brush-holder assembly.....	5134	6
Collector brush.....	5125	50
Interrupter-hexagon mounting screw.....	5467	25
Distributor-gear shaft.....	5003	6
Dowel pin for end bearing and adjusting clamp.....	5466	12
Collector brush spring.....	5126	24
Brush holder locating pin.....	5468	12
Ground terminal stud.....	5373	50
Brush holder cover.....	5135	6
Ground terminal washer.....	5193	50
Condenser mounting screw.....	5394	100
Interrupter block mounting screw bushing, long.....	5314	50
Condenser.....	5473	25
Interrupter block mounting screw bushing, short.....	5315	24
Interrupter spring washer.....	5016	12
Interrupter cushion spring.....	5016	12
Hexagon screw insulation bushing.....	5313	12

Notes for basic table of allowances, Air Service—Continued.

NOTE 27—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Magneto and parts—Continued.		
Distributor finger brush.....	5121	25
Distributor finger contact brush.....	5123	25
Bearing screw.....	5150	25
Distributor finger contact brush spring.....	5124	25
Distributor finger brush spring.....	5122	25
Adjustable bearing spacing ring.....	5145	6
Interrupter hexagon screw lock clamp.....	5316	12
Interrupter lever.....	5014	6
Interrupter lever stud.....	5364	6
Interrupter lever stud pin.....	5365	6
Terminal plate insulation bushing.....	5335	12
Terminal plate insulation.....	5475	12
Interrupter spring mounting screw.....	5018	12
Interrupter platinum contact spring.....	5003	50
Terminal plate.....	5474	6
Dust guard.....	5470	6
Interrupter lever recoil spring.....	5017	25
Interrupter lever clamp spring.....	5012	12
Interrupter platinum contact screw.....	5004	50
Armature head driving end.....	5054	12
Interrupter block mounting screw washer.....	5317	12
Interrupter contact adjusting wrench.....	5027	12
Driving end bearing assembly.....	5084	6
Magnet.....	5151	6
Gear-shaft nut.....	5158	6
Gear-shaft nut lock screw.....	5149	6
Gear-shaft washer.....	5157	6
Ground brush spring.....	5025	12
Ground brush.....	5024	12
Collector spool retaining washer.....	5060	25
Collector spool spring washer.....	5059	25
Pinion key.....	5064	12
Ground terminal nut.....	5137	24
Adjustable bearing bushing nut.....	5140	12
Interrupter block insulation.....	5406	25
Yoke mounting screw.....	5133	12
Adjustable bearing clamp ring dust washer.....	5479	12
Interrupter block mounting screw.....	5318	25
Shaft nut.....	5156	6
Ball bearing.....	5154	12
Collector spool washer.....	5058	12
Interrupter contact lock screw.....	5013	25
Armature head screw.....	5056	50
Shaft washer.....	5155	50
Adjustable bearing clamp ring screw.....	5143	12
Distributor finger locating bushing screw.....	5096	24
Interrupter housing cover moulded assembly.....	5019	12
Armature head interrupter end.....	5471	12
Adjustable bearing clamp ring.....	5142	12
Adjustable bearing bushing.....	5141	6
Magnet strap.....	5152	12
Cam housing clamp.....	5048	12
Magnet strap washer.....	5153	6
Oil cup.....	5076	6
Magnet strap screw.....	5154	24
Brush holder clamp.....	5136	12
Magneto bracket:		
Magneto bracket.....	3395	3
Bolt magneto bracket.....	41579	5
Lock washer (see Washers).....	K-8	.....
Nut, attaching stud (see Nuts).....	K-42	.....
Cotter (see Cotter pins).....	K-59	.....
Nut, attaching stud (see Nuts).....	K-41	.....
Cotter (see Cotter pins).....	K-52	.....
Nuts:		
Nut.....	K-42	40
Do.....	3385	13
Do.....	K-23	600
Do.....	K-41	1,600
Do.....	K-44	700
Do.....	K-188	400

Notes for basic table of allowances, Air Service—Continued.

NOTE 27—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Nuts—Continued.		
Nut.....	K-422	100
Do.....	K-446	360
Do.....	K-371	13
Do. Crankcase, lower half, oil line, union.....	42456	13
Do.....	K-248	400
Do.....	3186	3
Do.....	3205	13
Do.....	K-43	13
Do.....	K-45	75
Do.....	K-191	100
Do.....	K-37	25
Do.....	O-208	6
Oil-filler pipe:		
Oil-filler pipe.....	41679	5
Oil-filler cap.....	41683	5
Screen, breather pipe.....	3222	10
Lock-wire, screen.....	3213	10
Clamp, cap.....	41656	5
Pin, cap hinge.....	41658	10
Cotter (see Cotters).....	K-53	.....
Strainer, oil-filler pipe.....	41652	5
Nut, attaching (see Nuts).....	K-248	.....
Cotter (see Cotters).....	K-52	.....
Gasket, flange (see Gaskets).....	41168	.....
Oiling system:		
Inlet pipe.....	41814	10
Union nut.....	K-158	25
Gear case.....	41584	5
Master gear.....	3054	10
Stud idler gear.....	3058	5
Idler gear.....	3056	10
Cover.....	3055	10
Gasket (see Gaskets).....	3059	.....
Screws, oil pump cover (see Screws).....	K-75	.....
Screws, oil pump attaching (see Screws).....	K-150	.....
Elbow, inlet connection.....	42381	5
Elbow, outlet connection.....	42304	5
Outlet pipe.....	41813	25
Union nut.....	K-157	25
Nut, oil connection rear camshaft bearing.....	42382	13
Bracket, oil drive shaft.....	3178	3
Bushing.....	40056	5
Lock washer (see Washers).....	K-19	.....
Lock, attaching stud (see Nuts).....	K-41	.....
Cotter (see Cotter pins).....	K-52	.....
Pinion, oil-pump drive.....	40118	15
Shim, oil drive shaft bracket.....	42396	5
Propeller hub:		
Propeller hub.....	41729	3
Flange, hub.....	3181	3
Bolt, propeller hub.....	3188	50
Nut, bolt (see Nuts).....	K-191	.....
Lock washer (see Washers).....	K-8	.....
Cotter (see Cotter pins).....	K-54	.....
Lock nut, propeller hub.....	3182	5
Lock wire (see Wire, lock).....	3185	.....
Screws:		
Screw (gross).....	K-115	15
Screw.....	K-431	25
Do.....	41298	100
Do.....	K-76	75
Do.....	K-456	35
Do.....	O-71	35
Do.....	K-72	300
Do.....	O-72	100
Do.....	K-90	260
Do.....	K-65	50
Do.....	K-382	375
Do.....	K-251	650
Do.....	K-373	125
Do.....	K-75	75
Do.....	K-150	75

Notes for basic table of allowances, Air Service—Continued.

NOTE 7—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Screws—Continued.		
Screw.....	K-486	13
Do.....	K-179	50
Do.....	K-440	50
Do. Extension brace clamp bolt.....	K-552	25
Do.....	K-331	200
Do.....	K-338	13
Do.....	40057	13
Do.....	K-64	25
Studs:		
Stud.....	K-231	50
Do.....	K-230	50
Do.....	K-213	10
Do.....	K-214	300
Do.....	K-215	125
Do.....	K-482	75
Do.....	K-206	10
Do.....	K-211	5
Do.....	K-220	30
Do.....	3858	40
Do.....	3814	20
Do.....	3815	20
Do.....	K-218	13
Do.....	K-424	25
Do. Magneto drive pin.....	3363	5
Do.....	3423	20
Do.....	K-208	20
Do.....	K-423	10
Do.....	K-541	25
Tachometer drive, U. S. standard:		
Gear housing.....	40364	3
Gear housing bushing.....	3043	5
Shaft gear.....	3023	5
Gear, driven.....	3064	5
Gear, housing cover.....	2470	5
Shaft.....	3066	3
Shaft, gear housing cover.....	3042	5
Thrust bearing cases:		
Oil retaining cover.....	3366	5
Felt packing.....	K-133	200
Gasket (see Gaskets).....	3373	.....
Screw, attaching (see Screws).....	K-440	.....
Lock washer (No. 22 gauge soft iron.) Obsolete, substitute standard lock washer.....	K-357	.....
Thrust bearing cover:		
Thrust bearing cover.....	41353	5
Gasket, cover (see Gaskets).....	2888	.....
Screw, attaching (see Screws).....	K-373	.....
Valve action:		
Water-outlet cylinder No. 1.....	41589	8
Water-outlet cylinder No. 2.....	41590	8
Water-outlet cylinder No. 3 and No. 4.....	41614	16
Water-outlet cylinder No. 5.....	41615	8
Water-outlet cylinder No. 6.....	41616	8
Water-outlet cylinder No. 7.....	41617	8
Water-outlet cylinder No. 8.....	41618	8
Exhaust push rod.....	41596	20
Nut, adjusting (see Nuts).....	K-23	.....
Yoke, exhaust push rod.....	41599	20
Pin, bearing.....	O-94	80
Plug bearing (small). Obsolete.....	K-430	.....
Screw, lock (see Screws).....	K-72	.....
Lock washer (see Washers).....	K-420	.....
Intake push rod.....	41601	20
Nut, adjusting (see Nuts).....	K-422	.....
Yoke, intake push rod.....	41593	20
Pin, bearing.....	OX-7	50
Push rod support.....	OX-10	40
Spring, push rod.....	O-96	50
Intake, rocker arm.....	OX-2	60
Tappet, intake.....	3857	40
Lock washer (see Washers).....	K-3	.....
Nut tappet (see Nuts).....	K-44	.....

Notes for basic table of allowances, Air Service—Continued.

NOTE 27—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Valve action—Continued.		
Cotter (see Cotter pins).....	K-52	
Pin, bearing.....	O-X-6	50
Plug bearing (large). Obsolete.....	K-429	
Set screw (see Screws).....	O-72	
Lock wire (No. 17 gauge, soft iron). Obsolete, substitute standard lock washer.....	K-358	
Exhaust rocker arm.....	41619	20
Tappet, exhaust.....	42173	40
Nut, adjusting (see Nuts).....	K-23	
Gasket, support (see Gaskets).....	2526	
Nut, attaching (see Nuts).....	K-11	
Cotter (see Cotter pins).....	K-52	
Hose, water outlet (see Connections, hose).....	3154	200
Hose, water inlet (see Connections, hose).....	3155	200
Clamp, hose (see Clamps, hose).....	K-472	
Tee, water outlet.....	40185	5
Clamp, hose (see Clamps, hose).....	K-441	
Screw, clamp (see Screws).....	K-90	
Lock washer (see Washers).....	K-1	
Nut, clamp (see Nuts).....	K-446	
Valves, intake and exhaust. (See Cylinders and attaching parts.)		
Washers:		
Do.....	K-321	300
Do.....	O-88	100
Do.....	O-89	100
Do.....	40210	800
Do.....	K-3	400
Do.....	K-1	700
Do.....	K-420	600
Do.....	K-13	575
Do.....	K-8	225
Do.....	K-19	125
Do.....	K-18	100
Do.....	K-15	150
Do.....	K-337	400
Do.....	K-5	400
Do.....	41056	25
Do.....	O-205	25
Water-inlet pipes:		
Water-inlet manifold.....	3069	8
Gasket, water inlet (see Gaskets).....	K-244	
Elbow, inlet (L. H.).....	3071	3
Elbow, inlet (R. H.).....	3072	3
Hose, connecting, pump to elbow (see Connections, hose).....	41761	
Hose, connecting elbow to manifold (see Connections, hose).....	41929	
Clamp, elbow to manifold hose (see Clamps, hose).....	K-441	
Clamp, pump to elbow hose (see Clamps, hose).....	K-471	
Screw, clamp (see Screws).....	K-90	
Lock washer (see Washers).....	K-1	
Nut, clamp (see Nuts).....	K-446	
Water outlet pipes:		
Pipe, right-hand.....	40183	5
Pipe, left-hand.....	40184	5
Hose connection (see Connections, hose).....	3151	
Screw, clamp (see Screws).....	K-90	
Lock washer (see Washers).....	K-1	
Nut, clamp (see Nuts).....	K-446	
Water pump:		
Body outlet (short) assembly.....	42584	5
Body outlet (long) assembly.....	42585	5
Spacer, body.....	42522	5
Gasket, body (see Gaskets).....	42523	
Screw, cover (see Screws).....	K-251	
Drive shaft.....	41170	5
Plug, shaft end.....	K-370	5
Collar, shaft.....	41013	5
Pin, collar.....	K-194	10
Impeller.....	O-50	5
Key, impeller (see Keys).....	K-185	
Nut, impeller (see Nuts).....	O-208	
Washer, shaft (see Washers).....	O-205	
Nut, packing (large).....	41649	3

Notes for basic table of allowances, Air Service—Continued.

NOTE 27—Continued.

AIRPLANES, TRAINING, ENGINE SPARES, SETS—Continued.

Name of part.	Part No.	Number required for 25 engines.
Water pump—Continued.		
Packing.....	41816	100
Nut, packing (small).....	41874	5
Packing.....	41817	100
Elbow, body outlet.....	K-168	10
Cover, water pump shaft end.....	41812	3
Screw, clamp (see Screws).....	K-90	.....
Lock washer (see Washers).....	K-1	.....
Nut, clamp (see Nuts).....	K-446	.....
Bushing, large, water pump.....	O-209	40
Bushing, water pump shaft, small.....	41040	40
Water pump attaching:		
Bolts, water-pump attaching.....	K-434	8
Nut (see Nuts).....	K-41	.....
Cotter (see Cotter pins).....	K-52	.....
Washer (see Washers).....	K-19	.....
Spring, water-pump shaft.....	O-239	5
Coupling, center member.....	O-213	5
Wires, lock:		
Wires, lock.....	3386	25
Do.....	3369	25
Do.....	3185	50
Do.....	3187	50

NOTE 28.

AIRSHIP COMPLETE.

	Quantity.
Airship, nonrigid, Navy class "C" type, twin motored, with two 150-horsepower (one right and one left) Hispano-Suiza engines (complete power plant). Airship dimensions—length, 190 feet; height, 56½ feet; weight, fully loaded, 11,890 pounds; cubic capacity, 172,000 cubic feet.....	1
See Navy contract drawings C. & R. Nos. 419 to 455 and Navy specification entitled "For Twin-Engined Nonrigid Airship No. 18 to 27." Copy on file balloon and airship office.	

ACCESSORIES.

Instruments as per note No. 37.....	1
Photo equipment (undetermined), set.....	1
Radio set for use in airship, Navy type SE 1370.....	1

NOTE 29.

SPARES FOR AIRSHIPS (ENVELOPE AND CAB) SETS.

The following list of spares are covered by Navy contract drawings C. & R. Nos. 419 to 455, carried under their own subhead title:

	Quantity.
Bags, soapstone.....	2
Base, wooden, complete, with the following five items.....	1
10 screw hooks.	
2 No. 8—32-bolt (1½ inches long).	
2 No. 8—32-bolt (1¼ inches long).	
1 No. 8—32-bolt (1 inch long).	
1 Z bar support for end of wooden base.	
Beeswax.....	pounds.. 1
Box, type battens.....	30
Brushes, cement.....	6
Bumpers, landing.....	2
Cable, gasoline tank suspension, ⅜ inch, 6 by 7 cable, spliced to thimble of No. 30 patch on sling.....	16
Cable, ⅜ inch, 6 by 7.....	feet.. 300
Cable, ⅜ inch, 6 by 7.....	do.. 150
Cable, ⅜ inch, 6 by 19.....	do.. 200
Cable, ½ inch, 7 by 19.....	do.. 150
Cable, ⅜ inch, 6 by 7.....	do.. 100
Cable, Bowden casing for ⅜ inch.....	do.. 50

Notes for basic table of allowances, Air Service—Continued.

NOTE 29—Continued.

SPARES FOR AIRSHIPS (ENVELOPE AND CAB) SETS—Continued.

	Quantity.
Cable, Bowden casing for $\frac{1}{4}$ inch	feet.. 30
Cable, $\frac{1}{4}$ inch, 7 by 19 steel	do... 200
Cable, $\frac{1}{4}$ inch steel, for grounding all metal parts on bag	do... 400
Cable, fin brass, $\frac{1}{4}$ inch, 7 by 19, cable made up in lengths specified on drawing, spliced over $\frac{1}{4}$ inch thimble at one end and over standard No. 33 thimble at other end	30
Cable, 9 feet $\frac{1}{4}$ inch, 6 by 7, fastened to standard No. 33 thimble at end of fin brace cable	30
Cans, working cement	4
Casing, Bowden, for side gas valve opening line, 32 feet each	2
Casing, Bowden, for elevator control lines, 60 feet each	4
Casing, Bowden, for rudder control lines, 10 feet each	2
Casing, Bowden, for rudder emergency control lines, 10 feet each	2
Cement, 1 pint cans	gallons.. 5
Clamps, cable, $\frac{1}{4}$ inch	10
Clamps, cable, $\frac{1}{4}$ inch, for car suspension cable	60
Clamp, hose, standard $\frac{1}{4}$ inch	26
Clevises, No. 1, with pin and cotter	10
Clevises, standard No. 1, with pin and cotter (for fin brace cable)	30
Compound, aluminum, No. 6599-B (in $\frac{1}{2}$ gallon cans)	gallons.. 3
Control line, valve, distinguishing buttons, complete with cord and chains with screw eyes attached to free ends	14
Control lines, elevator ($\frac{1}{4}$ inch, 6 by 19 cable), finished length 125 feet	4
Control lines, rudder ($\frac{1}{4}$ inch, 6 by 19 cable) finished length 100 feet	2
Control lines, rudder, emergency ($\frac{1}{4}$ inch, 6 by 19 cable), length 100 feet	2
Control lines, air valve ($\frac{1}{4}$ -inch, 6 by 7 cable), 55 feet, 20, 50, 100, respectively	4
Control lines, gas valve, for opening $\frac{1}{4}$ inch, 6 by 7 cable, rear 115 feet, side 45 feet	3
Control lines, gas valve, for closing No. 36 blocking cord, rear 115 feet, 2 sides 45 feet	3
Control lines, damper valve, No. 35, blocking cord 27 feet long, each	4
Control line pulley, with housing "A"	2
Control pulley block, valve	1
Cord, $\frac{1}{4}$ -inch halyard	feet.. 150
Cord, No. 36, blocking	do... 300
Cord, exerciser, $\frac{1}{4}$ -inch	do... 25
Cord, breakable	pounds.. 2
Drawings, necessary for assembly of ship and repairing of parts	set.. 1
Elevator control pulley blocks	4
Fabric, heavy envelope	yards.. 25
Fabric, ballonet	do... 10
Glasses, window	2
Hose, gasoline, $\frac{1}{2}$ inch inside diameter	feet.. 600
Holdings, elastic inflation tube, and steel clips	2
Manometers	2
Marlin spikes, $\frac{1}{4}$ -inch	2
Marlin spikes, $\frac{1}{4}$ -inch	2
Nose piece, aluminum, complete with rings, cone bolts, and nuts	1
Panels, rip	2
Patch, standard, No. 3	1
Patches, standard, No. 6	20
Patch, standard, No. 6	1
Patches, standard, No. 8	3
Patches, standard, No. 9	9
Patch, standard, No. 13	1
Patches, standard, No. 15	2
Patches, standard, No. 20	10
Patches, standard, No. 25	2
Patches, standard, No. 26	4
Patches, standard, No. 30	2
Patches, standard, No. 31	2
Patches, batton case	20
Patches, rawhide fin chafing (on bag)	8
Plugs, standard $\frac{1}{4}$ -inch hose connection	26
Pole for auxiliary air line	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 29—Continued.

SPARES FOR AIRSHIPS (ENVELOPE AND CAR) SETS—Continued.

	Quantity.
Propellers, right-hand, Navy drawing No. SE 5031	2
Propellers, left-hand, Navy drawing No. SE 5032	2
Pull-up cord, air scoop, No. 36 blocking cord, 15 feet long, each.....	2
Pulleys, single, housing "A"	2
Rollers, fabric (ball bearings)	2
Shackles for attaching suspension cables to the No. 30 patches on the bag.....	16
Shears	pairs.. 2
Slings, gasoline tank fabric, complete with 4 standard No. 30 patches attached with nose cap and tail cap, with necessary amount of No. 24 blocking cord for lacing	4
Sticks, suspension, standard, No. 6	20
Stitcher, fabric	2
Straps, fin, leather	12
Straps, fin, leather, 1½ by 1½ inches	50
Swabs, benzine	6
Talc, French	pound.. 1
Tape, air side	rolls.. 2
Tape, gas side	do.. 2
Tees, brass, standard, ½ by ½ by ½ inch	6
Thimbles, ½-inch, split, for car suspension cable	60
Thimbles, ½-inch, galvanized, split	5
Thimbles, ¾-inch, galvanized, split	14
Thimbles, ¾-inch, galvanized, split	15
Thimble, standard, No. 14	1
Thimbles, standard, No. 15	4
Thimbles, standard, No. 26	5
Thimbles, standard, No. 33	8
Thread, Andover, harness (6-cord)	pounds.. 2
Tubing, C. I. (¼ inch diameter), 12 feet required for attachment to manometer gland on outside of bag	4
Tubing, C. I., for manometer, ¼ inch inside diameter	feet.. 50
Turnbuckles, ½-inch, one end male, other end female	3
Turnbuckles, ½-inch, one end male, other end female (to attach cable to car suspension clip).....	14
Turnbuckles, ½-inch, both ends male	12
Valves, gannometer, 1½-inch, with trunks for packing	5
The following three items will be made up as a unit and attached to proper slips on fins:	
Cables, fin brace, ½-inch, 7 by 19 cable made up in lengths as specified on drawing, spliced over ½-inch thimble at one end and over standard No. 33 thimble at other end	50
Cable, 9-foot ½-inch, 6 by 7, fastened to standard thimble at end of fin brace cable	feet.. 50
Clevises, standard, No. 1, with pin and cotter (for fin brace cable)	50

NOTE 30.

ENGINES, SPARES, AIRSHIP.

	Quantity.
Engines, Hispano-Suiza, 150 horsepower, complete, one right and one left	2
Engine spares, sets, for 1,000 flying hours. (Same as note 21).....	1

NOTE 31.

ACCESSORIES, GROUND, FOR AIRSHIP NAVY TYPE C.

The following list of accessories are covered by Navy contract drawings C. and R. Nos. 419 to 455, carried under their own subhead and title:

	Quantity.
Bags, sand	300
Cloth, ground, size 100 by 200 feet	1
Rope, cotton, ½-inch, for 2 sea anchors	feet.. 400
Rope, drag, of ½-inch manila yacht rope, 250 feet long, made up complete	1
Rope, cotton, ½-inch (substitute manila yacht if cotton rope is not available)	feet.. 500
Rope, drag, release clip device	1
Sleeves, inflation, tin	2
Tube, inflation, fabric, 200 feet long	1
Tube holder and clip, inflation, elastic	2
Valves, 8-inch, inflation, complete with aluminum cover fabric reinforcement and fabric sleeve	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 32.

BALLOON, OBSERVATION, COMPLETE, LESS BASKET.

	Quantity.
Chests, shipping, for type "R" balloon.....	each.. 2
Contents:	
Balloon, type "R," with following.....	2
Cords, valve and rip.....	
Glands.....	
Line, rip.....	
Line, valve.....	
Rigging, external (for one basket, complete).....	
Rigging, interior stabilizer.....	
Rigging, internal.....	
Ropes, camping.....	
Windows, inspection.....	
Cloth, chafing, light.....	2
Cover, packing, canvas.....	2

NOTE 32-A.

BALLOON ACCESSORIES.

	Quantity.
Chests, accessories, type "R" balloon.....	each.. 2
Contents:	
Absorbers, shock (2 extra), including 2 each straps 200 mm. and 2 thimbles, aluminum No. 2, each.....	4
Connections, junction piece, including 2 brass cast ends, cable, and 1 No. 5 brass toggle.....	1
Conductors, lightning, consisting of metallic cord, tassel, and case.....	1
Forelegs, vee, metallic, complete with rings (1 extra).....	2
Glasses, inspection window, extra.....	2
Guys, handling, complete, 1-inch cotton rope with No. 2 toggles, 1 extra set.....	10
Manometers, with 66 feet tubing each, to reach from bag to basket, $\frac{1}{4}$ -inch, 3-ply C. I.	1
Nuts, wing, with washers for valve.....	6
Plugs, rubbers for cord glands (extra).....	2
Rear legs, vee, metallic, complete with rings (1 extra).....	2
Rings, "D," for mooring band (extra).....	2
Springs, for valves.....	4
Valve, type "R," complete with locking clamp and rubber cap.....	1
Wire, iron, soft, nonrusting, No. 18, for serving cable.....	feet.. 200

Note.—When rigging is supplied with balloon, all detachable parts thereof are packed in the above chest.

NOTE 32-B.

BASKETS AND ACCESSORIES.

	Quantity.
Baskets, type "R," large.....	each.. 2
Covers, basket, canvas.....	do... 2
Flotation ring, kapok (for seacoast stations only).....	do... 1
Map container, willow.....	do... 1
Cover, parachute, waterproof.....	4
Harmen parachute, individual.....	4
Parachute basket, complete.....	2

NOTE 32-C.

CABLE AND CORDAGE ACCESSORIES, LIGHTER-THAN-AIR.

	Quantity.
Aerial lacing (rigging band).....	feet.. 500
Cables, balloon, 6,000 feet, with telephone connection.....	each.. 2
Cord, cotton, $\frac{1}{4}$ -inch.....	feet.. 150
Cord, window sash (red), rip, $\frac{1}{4}$ -inch.....	do... 100
Cord, window sash (white), valve, $\frac{1}{4}$ -inch.....	do... 100
Cord, window sash (steel center), $\frac{1}{4}$ -inch or $\frac{1}{2}$ -inch (center valve line in envelope).....	do... 150
Line, cotton, 1 each of Nos. 6, 12, 30, 72, 96, 138, for seizing.....	hanks.. 6
Rope, cotton, $\frac{1}{4}$ -inch, for handling guys.....	feet.. 800
Rope, interior lobe rigging, $\frac{1}{4}$ -inch, or cord blocking.....	do... 500
Rope, manila yacht, $\frac{1}{4}$ -inch.....	do... 1,400
Rope, manila yacht, $\frac{1}{2}$ -inch.....	do... 1,000
Rope, manila yacht, $\frac{1}{4}$ -inch.....	do... 800
Rope, manila yacht, $\frac{1}{2}$ -inch.....	do... 500

Notes for basic table of allowances, Air Service—Continued.

NOTE 33.

BALLOON BED EQUIPMENT.

	Quantity.
Anchors, screw, 3-foot (Mathews Scruix).....	each.. 50
Adjusters, ground line for $\frac{1}{2}$ -inch rope.....	do... 50
Clamps, cable, Crosby, $\frac{1}{2}$ -inch galvanized iron.....	do... 24
Cloths, ground, 45 feet by 45 feet, approximately.....	do... 2
Cable, $\frac{1}{2}$ -inch steel, for ground line attachment.....	feet.. 250
Cloths, ground, 35 feet by 100 feet, approximately.....	each.. 1
Lines, camping, extensions, complete with 1 each toggle No. 1, wood.....	do... 16
Lines, ground, complete with 1 each wood blocks, with plain adjuster for $\frac{1}{2}$ -inch rope.....	do... 44

NOTE-33A.

MANEUVERING EQUIPMENT. LIGHTER-THAN-AIR.

	Quantity.
Block, snatch brass, maneuvering, for $\frac{1}{2}$ -inch cable.....	each.. 1
Cable, metal transport, 145 feet long.....	do... 2
Hook, maneuvering.....	do... 1
Loops, double, rope with No. 3 wood toggle.....	do... 3
Pulleys, metal snatch block, for $\frac{1}{2}$ -inch rope.....	do... 2
Rope, launching, $\frac{1}{2}$ -inch, 250 feet long.....	do... 1
Spiders, maneuvering.....	do... 2
Toggles, linking, for rope No. 3.....	do... 3

NOTE 34.

BLACKSMITH'S EQUIPMENT.

Quantity.		Quantity.
1	Anvil, 100-pound.....	1
2	Aprons, leather, blacksmith's.....	2
2	Bags, canvas, for nails, 5-pound.....	2
2	Bags, coal, 2-bushel.....	2
1	Brace, ratchet, 10-inch sweep.....	1
1	Can, oil, 4-ounce.....	1
1	Chest, tool, blacksmith.....	1
1	Chisels, cold, 1-inch.....	1
1	Chisels, cold, $\frac{3}{4}$ -inch.....	1
1	Chisels, cold, $\frac{1}{2}$ -inch.....	1
1	Chisels, handled, cold, $1\frac{1}{2}$ -inch.....	1
1	Chisels, handled, hot, $1\frac{1}{2}$ -inch.....	1
1	Clipper, bolt, cut bolts up to $\frac{1}{2}$ inch.....	1
1	Drill, chuck, Jacobs No. 3.....	1
1	Drill, drift, Armstrong No. 2.....	1
1	Drill, post, with No. 2 Morse taper in spindle..	1
1	Drill, twist, bit stock $\frac{1}{2}$ to $\frac{3}{4}$ inch by thirty seconds, $\frac{3}{8}$ to $\frac{1}{2}$ inch by sixteenths..... set..	1
1	Drill, twist, $\frac{1}{2}$ to $\frac{3}{4}$ inch by sixteenths, straight shank..... set..	1
1	Drill, twist, $\frac{1}{2}$ to 1 inch by sixteenths, No. 2 Morse taper shank..... set..	1
1	Files, flat, bastard, 10-inch.....	1
1	Files, flat, smooth, 10-inch.....	1
1	Files, half round, bastard, 12-inch.....	1
1	Forge, portable, complete.....	1
1	Hammer, ball peen, $1\frac{1}{2}$ -pound.....	1
1	Hammer, ball peen, $1\frac{1}{2}$ -pound.....	1
1	Hammer, claw, 1-pound.....	1
1	Hammer, riveting, 9-ounce.....	1
1	Hardy, $\frac{3}{4}$ -inch, square shank, $1\frac{1}{2}$ -inch bit.....	1
1	Knife, draw, 8-inch blade, solid handle.....	1
1	Plane, block, 7-inch.....	1
2	Pincers, nail cut, 14-inch.....	2
2	Pincers, hoof paring, 14-inch.....	2
1	Poker, fire, straight.....	1
1	Punches, center 7 inches long.....	1
1	Punches, round, $\frac{1}{2}$ to $\frac{3}{4}$ inch by eighths..... set..	1
1	Punches, square, $\frac{1}{2}$ to $\frac{3}{4}$ inch by eighths... do...	1
1	Rasp, 14-inch.....	1
1	Rule, steel, folding, 36-inch.....	1
1	Saw, cross-cut, 24-inch.....	1
1	Saw, frame, hack, S tarrett No. 145.....	1
1	Screw driver, 6-inch blade, ordinary.....	1
1	Screw driver, 8-inch blade, heavy.....	1
1	Screw plate, for B bolts, including taps and dies with tap wrench, $\frac{1}{2}$ to $\frac{3}{4}$ inch, United States standard..... set..	1
1	Shovel, fire.....	1
1	Sledge, 10-pound.....	1
1	Square, steel, 24-inch.....	1
1	Tongs, bolt bowed lip, 22-inch.....	1
1	Tongs, gad, 20-inch.....	1
1	Tongs, pick up, 22-inch.....	1
1	Tongs, straight lip, 18-inch.....	1
1	Tongs, straight lip, 22-inch.....	1
1	Vise, blacksmith, $\frac{1}{2}$ -inch jaw.....	1
1	Wrench, monkey, 21-inch.....	1
1	Wrench, monkey, 12-inch.....	1
1	Wrench, Stillson, 24-inch.....	1
1	Wrench, Stillson, 18-inch.....	1
1	Wrench, Stillson, 12-inch.....	1
SUPPLIES (ONE MONTH).		
1	Blades, hacksaw, 10-inch, 18 teeth..... dozen..	1
3	Compound, welding..... pounds..	3
12	Coal, blacksmith..... bushels..	12
3	Handles, chisel, hot, 18-inch.....	3
2	Handles, hammer, claw.....	2
1	Handles, hammer, farriers.....	1
1	Handles, hammer, machinist's, ball peen, 14-inch.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 34—Continued.

BLACKSMITH'S EQUIPMENT—Continued.

Quantity.		Quantity.	
Handles, sledge, 36-inch.....	1	Soft steel, $\frac{3}{4}$ by 1 $\frac{1}{2}$ inch.....	feet.. 12
Nails, wire, standard, 6d.....	pounds.. 5	Soft steel, $\frac{3}{4}$ by 1 $\frac{1}{2}$ inch.....	do... 12
Nails, wire, standard, 10d.....	do.... 5	Soft steel, $\frac{3}{4}$ by 2 inch.....	do.... 12
Nuts, United States standard, $\frac{1}{2}$ -inch.....	do.... 2	Soft steel, $\frac{3}{4}$ -inch, round.....	do... 12
Nuts, United States standard, $\frac{3}{4}$ -inch.....	do.... 5	Soft steel, $\frac{1}{2}$ -inch, round.....	do.... 24
Nuts, United States standard, $\frac{1}{2}$ -inch.....	do.... 5	Soft steel, $\frac{3}{4}$ -inch round.....	do.... 24
Nuts, United States standard, $\frac{3}{4}$ -inch.....	do.... 5	Soft steel, $\frac{1}{2}$ -inch, round.....	do.... 24
Nuts, United States standard, $\frac{1}{2}$ -inch.....	do.... 2	Soft steel, $\frac{1}{2}$ -inch, round.....	do.... 12
Nuts, United States standard, $\frac{3}{4}$ -inch.....	do.... 2	Soft steel, $\frac{1}{2}$ -inch, round.....	do.... 12
Nuts, United States standard, 1-inch.....	do.... 2	Steel, tool, $\frac{1}{2}$ -inch, octagon.....	do.... 6
Oil, machine.....	quart.. 1	Steel, tool, $\frac{1}{2}$ -inch, octagon.....	do.... 6
Soft steel, $\frac{3}{4}$ by 1 inch.....	feet.. 12		

NOTE 35.

BLACKSMITH'S EQUIPMENT.

Quantity.		Quantity.	
Anvil, 200 lb., Hay Budden, single bick, $\frac{3}{4}$ -inch hardy hole, $\frac{3}{4}$ -inch Fritchett hole.....	1	Hand punches, set, $\frac{3}{8}$ to 1 inch.....	1
Block, swage, No. 2.....	1	Handles for each of above hammers.....	6
Cutter, cold, 1 $\frac{1}{2}$ -inch.....	1	Hoist, chain, Yale & Towne, 1 $\frac{1}{2}$ -ton capacity..	1
Cutter, hot, 1-inch.....	1	Punches, center, $\frac{3}{4}$ -inch.....	2
Forge, Buffalo, No. 650.....	1	Sledge, 10-pound.....	1
Hammer, ball peen, Maydole, 1 $\frac{1}{2}$ -pound.....	1	Tongs, bolt, 22-inch.....	1
Hammer, hand, blacksmith, Maydole, 2- pound.....	1	Tongs, gad, 22-inch.....	1
Hammer, hand, blacksmith, Maydole, 4- pound.....	1	Tongs, pick up, 22-inch.....	1
		Tongs, straight lip, 22-inch.....	1
		Vise, box jaw, 6-inch.....	1
		Vise, Prentiss, large 21.....	1

NOTE 36.

CHEST, AIRSHIP INSTRUMENT.

This chest includes the same instruments as listed in note No. 30 (chest balloon instrument) and in addition the following items:

Quantity.		Quantity.	
Aircraft compasses (complete).....	2	Manometer gauges.....	6
Air-pressure gauges.....	3	Oil pressure gauges.....	3
Air-speed indicators.....	2	Radiator thermometers.....	3
Clock.....	1	Sextant.....	2
Course and distance indicator.....	2	Statoscopes (with nonfreezing solution and droppers).....	2
Drives, flexible (complete).....	2	Tachometers.....	3
Glasses, gasoline level gauge.....	3		
Inclinometers (complete).....	2		

NOTE 37.

CHEST, AIRPLANE MAINTENANCE, COMPLETE WITH TOOLS.

Chest of, as per Manual No. 3, Signal Corps, specification No. 562, with modifications, containing:

Quantity.		Quantity.	
Bit, C. E. Jennings, expansive, $\frac{1}{2}$ to 3 inch, with leather pocket for cutter.....	1	Dividers, pair, 6-inch, P. S. & W.....	1
Brace, 10-inch Lion brand (Miller's Falls Co., No. 32).....	1	Drill, hand, Yankee, No. 1545.....	1
Calipers, double, 6-inch (Sterrett No. 44).....	1	Drills, set, Morse, straight shank, Nos. 1 to 45, inclusive: One drill $\frac{1}{2}$ -inch, 1 drill $\frac{3}{8}$ -inch, 1 drill $\frac{1}{4}$ -inch, to be contained in a roll 27 by 8 inches, consisting of 11 pockets to take large drills, extending over 15 inches with a flap 21 inches, with a piece on underside for pockets to take drills Nos. 1 to 45, mater- ial to be 10-ounce cotton duck, khaki	
Chest, tool, aeroplane, capital specifications 562, Signal Corps Manual No. 3.....	1		
Chisel, cold, $\frac{1}{2}$ -inch, Village Blacksmith.....	1		
Chisel, cold, $\frac{3}{4}$ -inch, Village Blacksmith.....	1		
Combination square, bevel and level, 12-inch, A thol.....	1		

Notes for basic table of allowances, Air Service—Continued.

NOTE 37—Continued.

CHEST, AIRPLANE MAINTENANCE, COMPLETE WITH TOOLS—Continued.

Drills, etc.—Continued.	Quantity.		Quantity.
shade, all edges leather bound, to be fastened with strap and buckle.....	1	Pliers, auto, 6-inch, combination, cutting (Kraeuter & Co.).....	1
Files, 8-inch half round, smooth, 1 file, bastard, 8-inch half round, 2 files, bastard, 8-inch, flat; 2 files, saw, 6-inch; 1 file, bastard, 10-inch; 1 file, round, 6-inch; 1 file, 8-inch, square, (all Nicholson files); to be contained in a roll 27 inches long and 13½ inches wide, consisting of 10 pockets, 7 inches deep with a flap 9 inches wide and 20 inches long, pockets extending over 20 inches to take the files specified. This roll shall be made of 10-ounce cotton duck, khaki shade, all edges leather bound, to be fastened with strap and buckle.....	2	Pliers, auto, 8-inch, combination, cutting (Kraeuter & Co.).....	1
File cleaner, Colton's No. 10.....	1	Pliers, 6-inch, diagonal, No. 842 (Linstrom).....	1
File holder, I. X. L.....	1	Pliers, electricians', No. 1831 (Kraeuter), 4-inch.....	1
Flax, Irish, ball, Barbour's No. 3, 2-ounce.....	1	Pliers, round nose, 6-inch, (Bernard).....	1
Hacksaw blades, 10-inch, 102 Starrett.....	24	Pliers, side cutting, 8-inch (Utica No. 50).....	1
Hacksaw blades, 10-inch, 103, Starrett.....	24	Pliers, snipe nose, 4-inch (Bernard).....	1
Hacksaw blades, 10-inch, Starrett No. 253.....	12	Punches, center, 4-inch.....	2
Hacksaw frame (Starrett No. 145).....	1	Reamers, taper, bitstock, Wiley Russell, (lightning) ½-inch, ¾-inch, 1-inch.....	3
Hammer, ball peen, 12-ounce, plum No. 372, 2-0.....	1	Screw driver, Perfect, 4-inch.....	1
Hammer, claw (Maydole).....	1	Screw driver, Perfect, 8-inch.....	1
Hammer, riveted, 8-ounce (Maydole).....	1	Snips, tinners' (Reliance No. 10).....	1
Hatchet, half, No. 2, thin blade (Germantown No. 316).....	1	Spoke shade, 3-inch, No. 80 (Sargeant).....	1
Iron, soldering, 1½ pounds.....	1	Stone, 5-inch carborundum, combination No. 111, in wood case.....	1
Iron, soldering, jeweler's No. 1.....	1	Torch, gasoline, flat, Clayton & Lambert, No. 48 (fastened by strap with buckle).....	1
Knife, draw, 8-inch, A. J. Wilkinson & Co., Boston, folding type.....	1	Wax, ball.....	1
Needles, one-quarter curve, 4-inch.....	6	Wrench, automobile, adjustable, B. & S. model G, No. 4, 12-inch.....	1
Needles, sailmakers', 4-inch.....	2	Wrench (Billings & Spencer).....	1
Nipper-out, No. 1, (Starrett), 7-inch.....	1	Wrench, bicycle, 5-inch (Billings & Spencer).....	1
Nippers, end cutting (Carwes), 14-inch.....	1	Wrench, crescent, 4-inch.....	1
Palm, sewing.....	1	Wrench, crescent, 6-inch.....	1
Plane, block, 1½-inch (Stanley, No. 110).....	1	Wrench, crescent, 8-inch.....	1
Pliers, adjustable, 6-inch, (Danifelson).....	1	Wrench, monkey, 6-inch, P. S. & W.....	1
Pliers, adjustable, 8-inch, (Danifelson).....	1	Wrenches, set, thin open end, set of 4 Ronson, ½-inch to 1½-inch, and 1 J. P. Williams, No. 30, to be contained in a roll 27 by 11 inches, consisting of 8 pockets, 4½ inches deep, extending over 20 inches, to take the wrenches specified, with a flap to cover the pockets 20 by 9 inches, the material to be 10-ounce duck, khaki shade, all edges leather bound; to be fastened with strap and buckle.....	1

NOTE 38.

CHEST, AIRPLANE RIGGER, COMPLETE WITH TOOLS.

Item.	Quantity.
Tool case, 18 by 6 by 8 inches, fiber (Hercules No. 61).....	1
Blocks, cube, 1½-inch, hardened and ground (B. & S. special).....	3
Bobs, plumb, 5½-inch (Starrett No. 177).....	4
Calliper, pocket slide, 3-inch (Starrett No. 425).....	1
Chisel, ½-inch (H. J. H. No. 240).....	1
Combined level and clinometer, in case (K. & E. 5808).....	1
Drill, hand, with 8 fluted drills in handle (M. F. Co. 304).....	1
File, half round, open cut, second cut, 8-inch (Nicholson).....	1
File, round, second cut, 6-inch (Nicholson).....	1
Gauge, tire pressure (Schrader).....	1
Hammer, machinist's ball peen, 1-pound (B. & S. Co. No. 3) model AD.....	1
Levels, machinists', 4-inch (Stanley No. 34-v).....	2
Line, chalk, 100 feet (Stanley).....	1
Nipper, cut, for music wire, 7-inch, with 2 extra pairs jaws, Starrett No. 1.....	1
Pliers, combination, nickel, 6-inch (B. & S. Co.) model M, No. 1.....	1
Pliers, oblique cutting, 5-inch (Klein's No. 202).....	1
Pliers, round-nose, 5½-inch (Klein's No. 312).....	1
side-cutting, 6-inch (Klein's No. 201).....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 38—Continued.

CHEST, AIRPLANE RIGGER, COMPLETE WITH TOOLS—Continued.

	Quantity.
Punch, $\frac{1}{8}$ -inch (B. & S. Co.) model X.....	1
Punch, center, $\frac{1}{8}$ -inch (B. & S. Co., model KA).....	1
Rule, folding, steel, 6-foot (Lufkin 1176).....	1
Screw driver, 6-inch (Perfect Handle, 609).....	1
Screw driver, 7 $\frac{1}{2}$ -inch (Yankee No. 95).....	1
Screw driver, offset, $\frac{1}{8}$ -inch (B. & S. Co. model Z).....	1
Screw driver, spiral ratchet (Yankee No. 35).....	1
Scriber, pocket (Starrett, No. 70-A).....	1
Snips, tinnerns', combination, 11 $\frac{1}{2}$ -inch (Wiss No. 100).....	1
Square, combination, without center head, 12-inch, with No. 4 graduations (B. & S. No. 401).....	1
Tape, measuring, steel, 50-foot, graduated feet, inches and sixteenths (Lufkin No. 203).....	1
Tool, valve-repair (Schrader).....	1
Trammel heads, with 1 pair points (Starrett 50-A).....	1
Wrench, adjustable, double-end, 6 to 8 inch, polished (Crest).....	1
Wrench, socket, off-set handle, finished, $\frac{1}{4}$ -inch (B. & S. Co. No. 822-A).....	1
Wrench, socket, off-set handle, finished, $\frac{1}{4}$ -inch (B. & S. Co. No. 822-C).....	1
Wrench, socket, off-set handle, finished, $\frac{1}{4}$ -inch (B. & S. Co. No. 823-A).....	1
Wrench, socket, off-set handle, finished, $\frac{1}{4}$ -inch (B. & S. Co. No. 824-A).....	1
Wrench, textile, double-head, finished, $\frac{1}{4}$ by $\frac{1}{2}$ inch (B. & S. Co. No. 1553).....	1
Wrench, textile, double-head, finished, $\frac{1}{4}$ by $\frac{1}{2}$ inch (B. & S. Co. No. 1558).....	1
Wrenches, turnbuckle, (Standard Screw Co.).....	2

NOTE 39.

CHEST, BALLOON INSTRUMENT.

	Quantity.
Chest (marked "Car Instruments").....	each.. 1
Contents:	
Aldis light with battery.....	do... 1
Altimeters, with cases.....	do... 2
Anemometers, electric, with accessories.....	do... 1
Consisting of—	
1 case.	
1 instruction book.	
1 tube oil, special.	
Anemometer hands, 4-inch.....	do... 1
Apparatus, gas testing.....	do... 1
Barograph, Weather Bureau pattern, registering.....	do... 1
With accessories consisting of following (7-day record type)—	
1 pen.	
1 winding key.	
1 bottle ink.	
50 chart sheets, No. 845.	
Batteries, dry, for flashlights.....	do... 24
Bottles, Thermos (quart size).....	do... 2
Bulbs, spare, for flashlight.....	do... 12
Clocks, aeroplane, 8-day, luminous dial.....	do... 2
Compasses, pocket, luminous dial.....	do... 1
Detector, leak.....	do... 1
Flashlights, electric (flare type).....	do... 12
Glasses, field, power 6E, mil scaled, with cases complete.....	do... 6
Glasses, field, power 8X, mil scaled, with cases complete.....	do... 5
Glasses, field, power 12X, mil scaled, with cases complete.....	do... 2
Glasses, field, power 16, with 45 millimeter objective lens complete with case.....	do... 1
Glasses, reading.....	do... 2
Hook, for electric anemometer, with wire and terminals.....	do... 1
Indicator, tension, with box.....	do... 1
Rule, slide, with case, 10-inch.....	do... 1
Rule, slide, hydrogen purity (Scott-Teed).....	do... 1
Shields, eye, rubber, for field glasses.....	do... 10
Statiscope, Custer or Richard type.....	do... 1
Thermometers (reading F. and C. deg.) (Weather Bureau type).....	do... 2
Voltmeter, C-30 bolts, with case.....	do... 1
Watches, stop.....	do... 4

Notes for basic table of allowances, Air Service—Continued.

NOTE 40.

CHEST, CARPENTER.

Quantity.		Quantity.
1	Apron, carpenter	1
1	Awl, brad	1
1	Bits, auger, $\frac{1}{4}$ to 1 inch by eighths, set	1
1	Bits, countersink, rose	1
1	Bits, expansive, 1 cutter $\frac{1}{4}$ to $1\frac{1}{4}$ inches and 1 cutter $1\frac{1}{4}$ inches to 3 inches	1
1	Screw driver, $\frac{1}{4}$ -inch	1
1	Screw driver, $\frac{1}{2}$ -inch	1
1	Wood drill, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch, set	1
1	Brace, ratchet, 10-inch sweep	1
1	Can, oil, 4-ounce	1
1	Chest, 36 by 18 by 18 inches, steel, 16-gauge	1
1	Chisels, cold, $\frac{1}{4}$ -inch	1
1	Chisels, socket firmer, $\frac{1}{4}$ to $1\frac{1}{4}$ inch by fourths, set	1
1	Divider, wing, 8-inch	1
1	Files, flat, wood rasp, 10-inch	1
1	Files, half-round, bastard, 10-inch	1
6	Files, taper saw, 8-inch	6
1	Gouge, wood, $\frac{1}{4}$ -inch	1
1	Gouge, wood, $\frac{1}{2}$ -inch	1
1	Gouge, 1-inch	1
1	Hammer, claw, 24-ounce	1
1	Hatchet, broad, 5-inch double bevel	1
1	Knife, draw, 10-inch blade, solid handle	1
1	Knife, jack	1
1	Level, 24-inch	1
1	Mallet, carpenter's, $5\frac{1}{2}$ by $3\frac{1}{2}$ inches, diameter	1
1	Nail set	1
1	Pinch bar, 24-inch, gooseneck	1
1	Pincers, carpenter's, 9-inch	1
	Planes, jack, 15-inch	1
	Planes, smoothing, 8-inch	1
	Pliers, side-cutting, 8-inch	1
	Plumb bob, iron, 1-pound	1
	Rule, boxwood, 2-foot, 4-fold	1
	Saw, handy kit, Diaston No. 101	1
	Containing—	
	One 12-inch keyhold.	
	One 14-inch compass.	
	One 16-inch priming.	
	One 18-inch plumber.	
	One 20-inch 10 pt. crosscut.	
	One 20-inch 7 pt. rip.	
	Saw, set	1
	Screw driver, 12-inch	1
	Screw driver, spiral, Yankee No. 130	1
	Square, combination, 12-inch	1
	Stone, combination, carborundum and oil, 8 by 2 by 1 inch	1
	Tape, metallic, 50-foot	1
	Vise, saw	1
	Wrench, monkey, 10-inch	1
	SUPPLIES (ONE MONTH).	
	Chalk, carpenter's	2
	Chalk line, 100-foot	2
	Handles, file, small	1
	Handles, file, large	1
	Oil, machine	1
	Pencils, carpenter's	6

NOTE 41.

COMPANY RESERVE, CARPENTERS.

This set contains sufficient equipment to enable a whole platoon to work as carpenters. No more than two sets of reserve equipment should be carried by an airdrome company.

Quantity.		Quantity.
2	Adze, plain bit, cut $4\frac{1}{2}$ -inch, handled	2
2	Augers, ship, handled, $\frac{1}{4}$ -inch	2
2	Augers, ship, handled, $\frac{1}{2}$ -inch	2
2	Augers, ship, handled, $\frac{3}{4}$ -inch	2
2	Augers, ship, handled, $1\frac{1}{4}$ -inch	2
6	Bits, auger, $\frac{1}{4}$ to 1 inch by eighths, set	6
6	Bits, screw driver, $\frac{1}{4}$ -inch	6
6	Brace, ratchet, 10-inch sweep	6
1	Chest, carpenter, company reserve, airdrome	1
6	Chisels, cold, $\frac{1}{4}$ -inch	6
6	Chisels, framing, $1\frac{1}{2}$ -inch	6
6	Chisels, framing, $\frac{1}{2}$ -inch	6
1	Dividers, wing, 8-inch	1
3	Files, auger, bit, 6-inch	3
3	Files, flat, bastard, 10-inch	3
3	Files, flat, smooth, 10-inch	3
3	Files, rasp, wood, 14-inch	3
24	Files, taper, saw, 6-inch	24
24	Hammers, claw, 2-pound	24
12	Hatchets, half, $3\frac{1}{2}$ -inch cut	12
1	Oil can	1
12	Rules, folding, 5-foot	12
12	Saws, crosscut, hand, 24-inch	12
6	Saws, rip, hand, 24-inch	6
6	Screw driver, 8-inch	6
	Set, saw	2
	Tapes, metallic, 50-foot	3
	Trowels, brick	3
	Trowels, plaster	3
	Wrenches, monkey, 12-inch	4
	Wrenches, Stillson, 12-inch	4
	SUPPLIES (ONE MONTH).	
	Chalk, carpenter's	1
	Chalk line, 100-foot	6
	Handles, adze, 34-inch	2
	Handles, chisels, framing, 6-inch	6
	Handles, hammer, claw, 14-inch	12
	Handles, hatchet, 14-inch	6
	Handles, saw, one-man	2
	Nails, wire, 10d	4
	Nails, wire, 16d	1
	Nails, wire, 40d	1
	Oil, machine	1
	Pencils, carpenter's	6
	Screws, iron, flat head:	
	$\frac{1}{4}$ -inch, No. 6	1
	$\frac{1}{2}$ -inch, No. 10	1
	$1\frac{1}{4}$ -inch, No. 10	1
	2 $\frac{1}{2}$ -inch, No. 14	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 42.

CHEST, PIONEER.

	Quantity.
Chest, construction, engineer tools.....	each..... 1
Contents:	
Adzes (with vertical and flat blades).....	do..... 4
Augers, post.....	do..... 2
Axes, with handles.....	do..... 4
Crowbars.....	do..... 4
Hatchets, heavy.....	do..... 10
Hooks, bill, and sheath (or knives).....	do..... 6
Picks, with handles.....	do..... 10
Saws, crosscut.....	do..... 2
Saws, 2-man, 6 feet, with handles.....	do..... 2
Sledges, square, steel, 10-pound with handles.....	do..... 2
Spades, with handles, round point.....	do..... 2
Bolts, machine $\frac{1}{2}$ by 6.....	do..... 100
Bolts, machine, $\frac{1}{2}$ by 10.....	do..... 100
Washers, $\frac{1}{2}$ -inch.....	do..... 100
Nails, spike, 60d.....	regs..... 1
Nails, 16d.....	do..... 1
Rope, Manila, 1-inch diameter, 250 feet coil.....	coil..... 4
Rope, Manila, $\frac{1}{2}$ -inch diameter, 500 feet coil.....	do..... 1
Rope, Manila, $\frac{1}{4}$ -inch diameter, 100 feet coil.....	do..... 2

NOTE 43.

CHEST, ELECTRICIAN, COMPLETE WITH TOOLS.

	Quantity.
Bit, bell hangers, 24 by $\frac{1}{8}$ inch.....	1
Bits, set, Irvin, auger, No. 20 $\frac{1}{2}$ -A, $\frac{1}{2}$ sizes.....	1
Blades, hack-saw, 10 by $\frac{1}{2}$ inch, 18 teeth.....	dozen..... 1
Brace (M. F. Co. No. 33), in box.....	1
Chisel (Jennings), $\frac{1}{2}$ -inch, No. 70.....	1
Chisel (Jennings), $\frac{1}{4}$ -inch, No. 70.....	1
Copper, soldering, jeweler's No. 1.....	1
Copper, soldering, 1 $\frac{1}{2}$ pounds each, with handle.....	1
Drill, hand (M. F. Co., No. 2).....	1
Drills, each of the following drills, $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch, carbon.....	1
File, half-round, bastard, 8-inch, with handle.....	1
File, half-round, smooth, 8-inch, with handle.....	1
Frame, hack-saw, adjustable, No. 145.....	1
Hammer, Atha, No. 42.....	1
Knife, electrician's, No. 372.....	1
Pliers, diagonal (Utica No. 42), 6-inch.....	pair..... 1
Pliers, long-nose (Utica No. 654), 5 $\frac{1}{2}$ -inch.....	do..... 1
Pliers, side-cutting (Utica No. 50), 6-inch.....	do..... 1
Rosin core solder.....	pound..... 1
Rule, No. 404.....	1
Saw, compass, 12-inch, No. 2.....	1
Saw, hand (Disston No. 7), 20-inch, 9-pt.....	1
Screw driver (Harwood), 5-inch.....	1
Screw driver, truck, pocket.....	1
Tape, insulating.....	pound..... 1
Tool box, steel, No. 2-A, Vanderman or equal, with two trays, to be made of 16-gauge sheet steel, with hinge cover and handle on each end of box. Hasp and staple strongly and substantially fastened to cover and body. Body of box to be reinforced with 1 by $\frac{1}{4}$ inch band steel. Inside of box to be varnished and outside to be given coating of approved olive-drab enamel.....	1
Torch, blow, No. 48.....	1
Vise, small, 2-inch jaw (Athol No. 2), Simson.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 44.

INFLATION EQUIPMENT.

	Quantity.
Chalk, crayon, white.....	box 11
Cord, heavy.....	ball 2
Fabric, "Y" branch connections, length, 66 inches, openings (3), to have diameter of 12 inches.....	each 1
Ground cloth, small, to cover cylinders in open storage, 20x20.....	do 3
Inflation tube ties, elastic.....	do 12
Inflation tubes, 12 inches diameter, 75 feet, rubberized fabric, covered with drill to prevent wearing.....	each 1
Inflation tubes, 12 inches diameter, 35 meters long, rubberized fabric, covered with drill to prevent wearing.....	each 4
Sleeves, wood, 10 inches diameter, 12 inches long, tapered to permit nesting, edge beaded over $\frac{1}{4}$ -inch to prevent inflation tube slipping off, fabric covered.....	each 5
Wrench, Crescent, 2-inch jaw.....	do 1
Wrench, pipe, with chain, 36 inches long.....	do 1
Wrench, spanner, 5-inch jaw, for cylinder caps.....	do 1
Chest, inflation, standard (American or French type).....	do 1
Blueprint, for manifold and connections.....	do 1
Check valve, extra, for metal manifolds.....	do 2
Connections, hose, extra, for cylinder end, with wing nut.....	do 8
Connections, hose, extra, for manifold end.....	do 4
Instructions, operating.....	sets 2
Manifolds, 12-point, metal, with 12 leads, French pattern, complete.....	each 2
Washers, fiber, extra.....	do 100
Wrenches, spanner, for tightening wing nuts.....	do 3
Or—	
Manifolds, Pierce-Bertseley.....	do 3
Valves, for Pierce-Bertseley manifold.....	do 8

NOTE 45.

PIPE FITTER'S CHEST.

	Quantity.		Quantity.
Chest, pipe fitter, airdrome.....	1	Saw frame, back, extension, 12-inch.....	1
Chisel, cold, 1-inch.....	1	Screw driver, 10-inch.....	1
Chisel, cold, $\frac{3}{4}$ -inch.....	1	Stock and dies, pipe, $\frac{1}{4}$ to 2 inches.....	1
Cutter, pipe, No. 1, 3-wheel.....	1	Taps, pipe, $\frac{1}{4}$ to 2 inches.....	1
Cutter, pipe, No. 2, 3-wheel.....	1	Vise, pipe, 2-inch, hinge type.....	1
Drill, breast, double-gearred.....	1	Wrenches, chain, 4-inch.....	2
Drill, twist, bitstock, $\frac{1}{4}$ to $\frac{1}{2}$ inch.....	set 1	Wrenches, Stillson, 24-inch.....	1
Files, flat, bastard, 10-inch.....	1	Wrenches, Stillson, 18-inch.....	1
Files, flat, smooth, 10-inch.....	1	Wrenches, Stillson, 12-inch.....	2
Files, half-round, bastard, 12-inch.....	1	Wrenches, Stillson, 8-inch.....	1
Hammer, ball peen, 2-pound.....	1	Wrenches, monkey, 21-inch.....	1
Oil can.....	1	Wrenches, monkey, 12-inch.....	2
Pliers, side-cutting, 8-inch.....	1	Wrenches, S, 10-inch.....	2
Rule, folding, 5-foot.....	1	Wrenches, S, 8-inch.....	1

SUPPLIES (ONE MONTH).

Blades, hack-saw, 12-inch, 14-teeth.....	dozen 1	Wicking, asbestos, 1-pound ball.....	1
Oil, machine, gallon, in can.....	1		

Notes for basic table of allowances, Air Service—Continued.

NOTE 46.

PLUMBER'S CHEST.

ITEM.	Quantity.	ITEM.	Quantity.
Chest, plumber, airdrome.....	1	Oil can.....	1
Chisel, cape, 1/2-inch.....	1	Pliers, gas, 8-inch.....	1
Chisel, cold, 1/2-inch.....	1	Pot, melting, 5-gal.....	1
Chisel, round-nose, 1/4-inch.....	1	Rasp, wood, 10-inch.....	1
Cloth, wiping, 5-inch.....	2	Rule, folding, 5-foot.....	1
Coppers, soldering, handles, 2-pound pair.....	1	Saw frame, hack, extension, 12-inch.....	1
Files, flat, bastard, 10-inch.....	1	Scraper.....	1
Files, flat, smooth, 10-inch.....	1	Screw driver, 10-inch.....	1
Files, half-round, bastard, 10-inch.....	1	Torch, blow, 1-quart capacity.....	1
Furnace, soldering, 1-gallon capacity.....	1	Wrench, monkey, 21-inch.....	1
Hammer, ball peen, 2-pound.....	1	Wrench, monkey, 12-inch.....	2
Hammer, riveting, 10-ounce.....	1	Wrench, Stillson, 18-inch.....	1
Irons, calking.....	set. 1	Wrench, Stillson, 12-inch.....	2
Ladle, pouring, 3-inch.....	1	Wrench, Stillson, 8-inch.....	1

SUPPLIES (ONE MONTH).

Blades, hacksaw, 12-inch, 14 teeth.....	dozen. 1	Solder, bar, half and half.....	pounds. 5
Lead, melting.....	pounds. 100	Yarn, calking.....	do. 10
Paste, solder, 4-ounce tin.....	2		

NOTE 47.

CHEST, RIGGER, LIGHTER-THAN-AIR.

	Quantity.
Chest, balloon riggers.....	each. 1
Contents:	
Lid—	
Hacksaw frame, Starrett No. 146.....	do. 1
Knives, Empire, No. 1013.....	each. 2
Pliers, 6-inch, P. S. & W., No. 40, side cutting.....	pair. 2
Pliers, 5 1/2-inch, long nose, P. S. & W., No. 63.....	do. 2
Rules, boxwood, 2-foot, folding, metric on one side, English other.....	each. 2
Saw, hand, crosscut, Diaston, 20-inch, 9-tooth, No. 7.....	do. 1
Scissors, straight trimmers, 8-inch blade, japanned handle.....	pair. 1
Scissors, straight trimmers, 10-inch, japanned handle.....	do. 1
Spokeshave, Sargent, 3-inch, No. 80.....	each. 1
Top of chest—	
Bulbs, flashlight.....	do. 3
Cloth, emery, 2 No. 0, 2 No. 1, 2 No. 2, 2 No. 3.....	sheets. 12
Dividers, 6-inch, P. S. & W., No. 35, pencil one leg and steel leg solid.....	pair. 1
Flashlights, 10-inch flare type (complete with batteries).....	each. 2
Hammer, ball peen, 20-ounce, Atha, No. 311.....	do. 1
Hammer, claw, 15-ounce, Atha, No. 41 1/2.....	do. 1
Hammer, riveting, 8-ounce, plumb, No. 2.....	do. 1
Hatchet, No. 338, Germantown 3 1/2-inch.....	do. 1
Knives, sheath, 4 1/2-inch, Village Blacksmith.....	do. 3
Palms, sewing, sailmakers'.....	do. 3
Punchers, belt, revolving, 6-tube.....	do. 2
Rollers, metal for fabric.....	do. 2
Rules, folding, 6-foot.....	do. 2
Sandpaper, 4 No. 0, 4 No. 1, 4 No. 2, 8 each.....	sheets. 24
Screw drivers, Yankee, No. 100.....	set. 1
Solder, rosin core, black, 5 pounds to spool.....	specks. 2
Stitcher, fabric.....	each. 1
Tape, measuring steel, 100 foot K. and E. (7232 T. M. or equal, metric one side, English other).....	each. 1
Torch, Clayton & Lambert, No. 32, 1 quart flat.....	do. 1
Vise, Prentiss, No. 37, 2-inch jaws, adjustable jaws and base.....	do. 1
Wire, copper, one spool each of Nos. 18, 20 and 24, 2-pound spools.....	spools. 3
Wrench, Westcott, "S," 6-inch.....	each. 1

Notes for basic table of allowances, Air Service—Continued.

NOTE 47—Continued.

CHEST, RIGGER, LIGHTER-THAN-AIR—Continued.

Chest, balloon riggers—Continued.

Contents—Continued.

Upper drawer—

	Quantity.
Batteries, flashlight, for item, No. 13.....	each.. 5
Blades, hacksaw, Starrett No. 103, 12-inch.....	dozen.. 2
Brushes, (solution) for rubber cement.....	each.. 6
Chisel, cold, $\frac{1}{2}$ -inch, diamond edge.....	do.. 1
Chisel, cold, $\frac{1}{2}$ -inch, diamond edge.....	do.. 1
Drills, assorted for Yankee No. 1545 drill sized $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch.....	do.. 6
Files, assorted, 2 bastard 10-inch, half round, 2 hand, one safe edge, 6-inch; 1 slim taper saw, $\frac{5}{8}$ inch; 1 bastard, round, 6 $\frac{1}{2}$ inch; 1 rasp, half round, 12-inch; all with handles.....	each.. 7
Handles, file, patent ferrule, for item 39.....	do.. 3
Iron, soldering, copper, $\frac{1}{2}$ and 1 inch each, with handle.....	do.. 2
Punch and die, grommet sets, for sizes 0, 1, 2, and 3.....	do.. 4
Punches, Syracuse, hollow, assorted to be used with 0, 1, 2, and 3 grommet sets.....	do.. 4
Rubber Pars.....	pounds.. 2
Thimbles, tailors' large.....	each.. 4

Lower drawer—

Awis, lacing, suitable for No. 1 grommet.....	each.. 3
Balance, spring, 50 pounds capacity.....	do.. 1
Drill, hand, Yankee, No. 1545.....	do.. 1
Gloves, leather, ropemakers'.....	do.. 2
Knives, ropemakers' (8c. Insp. Kit type).....	do.. 2
Mallet, round, head, lead, 8 pounds, with wooden handle.....	do.. 1
Mallets, serving, wood, 2 by $5\frac{1}{2}$ inches.....	do.. 2
Mallets, square head, wood.....	do.. 2
Needles, for hand sewing, No. 4, short packages.....	do.. 4
Needles, for hand sewing, No. 5, short 25 per package.....	packages.. 2
Needles, for hand sewing, No. 7, short, 25 per package.....	do.. 2
Needles, for hand sewing, No. 6, long, 25 per package.....	do.. 3
Needles, for hand sewing, No. 5, square, 25 per package.....	do.. 1
Needles, for hand sewing, straight, carpet makers, 6 inch.....	each.. 8
Needles, for hand sewing, sailmakers', 2 $\frac{1}{2}$ inches long, Nos. 12, 13, and 14.....	do.. 10
Pads, leather, fingers, ropemakers, medium size.....	do.. 10
Pads, leather, fingers, ropemakers, large size.....	do.. 10
Pins, common (to be placed in most convenient place).....	box.. 3
Spikes, Marlin, 10-inch, flat steel.....	each.. 3
Spikes, Marlin, hard wood, or horn, 10-inch.....	do.. 2
Stone, oil, Pike's soft Arkansas, 8-inch, mounted.....	do.. 1
Tape, friction, tire.....	rolls.. 6
Vise, hand, Athol, No. 549, 1 $\frac{1}{2}$ inch.....	each.. 1
Wire, copper, bare (18 gauge).....	pounds.. 2

NOTE 48.

CHESTS, SUPPLY, LIGHTER-THAN-AIR (COMPLETE WITH LOCK AND KEY).

	Quantity.
Chest, complete with lock and keys.....	each.. 1
Contents:	
Battonets, type A.....	do.. 20
Battonets, type B.....	do.. 30
Beeswax.....	pounds.. 3
Blocks, adjusting, No. 12.....	each.. 2
Blocks, double sheave wooden pulley, for $\frac{1}{2}$ -inch rope.....	do.. 3
Blocks, plain, wood, camping ropes.....	do.. 50
Blocks, single sheave wooden pulley, for $\frac{1}{2}$ -inch rope.....	do.. 3
Bull's-eyes, No. 9.....	do.. 10
Bull's-eyes, No. 10.....	do.. 10
Bull's-eyes, No. 11.....	do.. 10
Bull's-eyes, No. 12.....	do.. 10
Cans, 1-gal. size, empty, gal., 1 for gasoline and 1 for benzine.....	do.. 2
Cement, type "R" balloon.....	gallon.. 3

Notes for basic table of allowances, Air Service—Continued.

NOTE 48—Continued.

CHESTS, SUPPLY, LIGHTER-THAN-AIR (COMPLETE WITH LOCK AND KEY)—Continued.

Chest, complete with lock and keys—Continued.

Contents—Continued.	Quantity.
Chalk, white, crayon.....	box... 1
Chalk, French, powdered, white, in containers.....	do... 1
¹ Cones, danger, with clips, complete.....	each... 6
Fabric, battonet.....	yards... 10
Fabric, envelope, 2-ply.....	do... 10
Fabric, parachute (BB balloon cloth, 40 inches wide).....	yards... 10
Fabric, stabilizer, 1-ply.....	do... 10
Grommets and washers, brass, 1 gross ea., Nos. 0, 1, 2, and 3.....	do... 4
Knives, parachute, special.....	each... 4
Lines, suspension, forward basket (1 white) (M mark).....	do... 2
Lines, suspension, center basket (2 white) (M marks).....	do... 2
Lines, suspension, rear basket (3 white) (M marks).....	do... 2
Manometer liquid.....	pint... 1
Megaphones, 18-inch, artillery type.....	each... 2
Needles, sewing machine, fine point.....	do... 24
Needles, sewing machine, diamond point.....	do... 24
Oil, 3-in-1.....	bottles... 12
Rings, steel, balloon, for $\frac{1}{4}$ -inch wire cable, hollow.....	each... 4
Sandbags, with hooks.....	do... 150
Tape, friction, electricians'.....	rolls... 6
Tape, inside (50-yard roll).....	do... 3
Tape, outside (50-yard roll).....	do... 3
Thimbles, No. 2 alm.....	each... 3
Thimbles, No. 3 galvanized iron.....	do... 3
Thread, waxed (8-ounce breaking strength).....	spools... 3
Thread, waxed (2-ounce breaking strength).....	do... 3
Toggles, No. 1, 1 inch by 2 $\frac{1}{2}$ inches, wood.....	each... 10
Toggles, No. 2, 1 $\frac{1}{2}$ inches by 3 inches, wood.....	do... 10
Toggles, No. 3, 2 inches by 4 $\frac{1}{2}$ inches.....	do... 5
Toggles, No. 4, 2 $\frac{1}{2}$ inches by 5 inches, wood.....	do... 5
Toggles, No. 5, 1 $\frac{1}{2}$ inches by 2 $\frac{1}{2}$ inches, metal (brass).....	do... 2
Tubing, rubber, for manometer, $\frac{1}{16}$ inch, 1 D-3 ply C. L. tubing, one piece.....	feet... 65
Twine, red.....	ball... 1
Twine, white.....	do... 1
Twine, blue.....	do... 1

NOTE 49.

CONSTRUCTION EQUIPMENT, COMPANY RESERVE.

This equipment peculiar to airdrome company, contains the heavier construction equipment needed to enable a whole platoon to be engaged on the erection of hangars.

Quantity.		Quantity.	
Bars, pinch, large, 4 feet 8 inches.....	1	Wrenches, monkey, 12-inch.....	6
Blocks, triple, 8-inch.....	2	Wrenches, monkey, 21-inch.....	2
Blocks, double, 8-inch.....	2	Wrenches, Stillson, 12-inch.....	2
Blocks, single, 8-inch.....	2	Wrenches, S, 10-inch.....	24
Blocks, snatch, 8-inch.....	2	Wrenches, S, 8-inch.....	24
Chain, log, 14-foot, $\frac{3}{8}$ iron.....	2		
Chest, tool, construction, company airdrome... 1		SUPPLIES (TWO MONTHS).	
Gin poles, 40-foot holst.....	3	Bolts, machine, $\frac{3}{4}$ by 6 inches.....	100
Hammers, napping, 3 pounds, handled.....	3	Bolts, machine, $\frac{3}{4}$ by 8 inches.....	100
Jacks, screw, 10-ton.....	2	Nails, wire, spikes, 60 d.....	1 keg
Oil can.....	1	Nails, wire, 16d.....	1 do.
Peavies, handled.....	2	Rope, manila, 1 inch diameter, 250-foot coils... 4	
Sledge, 8-pound, handled.....	2	Rope, manila, $\frac{3}{4}$ inch diameter, 500-foot coil... 1	
Wedges, steel, 5-pound.....	2	Rope, manila, $\frac{1}{2}$ inch diameter, 100-foot coils... 2	

¹ Omit this item for airship company.

Notes for basic table of allowances, Air Service—Continued.

NOTE 50.

CONSTRUCTION EQUIPMENT, ERECTOR, AIRDROME.

Quantity.		Quantity.
1	Bars, pinch, 30-inch	1
1	Bars, wrecking, claw and gooseneck, 30-inch	1
2	Blocks, double, 8-inch	2
1	Blocks, snatch, 8-inch	1
1	Chain, log, 10-foot, $\frac{3}{4}$ iron	1
1	Chest, erector rigger set, airdrome	1
1	Chisel, cold, $\frac{3}{4}$ -inch	1
1	Climbers, lineman's, complete	1
1	Hammer, ballpeen, 2-pound	1
1	Hatchet, broad, 5-inch, cut, double-bevel	1
1	Oil can	1
1	Pliers, side-cutting, 8-inch	1
1	Rule, folding, 5-foot	1
1	Saw, frame, hack, extension, 12-inch	1
	Sledge, 8-pound, handled	1
	Tape, metallic, 50-foot	1
	Wrenches, monkey, 12-inch	2
	Wrenches, monkey, 21-inch	1
	Wrenches, Stillson, 12-inch	1
	Wrenches, Stillson, 10-inch	2
	Wrenches, Stillson, 8-inch	2
	SUPPLIES (TWO MONTHS).	
	Blades, hacksaw, 12-inch, 14 teeth	1
	Marline, ball, 1-pound	1
	Rope, manila, 1 inch diameter, 250-foot coil	1
	Rope, manila, $\frac{3}{4}$ inch diameter, 18-foot lashings	2

NOTE 51.

CONSTRUCTION EQUIPMENT, AIRDROME.

This set contains hand tools, used by laborers and for use in cleaning fields, handling earthwork. Tools are sufficient to permit a whole platoon to be engaged on the one class of work.

Quantity.		Quantity.
2	Adzes, handled, 32-inch, 3 $\frac{1}{2}$ -inch cut	2
1	Auger, earth, 2-inch, sectional shank, handled	1
18	Axes, handled, 36-inch	18
6	Bars, pinch, large, 4 feet 8 inches	6
6	Bars, wrecking, claw and gooseneck, 30-inch	6
6	Bars, wrecking, claw and pinch point, 30-inch	6
1	Chain, log, 14-foot, $\frac{3}{4}$ -inch iron	1
1	Chest, tool, laborers, airdrome	1
1	Drills, stone, single-bit, 1 by 18 inches	1
1	Drills, stone, single-bit, 1 by 30 inches	1
1	Grinder, tool, 6 by 1 $\frac{1}{4}$ inches, wheel	1
2	Hammer, mason's, 3-pound, handled	2
6	Hatchets, broad, 5-inch, double bevel	6
6	Hatchets, with sheaths	6
9	Mattocks, pick, large, handled	9
1	Oil can	1
6	Picks, drifting, handled	6
6	Picks, railroad, handled	6
9	Pliers, side-cutting, 8-inch	9
4	Rakes, 18-inch head, 16 teeth, handled	4
1	Saw frame, hack, extension, 12-inch	1
2	Saws, crosscut, 2-man, handled, 5 feet	2
24	Shovels, D-handled, round point	24
6	Shovels, long-handled, round point	6
	Sledges, 8-pound, handled	2
	Screw driver, 10-inch	2
	Wedges, wood choppers, 3-inch	4
	Wrenches, monkey, 8-inch	1
	Wrenches, monkey, 12-inch	2
	Wrenches, Stillson, 18-inch	2
	SUPPLIES (TWO MONTHS).	
	Blades, hack saw, 12-inch, 14 teeth	1
	Crayons, lumber, blue	4
	Crayons, lumber, red	4
	Handles, axe, 36-inch	12
	Handles, pick, drifting, 36-inch	6
	Handles, pick, railroad, 36-inch	6
	Handles, saw, 2-man	1
	Handles, sledge, 36-inch	2
	Marline, 1-pound balls	4
	Nails, wire, spike, 60d	50
	Nails, wire, spike, 30d	20
	Nails, wire, 10d	20
	Oil, machine	1
	Rope, manila, 1-inch, diameter, 250 feet coil	1
	Rope, manila, $\frac{3}{4}$ -inch diameter, 200 feet coil	1
	Rope, manila, $\frac{3}{4}$ -inch diameter, 18 feet lashings	12

NOTE 52.

DRAFTING EQUIPMENT.

Quantity.		Quantity.
1	Board, drawing, 31 by 42 inches, with trestle	1
1	Chest, 44 by 33 by 18 inches	1
1	Eraser, steel	1
1	Frame, blue-printing, 24 by 30 inches	1
1	Instruments, drawing	1
1	Paint, box, assorted water colors	1
1	Protractor, semicircular, German silver, 8 inches, $\frac{1}{4}$ ° vernier reading to 1 minute, arm 6 inches beyond outer edge	1
1	Scales, architect's, 12-inch, with sheath	1
1	Scales, engineer's, 12-inch, with sheath	1
1	Scales, map, metric, 30 cm	1
	Shears, trimming, 14-inch	1
	Shield, erasing, metal	1
	Straight edge, flat, ebonite, 30-inch	1
	Tape, metallic, 50-foot	1
	T square, movable head, 36-inch	1
	Tray, blue-print, zinc, 24 by 30 inches	1
	Triangle, transparent, 30° by 60°, 6-inch	1
	Triangle, transparent, 30° by 60°, 12-inch	1
	Triangle, transparent, 45° by 45°, 4-inch	1
	Triangle, transparent, 45° by 45°, 10-inch	1
	Tubes, tin, 39 by 4 inches diameter	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 52—Continued.

DRAFTING EQUIPMENT—Continued.

SUPPLIES (TWO MONTHS).		SUPPLIES (TWO MONTHS)—continued.	
	Quantity.		Quantity.
Book, record.....	1	Pencils, crayon, Blaisdell, yellow.....	2
Brushes, water-color.....	2	Pencils, drawing, B.....	6
Cloth, tracing, 30-inch, 24-yard roll.....	1	Pencils, drawing, F.....	6
Erasers, art gum, 3 by 3 by 1 inch.....	3	Pencils, drawing, 2H.....	6
Erasers, rubber, ink.....	2	Pencils, drawing, 4H.....	12
Erasers, rubber, pencil.....	2	Pencils, drawing, 6H.....	2
Ink, drawing, black.....	bottle.. 2	Penholders.....	3
Ink, drawing, blue.....	do.... 1	Pens, crow-quill, with holder.....	2
Ink, drawing, carmine.....	do.... 1	Pens, mapping, Stillott's 303.....	12
Pads, pencil pointing, 1½ by 4 inches.....	1	Pins, cone.....	1
Pads, scratch, 6 by 9 inches.....	6	Powder, tracing cloth, can.....	1
Paper, blue-print, 30-inch, 50-yard rolls.....	1	Tacks, thumb, gross.....	1
Paper, brown-print, 30-inch, 10-yard rolls.....	1	Tape, adhesive, roll.....	1
Paper, blotting, 4 by 9 inches.....	dozen.. 1	In addition to the above, for balloon com-	
Paper, cross-section, 20-inch, 20-yard roll.....	1	panies, the following items will be issued:	
Paper, drawing, 30-inch, 25-yard roll.....	1	Board, drawing, 18 by 24 inches.....	3
Paper, profile, 20-inch, 20-yard roll.....	1	Case, map, 19 by 25 inches.....	1
Paper, tracing, 30-inch, 20-yard roll.....	1	Protractor, circular, celluloid, special U. S. A.	
Pencils, crayon, Blaisdell, blue.....	2	Balloon School drawing No. 155.....	1
Pencils, crayon, Blaisdell, brown.....	2	Straight edge, flat, ebonite, 30-inch.....	1
Pencils, crayon, Blaisdell, green.....	2		
Pencils, crayon, Blaisdell, red.....	2		

NOTE 52-A.

DRAFTING EQUIPMENT, LIGHTER-THAN-AIR.

	Quantity.
Chest, marked "Drawing and miscellaneous instruments (D)," 44 by 33 by 18 inches.....	1
Contents:	
Alidades (infantry sketching board type).....	each.. 3
Board, drawing, large, 36 by 42 inches.....	do.... 2
Brushes, for water color.....	do.... 4
Case, map, Bristol board.....	do.... 1
Clinometers (Engineer Corps standard type).....	do.... 3
Containers, tin tube, 39 by 4 inches diameter, for drafting paper.....	do.... 3
Erasers, pencil.....	do.... 3
Erasers, art gum.....	do.... 3
Erasers, ink.....	do.... 3
Eraser shield.....	do.... 1
Ink, Higgin's waterproof, 1 red, 2 black, 1 blue, and 1 brown, each.....	bottle.. 5
Instruments, drawing.....	set.. 2
Paint box, assorted water colors, with brushes.....	box.. 1
Paper, drawing, roll, 30 inches wide, 24 yards long.....	roll.. 1
Paper, cross-section.....	do.... 1
Paper, tracing, 30 inches wide, 24 yards long.....	do.... 1
Paper, sketching, 16 by 16 inches, pad 100 sheets.....	sheets.. 100
Penholders.....	each.. 1
Pens, drawing.....	dozen.. 1
Pencils, soft lead.....	each.. 12
Pencils, hard lead.....	do.... 12
Pencils, medium hard lead.....	do.... 12
Pencils, assorted colors, 3 each of blue and red, 2 each of green, yellow, and brown.....	do.... 12
Protractor, 6-inch, semicircular.....	do.... 1
Protractor, circular, celluloid, special U. S. A. balloon school drawing, No. 155.....	do.... 1
Protractor, 12-inch sector, graduated in mils.....	do.... 1
Rules, 12-inch (1 engineer's and 1 architect's).....	do.... 2
Rules, flat, ebonite or steel, 40-inch.....	do.... 2
Rules, metric, about 1 foot long.....	do.... 2
Rule, parallel, 14-inch.....	do.... 1
Square, "T," 42-inch, wood.....	do.... 1
Tacks, thumb, boxes of 100, each.....	box.. 2

Notes for basic table of allowances, Air Service—Continued.

NOTE 52-A—Continued.

DRAFTING EQUIPMENT, LIGHTER-THAN-AIR—Continued.

Chest, marked "Drawing and miscellaneous instruments (D)," 44 by 33 by 18 inches—Continued.

Contents—Continued.	Quantity.
Tape, measuring, 60-foot, metallic.....	1 each.. 1
Tables, plane, 16 by 16 inches (Engineer Corps standard).....	do.... 1
Triangle, 30 degrees, length 12 inches.....	do.... 1
Triangle, 30 degrees, length 15 inches.....	do.... 1
Triangle, 45 degrees, length 8 inches.....	do.... 1
Triangle, 45 degrees, length 15 inches.....	do.... 1
Tripods, small, extension, for plane table (Eastman camera type).....	do.... 3

NOTE 53.

ELECTRICIAN'S EQUIPMENT.

Quantity.	SUPPLIES FOR ONE MONTH—continued.	Quantity.
Belt, complete with safety strap.....	1	
Chest, electrical engineer tool chest, Signal Corps Specification 192, shown in S. C. Manual No. 3, 1916.....	1	
Climbers, linesman, complete with straps....	1	
Flash light, 1½ by 11 inches.....	1	
Gloves, linesman, rubber, pair.....	1	
SUPPLIES FOR ONE MONTH.		
Battery, 1½ by 11 inches.....	1	
Blades, hacksaw, 10-inch, 18 teeth...dozen..	1	
Cleats, 2-wire, porcelain.....pair.....	100	
Cords, lamp, No. 18, cotton covered.....feet..	250	
Fuses, inclosed, 30-ampere, 250-volt.....	6	
Fuses, plug, 15-ampere, 250-volt.....	24	
Knobs, split, porcelain, No. 5½.....	100	
Loom, circular, ¼-inch.....feet..	5	
Nailheads, leather.....ounce..	8	
		Nails, wire, 10d.....pounds.. 2
		Nails, wire, spikes, 40d.....do.... 2
		Oil, machine.....quart.. 1
		Paste, solder, 2-ounce tin..... 1
		Rope, manila, ½-inch.....feet.. 200
		Screws, wood, flathead, 2½-inch, No. 8, dozen. 6
		Screws, wood, flathead, 1½-inch, No. 7, dozen. 6
		Sockets, lamp, with key..... 10
		Solder, wire, spool.....pound.. 1
		Switch, 2-blade, single throw..... 4
		Tape, friction, ¼-inch.....pounds.. 4
		Tape, rubber, ½-inch.....pound.. 1
		Wire, copper, No. 14, B. & S. gauge, R. C., feet..... 1,000
		Wire, copper, No. 8, B. & S. gauge, W. P., feet..... 1,000

NOTE 54.

FIELD LIGHTING TRUCK BODY.

(Standard machine-shop body, wooden fixed top, on steel uprights. Standardized B chassis, with seat top, canvas sides with 6 poles for sides. Box containing tools and equipment.)

For flood-light harness:

22 footman loops with bolts.

22 eyebolts.

Generating set:

Generator, Type K-7, 15 k. w., 120-volt, compound wound Allis-Chalmers.

Engine, Type A, 4-cylinder, 4-cycle, 4½ by 5½ inches, Wisconsin.

One hot-air tube and stove for connection to carburetor.

One Riseman magneto equipped with impulse starter.

One Stromberg 1½-inch type G-3 carburetor.

One Simplex governor with drive.

One set spark plugs and wiring for engine.

One radiator complete with water connections.

One 25-gallon gasoline tank.

One Stewart vacuum gasoline system.

One double lever spark and throttle control segment with connections to spark lever on magneto and to throttle lever on carburetor.

Subbase.

Allis-Chalmers flexible coupling between engine and generator.

Genco muffler with cut-out.

Exhaust piping.

4 extra spark plugs (in tool box).

Notes for basic table of allowances, Air Service—Continued.

NOTE 54—Continued.

FIELD LIGHTING TRUCK BODY—Continued.

Switchboard:

Ebony-asbestos board 30 by 42 by 1 inch, mounted on pipe framework—

- One 300-ampere 6-inch jewel ammeter, back connected, with shunt.
- One 150-volt, 6-inch jewel voltmeter, back connected.
- One field rheostat (furnished with generator).
- One 200-ampere D. P. S. T. fused knife switch, with fuses.
- One S. P. S. T. field switch.
- Three 100-ampere D. P. S. T. fused knife switches with fuses.
- Three 60-ampere D. P. S. T. fused knife switches with fuses.
- Cardholders.

Fuses and renewable links—

- Two 300-ampere 250-volt, cartridge fuses, with 6 renewable links.
- Six 100-ampere 250-volt cartridge fuses, with 27 renewable links.
- Six 60-ampere 250-volt cartridge fuses with 27 renewable links.

Plug box—

Six type A F terminal plugs.

Complete electrical connections run in conduit with conduit fittings from generator to switchboard and from switchboard to plug box cable reel supports—

- Two bolsters with straps, boxes and bolts.
- One shaft, bolts, nuts, lock washers, set screws, etc.

Cable reels:

Two wooden reels, 42 inches diameter by 18-inch drum, 22 inches overall width.

Chuck blocks for reels:

- Adjusting screw and hardware.
- Socket ratchet wrench.

Cable and connectors:

- Twelve 20-foot lengths, No. 14 duplex, each with 1-type A M, 1-type A F.
- Two 20-foot lengths, No. 14 duplex, each with 1-type A M and 1-waterproof socket.
- Three 100-foot lengths, No. 14 duplex, each with 1-type A M and 1-type B.
- One 10-foot length, No. 6 duplex, with 1-type A M and 1-type A F.
- Two 15-foot length, No. 6 duplex, each with 1-type A M and 1-type A F.
- Two 550-foot length, No. 6 duplex, each with one type A M and 1-type B.
- Four 100-foot length, No. 6 duplex, each with 1-type B, 1-type C and 1-type D.

Flood lights:

- Twelve flood lights with clear glass doors and Brown reflectors (with bulbs).
- Six flood lights with clear glass doors and standard reflectors with bulbs.
- Two signal lights.
- Twelve type A M connectors for these lights.

Tripods:

- Four 11-foot tripods.
- Eight 6-foot tripods.

Large lamp box, supports and fittings.

Small lamp box.

Lamp board, 10 Edison sockets.

Two brackets for mounting signal light.

Eighteen brackets for holding tripods with chains and snaps.

Two Pyrene guns and brackets.

Tools, canvas bag containing—

- Two 6-inch side-cutting pliers, Utica No. 50.
- One 7-inch Universal pliers, Bernard No. 60.
- One 6-inch screw driver, Harwood, or equal.
- One 8-inch screw driver, Harwood, or equal.
- One 8-inch monkey wrench, Billings & Spencer, model E.
- One 14-inch Stillson wrench, perfect handle.
- One 1½-inch machinist's hammer, ballpeen, Billings & Spencer or Maydolo.
- Two center punches, Brown & Sharpe No. 765, ½-inch.
- One 8-inch flash light.
- Two 1-pint oil cans, one with 8-inch and one with 4-inch spouts.
- Six ¼-inch rolls ¼-inch friction tape.
- Two 8-inch round files stem taper No. 1 cut.
- One 8-inch flat file, mill.
- One 2½-inch ax and handle.
- One bundle 20-foot, No. 16 soft-iron wire.
- One 8-inch offset screw driver, Billings & Spencer, model Z.

Eleven flood-light harnesses.

Twelve obstacle lights complete with batteries (with bulbs).

Notes for basic table of allowances, Air Service—Continued.

NOTE 52-A—Continued.

DRAFTING EQUIPMENT, LIGHTER-THAN-AIR—Continued.

Chest, marked "Drawing and miscellaneous instruments (D)," 44 by 33 by 18 inches—Continued.		Quantity.
Contents—Continued.		
Tape, measuring, 60-foot, metallic.....	each..	1
Tables, plane, 16 by 16 inches (Engineer Corps standard).....	do..	1
Triangle, 30 degrees, length 12 inches.....	do..	1
Triangle, 30 degrees, length 15 inches.....	do..	1
Triangle, 45 degrees, length 8 inches.....	do..	1
Triangle, 45 degrees, length 15 inches.....	do..	1
Tripods, small, extension, for plane table (Eastman camera type).....	do..	3

NOTE 53.

ELECTRICIAN'S EQUIPMENT.

Quantity.		SUPPLIES FOR ONE MONTH—continued.	
Belt, complete with safety strap.....	1		Quantity.
Chest, electrical engineer tool chest, Signal Corps Specification 192, shown in S. C. Manual No. 3, 1916.....	1	Nails, wire, 10d.....	pounds.. 3
Climbers, linesman, complete with straps....	1	Nails, wire, spikes, 40d.....	do.. 3
Flash light, 1½ by 11 inches.....	1	Oil, machine.....	quart.. 1
Gloves, linesman, rubber, pair.....	1	Paste, solder, 2-ounce tin.....	1
		Rope, manila, ½-inch.....	feet.. 200
		Screws, wood, flathead, ¼-inch, No. 8, dozen.	6
		Screws, wood, flathead, ½-inch, No. 7, dozen.	6
		Sockets, lamp, with key.....	10
		Solder, wire, spool.....	pound.. 1
		Switch, 2-blade, single throw.....	4
		Tape, friction, ½-inch.....	pounds.. 4
		Tape, rubber, ½-inch.....	pound.. 1
		Wire, copper, No. 14, B. & S. gauge, R. C.,	feet..... 1,000
		Wire, copper, No. 8, B. & S. gauge, W. P.,	feet..... 1,000

SUPPLIES FOR ONE MONTH.

Battery, 1½ by 11 inches.....	1
Blades, hacksaw, 10-inch, 18 teeth... dozen..	1
Cleats, 2-wire, porcelain..... pair..	100
Cords, lamp, No. 18, cotton covered..... feet..	250
Fuses, inclosed, 30-ampere, 250-volt.....	6
Fuses, plug, 15-ampere, 250-volt.....	24
Knobs, split, porcelain, No. 5½.....	100
Loom, circular, ½-inch..... feet..	5
Nailheads, leather..... ounce..	8

NOTE 54.

FIELD LIGHTING TRUCK BODY.

(Standard machine-shop body, wooden fixed top, on steel uprights. Standardized B chassis, with seat top, canvas sides with 6 poles for sides. Box containing tools and equipment.)

For flood-light harness:

- 22 footman loops with bolts.
- 22 eyebolts.

Generating set:

- Generator, Type K-7, 15 k. w., 120-volt, compound wound Allis-Chalmers.
- Engine, Type A, 4-cylinder, 4-cycle, 4½ by 5½ inches, Wisconsin.
 - One hot-air tube and stove for connection to carburetor.
 - One Riseman magneto equipped with impulse starter.
 - One Stromberg 1½-inch type G-3 carburetor.
 - One Simplex governor with drive.
 - One set spark plugs and wiring for engine.
 - One radiator complete with water connections.
 - One 25-gallon gasoline tank.
 - One Stewart vacuum gasoline system.
 - One double lever spark and throttle control segment with connections to spark lever on magneto and to throttle lever on carburetor.

Subbase.

- Allis-Chalmers flexible coupling between engine and generator.
- Genco muffler with cut-out.
- Exhaust piping.
- 4 extra spark plugs (in tool box).

Notes for basic table of allowances, Air Service—Continued.

NOTE 54—Continued.

FIELD LIGHTING TRUCK BODY—Continued.

Switchboard:

Ebony-asbestos board 30 by 42 by 1 inch, mounted on pipe framework—

One 300-ampere 6-inch jewel ammeter, back connected, with shunt.

One 150-volt, 6-inch jewel voltmeter, back connected.

One field rheostat (furnished with generator).

One 200-ampere D. P. S. T. fused knife switch, with fuses.

One S. P. S. T. field switch.

Three 100-ampere D. P. S. T. fused knife switches with fuses.

Three 60-ampere D. P. S. T. fused knife switches with fuses.

Cardholders.

Fuses and renewable links—

Two 300-ampere 250-volt, cartridge fuses, with 6 renewable links.

Six 100-ampere 250-volt cartridge fuses, with 27 renewable links.

Six 60-ampere 250-volt cartridge fuses with 27 renewable links.

Plug box—

Six type A F terminal plugs.

Complete electrical connections run in conduit with conduit fittings from generator to switchboard and from switchboard to plug box cable reel supports—

Two bolsters with straps, boxes and bolts.

One shaft, bolts, nuts, lock washers, set screws, etc.

Cable reels:

Two wooden reels, 42 inches diameter by 18-inch drum, 22 inches overall width.

Chuck blocks for reels:

Adjusting screw and hardware.

Socket ratchet wrench.

Cable and connectors:

Twelve 20-foot lengths, No. 14 duplex, each with 1-type AM, 1-type A F.

Two 20-foot lengths, No. 14 duplex, each with 1-type AM and 1-waterproof socket.

Three 100-foot lengths, No. 14 duplex, each with 1-type AM and 1-type B.

One 10-foot length, No. 6 duplex, with 1-type AM and 1-type A F.

Two 15-foot length, No. 6 duplex, each with 1-type AM and 1-type A F.

Two 550-foot length, No. 6 duplex, each with one type AM and 1-type B.

Four 100-foot length, No. 6 duplex, each with 1-type B, 1-type C and 1-type D.

Flood lights:

Twelve flood lights with clear glass doors and Brown reflectors (with bulbs).

Six flood lights with clear glass doors and standard reflectors with bulbs.

Two signal lights.

Twelve type AM connectors for these lights.

Tripods:

Four 11-foot tripods.

Eight 6-foot tripods.

Large lamp box, supports and fittings.

Small lamp box.

Lamp board, 10 Edison sockets.

Two brackets for mounting signal light.

Eighteen brackets for holding tripods with chains and snaps.

Two Pyrene guns and brackets.

Tools, canvas bag containing—

Two 6-inch side-cutting pliers, Utica No. 50.

One 7-inch Universal pliers, Bernard No. 60.

One 6-inch screw driver, Harwood, or equal.

One 8-inch screw driver, Harwood, or equal.

One 8-inch monkey wrench, Billings & Spencer, model E.

One 14-inch Stillson wrench, perfect handle.

One 1½-inch machinist's hammer, ballpeen, Billings & Spencer or Maydole.

Two center punches, Brown & Sharpe No. 765, ⅜-inch.

One 8-inch flash light.

Two 1-pint oil cans, one with 8-inch and one with 4-inch spouts.

Six ¾-inch rolls ¼-inch friction tape.

Two 8-inch round files stem taper No. 1 cut.

One 8-inch flat file, mill.

One 2½-inch ax and handle.

One bundle 20-foot, No. 16 soft-iron wire.

One 8-inch offset screw driver, Billings & Spencer, model Z.

Eleven flood-light harnesses.

Twelve obstacle lights complete with batteries (with bulbs).

Notes for basic table of allowances, Air Service—Continued.

NOTE 55.

INFLATION NET, AIRSHIP.

(See United States Navy Bureau of Construction and Repair, drawing No. 1708.)

NOTE 56.

KITS, MOTOR, OVERHAUL, COMPLETE WITH TOOLS.

	Quantity.		Quantity.
Canvas tool roll.....	1	Rawhide hammer.....	1
Piston pin drift pin.....	1	Valve spring compressor assembly.....	1
Handle for T-shaped socket wrenches, 10-inch..	1	8-inch adjustable open end wrench, 1-inch open..	1
Handle for T-shaped socket wrenches, 12-inch..	1	Thickness gauge, 3½-inch (0.002 to 0.015).....	1
Handle for T-shaped socket wrenches, 8-inch..	1	Oil and grease gun.....	1
Socket wrench combination for ¼ and ⅜ inch..	1	Valve grinding tool.....	1
Crank case lower half stud nut wrench.....	1	Valve grinding compound.....	1
Double-end open wrench ⅜ and ⅝ inch.....	1	Scraper.....	1
Double-end open wrench ⅝ and ⅞ inch.....	1	Screw driver, large (14-inch square shank).....	1
Carburetor wrench.....	1	6-inch mill file.....	1
Cold chisel.....	1	Drift pin.....	1
Cotter pin puller.....	1	Double-end socket wrench, L shape, ⅝-inch....	1
Distributor wrench.....	1	Double-end socket wrench, L shape, ⅞-inch....	1
Combination pliers.....	1	Double-end socket wrench, L shape, 1-inch....	1
Bicycle wrench.....	1	Double open-end wrench for cam-shaft driving shaft and generator driving-shaft nuts.....	1
6-inch pliers, side-cutting.....	1	Propeller hub lock nut wrench.....	1
Hammer, 1-pound.....	1	Propeller hub retaining nut wrench.....	1
Adjustable spanner wrench.....	1	Screw driver, small (6-inch).....	1
Socket wrench T-shaped, ⅝-inch assembly.....	1	Timing disk.....	1
Oil-pump pressure relief valve guide wrench assembly.....	1	Timing disk pointer.....	1
Spark plug wrench.....	1		

NOTE 57.

SAILMAKER'S KIT.

	Quantity.
Awls, curved, set of four.....	1
Awls, curved, No. 000, worked with aid of thimble.....	1
Awls, curved, No. 00, worked with aid of thimble.....	1
Awls, curved, No. 1, worked with aid of thimble.....	1
Awls, curved, No. 3, worked with aid of thimble.....	1
Awls, curved, No. 5, worked with aid of thimble.....	1
Awls, curved, No. 7, worked with aid of thimble.....	1
Awls, harness-maker's, straight, No. 14, with handle.....	1
Awls, harness-maker's, straight, No. 11, with handle.....	1
Awls, harness-maker's, straight, No. 8, with handle.....	1
Awls, harness-maker's, straight, No. 3, with handle.....	1
Awls, harness-maker's, curved, 50 mm., with handle.....	1
Awls, harness-maker's, curved, 70 mm., with handle.....	1
Awls, harness-maker's, curved, 90 mm., with handle.....	1
Grommet set.....	1
Kit, tool, Kennedy.....	1
Palms, sailmaker's.....	4
Pliers, sailmaker's.....	1
Splicer, wood, for rope.....	1
Thimble, harness-maker's.....	1
Tools, special harness, medium, for cutting edges of leather.....	1
Tools, special harness, with sword blade.....	1
Tools, special harness, with straight base knife.....	1
Tools, special harness, with pointed knife, point in center.....	1

SUPPLIES FOR ONE MONTH.

Needles, harness-maker's, assorted sizes.....	set..	1
Needles, harness-maker's, No. 3, worked with the aid of pliers.....	do....	5
Needles, harness-maker's, No. 6, worked with the aid of pliers.....	do....	5
Needles, harness-maker's, No. 8, worked with the aid of pliers.....	do....	5
Needles, harness-maker's, No. 10, worked with the aid of pliers.....	do....	5
Needles, harness-maker's, No. 2, worked with the aid of thimble.....	do....	5
Needles, harness-maker's, No. 0, worked with the aid of thimble.....	do....	5
Needles, harness-maker's, No. 8, worked with the aid of thimble.....	do....	5

Notes for basic table of allowances, Air Service—Continued.

NOTE 58.

MACHINE SHOP TRUCK BODY COMPLETE.

The following items are to be packed in boxes for export and will be assembled in their proper drawer, case, or compartment of the truck on arrival at its destination. This is to insure safe transportation of this special equipment.

All items are to be the equivalent of those specified.

CASE NO. 1.

Body complete with crane, tank racks, etc., boxed for export by contractor. The parts included in this case are:

1 Platform or floor section, including—
Power wiring line.

7 bolsters.

2 sills.

2 tool boxes attached.

All as per B/Ps. MSTB-1 to 17, inclusive, MSTB-22.

1 front bulkhead.

2 center posts.

2 rear posts.

1 top or roof section, including light wiring line.

2 front side gates.

2 rear side gates.

1 tail gate.

1 rack for gas cylinders, including—

Six $\frac{1}{2}$ -inch bolts with two sets of nuts, $\frac{1}{4}$ by $\frac{1}{2}$ -inch cold-rolled steel.

2 oxygen cylinder straps of $\frac{1}{2}$ inch band iron.

2 acetylene cylinder straps of the same material as per blue prints D-33.

6 curtain poles with stakes and ropes.

1 adjustable crane as per blue prints MSTB-13-17, including—

2 crane booms with top and bottom castings.

1 crane bolt for connecting the booms at their tops.

1 block and tackle (backstay or guy rope).

1 block and tackle for hoisting.

CASE NO. 2.

2 pair steps complete, boxed for export by contractor, as per B/P MSTB-18 (B-59).

CASE NO. 3.

1 lathe bench, front of case to be removed and drawers, etc., packed with tools as per packing list. Description, as per B/P MSTB-20 (C-34). Front of case is removable (attached by screws). This should be removed at the warehouse giving access to the drawers D, E, F, G, H, and I and compartment J in which tools should be packed as per following list:

LATHE BENCH.

Drawer D:

1 case, taps, dies with guides and adjustable tap wrench (Green River, or equal), containing 1 plug tap and 1 die of each size—

No. 2-56	No. 5-36	No. 6-40	No. 10-24	$\frac{1}{2}$ "-40	$\frac{3}{8}$ "-32	$\frac{1}{2}$ "-24
No. 3-48	No. 5-40	No. 7-32	No. 12-24	$\frac{3}{4}$ "-40	$\frac{1}{2}$ "-32	
No. 4-36	No. 6-32	No. 8-32	No. 14-20	$\frac{7}{8}$ "-32	$\frac{3}{4}$ "-28	
No. 4-40	No. 6-36	No. 10-32	No. 14-24	$\frac{1}{2}$ "-24	$\frac{3}{8}$ "-20	

1 case, screw plate with taps, dies, collets, and taper taps with two adjustable tap wrenches, hardwood case. U. S. standard, right hand, Pratt & Whitney set No. 2.

$\frac{1}{2}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "
$\frac{1}{4}$ "	$\frac{3}{16}$ "	$\frac{1}{2}$ "	$\frac{3}{4}$ "

With $\frac{1}{2}$ " and $\frac{3}{4}$ " pipe taps and dies.

1 case, screw plate with taps, dies, collets, and plug taps with adjustable tap wrenches, hardwood case.

S. A. E. standard, Pratt & Whitney No. 2 die stock set, or Little Giant No. 5.

$\frac{1}{2}$ "-28	$\frac{3}{8}$ "-20	$\frac{1}{2}$ "-18	$\frac{3}{4}$ "-14
$\frac{3}{8}$ "-24	$\frac{1}{2}$ "-20	$\frac{3}{4}$ "-16	$\frac{1}{2}$ "-18
$\frac{1}{2}$ "-24	$\frac{3}{8}$ "-18	$\frac{1}{2}$ "-16	

Q. R. 7020. No. 2 M die stock set, list No. 219-M. Pratt & Whitney Catalogue No. 2-M, page 32-33.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.

Drawer D—Continued.

1 each dies and plug taps, as follows:

6 mm. 1.0 mm.	12 mm. 1.5 and 1.75 mm.
7 mm. 1.0 and 1.25 mm.	14 mm. 2.0 mm.
8 mm. 1.0 and 1.25 mm.	16 mm. 2.0 mm.
9 mm. 1.25 mm.	18 mm. 1.5 and 2.5 mm.
10 mm. 1.5 mm.	20 mm. 2.5 mm.

Drawer E (4 compartments 9 by 8 inches each):

- 1 boring tool automatic (Goodell and Pratt No. 720).
- 1 lathe dog (Armstrong, Williams, or Billings & Spencer) drop forged No. 1 and No. 3.
- 1 clamp lathe dog (Armstrong, Williams, or Billings & Spencer), drop forged No. 9.
- 1 clamp lathe dog (Armstrong, Williams, or Billings & Spencer), drop forged No. 11.
- 1 clamp lathe dog (Armstrong, Williams, or Billings & Spencer) drop forged No. 12.
- 1 clamp lathe dog (Armstrong, Williams, or Billings & Spencer) drop forged No. 14.
- 1 lathe tool set (Armstrong), 10 tools with high-speed cutters, with extra cutters for U. S. standard thread, $\frac{3}{8}$ by $\frac{1}{4}$ by 5 inches, holder No. 50. Set to include V-thread cutter with $\frac{1}{4}$ by 1 inch tool holders, Armstrong No. 33, or equal.
- 1 cutting off tool (Armstrong No. 30 R).

Drawer F (with straps, etc.):

- 1 bench duster, black china bristles, 8-inch.
- 1 level, machinist's, eclipse (Stanley. No. 34 B-V-4).
- 1 square, double steel (Starrett, No. 14-C).
- 1 bevel protractor, universal (B. & S., No. 496), in case.
- 1 combination set (B. & S. No. 438), No. 7 graduation, 12 inch blades.
- 1 caliper rule (B. & S. No. 391), steel, 4-inch.
- 1 each, rule (B. & S. No. 300), No. 7 graduation, 3 and 6 inch.
- 1 each, caliper, outside, (B. & S. No. 801), 3 and 6 inch.
- 1 each, caliper, inside (B. & S. No. 802), 3 and 6 inch.
- 1 caliper, firm joint transfer, inside (B. & S. No. 827), 10 inch.
- 1 caliper, firm joint transfer, outside (B. & S. No. 826), 10 inch.
- 1 divider (B. & S. No. 800), 3 inch.
- 1 divider (B. & S. No. 800), 6 inch.
- 1 indicator dial test (B. & S. No. 730).
- 1 gauge, center, English tempered (B. & S. No. 650).
- 1 gauge English screw (B. & S. No. 630 or No. 633).
- 1 gauge, thread, U. S. standard (B. & S. No. 724).
- 1 gauge, English screw, metric (B. & S. No. 726).
- 1 gauge, thickness, English (B. & S. No. 642).

Drawer G (2 longitudinal compartments):

- 1 angular cutter (B. & S.) J-10, $2\frac{1}{2}$ by $\frac{1}{2}$ inch, 45°, $\frac{1}{8}$ hole, right hand, high speed, steel.
- 1 angular cutter (B. & S.) J-10, $2\frac{1}{2}$ by $\frac{1}{2}$ inch, 80°, $\frac{1}{8}$ hole, right hand, high speed, steel.
- 1 convex cutter (B. & S.) high speed, $\frac{1}{2}$ inch arbor, $\frac{1}{2}$ by 2 inch No. C-10.
- 1 convex cutter (B. & S.) high speed, $\frac{1}{2}$ inch arbor, $\frac{1}{2}$ by 2 inch, No. C-12.
- 1 convex cutter (B. & S.) high speed, $\frac{1}{2}$ inch arbor, $\frac{3}{4}$ by $2\frac{1}{2}$ inch No. C-14.
- 1 convex cutter (B. & S.) high speed, $\frac{1}{2}$ inch arbor, $\frac{1}{2}$ by $2\frac{1}{2}$ inch No. C-16.
- 1 side milling cutter (B. & S.) high speed, $\frac{1}{2}$ inch arbor, $\frac{1}{2}$ by $2\frac{1}{2}$ inch No. 8-16.
- 1 side milling cutter (B. & S.), high speed, $\frac{1}{2}$ inch arbor, $\frac{3}{4}$ by $2\frac{1}{2}$ inch, No. 8-18.
- 1 side milling cutter (B. & S.), high speed, $\frac{1}{2}$ inch arbor, $\frac{1}{2}$ by $2\frac{1}{2}$ inch, No. 8-20.
- 2 end mill cutters, spiral, No. 2 Morse taper, high speed, right-hand, $\frac{1}{4}$ -inch, E-103.
- 2 end mill cutters, spiral, No. 2 Morse taper, high speed, right-hand, $\frac{1}{4}$ -inch, E-105.
- 2 end mill cutters, spiral, No. 2 Morse taper, high speed, right-hand, $\frac{1}{2}$ -inch, E-108.
- 2 end mill cutters, spiral, No. 2 Morse taper, high-speed, right-hand, $\frac{1}{2}$ -inch, E-117.
- 2 end mill cutters, spiral, No. 2 Morse taper, high speed, right-hand, $\frac{3}{8}$ -inch, E-113.
- 1 polishing wheel, canvas, 6 by 1 inch or 6 by 2 inches.
- 2 saws, metal slitting (B. & S.), high speed, $\frac{1}{2}$ -inch arbor, $\frac{1}{4}$ by $2\frac{1}{2}$ inches, C-51.
- 2 saws, metal slitting (B. & S.), high speed, $\frac{1}{2}$ -inch arbor, $\frac{1}{4}$ by $2\frac{1}{2}$ inches, G-50.
- 2 saws, metal slitting (B. & S.), high speed, $\frac{1}{2}$ -inch arbor, $\frac{1}{2}$ by $2\frac{1}{2}$ inches, G-54.
- 1 steel bar, self-hardening (Armstrong), $\frac{1}{4}$ inch square.
- 1 boring bar (Armstrong), No. 10.
- 2 steel blades, bars, self-hardening (Armstrong), $\frac{1}{2}$ by $\frac{1}{2}$ inch.

Notes for basic table of allowances, Air Service—Continued.

NOTE 53—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.**Drawer H (2 longitudinal compartments):**

1 set taps, bottoming taps, Little Giant, or equal—

One $\frac{1}{8}$ -inch—20. One $\frac{1}{4}$ -inch—20.
 One $\frac{3}{8}$ -inch—24. One $\frac{1}{2}$ -inch—20.
 One $\frac{5}{8}$ -inch—24. One $\frac{3}{4}$ -inch—20.

1 pin reamer, set, No. 000 to No. 8, in flexible roll.

1 screw slotting cutter, arbor, No. 2, Morse taper, $\frac{1}{2}$ -inch.

1 mandrel, Champion No. 1, $\frac{1}{2}$ to $\frac{3}{4}$ inch.

1 mandrel, Champion No. 2, $\frac{3}{4}$ to $1\frac{1}{4}$

1 mandrel, Champion No. 3, $1\frac{1}{4}$ to $1\frac{3}{4}$ inch.

1 mandrel, Champion No. 4, $1\frac{3}{4}$ to $2\frac{1}{4}$ inch.

1 mandrel, Champion No. 5, $2\frac{1}{4}$ to 1 inch.

1 mandrel, Champion No. 6, 1 to $1\frac{1}{2}$ inches.

1 mandrel, Champion No. 7, $1\frac{1}{2}$ to $1\frac{3}{4}$ inches.

1 mandrel, Champion No. 8, $1\frac{3}{4}$ to 2 inches.

1 mandrel each, size $\frac{1}{2}$ inch, $\frac{3}{4}$ inch, $1\frac{1}{4}$ inch, $1\frac{3}{4}$ inch, $2\frac{1}{4}$ inch, $2\frac{3}{4}$ inch, $3\frac{1}{4}$ inch, $4\frac{1}{4}$ inch, tool steel, hardened and ground.

Drawer I (with cover, for grinding wheels, pack with sawdust):

2 grinding wheels, alundum 6 by $\frac{1}{2}$ by $\frac{1}{2}$ inch hole, No. 50K.

2 grinding wheels, alundum, 6 by $\frac{1}{2}$ by $\frac{1}{2}$ inch hole, No. 60M.

2 grinding wheels, alundum, 6 by $\frac{1}{2}$ by $\frac{1}{2}$ inch hole, No. 46M.

2 grinding wheels, alundum, 6 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 46M.

2 grinding wheels, alundum, 6 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 50M.

2 grinding wheels, alundum, 6 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60K.

2 grinding wheels, alundum, $4\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 46M.

2 grinding wheels, alundum, $4\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 50M.

2 grinding wheels, alundum, $4\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60M.

2 grinding wheels, alundum, $4\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60K.

2 grinding wheels, alundum, $1\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 50M.

2 grinding wheels, alundum, $1\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60M.

2 grinding wheels, alundum, $1\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60K.

2 grinding wheels, alundum, $1\frac{1}{2}$ by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60H.

1 grinding wheel, alundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 46M.

1 grinding wheel, alundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 50M.

1 grinding wheel, alundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. 60K.

2 grinding wheels, carborundum, 4 by $\frac{1}{2}$ by $\frac{1}{2}$ inch, hand, No. 46M.

2 grinding wheels, carborundum, 4 by $\frac{1}{2}$ by $\frac{1}{2}$ inch, hand, No. 60K.

1 grinding wheel, carborundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. A-60M.

1 grinding wheel, carborundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. A-30P.

1 grinding wheel, carborundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. A-36Q.

1 grinding wheel, carborundum, 8 by $\frac{3}{4}$ by $\frac{1}{2}$ inch hole, No. A-40M.

1 straight-edge, hardened steel, 39-inch, B. & S. No. 527 or equal.

Compartment J:

Solder, 25 pounds, string $\frac{1}{8}$ and $\frac{1}{4}$.

Babbitt, 25 pounds.

1 pound can whitelead.

1 tube Prussian blue.

2 sticks soapstone.

1 dozen padlocks, R. F. D., each with 2 keys.

2 master keys for above.

100 checks, round, brass, plain, with hole for wire.

2 lanterns, railway, with double guard.

25 decorative light streamers, 1-foot spacing.

2 portable lamp guards with attachment plugs.

25 feet canvasite cord.

CASE NO. 4.

(Either one of the following-named lathes can be furnished.)

One 12-inch by 5-foot Cleveland, Star 12-inch by 5-foot, Reed-Prentiss 11-inch by 5-foot, Hendley 12-inch by 5-foot, Worcester 11-inch by 5-foot lathes, with regular equipment as follows: Direct-connected drive with $\frac{1}{2}$ -horsepower motor, direct current, 110-volt (Robbins & Myers frame No. 122 or equal):

1 taper attachment complete.

1 milling attachment, complete to fit lathe (when furnished). Transposing gears for metric thread chasing.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.

1/2-in. 12-inch by 4-foot Cleveland, Star 12-inch by 5-foot, Reed-Prentiss 11-inch by 5-foot, Hendley 12-inch by 5-foot, Worcester 11-inch by 5-foot lathes, with regular equipment as follows—Continued.

- 1 compound rest.
- 1 quick change gear.
- 1 set wrenches, all necessary for above lathes.
- 1 lead center.
- 4 point centers.
- 1 spur center.
- 1 chuck (Jacobs), fitted to tailstock spindle.
- 1 draw-in chuck attachment.
- 1 set collets for draw-in from $\frac{1}{8}$ to $\frac{1}{2}$ inch by thirty-seconds and 0.15-inch, 0.20-inch.
- 1 drill pad, taper shank.
- 1 work vice plate, large and small, fitted to spindle.
- 1 follow rest.
- 1 steady rest.
- 1 tool post with ring and gib.
- 1 wheel-turning tool rest.
- 1 work center.
- 1 chuck (Westcott), spur geared scroll combination, 4-jaw, 8-inch.
- 1 chuck (Westcott), spur geared scroll combination, 3-jaw, 8-inch.

CASE NO. 5.

Carpenter's bench (as per B/P MSTB-19 (D-26). Export packing case is provided by manufacturer. Front of case is removable (attached by screws). This should be removed at the warehouse giving access to the drawers K, L, M, N, P, Q, R, and S, and compartments O and T, in which tools should be packed as per following list:

Drawer K:

- 2 Drills, Morse, style 107, No. 8-B, with folding or portable drill holder. Drills Nos. 1 to 60, inclusive. Extra drills, 5 each, from 40 to 60, inclusive. One drill each $\frac{1}{4}$ to 1 inch, inclusive, by sixty-fourths, Morse, taper shanks.

Drawer L:

- 4 Drills as 1 countersinks, combined, $\frac{1}{4}$ by 0.073 by 0.082 inch.
- 4 Drills as 1 countersinks, combined, $\frac{1}{4}$ by 0.093 by 0.12 inch.
- 4 Drills as 1 countersinks, combined, $\frac{1}{4}$ by 0.154 by 0.157 inch.
- 1 countersink (fluted), 90°, $\frac{1}{4}$ by $\frac{1}{2}$ inch shank.
- 1 countersink (fluted), 60°, $\frac{1}{4}$ by $\frac{1}{2}$ inch shank.
- 1 Drill, Morse, taper shank, $1\frac{1}{2}$ inch.
- 1 Drill, Morse, taper shank, $1\frac{1}{4}$ to $1\frac{1}{2}$ inch by sixteenths.

CARPENTERS' BENCH.

Drawer M:

- 1 reamer set, taper shank, spiral flute, $\frac{1}{4}$ to $1\frac{1}{2}$ inch by thirty-seconds.

Drawer N:

- 1 drill drift (Armstrong No. 1-A).
- 1 safety drill holder (Armstrong No. 2) Morse taper.
- 1 drill sleeve, Morse taper, No. 1 inside, No. 2 outside.
- 1 drill sleeve, Morse taper, No. 3 inside, No. 2 outside.
- 1 drill sleeve, Morse taper, No. 4 inside, No. 2 outside.
- 1 Starrett time saver No. 185.

Compartment O:

- 1 brazer, 1-gallon capacity, combination kerosene and gasoline.
- 2 bottles with stoppers, glass, 1-gallon, in wood crate.
- $\frac{1}{2}$ gallon Electrolite, 1.300 specific gravity.
- $\frac{1}{2}$ gallon muriatic acid.

Drawer P:

- 1 black diamond, No. 2, mounted wood handle.
- 1 hand drill, ratchet with chain drill attachment, No. 555 (Yankee).
- 1 emery wheel dresser, Huntington or equal.
- 8 cutter wheels, extra for above.
- 1 drill vise (Armstrong Quick Action), No. 2-V.
- 1 each of the following sizes: Yankee ratchet screw drivers, No. 15, 4-inch, and No. 131.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.**Drawer Q:**

- 1 brace, ratchet, Lion Brand, Millers Falls No. 772 or equal, 10-inch sweep.
- 1 expansion bit set, Clark's $\frac{1}{2}$ to 2 inches.
- 1 screw driver bit, $\frac{1}{4}$ -inch width, 6-inch or 4-inch.
- 1 wood bits set in canvas rolls, $\frac{1}{4}$ inch to 1 inch in sixteenths.
- 1 hand drill, ratchet, No. 1530 (Yankee).
- 1 hand drill, ratchet, No. 1545 (Yankee).
- 1 automatic drill, No. 42 (Yankee).
- 1 saw, keyhole, 12-inch.
- 1 saw, hand, 24-inch, 8-point.
- 1 saw, rip, 24-inch, 54-point.
- 1 plane, wood, Bailey's No. 1.
- 1 plane, jack, Bailey's No. 5-C.
- 1 plane, smooth, Bailey's No. 6.
- 1 plane, block, Bailey's No. 15.
- Chisels, wood, 1 set of 7, 1 inch to 1 $\frac{1}{4}$ inches by fourtius.
- 1 spoke shave, iron.
- 1 drawknife, 8-inch Perfect handle.
- 1 rasp, wood, flat, 10 inch or 12 inch.
- 1 rasp, wood, half round, 12-inch.
- 1 hammer, carpenter's claw (Maydole, No. 11), 1 pound 3 ounces.
- 1 hatchet, claw, 2-pound.
- 1 wrecking bar, carpenter's steel, 30-inch.
- 1 nail set, 5 in set.
- 1 screw driver $\frac{1}{4}$ -inch, 8-inch blade.
- 1 oil stone, India (combination), 6 by 2 by 1 inch in box.
- 1 glue pot, enameled, 1 pint.
- 1 glue brush, medium size, iron handle.
- 1 steel square, 24 by 2 inches.
- 1 tape, steel-measuring (Starrett No. 507), 50-foot.
- 1 rule, boxwood, folding (Stanley No. 751), 2-foot.
- 1 rule, zigzag (Stanley No. 855-M), 5-foot.
- 6 carpenter's pencils.

Drawer S:

- 3 carbon scrapers, 1 set, drop-forged.
- 1 felt washer cutter, adjustable.
- 1 trouble shooter (magneto trouble finder).
- 1 valve grinder, electric, Jackson No. 4 or equal.
- 2 valve grinding compound, 4-ounce cans, "A" and "C."
- 1 valve reseator, Healy No. 6, complete.
- 1 valve lifter, chain type, Universal.
- 1 speed indicator (Veeder).
- 1 wheeler puller, 3-arm, Crane Puller Co., or equal.
- 1 wheeler puller, 2-arm, Crane Puller Co., or equal.
- 1 leather punch, revolving spring, 6 tubes (Bernard No. 186).
- 1 grease and oil combination, Boston B-line or equal, 9 ounces.
- 1 box Woodruff keys, assorted.
- 2 boxes lock washers, assorted.
- 1 compressometer.
- 1 measure, copper-plated, 1 quart.
- 1 funnel, copper-plated, flat shape, No. 10.
- 1 funnel, copper-plated, flat shape, No. 27.
- 1 syringe, hydrometer, battery, Autocrat or equal.

Compartment T:

- 3 metal containers, 5-gallon, in wood holders.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—continued.

CASE NO. 6.

(Machinist's bench (as per B/P MSTB-(C-35). Export packing case is provided by manufacturer. Front of case is removable (attached by screws). This should be removed at the warehouse, giving access to the drawers A, B, and C, in which tools should be packed as per following list:)

Drawer A:

- 1 surface plate, 12 by 18 inches, standard cast iron, B. & S. or equal.
- 1 hammer (Maydole), machinist's ball peen, 1-pound.
- 1 hammer (Maydole), machinist's ball peen, 1½-pound.
- 1 hammer (Maydole), machinist's ball peen, 2-pound.
- 1 hammer, solid copper, with handle, 2-pound.
- 1 hammer, solid brass, with handle, 2-pound.
- 1 mallet, rawhide, 11-ounce, 4 by 2½ inches.
- 1 cotter pin puller.
- 1 center punch set, machinist's, 5 in set.
- 1 screw driver, 4-inch blade, ¼-inch diameter.
- 1 screw driver, 12-inch blade, ¼-inch diameter.
- 1 screw driver, offset, ⅝ by 6 inches.
- 1 screw driver, offset, ½ by 4 inches.
- 1 screw driver, bent end, 5-inch.
- 2 C clamps, iron, 4-inch.
- 2 C clamps, iron, 6-inch.
- 2 C clamps, iron, 8-inch.
- 1 wrench, monkey, 6-inch (Billings & Spencer Co., model D).
- 1 wrench, monkey (Billings & Spencer No. 4, model G).
- 1 wrench, socket set, Starrett, or equal (No. 443).
- 1 wrench, crescent, adjustable, 6-inch.
- 1 wrench, crescent, adjustable, 8-inch.
- 1 wrench, crescent, adjustable, 10-inch.

Double end 22½° hexagon head, cap-screw wrenches, Armstrong, or equal, in following sizes:

	Size of screw.	Milled openings.
1 each No. 671D	½ and ⅜ inch	¾ and ⅞ inch.
1 each No. 671E	½ and ⅜ inch	¾ and ⅞ inch.
1 each No. 672D	½ and ⅜ inch	¾ and ⅞ inch.
1 each No. 672E	½ and ⅜ inch	¾ and ⅞ inch.
1 each No. 673D	⅝ and ⅞ inch	¾ and ⅞ inch.
1 each No. 673E	⅝ and ⅞ inch	¾ and ⅞ inch.
1 each No. 674D	⅝ and ⅞ inch	¾ and ⅞ inch.
1 each No. 674E	⅝ and ⅞ inch	¾ and ⅞ inch.
1 each No. 675D	⅝ and ⅞ inch	¾ and ⅞ inch.
1 each No. 675E	⅝ and ⅞ inch	¾ and ⅞ inch.
1 each No. 676D	⅝ and ⅞ inch	¾ and ⅞ inch.

- 1 pliers (Bernard), round-nose, 8-inch, No. 101.
- 1 pliers, needle, long-nose (Klein No. 319B), 6-inch.
- 1 pliers, plain oval, long-nose (Klein No. 319M), 5-inch.
- 1 pliers, round, long-nose (Klein No. 1810A), 5½-inch.
- 1 pliers, side-cutting (Klein No. 112A), 8-inch.
- 1 pliers (Bernard), No. 102, 8-inch.
- 1 pliers, auto, combination (B. & S.), 6-inch.
- 1 pliers, auto, combination (B. & S.), 8-inches.
- 1 pincers, 10-inch.
- 1 nippers, end-cutting, 14-inch, Elm City No. 11 (Bernard).
- 1 nippers, end-cutting, 24-inch, Elm City No. 1 (Bernard).
- 2 extra blades for above.
- 1 each, cold chisel, hand, ⅝, ⅞, 1, and 1½ inch.
- 1 each, cold chisel, hand, cape, ⅞ and 1 inch.
- 1 each, cold chisel, round-nose, ⅞-inch.
- 1 "scrapers," bearing, set of 3, drop forged.
- 2 files, bastard, round, 8-inch.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.**Drawer A—Continued.**

- 2 files, bastard, half-round (Nicholson), 8-inch.
- 2 files, bastard, square (Nicholson), 8-inch.
- 2 files, bastard, three-cornered (Nicholson), 8-inch.
- 2 files, dead smooth, flat, 6-cut (Nicholson), 6-inch.
- 2 files, mill bastard, flat (Nicholson), 8-inch.
- 2 files, second-cut, flat (Nicholson), 8-inch.
- 4 files, three-cornered, slim taper, double-cut, 6-inch.
- 2 files, smooth, flat, No. 4 cut (Nicholson), 8-inch.
- 2 files, round (Nicholson), 8-inch.
- 2 files, second-cut, half round (Nicholson), 10-inch.
- 2 files, second-cut, round (Nicholson), 10-inch.
- 2 files, mill bastard, flat (Nicholson), 10-inch.
- 1 hack-saw frame (Starrett No. 145).
- 12 hack-saw blades (Starrett No. 102), 10-inch.
- 12 hack-saw blades (Starrett No. 103), 10-inch.
- 12 hack-saw blades (Starrett No. 253), 10-inch.
- 1 drift, brass, $\frac{3}{4}$ by 8 inches.
- 1 drift, brass, 1 by 10 inches.
- 1 caliper rule (B. & S. No. 388), steel, 3-inch.
- 1 Nicholson file card and cleaners.

Drawer B (suitcase for plumbers' and metal-working tools):

- 1 hack-saw frame (Starrett No. 145).
- 12 hack-saw blades (Starrett No. 102), 10-inch.
- 12 hack-saw blades (Starrett No. 253), 10-inch.
- 12 hack-saw blades (Starrett No. 103), 10-inch.
- 1 snips, circular, 2 $\frac{1}{2}$ -inch cut.
- 1 snips, tinners', 10-inch, Wis, or equal.
- 1 bolt clippers (Porter's "New Easy" No. 3).
- 1 monkey wrench (Billings & Spencer Model G, No. 2).
- 1 Stillson wrench, solid handle, 10-inch.
- 1 Stillson wrench, 14-inch.
- 1 pipe vise, bench clamp type, to take up to 2-inch pipe.
- 1 pipe cutter, Barnes, 3-wheel.
- 2 hammers, machinist's plain riveting, $\frac{1}{2}$ -pound.
- 3 hammers (Maydole), machinist's ball peen, 1 $\frac{1}{2}$ -pound.
- One $\frac{1}{2}$ -pound soldering copper.
- 2 Everole gasoline torches and soldering copper, complete.
- 1 scriber, B. & S., style 3, No. 778.
- 1 scratch brush, curved handle, 3 rows, 26-gauge wire.
- 1 pipe stocks with taps, dies, and guides, set adjustable, No. 2 Armstrong, $\frac{1}{2}$ -inch, $\frac{3}{4}$ -inch, 1-inch, $1\frac{1}{4}$ -inch, and 1-inch, complete in case.
- 1 each reamer, pipe, tap, No. 2 Briggs, $\frac{1}{2}$ -inch, $\frac{3}{4}$ -inch, 1-inch, $1\frac{1}{4}$ -inch, $1\frac{1}{2}$ -inch, and 1-inch.

Drawer C:

- 12 file handles, assorted sizes, wood, Nicholson or Grover.
- 12 hammer handles, assorted sizes, wood.
- 2 vises, hand (Millers Falls No. 1).
- 2 file brushes (Nicholson), with card and scorer.
- 3 oilers, steel, straight spout, $\frac{1}{2}$ -pint.
- 1 oiler, steel, curved spout, $\frac{1}{2}$ -pint.
- 1 handbook, American Machinist's.
- 2 cans brazing compound.
- 2 fire extinguishers, Pyrene or equal.
- 1 set figures, Stand-Well, $\frac{1}{4}$ -inch, or equal.
- 1 set letters, Stand-Well, $\frac{1}{4}$ -inch, or equal.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.

CASE NO. 7.

- 1 power plant, 5-kilowatt, gasoline-electric, unit (Winton No. 300), with switchboard and connections.
- 1 muffler and brackets for attaching.
- 1 exhaust tube and fittings.
- 1 battery-charging rheostat (Ward-Leonard Universal 2-20).

EXTRA PARTS FOR MOTOR.

- 4 spark plugs.
- 2 valves, complete with springs.
- 2 governor springs.
- 2 priming cups.
- 2 wrist pins.
- 1 piston.
- 4 piston rings.
- 1 pair front main crankshaft bearings.
- 1 pair rear main crankshaft bearings.
- 2 pairs connecting rod bearings.
- 2 camshaft bearings.
- 2 cylinder head gaskets.
- 2 sets generator brushes complete with holders.
- 1 box assorted cotter pins.

CASE NO. 8.

- 1 drill, sensitive, electric, bench (Willey 12-inch), James Clark, jr., manufacturer: 110-volt, direct-current mounted on rear end of carpenter's bench (using lag screws or bolts), if latter are used, nuts or heads must be countersunk in underside of bench top.
- 1 drill chuck, Jacobs No. 3, fitted with No. 1 Morse taper shank.
- 1 electric grinder, tool post No. 2 A. S. D., 110-volt, direct-current (Hisey-Wolf).
- 1 electric grinder, bench type, No. 3 W. D. (Hisey-Wolf)—Willey, James Clark, jr., or United States—110-volt, direct-current.
- 1 electric drill, portable, Duntley, or equal (Van Dorn), Universal.
- 1 gig saw, motor drive (Oliver special), 110-volt, direct-current.
- 1 bench plane, motor drive (Wallace), 110-volt, direct-current.
- 1 punch and shear, combination, bench type (3-A), Buffalo Forge Co. Mounted on right end of lathe bench (tail stock end of bench), using 4 angle slips provided, using bolts or lag screws. Flanges at bottom of punch and shear slip under these clips formed reversible and removable mounting.

CASE NO. 9.

- 1 steel forge, knockdown type, with hand-blower guard, Buffalo Forge Co., No. 625, or equal.
- 1 cover, close-fitting, sheet metal, for hearth.
- 1 anvil, 50 to 65 pounds, steel, solid hardened face.
- 1 cold cutter with handle, 1½-inch bit.
- 1 hot cutter with handle, 1½-inch bit.
- 1 flatter, square, 2-inch, with handle.
- 1 hardie shank to fit anvil.
- 1 bottom swedge, ½-inch, ¾-inch, 1-inch, 1-inch. Shanks to fit anvil.
- 1 sledge, cross peen, with handle, 8-pound.
- 2 tongs, straight lip, 16-inch.
- 2 tongs, curved lip, 16-inch.
- 1 tongs, 1-inch, bolt, 18-inch.
- 1 tongs, ¾-inch, bolt 18 inches.
- 1 each, punch, round with handle, ½-inch, ¾-inch, and 1-inch.
- 1 each, punch, square with handle, ½-inch, ¾-inch.
- 3 aprons, blacksmith's, sheepskin.
- 2 quenching tubes, rectangular, nested, 16 by 12 by 6 inches.
- 2 fire shovels, blacksmith's.
- 1 each, rivet set, ½-inch, ¾-inch, 1-inch, 1-inch.

Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.

CASE NO. 10.

(To be made up and packed for export at warehouse. This will contain 1 oxygen cylinder, 1 acetylene cylinder, 1 welding equipment suit case (steel), and 1 welding supply suit case. If cylinders must be shipped separately, these suit cases are to be packed in case No. 11.)

1 steel suit case, Davis-Bournonville, containing welding, cutting, and decarbonizing outfit, 24½ by 13½ by 6 inches, containing—

- 1 cutting torch.
- 1 welding torch.
- 5 cutting tips.
- 5 welding tips.
- 1 oxygen regulator.
- 1 decarbonizing torch.
- 1 acetylene regulator.
- 25 feet hose, black.
- 1 lighter.
- 25 feet hose, red.
- 1 Bunsen burner.
- 1 pair gloves, canvas.
- 2 wrenches.
- 2 pair goggles, Atlas.
- 1 book, instructions.
- 1 set pressure cards.

1 steel suit case, Davis-Bournonville, containing supplies, 24½ by 13½ by 6 inches, containing—

- 6½ pounds welding rods, Davis-Bournonville, ½-inch.
- 6½ pounds welding rods, Davis-Bournonville, ¼-inch.
- 6½ pounds welding rods, Davis-Bournonville, ⅜-inch.
- 4½ pounds welding rods, Atlas cast iron, ½-inch.
- 9 pounds welding rods, Atlas cast iron, ¼-inch.
- 1 pound welding rods, vanadium steel, ¼-inch.
- 11½ pounds welding rods, nickel steel, ½-inch.
- 4 pounds welding rods, general, ⅜-inch.
- 5½ pounds welding rods, marvel, ¼-inch.
- 2½ pounds welding rods, aluminum, ¼-inch.
- 1 pound welding rods, flux peerless.
- 1 pound welding rods, flux marvel.
- 1 pound sealing powder, cast iron.
- 1 set extra tips for cutting torch No. 3900, Nos. 1, 2, 3, 4, 5.
- 1 set extra tips for welding torch No. 146, Nos. 1, 2, 3, 4, 5.
- 1 set special tips for welding torch for light gauge, Nos. 0, 1, 2, 3, 4.
- 1 set special broaches for cleaning tips.
- 1 pair extra goggles, Atlas.
- 2 pairs extra gloves, canvas.
- ½ dozen renewals, for lighter.
- 1 cylinder, compressed acetylene, 12 by 36 inches, complete with valve and protecting cap.
- 1 cylinder, compressed oxygen, 9½ by 51 inches complete, with valve and cap.

CASE NO. 11.

- 1 arbor press (Greenard No. 3).
- 2 vises, machinist's (Prentiss), No. 19½.
 - 1 set jaw caps, lead, for No. 19½ vise.
 - 1 set jaw caps, copper, for No. 19½ vise.
- 1 ax, medium, Jack Frost.
- 1 mattock pick, 6 pounds.
- 2 shovels, round point, short handled.
- 1 tackle block, 1-inch, steel, with 2 sheaves.
- 1 tackle block, 1-inch, steel, with 3 sheaves.
- 1 manila rope, 1-inch, 200 feet.

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Notes for basic table of allowances, Air Service—Continued.

NOTE 58—Continued.

MACHINE SHOP TRUCK BODY COMPLETE—Continued.

EXTRAS.

3 each of the following sizes of plug taps in boxes; all taps U. S. form threads:

Machine screw sizes—

No. 2—56	No. 4—40	No. 6—32	No. 7—32	No. 10—24	No. 14—20
No. 3—48	No. 5—36	No. 6—36	No. 8—32	No. 10—32	No. 14—24
No. 4—36	No. 5—40	No. 6—40	No. 9—32	No. 12—24	

Fractional sizes—

$\frac{1}{8}$ "—40	$\frac{1}{8}$ "—32	$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—20	$\frac{1}{8}$ "—20	$\frac{1}{8}$ "—20	$\frac{1}{8}$ "—10
$\frac{1}{8}$ "—40	$\frac{1}{8}$ "—32	$\frac{1}{8}$ "—28	$\frac{1}{8}$ "—18	$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—16
$\frac{1}{8}$ "—32	$\frac{1}{8}$ "—28	$\frac{1}{8}$ "—32	$\frac{1}{8}$ "—20	$\frac{1}{8}$ "—16	$\frac{1}{8}$ "—12	$\frac{1}{8}$ "—11	$\frac{1}{8}$ "—14
$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—20	$\frac{1}{8}$ "—20	$\frac{1}{8}$ "—24	$\frac{1}{8}$ "—14	$\frac{1}{8}$ "—13	$\frac{1}{8}$ "—18	$\frac{1}{8}$ "—18

Metric taps—

6 mm.—1.0 mm.	12 mm.—1.5 and 1.75 mm.
7 mm.—1.0 mm.	14 mm.—2.0 mm.
8 mm.—1.0 and 1.25 mm.	16 mm.—2.0 mm.
9 mm.—1.25 mm.	18 mm.—1.5 and 2.5 mm.
10 mm.—1.5 mm.	20 mm.—2.5 mm.

2 each $\frac{1}{2}$ and $\frac{3}{4}$ inch pipe taps in boxes.

3 extra drills each of the following sizes:

- $\frac{1}{8}$ to $\frac{3}{8}$ inch by sixty-fourths, straight shanks, carbon steel.
- $\frac{1}{8}$ to $\frac{1}{2}$ inch by sixty-fourths, Morse taper shanks, high-speed steel.

1 each of letter drills, straight shank, carbon steel, A to Z.

1 each of the following sizes expansion reamers: $\frac{1}{2}$ to $\frac{1}{2}$ inch by thirty-seconds, $\frac{1}{2}$ -inch, $\frac{3}{4}$ -inch, $1\frac{1}{2}$ -inch, 30 mm., 35 mm.

1 taper piston pin reamer for LeRhone motor.

1 each tap wrench (Yankee), Nos. 250, 251, and 1251.

1 tap wrench, Pratt & Whitney, list No. 227, wrench No. 4.

NOTE 59.

MOTOR OVERALL EQUIPMENT, SETS.

Item.	Part No.	Quantity.
Adjustable spanner wrench (Williams).....	474.....	12
Spark plug bushing wrench.....	TA-12035-E-7.....	2
Cam-shaft lining bar.....	TA-11108-D-124.....	2
Stud driver, 8 mm.....	TAM-269.....	3
Main bearing stud nut wrench.....	TAM-323.....	2
Cam-shaft cover screw wrench (high speed).....	TA-12066-E-20.....	6
Cylinder stud nut wrench.....	TA-12066-E-58.....	6
Standard B. & S. inner connecting rod wrench.....	723-G.....	2
Outer connecting rod wrench.....	TA-12066-10.....	2
Engine assembling stand (tilting).....		6
Spark plug wrench.....	TA-11339.....	8
Expansion reamer for wrist pin bushings, 35 mm., size 1.1833.....		2
Valve seat cutter complete (including 24 extra cutters).....	TA-12066-E-5.....	1
Do.....	TA-12066-E-9.....	1
Crank shaft plug screw driver.....	TA-12066-E-5.....	2
High speed wrench, 8 mm.....	TAM-321.....	12
Square socket wrench, 5 mm.....	TA-12015-C-2.....	8
Platon pin drift.....	TA-12015-C-1.....	8
Magneto coupling wrench.....	TA-12066-E-50.....	5
Valve tappet spanner wrench.....	TA-12046-T-1.....	6
Propeller thrust bearing nut wrench.....	A-1150-B.....	12
Water inlet packing nut wrench.....	A-11501-B.....	6
Spark plug wrench handle.....	A-11239-A.....	6
Single end wrench, $\frac{1}{2}$ -inch.....	A-11315-A.....	12
Spark plug wrench.....	A-11339-A.....	6
Spanner wrench.....	AB-11149-B.....	6
10 mm. stud driver.....		2
Grinding compound, $\frac{1}{2}$ -pound cans, 3 of each, A-B.....		6
Blow torch.....		2
Pliers, cutting.....		12
Pliers, gas.....		12
Brass hammers, $1\frac{1}{2}$ -pound.....		4
Babbitt hammers, 2 pound.....		4
Taps and dies, all sizes.....		4

Notes for basic table of allowances, Air Service—Continued.

NOTE 59—Continued.

MOTOR OVERALL EQUIPMENT, SETS—Continued.

Item.	Part No.	Quantity.
Screwdriver, long (grinding in valves).....	T-A-12066-E-27.....	1
Spark plug bushing (removing or installing spark plug bushing).....	T-A-12066-E-7.....	1
Cam-shaft gear nut wrench (removing cam-shaft gear nut).....	T-A-M-331.....	1
Valve tappet wrench (removing or installing valve tap).....	T-A-12066-E-18.....	1
10 mm. main bearing stud nut wrench (removing main bearing stud nut).....	T-A-M-323.....	1
Cylinder stud nut wrench (removing cylinder stud base nut).....	T-A-12066-T-72.....	1
Spark plug wrench (installing and removing spark plugs).....	T-A-12066-E-66.....	1
Thrust ball bearing nut wrench (installing or removing thrust bearing nuts).....	11150.....	1
Crank shaft plug bench screwdriver (removing plugs in crank throws).....	T-A-12066-C-5.....	1
High-speed wrench for 8 mm. nut (removing lower half crank case).....	T-A-M-321.....	1
Valve tappet spanner wrench (adjusting tap when retiming motors).....	11149.....	1
Oil pump wrench (removing oil pump break and water pump).....	T-A-12066-E-60.....	1
Outside connecting rod nut wrench (removing or installing outside connecting rod bolts).....	11688-T-4.....	1
Inner connecting rod nut wrench (removing or installing inner connecting rod bolts).....	11690-T-4.....	1
Propeller hub nut wrench assembly (removing or installing propeller hub nuts).....	11439.....	1
Socket wrench (assembling crank shaft centering lock nut and crank shaft nut).....	12118-T-1.....	1
Magneto gear puller assembly (removing magneto gears).....	12122-T-1.....	1
Cam-shaft gear puller (removing gear from cam shaft).....	T-A-12027-C-1.....	1
Cylinder assembly stand (holding cylinder while assembling valves).....	D-101-M.....	1
Valve lifter assembly (removing valves from cylinder).....	T-A-12066-E-6.....	1
Cam-shaft lining bar (lining cam-shaft bearings at assembly).....	T-A-11103-D-124.....	1
Valve closing clamp (holding valves while assembling to tappets to prevent distortion to stem).....	D-369.....	1
Timing disk and scale with keyway entire length of hub (installation on crank case to check timing of valves and ignition at assembly).....	T-A-12066-E-1.....	1
Wooden motor assembly, tilting stand (dismantling and assembling motor).....	C-233.....	1
631 reamer (reaming new exhaust valve guides).....	T-A-12075-C-8.....	1
629 reamer, 16 mm. (reaming new inlet valve guides).....	.....	1
1 1/4-inch reamer (reaming piston pin bushing on new inner connecting rod).....	.....	1
Valve seating cutter complete (reseating valve seats).....	T-A-12066-E-5 and E-9.....	1
Thrust ball bearing puller (removing thrust ball bearing).....	T-A-12066-E-31.....	1
Line reamer for main bearing (Martel reamer, field service type; reaming crank shaft bearings when installing new bearings).....	T-A-12045-C-2.....	1
Ball bearing driver (installing crank shaft ball bearings).....	12113-T-3.....	1
2 mm. feeler gauge (adjusting clearance of valves over tappets).....	12066-E-8.....	1
Dead center indicator (finding upper dead center of pistons).....	T-A-12066-F-2.....	1
Valve adjusting wrench (valve adjusting).....	12028.....	1

NOTE 60.

OFFICE EQUIPMENT.

For company and regimental field desk see notes 32 and 33, Circular No. 152, War Department, 1920. Instructions covering the purpose for which these desks are to be used by organizations, the method of packing them, and other instructions are contained in section X, Special Regulations No. 57, War Department, 1919.

In addition to the publications and blank forms prescribed for the field desks the following to be carried in containers other than the field desks are required:

No. of copies.	Description.	Form No.
O. D. A. S.		
40	Semimonthly consolidated vehicle report.....	57
12	Requisition.....	2
24	*Airplane condition record.....	4
60	*Daily airplane report.....	10
60	*Airplane flying time record.....	12
60	*Engine running time record.....	13
60	Memorandum receipt.....	19
24	Wreck report.....	20
90	*Daily oil house report.....	21
24	*Out of commission tag.....	32
24	*Repairable part tag.....	33

Notes for basic table of allowances, Air Service—Continued.

NOTE 60—Continued.

No. of copies.	Description.	Form No.
O. D. A. S.—continued.		
24	*Not worth repairing part tag.....	24
24	*Serviceable part tag.....	25
24	*Flight test report.....	26
12	*Monthly report of unsatisfactory performances of planes, engines, their parts and accessories.....	37
6	Inventory of machinery and tools.....	28
24	*Notification of inspection.....	54
6	Binders (general files).....	84
6	do.....	84a
24	*Engine card.....	85
24	*Airplane card.....	86
40	Motor vehicle receipt.....	108
12	Procurement form.....	92
12	Report of local purchases (revised).....	98
12	Report of local purchases (continued).....	92a
12	*Gas report.....	96
24	Trades report.....	98
12	Air Service Squadron (company or detachment).....	99
1	*Orders No. 5, O. D. A. S., W. D. 2/19/20, Cross-Country Flight Regulation.....	
FOR AIRDROME COMPANY ONLY. (Additional.)		
1	Manuals, Architects' and Builders' Pocketbook, Kidder.....	
1	Manual, Civil Engineer's Pocketbook, Merriman.....	
1	Electrical Engineer's Pocketbook, Foster.....	
1	Highway Engineer's Handbook, Harger and Bonney.....	
1	Mechanical Engineer's Handbook, Marks.....	

*Omit these blanks from field desk of airplane, engine, flight formation, photographic, and communication sections.

OFFICE EQUIPMENT.

All Air Service organizations higher than groups and, in addition, permanent fields, are issued two regimental field desks for headquarters and one for the supply officer. (Cir. No. 152, W. D., 1920.)

All Air Service organizations below wings, except photographic and communications sections, are issued one regimental field desk. (Cir. No. 152, W. D., 1920.)

Photographic and communication sections and flights operating independently, are issued one field desk "A" and one field desk "B." (Cir. No. 152, W. D., 1920, and S. R. No. 57, W. D., 1919.)

In addition to the publications and blank forms prescribed for the field desks, the following to be carried in containers other than the field desks are required:

Form No.	Description.	No. of copies.
O. D. A. S.		
1	Stores, Ledger.....	1
2	Requisition.....	200
4	Airplane condition record.....	144
8	Stores, charge.....	200
9	do.....	200
10	Daily airplane report.....	360
12	Airplane flying time record.....	360
12	Engine running time record.....	360
19	Memorandum receipt.....	360
20	Wreck report.....	144
21	Daily oil house report.....	540
22	Out of commission tag.....	144
33	Repairable part tag.....	144
34	Not worth repairing part tag.....	144
35	Serviceable part tag.....	144
36	Flight test report.....	144
37	Monthly report of unsatisfactory performances of planes, engines, their parts and accessories.....	72
57	Monthly consolidated vehicle report.....	240
84	Binders (general files).....	12
84a	do.....	12
85	Engine card.....	144
86	Airplane card.....	144
92	Procurement form.....	72
93	Report of local purchases (revised).....	72
93a	Report of local purchases (continued).....	72
96	Gas report.....	72
98	Trades report.....	144
99	Air Service squadron (company or detachment).....	72
103	Motor vehicle receipt.....	240
	Orders No. 5, O. D. A. S., W. D. 2/19/20, Cross-Country Flight Regulations.....	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 61.

PAINTER'S EQUIPMENT.

	Quantity.
Brushes, sign writing, $\frac{3}{4}$ -inch	4
Brushes, paint, $\frac{3}{4}$ -inch, flat	6
Brushes, sash, 1-inch, flat	6
Brushes, stencil, $\frac{3}{4}$ -inch, round	2
Brushes, varnish, 2-inch, flat	2
Chest, painter's, air-tight	1
Knives, putty, $\frac{1}{2}$ -inch blade	6
Knives, scraping, 3-inch blade	6
Rule, folding 5-foot	1
Torch, blow, 1-quart capacity	2
Stencils, brass, 3-inch, A to Z, 0 to 9	set 1
Stencils, brass, $\frac{1}{2}$ -inch, A to Z, 0 to 9	do. 1

SUPPLIES (ONE MONTH).

Gasoline, in can (covered in total requirements already stated)	gallons 2
Oil, linseed, boiled, gallon, in can	1
Paper, oiled, stencil, 6 by 36 inches	sheets 10
Paints, black, ready mixed, gallons, in quart cans	1
Paints, green, ready mixed, gallons, in quart cans	2
Paints, olive drab, ready mixed, gallons, in quart cans	1
Paints, red, ready mixed, gallons, in quart cans	1
Paints, white, ready mixed, gallons, in quart cans	4
Sandpaper, No. 1, sheets, 9 by 11 inches	23
Tacks, carpet, No. 8	papers 2
Terneplate, 26 gauge, 12 by 24 inches	sheets 12
Turpentine, gallon, in can	1
Varnish, spar, gallon, in can	1

NOTE 62.

PHOTOGRAPHIC EQUIPMENT OTHER THAN AERIAL CAMERAS, SET.

No.	Item.	Quantity.
1	Camera, view 8 by 10 inches, Plate, complete with	1
2	Carrying case	1
3	Holders, plate 8 by 10 inches, fitted to take 18 by 24 cm. plates	12
4	Kits, plate, 18 by 24 cm. to take 3 by 4 $\frac{1}{4}$ inches	24
5	Lens, 12-inch with shutter	1
6	Tripod, for	1
7	Desks, retouching, 8 by 10 inches	1
8	Fans, electric, 16-inch, nonoscillating, 110-volt	3
9	Filters, Aero No. 1	10
10	Filters, Aero No. 2	10
11	Funnels, enamel, 16-ounce	3
12	Glass, focusing, tripod	1
13	Glass, magnifying, 3-inch	3
14	Graduates, 32-ounce	10
15	Graduates, 8-ounce	2
16	Hydrometers, photographic	2
17	Instruments, drawing	set 2
18	Knives, double edge, shoemaker	5
19	Ladies, rubber, print	6
20	Lantern, stereopticon, model "C" Balopticon, complete	1
21	Screen for above	1
22	Bulbs, extra, nitrogen, 500-watt	2
23	Lantern, Wratten safelight	2
24	Safelight No. 0	3
25	Safelight No. 2	3
26	Safelight No. 3	3
27	Lantern, dark-room, indirect ceiling lights	6
28	Lamps, alcohol stove	2
29	Lamps, gasoline stove	6
30	Lamps, torch soldering, 1-quart size	1
31	Loading block for 8 by 10 Eastman developing tank	2
32	Machine, film developing, fixing and drying	1
33	Machine, printing for 18 by 24 cm. plates, roll film or cut film, Air Service model equipped with electric globes	4
34	Mortar and pestle, 16-ounce	2
35	Pans, stew for heating chemicals, 2-quart size	4
36	Pans, stew for heating chemicals, 1-gallon size	2
37	Printing frame, 8 by 10 inches with plate glass	1
38	Protractor celluloid, 6-inch	1
39	Racks, core, developing 18 by 24 cm.	75
40	Racks, plate, drying for 18 by 24 cm. plates	6
41	Rods, stirring, hard rubber	dozen 1

Notes for basic table of allowances, Air Service—Continued.

NOTE 62—Continued.

PHOTOGRAPHIC EQUIPMENT OTHER THAN AERIAL CAMERAS, SET—Continued.

No.	Item.	Quantity.
42	Rollers, print, professional, 10-inch	4
43	Rules, 1 yard stick	2
44	Rules, 1-foot	4
45	Scales, soda, 5-pound	1
46	Scales, studio	2
47	Shears, 10-inch pair	4
48	Soldering iron, 1-pound	1
49	Squeegees, rubber, 8-inch	4
50	Stereoscopes, Richard, 18 by 24 cm	2
51	Stereoscopes, Richard, print desk, 18 by 24 cm	1
52	Tanks, enameled, developing, fixing and washing, 18 by 24 cm	12
53	Tanks, developing, 8 by 10 inch, Eastman, with 18 by 24 cm. racks	6
54	T square, 42-inch	2
55	Timers, dark-room, interval clock	4
56	Torches, Eveready electric, 3-inch reflector	6
57	Trays, enameled, 10 by 12 inches	6
58	Trays, enameled, 21 by 25 inches	12
59	Thermometers, photo	6
60	Triangles, celluloid, 45D, 8-inch	2
61	Triangles, celluloid, 60D, 10-inch	2
62	Trimmers, print, 10-inch	3
SUPPLIES (ONE MONTH) 62 A.		
1	Aprons, dark-room	20
2	Books, receipt for photos delivered	20
3	Binding strips, lantern slide	20
4	Bottles, quart, glass-stoppered	10
5	Bottles, gallon, glass-stoppered	10
6	Brushes, sable water color (sets of 5)	1
7	Brushes, bristle for paint and varnish, 2-inch	3
8	Brushes, camel's hair dusters, 3-inch	6
9	Brushes, wire bristle for cleaning tanks and racks	6
10	Candles, carriage	5
11	Cardboard, white mounting, 27 by 40 inch sheets	40
12	Cardboard, white mounting, 19 by 24 inches	40
13	Cloth, tracing, 42-inch roll (10 yards per roll)	1
14	Cloth, focusing	2
15	Cloth, oil, 42-inch rolls (10 yards per roll)	1
16	Cloth, cheese, bolts	2
17	Cloth, ruby, 5-yard rolls	1
18	Cloth, orange, 5-yard rolls	1
19	Colors, water, sets of tubes of following colors: Chinese white, gamboge, vermilion, Prussian blue, sap green, lampblack, and burnt sienna	1
20	Chamois skins	6
21	Cotton, absorbent	8
22	Clips, metal, kodak, jr.	1
23	Corks, assorted	dozen
24	Envelopes, manila for mailing prints, 8 by 10 inches	gross
25	Envelopes, negative preservers, transparent, 8 by 10 inches	500
26	Envelopes, negative preservers, transparent, 18 by 24 cm	2,000
27	Envelopes, negative preservers, transparent, 6 by 7 inches	1,000
28	Envelopes, negative preservers, transparent, 4 by 5 inches	1,000
29	Erasers, art gum	600
30	Filter, gelatine, A, 3 inches square	10
31	Glue, tubes	1
32	Gloves, rubber, pair (sizes 9, 10, 11)	dozen
33	Ink, black, drawing (3-ounce bottle)	12
34	Ink, assorted colors, set of following colors: Red, yellow, blue, green, orange, purple, brown	12
35	Labels, gummed, rolls	1
36	Lamps, electric, mazda 115 volts, 25 watts	3
37	Mops, floor	3
38	Opaque, Gihons, cakes	3
39	Pins, glass push, Moore's	gross
40	Plates, Ferrottype, large, heavy	2
41	Pens, drawing, assorted	dozen
42	Paper, blotting, 18 by 24 inches	2
43	Paper, drawing, canvas back, 42 inches, 10-yard roll	gross
44	Paper, drawing, white, 42 inches, 10-yard roll	1
45	Paper, tracing, 42 inches, 10-yard rolls	1
46	Pencils, crayon, grease (glass marking)	dozen
47	Pencils, lead, retouching (sets of 7) as follows: 6B, 1B, 2BH, 2H, 3H, 4H	1
48	Pencils, crayon, assorted colors (sets of 7)	1
49	Solder, wire	pounds
50	Spare parts, sets, for 5 K. W. generator, electric	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 62—Continued.

PHOTOGRAPHIC EQUIPMENT OTHER THAN AERIAL CAMERAS, SET—Continued.

No.	Item.	Quantity.
SUPPLIES (ONE MONTH) 62 A—continued.		
51	Spots, white, thumb for lantern slides.....	boxes.. 1
52	Torches, Eveready, refiles for.....	6
53	Towels, paper, gross.....	6
54	Tubing, white rubber, $\frac{1}{4}$ by $\frac{1}{4}$ inch bore.....	30
55	Tubes, mailing, 60 cm. long, 5 cm. in diameter.....	100
SENSITIZED MATERIALS 62 B.		
1	Film, Eastman Process, 8 by 10 inches.....	gross.. 5
2	Film, United States Aviation, rolls for 18 by 24 cm. camera.....	50
3	Film, United States Aviation, rolls for G. E. M. 6 inches by 18 feet.....	30
4	Film packs, 4 by 5 inches.....	30
5	Paper, United States Aviation bromide, normal, 18 by 24 cm.....	gross.. 100
6	Paper, United States Aviation bromide, normal, 6 by 6 inches.....	25
7	Paper, United States Aviation bromide, contrast, 18 by 24 cm.....	gross.. 60
8	Paper, United States Aviation bromide, contrast, 6 by 6 inches.....	20
9	Plates, United States Aviation orthochromatic, 18 by 24 cm.....	cases.. 10
10	Plates, lantern slide.....	do... 1
11	Plates, lantern slide, cover glasses.....	do... 1
Sensitized material being subject to deterioration, only sufficient quantities for immediate use will be kept on hand, except when taking the field, when full quantities should be carried. Packed for overseas in tin-lined cases.		
CHEMICALS 62 C.		
1	Acid, acetic, commercial, 5-pound bottle, 28 per cent.....	10
2	Acid, hydrochloric, C. P., 1-pound bottle.....	2
3	Acid, sulphuric, 1-pound bottle.....	1
4	Acid, pyrogallie, crystals, 1-pound bottle.....	10
5	Alcohol, industrial spirits, 5-gallon cans.....	12
6	Alum, powdered, white, 1-pound bottle.....	10
7	Alum, chrome, 1-pound bottle.....	5
8	Ammonium persulphate, 1-ounce bottle.....	2
9	Chlorhydrochinone-Aduroil, 1-pound bottle.....	1
10	Formaldehyde, 1-pound bottle.....	2
11	Glycerin, 1-pound bottle.....	3
12	Gum Arabic, in tiers, 1-pound bottle.....	3
13	Hydroquinene, 1-pound bottle.....	15
14	Mercury, bichloride, 1-ounce bottle.....	2
15	Metol, 1-pound bottle.....	15
16	Paramidophenol, 1-pound bottle.....	5
17	Potassium bromide, granulated, 1-pound bottle.....	4
18	Potassium ferricyanide, powdered, 1-pound bottle.....	1
19	Potassium iodide, powdered, 1-pound bottle.....	1
20	Potassium metabisulphite, 1-pound bottle.....	3
21	Potassium permanganate, 1-pound bottle.....	1
22	Paste, photo, 1-pound jar.....	4
23	Sodium bisulphite, granular, 1-pound bottle.....	10
24	Sodium carbonate, desiccated, 5-pound can.....	15
25	Sodium hydroxide, sticks, 8-ounce bottle.....	5
26	Sodium hyposulphite, 100-pound keg.....	10
27	Sodium sulphite, desiccated, 5-pound can.....	15
28	Varnish, black matte, 8-ounce bottle.....	2
29	Varnish, asphaltum, 1-pound bottle.....	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 63.

PHOTOGRAPHIC EQUIPMENT FOR HEADQUARTERS ARMY AIR SERVICE.

The same equipment is prescribed as listed in note 62 with the following differences:

No.	Item.	Quantity.
<i>Additional equipment necessary.</i>		
1	Camera, enlarging, complete, for 18 by 24 cm. plates.....	1
2	Combination bromide paper and plate holders, 18 by 22 inches, with complete kits.....	6
3	Fans, electric, 16-inch, nonoscillating, 110-volt.....	2
4	Machine, printing, for 18 by 22 inch plates, with Mazda lamp, 110 volts, 25 watts.....	2
5	Machine, printing, for 18 by 24 cm. plates, roll film or cut film A. S. model, with Mazda lamp, 110 volts, 25 watts.....	2
6	Racks, drying, for 18 by 22 inch plates.....	6
7	Trimmers, print, 10-inch.....	2
8	Trimmers, print, 24-inch.....	1
<i>Additional supplies necessary.</i>		
1	Cardboard, white, mounting, 27 by 40 inches..... sheets.....	40
2	Cardboard, white, mounting, 19 by 24 inches..... do.....	60
3	Cloth, cheese..... bolt.....	1
4	Cloth, ruby, rolls, 5 yards.....	2
5	Cloth, orange, rolls, 5 yards.....	2
6	Envelopes, manila, for mailing prints 8 by 10 inches.....	500
7	Envelopes, negative preservers, 18 by 22 inches.....	150
8	Plates, process, 18 by 22 inches..... dozen.....	6
9	Plates, United States Aviation, orthochromatic or seeds, 26, 18 by 22 inches..... do.....	8
10	Paper, United States Aviation, bromide, normal, 18 by 22 inches..... gross.....	30
11	Paper, United States Aviation, bromide, contrast, 18 by 22 inches..... do.....	30
12	Tubes, mailing, 60 cm. long, 5 cm. in diameter.....	200
<i>Equipment needed.</i>		
1	Filters, Aero No. 1.....	10
2	Filters, Aero No. 2.....	10
3	Machine, developing, fixing and drying (experimental stage).....	1
<i>Supplies not needed.</i>		
1	Film, United States Aviation, rolls for 18 by 24 cm. camera.....	50
2	Film, United States Aviation, rolls for G. E. M. camera, 6 inches by 18 feet.....	30
3	Alum, powdered, white, 1-pound bottles.....	10
4	Alum, chrome, 1-pound bottles.....	5
5	Ammonium persulphate, 1-ounce bottles.....	2
6	Chlorhydrochinone-Adurol, 1-pound bottle.....	1
7	Formaldehyde, 1-pound bottles.....	2
8	Glycerin, 1-pound bottles.....	3
9	Gum arabic in tears, 1-pound bottles.....	3
10	Hydroquinone, 1-pound bottles.....	15
11	Mercury, bichloride, 1-ounce bottles.....	2
12	Metol, 1-pound bottles.....	15
13	Paramidaphenol, 1-pound bottles.....	5
14	Potassium bromide, granulated, 1-pound bottles.....	4
15	Potassium ferrieyanide, powdered, 1-pound bottle.....	1
16	Potassium iodide, powdered, 1-pound bottle.....	1
17	Potassium metabisulphite in 1-pound bottles.....	3
18	Potassium permanganate, 1-pound bottle.....	1
19	Paste, photo, 1-pound jars.....	4
20	Sodium bisulphite, granular, 1-pound bottles.....	10
21	Sodium carbonate, desiccated, 8-pound cans.....	15
22	Sodium hydroxide, sticks, 8-ounce bottles.....	5
23	Sodium hyposulphite, 100-pound kegs.....	10
24	Sodium sulphite, desiccated, 5-pound cans.....	15
25	Varnish, black matte, 8-ounce bottles.....	2
26	Varnish, asphaltum, 1-pound bottles.....	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 64.

PHOTOGRAPHIC EQUIPMENT FOR REPAIR GROUP (PHOTO REPAIR WORK).

The same equipment is prescribed as listed in note 40 with the following additions:

No.	Item.	Quantity
EQUIPMENT.		
1	Vise, jaw, 4-inch.....	1
SUPPLIES.		
1	Brads, wire nails, $\frac{1}{2}$ pound each, $\frac{1}{4}$ -20, $\frac{3}{8}$ -20, $\frac{1}{2}$ -19, $\frac{5}{8}$ -18, 1-18, 1 $\frac{1}{2}$ -17, 1 $\frac{3}{4}$ -17.....	3 $\frac{1}{2}$
2	Brushes, bristle, for paint and varnish, $\frac{1}{2}$ -inch.....	3
3	Brushes, bristle, for paint and varnish, 1-inch.....	3
4	Brushes, bristle, for paint and varnish, 2-inch.....	3
5	Brushes, camel's-hair, duster, 3-inch.....	3
6	Enamel, black, 1-pint can.....	1
7	Glue, 1-quart cans.....	2
8	Nails, wire, small, $\frac{1}{2}$ pound each, D-2, D-4, D-6, D-8, D-10.....	2 $\frac{1}{2}$
9	Oil, heavy, castor..... quart.....	1
10	Oil, 3-in-1, 8-ounce bottles.....	2
11	Outfit, stencil, for marking cameras and camera cases.....	1
12	Paint, khaki, 1-quart can (or enamel).....	1
13	Screws, brass, small, assorted sizes, from $\frac{1}{4}$ to 1 inch..... gross.....	5
14	Shellac, 1-quart cans.....	2
15	Tape, black, as used on focal plane shutters..... yards.....	20
16	Varnish, spar, 1-quart cans.....	2
17	Varnish, black matte..... quarts.....	2

NOTE 65.

PHOTOGRAPHIC TRAILER BODY.

No.	Item.	Quantity.
1	X5P trailer, 11 feet wide, 16 feet long, on chassis.....	1
2	Each body complete with the following:	
EQUIPMENT.		
3	Awnings.....	2
4	Awning handles.....	2
5	Board, enlarging, 18 by 20 inches.....	1
6	Camera, enlarging, Burke & James, 5 by 7, complete, with gas and electric fixtures.....	1
7	Clips..... set.....	1
8	Fixtures, gas and electric, complete..... do.....	1
9	Focusing curtain.....	1
10	Fan, Westinghouse exhaust, 12-inch.....	1
11	Faucets, packings for.....	4
12	Heater, hot-air.....	1
13	Lamp, Wratten safety.....	1
14	Ladder.....	1
15	Printer, contact, 8 by 10 inch, with lamps.....	1
16	Pump, rotary (Goulds).....	2
17	Racks, sink, 17 $\frac{1}{2}$ by 21 inches and 21 by 54 inches.....	2
18	Racks, floor.....	4
19	Sink, lead-lined, 6 feet 2 inches long by 39 $\frac{1}{2}$ inches and 24 inches wide and 8 inches deep.....	1
20	Shades, lamp.....	5
21	Step.....	1
22	Table, drawing, with drawer, 25 by 60 inches.....	1
23	Table, work, with drawer, 18 by 48 inches.....	1
24	Tank, water, 15-gallon, 19 $\frac{1}{2}$ by 9 $\frac{1}{2}$ by 15 $\frac{1}{2}$ inches.....	1
25	Tank, water, 8-gallon, 18 by 26 inches.....	1
26	Tool box and irons for attaching.....	1
Supplies.		
27	Fuzes, for fan, extra.....	2
28	Hose, rubber, 1 $\frac{1}{2}$ -inch piece.....	2
29	Lamps, clear, 20-watt.....	30
30	Lamps, ruby, 20-watt.....	3
31	Lamps, clear, 250-watt.....	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 66.

PHOTOGRAPHIC TRUCK BODY.

No.	Item.	Quantity.
1	Truck body, 11 feet 6 inches wide, 12 feet 1 inch long, on chassis, 3 to 5 tons.....	1
2	Each body complete with the following:	
	EQUIPMENT.	
3	Bench, work.....	1
4	Blue-print instruction for assembly.....set.	1
5	Board, running.....	1
6	Boxes, seat, containing (a) 2 cushions, (b) 2 drop-lights, (c) 6 20-watt lamps, (d) 2 spare fuze plugs for generator.....	2
7	Clips.....set.	1
8	Connections, trailer, electric and gas.....each.	1
9	Curtains, rear.....	3
10	Curtains, side.....	3
11	Engine exhaust pipe and connections.....	1
12	Generating set, gasoline electric, with tools, 5-kilowatt.....	1
13	Generator, acetylene.....	1
14	Saddle plates, for attaching body to trailer.....	1

NOTE 67.

EQUIPMENT FOR AVIATION REPAIR DEPOT, 5 REPAIR SQUADRONS. (SAME EQUIPMENT NECESSARY FOR DEPOT OF FROM 3 TO 5 SQUADRONS; NOW BEING PREPARED.)

NOTE 68.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD.

NOTE.—All machines and tools to be equivalent to the items specified. The number given is the manufacturer's catalogue number.

List of supplies for six months being prepared.

MACHINE SHOP AND MOTOR OVERHAUL.

Blacksmith shop.

	Quantity.
Atha Tool Co. (Atha), Newark, N. J.:	
Chisel, cold, handled, 1½-inch face, No. 1290.....	6
Chisel, hot, handled, 1½-inch face, No. 1300.....	6
Flatter, handled, 3 inches square, No. 1230.....	1
Fuller, bottom, blacksmith, ¾ inch square shank, 1 each of ¼, ½, and ¾ inch, No. 1220.....	3
Fuller, top, blacksmith, ¾ inch square shank, 1 each of ¼, ½, and ¾ inch, handled, No. 1210.....	3
Heading, tool, 1 each of ¼, ½, ¾, and 1 inch, No. 12A.....	5
Ladle, heavy, with sleeve, 6 inches diameter, No. 1490A.....	1
Hammer, set, handled, 1½ inches square, No. 1250.....	1
Sledge, blacksmith, 8-pound, with 2 extra handles, No. 810.....	1
Sledge, blacksmith, 10-pound, with 2 extra handles, No. 810.....	1
Swage, bottom, blacksmith, ¾ inch square shank, 1 each of ¼, ½, ¾, and 1 inch, No. 1200.....	5
Swage, top, blacksmith, handled, 1 each of ¼, ½, ¾, and 1 inch, No. 1190.....	5
Tongs, curved lip, 20-inch for ¾ inch round stock, No. 12-C; 22-inch for ¾ inch round stock, No. 12-E; 24-inch for ¾ inch round stock, No. 12-G; for 1½-inch round stock, No. 12-I, 1 each.....	4
Tongs, double, pick-up, 24-inch, No. 13.....	2
Tongs, lathe tool, 22-inch for stock 1 by ½ inch, No. 18; 24-inch for stock 1½ by ¾ inches, No. 18, 1 each.....	2
Tongs, straight lip, two, 30-inch, No. 10; one, 20-inch for ¾ inch square, No. 11-C; one 22-inch for ¾ inch square, No. 11-E.....	4
Beaudry & Co. (Inc.) (Beaudry-Champlon), 141 Milk Street, Boston, Mass.:	
Hammer, power, No. 3, weight of ram, 75 pounds. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made.....	1
Buffalo Forge Co. (Buffalo), Buffalo, N. Y.:	
Forge, combination, with water tank, arranged for constant-speed motor driver, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer, No. 607-HE. No substitution to be made..	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Blacksmith shop—Continued.

	Quantity.
Cincinnati-Bickford Tool Co. (Cincinnati-Bickford), Oakley, Cincinnati, Ohio:	
Drill, radial, full universal, 4-foot, with plain and universal tables, high-speed attachment No. 2 with chuck; tapping chuck No. 1, with No. 4 Morse taper; universal work vise No. 3, work plate No. 2, and Jacobs drill chuck No. 4 fitted to spindle. Machine to be constant-speed motor drive, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to the specifications of the Cincinnati-Bickford Tool Co., Oakley, Cincinnati, Ohio.....	1
Drill, regular, back-g geared, 24-inch, with tapping attachment and Jacobs No. 4 drill chuck fitted to spindle. Machine to be geared motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless machine substituted conforms to specifications of the Cincinnati-Bickford Tool Co., Oakley, Cincinnati, Ohio.....	1
Columbus Forge & Iron Co. (Columbus), Columbus, Ohio:	
Vise, 4 $\frac{1}{2}$ -inch jaw, No. 60.....	1
Hay-Budden Manufacturing Co. (Hay-Budden), 254 Henry Street, Brooklyn, N. Y.:	
Anvil, 125-pound, $\frac{1}{4}$ hardie hole, $\frac{1}{4}$ pritchel hole, with 1 straight hardie and 1 regular hardie, No. 052.....	1
Strong, Carlisle & Hammond Co. (Frankfort), 326 Frankfort Avenue, Cleveland, Ohio:	
Furnace, oil-tempering, No. 15, equipped for oil burning complete with regular equipment and 2 extra wire dip baskets.....	1
Furnace, babbitt-melting, No. 2, equipped for oil burning complete with regular equipment and 1 extra small pot.....	1
Tank, oil-cooling, No. 500, with direct-connected, motor-driven pump, 60-cycle, 3-phase, alternating current, motor to be furnished and fitted by manufacturer.....	1
Oil system, 1 yard tank, 2,000-gallon capacity, all necessary piping and connections (tank to be 100 feet from pump), motor-driven pump and expansion tank, complete with gauge, relief valve and drain cock, pump to be mounted on cast iron and geared to 1 horsepower, 1,000 revolutions per minute, 60-cycle, 3-phase, alternating-current motor, same to be furnished and fitted by manufacturer.....	1
Pyrometer, portable indicator, 1 pivot, No. 55, with 50-foot leads.....	1
Western Tool & Manufacturing Co. (Champion), Springfield, Ohio:	
Stand, blacksmith, 22 by 36 inches, with drawer, No. 158-S.....	1
<i>Instrument shop (Repair).</i>	
L. H. Keller & Co. (Keller), 64 Nassau Street, New York City, N. Y.:	
Adjuster, movement No. 3914.....	1
Anvil, No. 20 and No. 26, 1 each.....	2
Arbor, cork, No. 72.....	1
Arbors, turning, set of 36, from No. 1 to No. 36, No. 65.....set..	1
Block, adjustable soldering, No. 4827; beating, No. 448, 1 each.....	2
Block, die, dapping, brass, 2 $\frac{1}{2}$ -inch, No. 1238.....	1
Bottles, acid, No. 438.....set..	1
Borax, prepared, No. 455.....dozen..	1
Bowl, soldering, No. 4863.....	1
Broaches, English, set of 19, from No. 470 to No. 488.....set..	1
Brush, borax, No. 591; dial, No. 597, 2 each.....	4
Brush, cup, No. 618; watch, No. 571; watch, No. 572; watch, No. 573; watch, No. 574, 1 each.....	5
Buff, chamois, half-round, No. 788; emery, No. 803; emery, No. 805; flat, chamois, No. 790, 3 each..	12
Buff, flat, felt, No. 786.....	6
Buff, half-round, No. 785.....	3
Burnisher, No. 872; case, No. 826; jewel, No. 822; steel pivot, No. 811, 1 each.....	4
Cabinet, material, No. 925.....	1
Calliper, inside, No. 945; jewelry No. 2776, to fit tail stock of lathe No. 2308; outside or pinion, No. 942; wheel truing, No. 957, 1 each.....	4
Can, oil, No. 1189.....	1
Case, repair, No. 915.....	1
Clamp, repair, No. 4873; wheel pinion and crown, No. 1170, 1 each.....	2
Contractor, barrel, No. 43.....	1
Copper, soldering, No. 4869.....	1
Countersinks, assorted, No. 1075.....set..	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Instrument shop (Repair)—Continued.

L. H. Keller & Co.—Continued.	Quantity.
Cover, movement, with tray, No. 3917.....	1
Cup, 2 alcohol, No. 1175; 1 combination, No. 1168.....	3
Cup, material, No. 1181.....	set. 1
Cutter, circular glass, with triangular bar and rule, No. 2301.....	2
Device, soldering, No. 4524.....	1
Dies and cutters, dapping, No. 1232.....	set. 1
Dividers, spring, No. 1202.....	1
Draw plate, No. 1257.....	1
Drill, gear, No. 1353.....	1
Drill, pivot, set of 23, from No. 4 to No. 26, No. 1311.....	set. 6
Drill, shank, No. 1310.....	do. 1
Figures, steel, $\frac{1}{4}$ -inch, No. 1240.....	do. 1
Files, escapement, No. 2007.....	do. 1
Files, pivot, Nos. 2079, 2080, 2081, 2082, 2 each.....	8
Files, round, Nos. 1835, 1836, 1837, 6 each.....	18
File, screw head, No. 2115.....	2
File, square, Nos. 1853, 1854, 1855, 3 each.....	9
Gauge, jewel and pivot, No. 2285; mainspring, No. 2252; millimeter, No. 2256, 1 each.....	3
Glass, eye, No. 1482 and No. 1484, 1 each.....	2
Graver, Nos. 2326, 2328, 2340, 2342, 2344, 2367, 2370, 2372, 2374, 2376, 2 each.....	20
Hammer, Nos. 2339, 2450, 2553, 1 each.....	3
Handle, 2 broach, No. 2383; 3 broach, No. 2702; 1 file, No. 2701; 6 graver, No. 2675; 6 graver, No. 2676.....	18
Holder, borax, No. 446; jewel, No. 2775; movement, No. 3927, 1 each.....	3
Keys, bench, No. 2794.....	set. 1
Key, clock, No. 2842.....	1
Knife, bench, No. 2847.....	2
Lamp, No. 3963.....	1
Lathe, No. 3308, with regular equipment, mounted on oak cabinet No 212, and the following lathe attachments (lathe to be motor-driven type, 60-cycle, 3-phase, alternating-current motor to be furnished and fitted by the manufacturer).....	each. 1
One slide rest, No. 3311.....	
One universal face plate, No. 3314.....	
One jeweling caliper rest, No. 3316.....	
One wheel-cutting attachment, No. 3318.....	
One pivot polisher, No. 3319, with 6 extra laps.....	
Six $\frac{1}{4}$ -inch brass cement chucks.....	
Four $\frac{1}{4}$ -inch brass cement chucks.....	
Four $\frac{1}{2}$ -inch brass cement chucks.....	
Three 1-inch brass cement chucks.....	
Lathe, polishing, complete, with full set of polishing wheels, etc., with round fitting, No. 3717.....	1
Letters, steel, $\frac{1}{4}$ -inch, No. 1242.....	set. 1
Mallet, rawhide, No. 3909.....	1
Oiler, No. 3940.....	2
Opener, case, No. 985; collet, No. 2550, 1 each.....	2
Pegwood, first quality, bundles, No. 3939.....	12
Pipe, blow, No. 372.....	1
Pith, first quality, bundles, No. 3937.....	12
Plier, No. 4017, 4040, 4061, 4076, 4082, 4103, 4112, 4264, 1 each.....	8
Plier, balance truing, No. 4376.....	1
Punches, clock closing hole, set of 6, No. 4423C; watch closing hole, set of 6, No. 4423, 1 set each.....	2
Pusher, jewel, No. 2760.....	1
Release, clock mainspring, No. 3792.....	1
Remover, collet, No. 2547; watch hand, No. 2554, 1 each.....	2
Ring guide, emery cloth, No. 793.....	1
Rule, steel, No. 2259.....	1
Saw, No. 4550.....	1
Screw drivers, No. 4661; clock, No. 4728, 1 set each.....	2
Screw plate, with 4 taps, No. 4760; 30 holes, No. 4770; 10 sizes, No. 4772, 1 each.....	3

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Instrument shop (Repair)—Continued.

L. H. Keller & Co.—Continued.	Quantity.
Setter, combination jewel, No. 2778.....	1
Shaker, sawdust, No. 466.....	1
Sharpener, graver, No. 1440.....	1
Slate, borax, No. 447.....	1
Slide, pin, No. 3987.....	1
Stone, oil, slip, No. 5039 and No. 5040, 2 each.....	4
Stool, bench, oak, No. 337.....	1
Tongs, slide, No. 5047N.....	pair 1
Tool, annealing, No. 44; bezel, No. 981; hairspring, No. 2548, 1 each.....	3
Tool, staking, No. 5001.....	set 1
Tweezers, No. 5055.....	2
Tweezers, No. 5192.....	1
Tweezers, balance, Nos. 5058, 5067, 5073, 1 set each.....	3
Vise, bench, No. 5245; pin, No. 3972, 1 each.....	2
Winder, mainspring, No. 3901; mainspring, clock, No. 3791, 1 each.....	2
Wrench, collet, No. 2548; sleeve set, No. 4684, 1 each.....	2
Rivett Lathe & Grinder Co. (Rivett), Brighton-Boston, Mass.:	
Lathe, precision, back-gear, 8-inch swing, No. 608, mounted on oak cabinet, equipped for motor drive, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer, complete with regular equipment and the following extra equipment.....	1
Chucks, collet type, 1 each of sizes 0.10, 0.15, 0.20, and from $\frac{1}{4}$ to $\frac{1}{2}$ inch, by thirty-seconds.	
Chuck, combination, scroll, 1 each of 3-jaw and 4-jaw, $4\frac{1}{4}$ -inch (Wescott), fitted to headstock spindle of lathe.	
Chuck, drill, 1 each, Jacobs No. 2 and No. 3, fitted to tail spindle.	
Chucks, step, 1 each of 2, 3, and 4 inches.	
Cutting-off and forming slide attachment, complete.	
Follow rest.	
Holder, tool, inside thread, with 1 tool.	
Internal and external grinding attachment, complete.	
Milling attachment, complete.	
Relieving attachment.	
Slotting attachment, complete, with 1 tool, for use with forming slide.	
Tail stock, 1 adjustable off center, with male and female centers; 1 female center; 1 half center; 1 large size, male center; 1 revolvable V center; 1 tail-stock spindle drill plates, set.	
Taper attachment.	
Tool, knurling, for use with forming slide.	
Tool, thread, improved, fitted for lathe, with 1 each cutters 13 to 20, 24, 28, 30, and 32 U. S. Form thread, and 1 cutter for 14 V thread.	
Traverse milling attachment, complete.	
Turret attachment.	
<i>Machine shop.</i>	
Armstrong Bros. Tool Co. (Armstrong), Chicago, Ill.:	
Clamp, finger Nos. 44 and 48; double finger Nos. 30 and 40, 2 each.....	8
Clamp, gooseneck Nos. 74 and 76; plain Nos. 54 and 58; screw heel Nos. 54-A and 56-A, 4 each...	24
Clamp, U, Nos. 64, 66, and 68, 4 each.....	12
Cutter lengths, high-speed steel, 2 bevel $\frac{1}{4}$ by $\frac{1}{2}$ inch; 2 bevel $\frac{1}{4}$ by 1 inch; 5 each, square, $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$ inch; 4, square, $\frac{1}{4}$ inch.....	23
Drift, drill, safety Nos. 1-A and 3-A, 1 each.....	2
Holder, drill, safety Nos. 2 and 4, 1 each.....	2
Holder, drill, U No. 200.....	1
Tool holder, boring, No. 15.....	2
Tool, knurling, with medium knurls, with extra set of coarse, medium, and fine knurls, No. 1-K..	2
Vise, drill, quick action, No. 2-V.....	1
W. F. & John Barnes Co. (Barnes), Rockford, Ill.:	
Press, screw, adjustable, 30 by 36 inches, No. 3.....	1
Bosch Magneto Co. (Bosch), 223 West Forty-sixth Street, New York City, N. Y.:	
Stand, for charging magneto.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 66—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

Brown & Sharpe Manufacturing Co. (B. & S.), Providence, R. I.:	Quantity.
Arbor, cutter, milling machine, Nos. 40, 43, and 79, 1 each.....	3
Arbor, screw slotting cutter, $\frac{1}{4}$ inch, with Nos. 2, 3, and 4 Morse taper, adapted for use between centers, 1 each.....	3
Arbor, screw slotting cutter, $\frac{1}{4}$ inch, with No. 7 Brown & Sharpe taper, adapted for use between centers.....	1
Bevel, universal, $1\frac{1}{2}$ inches, No. 498; and 3 inch, No. 498, 2 each.....	4
Caliper, micrometer, English, 0 to 1 inch, with ratchet stop, in case, No. 8.....	3
Caliper, sets, micrometer, English, 0 to 6 inch; and micrometer, metric, 0 to 150 mm., with standards and ratchet stops, in case, No. 135, 1 set each.....	2
Caliper, vernier, 12-inch, English and metric, with case No. 572.....	1
Clamp, toolmakers', 2, $1\frac{1}{2}$ -inch No. 754; 8, $3\frac{1}{2}$ -inch No. 754.....	10
Combination set, 12-inch or 30-cm., No. 433 M. & E.....	8
Cutter, angular, 45° left hand, and 45° right hand, high-speed steel, No. J-12, 1 each.....	2
Cutter, angular, 60° left hand, and 60° right hand, high-speed steel, No. J-11, 1 each.....	2
Cutter, concave, high-speed steel, Nos. C-12A, C-14A, C-16A; convex, high-speed steel, Nos. C-12, C-13, C-14, C-16, 1 each.....	7
Cutter, double angle, 45°, high-speed steel Nos. J-101 and J-102, 1 each.....	2
Cutter, double angle, 60°, high-speed steel Nos. J-101 and J-102, 1 each.....	2
Cutter, gear, involute patent, high-speed, with $\frac{1}{4}$ -inch hole, 1 each of the following..... lot..	63
8 pitch—Nos. 2, 3, 4, and 5.	
10 pitch—Nos. 2, 3, 4, 5, and 6.	
12 pitch—Nos. 2, 3, 4, 5, and 6.	
14 pitch—Nos. 2, 3, 4, 5, and 6.	
16 pitch—Nos. 2, 3, 4, 5, 6, 7, and 8.	
18 pitch—Nos. 2, 3, 4, 5, 6, 7, and 8.	
20 pitch—Nos. 3, 4, 5, 6, 7, and 8.	
22 pitch—Nos. 3, 4, 5, 6, 7, and 8.	
24 pitch—Nos. 3, 4, 5, 6, 7, and 8.	
28 pitch—Nos. 3, 4, 5, 6, 7, and 8.	
32 pitch—Nos. 3, 4, 5, 6, 7, and 8.	
Cutter, milling, high-speed steel, Nos. M-61, M-62, M-63, M-63-A, M-65, M-66, 2 each.....	12
Cutter, milling, high-speed steel, Nos. M-70, M-117, M-121, M-308, 1 each.....	4
Cutter, milling, side, coarse tooth, Nos. S-300, S-302, S-313; S-315; milling, with inserted teeth, high-speed steel, No. 1, 1 each.....	5
Cutter, screw slotting, with $\frac{1}{4}$ inch hole, Nos. H-17 and H-19, 2 each; Nos. H-23 and H-24, 6 each; and 4, No. H-27.....	20
Cutter, T slot, right-hand, high-speed steel, Nos. 7, 16, 31, 2 each; Nos. 34, 37, 40, 43, 1 each.....	10
Cutter, Woodruff keyseat, high-speed steel, Nos. A, B, E, 11, 13, 18, 19, 1 each; Nos. 1, 3, 5, 7, 2 each.....	15
Dividers, universal, No. 843.....	1
Gauge, center, No. 650.....	3
Gauge, depth, micrometer, English, 2 inch base, with case, No. 605; depth, vernier, English and metric, with case, No. 600; depth, universal, in case, No. 610; drill, jobbers, No. 710, 1 each.....	4
Gauge, screw pitch, English, Nos. 633 and 635; metric No. 636, 2 each.....	6
Gauge, steel music wire, No. 696.....	1
Gauge, surface, universal, hardened base, 2 of No. 620; 1 with 9 and 12 inch spindles, No. 621.....	3
Gauge, thickness, English, Nos. 640 and 642, 2 each; 1 metric No. 641.....	5
Gauge, U. S. Standard No. 694.....	1
Gauge, vernier height, 8 inches, English and metric, with case No. 585.....	1
Gauge, wire, English standard No. 690.....	1
Gear teeth, vernier, 20 diametral to 2 diametral pitch, in case, No. 580.....	1
Indicator, dial test, English, with No. 734 universal attachment, No. 730.....	1
Mill, end, left-hand, high-speed steel, Nos. E-101, E-103, E-105, E-108, E-112, E-117; right-hand, high-speed steel, Nos. E-101, E-103, E-105, E-108, E-112, E-117, 2 each.....	12
Mill, end, left-hand and right-hand, high-speed steel, No. E-133, 1 each.....	2
Nail sets, tool steel, set, each set to consist of 5 sets from $\frac{1}{4}$ to $\frac{1}{8}$ inch, No. 762..... set..	4
Plate, surface, finished, 18 by 24 inches, with cover.....	1
Protractor, improved universal bevel, with acute angle attachment and 8 and 12 inch blades, in case, No. 498.....	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

Brown & Sharpe Manufacturing Co. (B. & S.), Providence, R. I.—Continued.	Quantity.
Punches, center, automatic, No. 771.....	2
Punches, machinist, center, set, each set to consist of 6 punches, sizes from $\frac{1}{16}$ to $\frac{1}{4}$ inch, No. 765 set.....	12
Rules, steel, English, with holder, set, each set to consist of 5 rules from $\frac{1}{4}$ to 1 inch, No. 335..... set.....	2
Rules, steel, metric, with holder, set, each set to consist of 5 rules from 5 mm. to 25 mm., No. 335 set.....	2
Rules, steel, flexible, English and metric, 15 cm. and 30 cm., No. 308, 3 each.....	6
Rules, steel, tempered, 3 inch and 6 inch, No. 7 graduation, No. 300, 12 each.....	24
Saw, metal slitting, high-speed steel, Nos. G-50, G-51, G-52, G-53, G-54, 3 each; Nos. G-64, G-75, 2 each and 6 of No. G-72.....	25
Scriber, style 3, double point, $\frac{3}{8}$ inches long, No. 778.....	6
Spacing attachment No. 775.....	1
Square, try, No. 540, 3 inch, 6 inch, 9 inch, 24 inch, in case, No. 541, one each.....	4
Straightedge, standard steel, 36 and 48 inches, in case, No. 528, 1 each.....	2
Vise, toolmakers', No. 752.....	4
Billings & Spencer Co. (B. & S. Co.), Hartford, Conn.:	
Dog lathe, bent tail, drop-forged, size $\frac{1}{2}$ inch, No. 1, model AR; size $\frac{1}{2}$ inch, No. 2, model AR; size $\frac{3}{4}$ inch, No. 3, model AR; size $1\frac{1}{4}$ inch, No. 5, model AR, 2 each; size $1\frac{1}{2}$ inch, No. 7, model AR; size $2\frac{1}{2}$ inch, No. 9, Model AR, 1 each.....	10
Hammer, machinist ball peen, with extra handle each hammer (no substitution to be made)—two $\frac{1}{2}$ -pound, No. 2, model AD; four $\frac{3}{4}$ -pound, No. 3, model AD; twelve $1\frac{1}{2}$ -pound, No. 2, model AD; six $1\frac{1}{2}$ -pound, No. 6, model AD.....	24
Hammer, machinist straight peen, $\frac{1}{2}$ -pound, with extra handle each hammer, No. 7, model AD; no substitution to be made.....	3
Pliers, combination, nickel, 6 inch, No. 1, Model M.....	6
Pliers, combination, black, 8 inch, No. 2, model M.....	12
Pliers, combination, black, 10 inch, No. 3, model M.....	6
Wrench, adjustable, automobile, full finish, 12 and 18 inch, model G, 1 each.....	2
Wrench, adjustable, automobile, full finish, 7 inch, model E.....	4
Wrench, adjustable, spanner, 2 to 4 inches, model L, No. 1.....	1
Wrench, pocket, adjustable, nickel, $4\frac{1}{2}$ inch, model 197.....	3
Wrench, socket, double opening, $\frac{1}{2}$ by $\frac{1}{16}$ inch, No. 800; $\frac{3}{8}$ by $\frac{1}{8}$ inch, No. 801 special; $\frac{1}{2}$ by $\frac{1}{8}$ inch, No. 801; $\frac{3}{4}$ by $\frac{1}{8}$ inch, No. 802, 1 each.....	4
Wrench, socket, offset handle, finished, $\frac{1}{4}$ inch, No. 822-A; $\frac{1}{2}$ inch, No. 822-C; $\frac{3}{4}$ -inch, No. 823-A; $\frac{1}{2}$ inch, No. 824-A, 12 each.....	48
Wrench, socket, T handle, finished, $\frac{1}{4}$ inch, No. 722-A; $\frac{1}{2}$ inch, No. 722-C; $\frac{3}{4}$ inch, No. 723-A; $\frac{1}{2}$ inch, No. 724-A; $\frac{3}{4}$ inch, No. 725-A; $\frac{1}{2}$ inch, No. 725-C; $\frac{3}{4}$ inch, No. 726-B; $\frac{1}{2}$ inch, No. 726-C; $\frac{3}{4}$ inch, No. 727-B, 1 each.....	9
Wrench, textile, double head, finished, $\frac{1}{4}$ by $\frac{1}{2}$ inch, No. 1553; $\frac{1}{4}$ by $\frac{3}{8}$ inch, No. 1558, 12 each.....	24
Wrench, textile, double head, finished, $\frac{1}{4}$ by $\frac{1}{2}$ inch, No. 1555; $\frac{1}{4}$ by $\frac{3}{8}$ inch, No. 1564; $\frac{1}{4}$ by $\frac{1}{2}$ inch, No. 1571; $\frac{1}{4}$ by $\frac{3}{8}$ inch, No. 1578; $\frac{3}{8}$ by $\frac{1}{2}$ inch, No. 1581, 1 each.....	5
S. W. Card Manufacturing Co. (Card), Mansfield, Mass.:	
Die-stock set, No. 1 $\frac{1}{2}$, list No. 201, with plug taps, U. S. form thread, sizes as follows: $\frac{1}{16}$ —30, $\frac{1}{8}$ —32, $\frac{1}{4}$ —24, $\frac{3}{8}$ —20, and $\frac{1}{2}$ —24.....	1
Western Tool & Manufacturing Co. (Champion), Springfield, Ohio:	
Mandrel, expanding, 1 each Nos. 1 to 9, inclusive, which takes in sizes $\frac{1}{2}$ inch up to $2\frac{1}{2}$ inches.....	9
Cleveland Twist Drill Co. (Cleveland), Cleveland, Ohio:	
Arbor for shell reamers, sizes Nos. 6, 7, and 8, No. 79, 1 each.....	3
Case, drill, 28 by 12 $\frac{1}{2}$ by 26 inches, outside measurements, No. 03; 37 by 16 by 44 inches, outside measurements, No. 04, 1 each.....	2
Extractors, screw, set, No. 15 and No. 16, 1 each..... set.....	2
Holder, floating tool, 1 to 2, No. 62-A; 2 to 3, No. 62-A; 3 to 4, No. 62-A, 1 each.....	3
Reamers, bit stock taper, set, $\frac{1}{4}$ to $\frac{3}{4}$ inch by sixteenths, in case, complete, No. 33..... set.....	1
Reamers, center, 60°, $\frac{1}{4}$ by $\frac{3}{8}$ inch, No. 125A-No. 1; $\frac{1}{4}$ by $\frac{3}{8}$ inch, No. 125A-No. 2; $\frac{3}{8}$ by $\frac{1}{2}$ inch, No. 125A-No. 1; $\frac{3}{8}$ by $\frac{3}{8}$ inch, No. 125A-No. 1; $\frac{3}{8}$ by $\frac{3}{8}$ inch, No. 125A-No. 2; $\frac{1}{2}$ by $\frac{1}{2}$ inch, No. 125A-No. 1, 1 each.....	6
Reamers, center, 72°, $\frac{3}{8}$ by $\frac{1}{2}$ inch, No. 125A-No. 1.....	1
Reamers, center, 82°, $\frac{3}{8}$ by $\frac{1}{2}$ inch, No. 125A-No. 1.....	1
Reamers, expansion, eccentric flutes, 1 each size $\frac{1}{4}$ to $\frac{1}{2}$ inch by thirty-seconds, No. 129.....	8
Reamers, expansion, eccentric flutes, millimeter size, 1 each size 6 to 20 mm., inclusive, No. 1129.....	15

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

	Quantity.
Cleveland Twist Drill Co. (Cleveland), Cleveland, Ohio.—Continued.	
Reamers, expansion, Peerless high speed, 1 each size, $\frac{3}{8}$ to $1\frac{1}{2}$ inches by thirty-seconds, No. 502	25
Reamers, hand, set, $\frac{1}{4}$ to $1\frac{1}{2}$ inches by thirty-seconds and from $1\frac{1}{4}$ to $1\frac{1}{2}$ inches by sixteenths	1
Reamers from $\frac{1}{4}$ to $\frac{1}{2}$ inch to be carbon steel and from $\frac{3}{4}$ to $1\frac{1}{2}$ inch to be of Peerless high-speed steel.	
All reamers to be in case, complete, No. 27G	1
Reamers, spiral fluted shell, high speed, No. 646: $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$, $1\frac{1}{2}$	18
$1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2 inches, 1 each	
Reamer, taper pin, No. 0 to 10, inclusive, set, No. 81	1
Socket, steel, for taper shank tools, with No. 1 hole and outside fitting, No. 2 socket, No. 104; with No. 2 hole and outside fitting, No. 3 socket, No. 104, 2 each	4
Socket, steel, for taper shank tools, with No. 1 hole and outside fitting, No. 3 socket, No. 104; with No. 2 hole and outside fitting, No. 4 socket, No. 104; with No. 3 hole and outside fitting, No. 5 socket, No. 104, one each	3
Socket, fitted, with No. 3 hole and No. 2 shank, No. 102; with No. 4 hole and No. 3 shank, No. 102, 1 each	2
Desmond-Stephan Manufacturing Co. (Desmond-Stephan), Urbana, Ohio:	
Dressers, diamo-carbo, No. 3	2
Dresser, diamond hand, Nos. 73-A and 74-B, 1 each	2
Dressers, wheel, with 3 extra sets cutters for each dresser, Desmond-Huntington No. 1	3
Detroit Twist Drill Co. (Detroit), Detroit, Mich.:	
Counterbores, interchangeable, high-speed steel, with 1 No. 1 holder with $\frac{3}{8}$ inch straight shank, cutters, and pilot, as follows (No. 322-A)	8
2 cutters, $\frac{1}{2}$ inch, with 1 $\frac{1}{4}$ inch pilot and 1 $\frac{1}{4}$ inch pilot.	
2 cutters, $\frac{3}{4}$ inch, with 1 $\frac{1}{4}$ inch pilot and 1 $\frac{1}{4}$ inch pilot.	
2 cutters, $\frac{1}{2}$ inch, with 1 $\frac{1}{4}$ inch pilot and 1 $\frac{1}{4}$ inch pilot and $\frac{1}{4}$ inch pilot.	
2 cutters, $\frac{3}{4}$ inch, with 1 $\frac{1}{4}$ inch pilot and 1 $\frac{1}{4}$ inch pilot and $\frac{1}{4}$ inch pilot.	
Counterbores, interchangeable, high-speed steel with one No. 2 holder with $\frac{1}{2}$ -inch straight shank, cutters, and pilot as follows (No. 322-A)	6
2 cutters, $\frac{1}{2}$ inch, with 1 $\frac{1}{4}$ -inch pilot.	
2 cutters, $\frac{3}{4}$ inch, with 1 $\frac{1}{4}$ -inch pilot and 1 $\frac{1}{4}$ -inch pilot.	
2 cutters, $\frac{1}{2}$ inch, with 1 $\frac{1}{4}$ -inch pilot and 1 $\frac{1}{4}$ -inch pilot.	
Counterbores, standard, high-speed steel, with $\frac{1}{2}$ -inch straight shank, $\frac{1}{2}$ -inch cutter, and $\frac{1}{4}$ -inch pilot, No. 321-A	4
Eureka Co. (Eureka), Northeast, Pa.:	
Hammer, copper, $\frac{1}{2}$ -pound with handle, 2; 3-pound with handle, 1	3
Goodell-Pratt Co. (Goodell-Pratt), Greenfield, Mass.:	
Center finder, Universal, No. 341	1
Cutting-off tool, with 2 extra cutters, No. 527	1
Hack saw, bench, complete, with 1 gross hack-saw blades extra, No. 1	1
Holder, tool or tap, No. 328	2
Parallels, bench, set, No. 100	1
Parallels, bench, set, No. 101	1
Punching machine, bench, with punches and dies $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{1}{2}$, and $\frac{1}{2}$ -inch and extra set of punches, dies from $\frac{1}{4}$ to $\frac{1}{2}$ inch, No. 140	1
Shears, bench, with extra set of blades, No. 150	1
Table, adjustable, bench, No. 195	1
Wrench set, socket, with extra sockets, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{1}{2}$, and $\frac{1}{2}$ inch, No. 489	1
Edwin E. Bartlett (Greenerd), Boston, Mass.:	
Press, arbor, No. 1	1
Press, arbor, on stand, No. 3	2
The Cincinnati Tool Co. (Hargrave), Norwood, Cincinnati, Ohio:	
Clamp, adjustable, special, 2-foot, No. 412; and 8-foot, No. 425; no substitution to be made, 2 each	4
Clamp, adjustable, special, 4-foot, No. 421; and 6-foot, No. 423; no substitution to be made, 4 each	8
Washer cutter, No. 411	2
Holbrook Raw Hide Co. (Holbrook), 748 North Main Street, Providence, R. I.:	
Hammer, hide, faced, $1\frac{1}{2}$ pounds, with 2 extra faces each hammer, No. 2; $2\frac{1}{2}$ pounds, with 2 extra faces each hammer, No. 5, 2 each	4

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machines shop—Continued.

Wiebuech & Hilger (Ltd.) (H. J. H.), 106 Lafayette Street, New York City, N. Y.:	Quantity.
Chisel, cape, genuine vanadium tool steel, extra blued, No. 250, no substitution to be made, $\frac{1}{2}$ and $\frac{3}{4}$ inch, 6 each.....	18
Chisel, cold, genuine vanadium tool steel, extra blued, No. 240, no substitution to be made, $\frac{1}{2}$, $\frac{3}{4}$, and $\frac{1}{2}$ inch, 6 each.....	24
Chisel, diamond point, $\frac{1}{2}$ and $\frac{3}{4}$ inch, genuine vanadium tool steel, extra blued, No. 270, no substitution to be made; 2 each.....	4
Chisel, round nose, $\frac{1}{2}$ and $\frac{3}{4}$ inch, genuine vanadium tool steel, extra blued, No. 260, no substitution to be made; 2 each.....	4
Extractor, cotter-pin, $\frac{1}{2}$ by 4 inches, No. 12.....	12
Punch, lining-up, $\frac{1}{2}$ -inch, tool steel, high polish, No. 29, no substitution to be made.....	6
Punch, regular taper, $\frac{1}{2}$ and $\frac{3}{4}$ inch, tool steel, high polish, No. 28, no substitution to be made, 3 each.....	6
Punch, slim taper, $\frac{1}{2}$ and $\frac{3}{4}$ inch, tool steel, high polish, No. 30, no substitution to be made, 3 each.....	6
Screw driver, double offset, $\frac{1}{2}$ by 6 inches, No. 11.....	12
The Jacobs Manufacturing Co. (Jacobs), Hartford, Conn.	
Arbor plug with No. 2 Morse taper to fit No. 1 chuck, 1; No. 2 Morse taper to fit No. 2 chuck, 2; No. 3 Morse taper to fit No. 3 chuck, 3; No. 4 Morse taper to fit No. 4 chuck, 1.....	7
Chuck, drill, regular, without arbor plug, 2 of No. 1; 3 of No. 2; 6 of No. 3; 2 of No. 4.....	13
Nicholson File Co. (Nicholson), Providence, R. I.:	
Brush, file, with card and scorer.....	12
File, bent rippers handled, hand bastard, 6 inches; cotter taper bastard, 6 inches; 12 each.....	24
File, flat bastard, 12, 6 inches; 24, 8 inches; 24, 10 inches; 12 flat wood file, 12 inches.....	72
File, half-round bastard, 6, 8, and 10 inches, 24 each; half-round wood file, 12 of 12 inches.....	84
File, hand bastard, 8 and 10 inches; hand coarse, 8 and 10 inches; hand, second-cut, 6 and 8 inches, 24 each.....	144
File, hand, open-cut, bastard, 10 inches.....	36
File, mill, blunt, double-cut, second-cut, 8 inches.....	12
File, mill, second-cut, 6 and 8 inches, 24 each; 12, 10 inches.....	60
File, round bastard, 6 and 8 inches, 24 each; 12, 10 inches.....	60
File, square bastard, 6 and 8 inches, 24 each; 12, 10 inches.....	60
File, square, blunt bastard, 6-inch.....	12
File, tumbler bastard, 6-inch.....	12
File (XF), barrette safe back, 6-inch, No. 2 and No. 4, 12 each.....	24
File (XF), cant, 6-inch, No. 2.....	12
File (XF), die sinkers, $\frac{3}{4}$ -inch set.....	12
File (XF), drill or joint, round-edge, thick, 4-inch No. 1; 4-inch No. 3; 6-inch No. 1; 6-inch No. 3, 12 each.....	48
File (XF), escapement, 6 $\frac{1}{2}$ -inch, set.....	2
File (XF), half-round, 3-inch No. 2; 6-inch No. 0; 6-inch No. 4, 12 each; 24 6-inch No. 2.....	60
File (XF), hand, 6-inch and 8-inch No. 0, 12 each.....	24
File (XF), pillar, 6-inch No. 2; extra-narrow, 6-inch No. 6; narrow, 6-inch No. 4; 8-inch No. 2, 12 each.....	48
File (XF), round, 3-inch No. 2; 3-inch No. 4; 6-inch No. 4; 8-inch No. 0; 8-inch No. 2, 12 each.....	60
File (XF), round, 6-inch No. 1.....	1
File (XF), round, 6-inch No. 2.....	24
File (XF), square, 3-inch No. 2; 3-inch No. 4; 6-inch No. 0; 6-inch No. 4; 8-inch No. 0; 8-inch No. 2, 12 each.....	72
File (XF), square, 6-inch No. 2.....	24
File (XF), three-square, 3-inch No. 2; 3-inch No. 4; 6-inch No. 4, 12 each.....	36
File (XF), three-square, 6-inch No. 0 and No. 2, 24 each.....	48
File (XF), warding, 3-inch No. 2; 3-inch No. 4; 3-inch No. 6, 12 each.....	36
File (XF), warding, 6-inch No. 2 and No. 4, 24 each.....	48
Handle, spun ferruled, 12 No. 1; 24 No. 2; 36 No. 3; 12 No. 4.....	84
Handle, straight, ferruled, 12 No. 1; 36 No. 12.....	48
New York Stencil Works (N. Y. Stencil Works), 100 Nassau Street, New York City, N. Y.:	
Figures, steel, handmade, $\frac{1}{4}$ -inch, set of 9; $\frac{1}{2}$ -inch, set of 9, 2 each.....	18
Letters, steel, handmade, set of 26, $\frac{1}{4}$ -inch; $\frac{1}{2}$ -inch; $\frac{3}{4}$ -inch; 1-inch, 2 each.....	8
H. K. Porter (Porter's), Everett, Mass.:	
Clipper, bolt, $\frac{1}{4}$ -inch capacity, New Easy, No. 0.....	6
Clipper, bolt, $\frac{1}{2}$ -inch capacity, New Easy, No. 1.....	4

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE; SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

Item	Quantity
E. D. Smith & Co (Perfect Handle), Plantsville, Conn.:	
Screw driver, 6-inch, No. 600.....	3
Screw driver, 8-inch, No. 600.....	3
Screw driver, 10 $\frac{1}{2}$ -inch, No. 610.....	3
Pratt & Whitney Co. (P. & W.), Hartford, Conn.:	
Chaser, hand, inside, U. S. Form thread No. 726, size Nos. 10, 11, 11 $\frac{1}{2}$, 12, 13, 14, 16, 18, 20, 22, 24, 27, 28, 32, 2 each.....	28
Chaser, hand, outside, U. S. Form thread No. 726, size Nos. 10, 11, 11 $\frac{1}{2}$, 12, 13, 14, 16, 18, 20, 22, 24, 27, 28, 32, 2 each.....	28
Die-stock set, No. 0 (P. & W. list No. 715), right and left hand dies and right and left hand taper and plug taps, U. S. Form thread, in case, sizes as follows: No. 6—46; No. 10—32; No. 12—28; $\frac{1}{4}$ —32, and $\frac{1}{4}$ —30 (for turnbuckle use).....	1
Die-stock set, No. 1 (P. & W. list No. 717), right and left hand dies and right and left hand taper and plug taps, U. S. Form thread, in case, sizes as follows: $\frac{1}{4}$ —24; $\frac{1}{4}$ —28; $\frac{1}{4}$ —30; $\frac{1}{4}$ —24; and $\frac{1}{4}$ —24 (for turnbuckle use).....	1
Die-stock set, No. 0 (P. & W. list No. 215), style C, with plug taps, U. S. Form thread, in case, machine screw sizes as follows: No. 2—56; No. 3—48; No. 4—40; No. 5—40; No. 6—40; No. 7—32; No. 8—32; No. 10—24; No. 10—32; No. 12—24; No. 12—28; No. 14—20; and No. 14—24.....	1
Die-stock set, No. 0 (P. & W. list No. 215), style C, with taper and plug taps, U. S. Form thread, in case, sizes as follows: $\frac{1}{4}$ —72; $\frac{1}{4}$ —40; $\frac{1}{4}$ —60; $\frac{1}{4}$ —50; $\frac{1}{4}$ —48; $\frac{1}{4}$ —30; $\frac{1}{4}$ —40; $\frac{1}{4}$ —32; $\frac{1}{4}$ —32; $\frac{1}{4}$ —24; $\frac{1}{4}$ —24; $\frac{1}{4}$ —32 and $\frac{1}{4}$ —24.....	1
Die-stock set, No. 1 (P. & W. list No. 217), with taper, plug, and bottoming taps, U. S. Standard thread, in case, sizes as follows: $\frac{1}{4}$ —28; $\frac{1}{4}$ —18; $\frac{1}{4}$ —16; $\frac{1}{4}$ —14; and $\frac{1}{4}$ —13; also $\frac{1}{4}$ -inch and $\frac{1}{2}$ -inch pipe, taps and dies, Briggs standard.....	1
Die-stock set, No. 1-M (P. & W. list No. 217-M), with taper and plug taps, in case, sizes as follows: 2.5 mm., 0.45; 3.5 mm., 0.60; 4 mm., 0.75; 4.5 mm., 0.75; 5 mm., 0.75; 5 mm., 1.0; 5.5 mm., 0.90; 6 mm., 0.75; 6 mm., 1.0; 7 mm., 1.0; 8 mm., 1.0; 8 mm., 1.25; 9 mm., 1.0.....	1
Die-stock set, No. 2 (P. & W. list No. 219), S. A. E. Standard thread, in case, sizes as follows: $\frac{1}{4}$ —24; $\frac{1}{4}$ —24; $\frac{1}{4}$ —20; $\frac{1}{4}$ —20; $\frac{1}{4}$ —18; and $\frac{1}{4}$ —16; and the following extra taps and dies, U. S. Standard thread, with taper, plug, and bottoming taps, sizes as follows: $\frac{1}{4}$ —12, and $\frac{1}{4}$ —12.....	1
Die-stock set, No. 2-M (P. & W. list No. 219-M), with plug and bottoming taps, in case, sizes as follows: 10 mm., 1.0; 10 mm., 1.5; 12 mm., 1.5; 12 mm., 1.75; 13 mm., 1.25; 13 mm., 1.5; 14 mm., 1.0; 14 mm., 1.5; 14 mm., 2.0; 15 mm., 1.0; 15 mm., 1.125.....	1
Die-stock set, No. 3 (P. & W. list No. 221), with taper, plug, and bottoming taps, U. S. Standard thread, in case, sizes as follows: $\frac{1}{4}$ —18; $\frac{1}{4}$ —11; $\frac{1}{4}$ —10; $\frac{1}{4}$ —9; and 1—8.....	1
Die-stock set, No. 3-M (P. & W. list No. 221-M), with plug and bottoming taps, in case, sizes as follows: 18 mm., 1.5; 20 mm., 1.5; 21 mm., 1.5; 22 mm., 1.0; 24 mm., 1.5.....	1
Reamer, Morse taper, square shank, for reaming Nos. 1, 2, 3, and 4 Morse standard taper sockets, No. 451, 1 each.....	4
Reamer, H. & S. taper, square shank, for reaming Nos. 5, 7, 9, 10, and 11 B. & S. standard taper sockets, No. 452, 1 each.....	5
Reamer, Jarno taper, square shank, for reaming No. 6 Jarno standard taper, No. 456.....	1
Reamer, Jarno taper, square shank, for reaming No. 10 Jarno standard taper socket, No. 456.....	4
Tap, hand, machine screw, U. S. Form thread, No. 115, size Nos. 2—56, 3—48, 4—40, 4—48, 5—36, 5—40, 5—32, 6—40, 7—32, 8—32, 9—32, 10—24, 10—32, 12—24, 12—28, 14—20, 14—24, 3 each.....	51
Tap, hand, machinist, No. 0, U. S. Form thread, No. 101, sizes $\frac{1}{4}$ —40, $\frac{1}{4}$ —32, $\frac{1}{4}$ —24, $\frac{1}{4}$ —32, 2 each.....	8
Tap, hand, No. 0, machinist, size $\frac{1}{4}$ —20, U. S. Standard thread, No. 103.....	2
Tap, hand, machinist, U. S. Form thread; No. 108, sizes $\frac{1}{4}$ —22, $\frac{1}{4}$ —24, $\frac{1}{4}$ —28, $\frac{1}{4}$ —32, $\frac{1}{4}$ —20, $\frac{1}{4}$ —24, $\frac{1}{4}$ —20, $\frac{1}{4}$ —24, $\frac{1}{4}$ —20, $\frac{1}{4}$ —24, $\frac{1}{4}$ —12, $\frac{1}{4}$ —20, $\frac{1}{4}$ —24, $\frac{1}{4}$ —18, $\frac{1}{4}$ —24, 2 each.....	30
Tap, hand, machinist, U. S. Standard thread, No. 103, sizes $\frac{1}{4}$ —18, $\frac{1}{4}$ —16, $\frac{1}{4}$ —14, $\frac{1}{4}$ —13, $\frac{1}{4}$ —11, 2 each.....	10
Tap, hand, machinist, U. S. Standard thread; No. 103, size $\frac{1}{4}$ —10.....	1
Tap, hand, machinist, U. S. Form thread, No. 103, sizes $\frac{1}{4}$ —16, $\frac{1}{4}$ —9, $\frac{1}{4}$ —18, 1 each.....	3
Prentiss Vise Co. (Prentiss), 110 Lafayette Street, New York, City, N. Y.:	
Caps, brass finishing, 25 pairs, to fit vise jaws of No. 19 $\frac{1}{2}$ vise; 2 pairs, to fit vise jaws of No. 21 vise.....	27
Jaws, vise, smooth, 3 sets, fitted for No. 19 $\frac{1}{2}$; 1 set, fitted for No. 47.....	4
Vise, filers, No. 47.....	2
Vise, ironworkers, 20 of No. 19 $\frac{1}{2}$; 1 each of Nos. 21 and 232.....	22

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

	Quantity.
L. S. Starrett Co. (Starrett), Athol, Mass.:	
Blades, hack-saw, 10-inch, Nos. 103, 103-B, and 253, 12 down each.....	down.. 36
Bobs, plumb, 5½-inch, No. 177.....	12
Buttons, toolmaker's, set, No. 404-C.....	4
Caliper, hermaphrodite, 6-inch, No. 42.....	4
Caliper, inside, 2 of 2-inch, No. 274; 4 of 3-inch, No. 74; 4 of 6-inch, No. 74.....	10
Caliper, inside, micrometer, with hex file in case, English, 2 to 12-inch, No. 124, set B; metric, 50 to 300 mm., No. 124-M, set B, 1 each.....	2
Caliper, inside, transfer, 8 and 14-inch, No. 37, 2 each.....	4
Caliper, outside, 2-inch, No. 275.....	2
Caliper, outside, 3-inch and 6-inch, No. 75, 4 each.....	8
Caliper, outside, transfer, 8 and 14-inch, No. 36, 2 each.....	4
Caliper, pocket slide, 3-inch, No. 425.....	6
Dividers, 2-inch, No. 277, 2; 3-inch, No. 77, 4; 6-inch, No. 77, 4; 10-inch, No. 83, 1.....	11
Dividers, improved; with ball points, No. 88 extra, No. 90-B.....	1
Drill blocks and clamp, No. 271-C.....	2
Frame, hack-saw, Nos. 147 and 499, 6 each.....	12
Gauge, radius, Nos. 178-B and 272-B, 1 each.....	2
Gauge, tap and drill, flange saver, No. 185.....	2
Jackscrow, Little Giant, complete, No. 180.....	2
Level, cross test, No. 134.....	2
Nippers, cut, 7-inch, with 2 pairs each jaws for music wire, common use, and bicycle use, with 2 down each screws for jaws and spines, No. 1.....	2
Parallels, adjustable, Nos. 154-A, 154-C, 154-F, 2 each.....	6
Protractor, No. 193.....	2
Screw driver, pocket, No. 553-B.....	6
Square, die maker's, No. 453-C.....	2
Trammel heads, with 1 pair of points, No. 59-A.....	6
Vises, pin, set, No. 162.....	2
E. C. Stearns & Co. (Stearns), Syracuse, N. Y.:	
Stop, carpenter's bench, No. 13.....	12
Taft-Pierce Manufacturing Co. (Taft-Pierce), Woonsocket, R. I.:	
Knee, toolmaker's, style No. 180.....	1
Parallels, steel, style 150, ½ by ½ by 5 inches; ¾ by ¾ by 6 inches; 1 by 1 by 6 inches; 1½ by 1½ by 8 inches, 2 each.....	8
Union Twist Drill Co. (Union), Athol, Mass.:	
Drill, bitstock, carbon steel, No. 130, ½, ¾, 1, 1½, 2, 2½, 3, 4, and 5 inches, 2 each.....	18
Drill and countersink, combined, high-speed steel, 60° 0.052 by 0.052, No. 2; 0.63 by 0.63, No. 3; 0.073 by 0.082, No. 5; 0.098 by 0.093, No. 7, 12 each.....	48
Drill and countersink, combined, high-speed steel, 60° 0.128 by 0.128, No. 9; 0.157 by 0.157, No. 10, 6 each.....	12
Drills, twist, straight-shank, carbon steel, 6 each of sizes ¼ to ½ inch by sixty-fourths, No. 110, 30; 4 each of sizes ¾ to 1 inch by sixty-fourths, No. 110, 48; 3 each of sizes 1¼ to 1½ inch by sixty-fourths, No. 110, 36; 2 each of sizes 1¾ to 2 inch by thirty-seconds, No. 110, 8.....	122
Drills, twist, straight-shank, high-speed steel, 6 each of wire-gauge sizes No. 1 to No. 29, inclusive, No. 525.....	174
Drills, twist, straight-shank, high-speed steel, 12 each of wire-gauge sizes No. 30 to 45, inclusive, No. 525.....	192
Drills, twist, straight-shank, carbon steel, 12 each of wire-gauge sizes No. 46 to No. 80, inclusive, No. 125.....	420
Drills, twist, straight-shank, high-speed steel, 3 each of letter sizes A to Z, inclusive, No. 520.....	78
Drills, twist, taper-shank, high-speed steel, 6 each of sizes ¼ to ¾ inch by sixty-fourths, No. 500.....	174
Drills, twist, taper-shank, high-speed steel, 4 each of sizes ¾ to 1 inch by sixty-fourths, No. 500.....	96
Drills, twist, taper-shank, high-speed steel, 2 each of sizes 1 ⅞ to 1½ inch by thirty-seconds No. 500.....	16
Drills, twist, taper-shank, high-speed steel, 2 each of sizes 1 ⅞ to 2 inch by sixteenths, No. 500.....	16
Drills, twist, taper-shank, high-speed steel, 3 each of sizes 1 ⅞ to 1½ inch by sixty-fourths, No. 500.....	48
Walworth Manufacturing Co. (Walworth), Boston, Mass.:	
Wrench, Stillson, steel handle, No. 3065, 2 each of 6 and 10 inch; 1 each of 14 and 24 inch.....	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

	Quantity.
J. H. Williams & Co. (Williams), Brooklyn, N. Y.:	
Clamp, C, drop forged, 3 inch, 12 of No. 402; 4 inch, 4 of No. 404; 6 inch, 8 of No. 406; 8 inch, 8 of No. 408; 12 inch, 6 of No. 112.....	25
Dog, lathe clamp, drop forged, Vulcan, opening 1½ inches, No. 61, 6; opening 2¼ inches, No. 63, 3; opening 3¼ inches, No. 64, 2.....	11
Dog, lathe, heavy-service, drop forged, Vulcan, 4 inch, No. 112; 6 inch, No. 114, 2 each.....	4
Yale & Towne Manufacturing Co. (Yale), 9 East Fortieth Street, New York City:	
Chain, block, triplex, 6, ½-ton capacity; 4, 2-ton capacity.....	10
Chain, floor, portable, with winch, No. 2.....	1
The Hissey-Wolf Machine Co. (Hissey-Wolf), Cincinnati, Ohio:	
Grinder, tool-post, universal, with hand feed No. 2-ASU, for use on either 110 volts direct current or single-phase alternating current of from 25 to 60 cycle, complete with regular equipment and following extra equipment: 2 wheels, alundum, 5 by ¾ by ¼ inch hole, 50-grain, grade M; 2 wheels, alundum, 3 by ¾ by ¼ inch hole, 50-grain, grade M; 6 wheels, alundum, 1 by ¼ by ¾ inch hole, assorted grain and grade.....	2
Ingersoll-Rand Co. (Ingersoll-Rand), 11 Broadway, New York City, N. Y.:	
Compressor, air, stationary, Imperial type 12, 4½ by 5 inches, equipped for motor drive, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer, with automatic switch and valve, with vertical air receiver No. 0, 18 inches by 6 feet, complete with fittings.....	2
Lodge & Shipley Machine Tool Co. (Lodge & Shipley), Cincinnati, Ohio:	
Lathe, engine, selective head, 20-inch swing, 12-foot bed (actual swing over sheer 22½ inches, distance between centers with tailstock flush with end of bed, 7 feet 9½ inches; selective head to be arranged for belted motor drive on head, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. Lathe to be complete with regular equipment and the following extra equipment.....	1
Chuck, combination, spur-gear scroll (Westcott), fitted to lathe, one 3-jaw, 10½ inches; one 4-jaw, 18½ inches.	
Chuck, draw-in, with 1 each collets ¾ to 1¼ inches, by sixteenths.	
Chuck, drill, Jacobs No. 1, fitted to lathe.	
Chuck, quick-catch, with complete set of jaws.	
Diameter stops, complete.	
Female center.	
Follow rest.	
Half center.	
Head arranged for spindle reverse control.	
Holder, tool, ¾ by 1½ by 7 inches, with 2 extra cutters, 1 left-hand offset, Armstrong No. 2-L; 1 right-hand offset, Armstrong No. 2-R; 1 straight-shank, Armstrong No. 2-S.	
Pan, oil, with pump and tubing, fitted to lathe.	
Plain rest connected to compound rest.	
Point center.	
Power angular feed to compound rest.	
Taper attachment.	
Tool, block, four-way.	
Tool, boring, with 2 extra sets of cutters, 3-bar, complete, Armstrong No. 3-B, 1: ¾ by 1½ inches, Armstrong No. 10, 1.	
Tool, cutting-off, ¾ by 1½ inches, with 1 extra cutter, left-hand offset, Armstrong No. 32-L; right-hand offset, Armstrong No. 32-R, 1 each.	
Tool, cutting-off, straight shank, ¾ by 1½ by 7 inches, with 1 extra cutter, Armstrong No. 22.	
Tool, post ring and wedge.	
Potter & Johnston Machine Co. (Potter & Johnston), Pawtucket, R. I.:	
Shaper, universal, 15 inches, with swivel table having one side tilting, with power down feed, automatic stop, graduated swivel vise, circular planing attachment, index centers, 1 Armstrong cutting-off tool No. 22 with 2 extra cutters, 1 Armstrong extension shaper tool No. 48 with 1 each extra bars and bushings ½ and ¾ inch with 2 extra sets of cutters for each bar; 1 Armstrong planer and shaper tool No. 401 with 4 extra cutters. Machine to be arranged for silent chain drive, with constant-speed motor, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to specifications of Potter & Johnston Machine Co., Pawtucket, R. I.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

Pratt & Whitney Co. (Pratt & Whitney), Hartford, Conn.:	Quantity.
Lathe, engine, geared head, English lead and cross-feed screws, 12-inch swing, 6-foot bed, maximum distance between centers 42 inches, arranged for constant-speed motor drive, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer, to be complete with regular equipment and following extra equipment.....	2
Cabinet arranged for holding tools.	
Center gauge.	
Center reamers, 6 each, $\frac{1}{8}$, $\frac{3}{8}$, and $\frac{1}{2}$ inch.	
Chuck, combination, spur-gear scroll, one 3-jaw, 6-inch, and one 4-jaw, 8-inch, Westcott, fitted to lathe.	
Chuck, drill, Jacobs No. 3, fitted to tail spindle.	
Combination tool holder with 13 high-speed cutters, 2 small boring bars and holder, 1 centering tool, 1 wrench.	
Cutting-off tool holder, No. 0 Johnson, with 12 blades.	
Drill holder, size A, No. 60 to $\frac{1}{4}$ inch capacity.	
Drill pad, 3-inch diameter, fitted to tail spindle.	
Female center.	
Half center.	
Knurling tool holder with 3 pairs knurls, fine, medium, and coarse.	
Micrometer clamp.	
Pyramid for chucks, etc.	
Screw-pitch gauge.	
Step chuck and closer attachment, consisting of 2 step chucks, $\frac{3}{8}$ to 2 inches capacity; 2 step chucks, 2 to 4 inches capacity; 2 step chucks, 4 to 6 inches capacity; 1 closer for 2-inch chucks; 1 closer for 4-inch chucks; 1 closer for 6-inch chucks.	
Square center.	
Threading-tool holder, No. 2 P. & W., with 1 cutter sharp V single, 1 cutter sharp V double offset, 1 cutter for center turning.	
No substitution to be made unless equipment substituted conforms with specifications of Pratt & Whitney Co., Hartford, Conn.	
Lathe, engine, geared head, metric lead and cross-feed screws, 16-inch swing, 10-foot bed, maximum distance, between centers 84 inches, arranged for constant-speed motor drive, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer; to be complete with regular equipment and following extra equipment.	
Ball-turning rest.	
Cabinet arranged for holding tools.	
Chuck, combination, spur-gear scroll, one 3-jaw, 8-inch, and one 4-jaw, 13 $\frac{1}{2}$ inches Westcott, fitted to lathe.	
Chuck, drill, Jacobs No. 4, fitted to tail spindle.	
Collet attachment, with 15 collets $\frac{3}{8}$ to 1 $\frac{1}{2}$ inches, by sixteenths.	
Combination tool holder, with 13 high-speed cutters, 2 boring bars and holder, 1 centering tool, 1 wrench.	
Cutting-off tool holder, No. 3 Johnson, with 12 blades.	
Drill pad, 3-inch diameter, fitted to tail spindle.	
Expansion arbors and bushings, consisting of 1 arbor each, No. 1, No. 2, and No. 3; 4 bushings (for No. 1 arbor), $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch; 8 bushings (for No. 2 arbor), 1 to 1 $\frac{1}{4}$ inch, by sixteenths; 5 bushings (for No. 3 arbor), 1 $\frac{1}{2}$ to 2 inch, by eighths.	
Female center.	
Half center.	
Knurling tool holder, with 3 pairs knurls—fine, medium, and coarse.	
Micrometer clamp.	
Multiple indexing face plate.	
Pan and oil pump, fitted.	
Pyramid arranged for holding chucks, etc.	
Relieving attachment, regular.	
Step chuck and closer attachment, consisting of 2 step chucks, $\frac{3}{8}$ to 3 $\frac{1}{2}$ inch capacity; 1 step chuck, 3 $\frac{1}{2}$ to 7 inch capacity; 1 step chuck with 4 adjustable jaws, 4 $\frac{1}{2}$ inch capacity; 1 closer for 3 $\frac{1}{2}$ inch chucks; 1 closer for 7 inch and 4 $\frac{1}{2}$ inch chucks; 1 spindle bushing for step chucks.	
Square center.	

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

Pratt & Whitney Co. (Pratt & Whitney), Hartford, Conn.—Continued.

Lathe, engine, geared head, etc.—Continued.

Quantity.

Threading-tool holder, No. 3 P. & W., with 1 cutter sharp V angle, 1 cutter sharp V double, and 8 cutters, international standard, from 0.75 mm. to 2.5 mm. pitch.

No substitution to be made unless equipment substituted conforms with specifications of Pratt & Whitney Co., Hartford, Conn.

James Clark, jr., Electric Co., Louisville, Ky.:

Grinder, bench type, on pedestal, Willey No. 1, with regular equipment and following extra equipment: 1 wheel, aluminum, 8 by $\frac{1}{2}$ by $\frac{1}{2}$ inch hole, 50-grain, grade M, and 1 wheel, aluminum, 8 by $\frac{1}{2}$ by $\frac{1}{2}$ inch hole, 50-grain, grade N or O. Machine to be motor-drive type, 60-cycle, 3-phase; motor to be furnished and fitted by the manufacturer. No substitution to be made.

2

Grinder, floor Willey, with regular equipment and following extra equipment: 1 wheel, aluminum, 12 by 2 by 1 inch hole, grain 24, grade G; 1 wheel, aluminum, 12 by 2 by 1 inch hole, grain 50, grade L; 1 wheel, aluminum, 12 by 2 by 1 inch hole, grain 60, grade M; 1 wheel, aluminum, 12 by 2 by 1 inch hole, grain 60, grade L, shape B. Machine to be motor-drive type, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer. No substitution to be made.

2

Drill, sensitive, friction drive, floor type Willey, 16 inches, to drill holes up to $\frac{1}{2}$ inch in diameter, No. 2 Morse taper in spindle, complete with V block, cup, and point centers, and Jacobs No. 3 drill chuck. Machine to be motor-drive type, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer. No substitution to be made.

4

Grinder, tool, water, Willey, with regular equipment and 1 extra grinding wheel of same type as furnished with grinder. Machine to be motor-drive type, 60-cycle, 3-phase, motor to be furnished and fitted by manufacturer. No substitution to be made.

1

Hack saw, Willey, electrically driven, 60-cycle, 3-phase, with graduated swiveling vise, 4 dozen hack-saw blades (Starrett No. 115) and 12 dozen hack-saw blades (Starrett No. 265). No substitution to be made.

1

Grinding machine, universal tool (B. & S. No. 13), frame to be of box type and rigidly braced internally; base of wheel stand slide to extend to floor, the entire frame to rest upon 3 points to insure absolute maintenance of alignment. All controlling handwheels, levers, and reversing dogs must be located at front of machine within instant reach of operator. All parts subjected to excessive wear to be hardened. Capacity, to swing work between centers provided up to 8 inches in diameter by 24 inches and $\frac{1}{2}$ inch, hand vertical adjustment of wheel head 6 inches. Machine to be arranged for constant-speed motor drive, 60-cycle, 3-phase; motor, countershaft, and all necessary belting to be furnished and fitted by manufacturer and to be mounted on vertical columns attached to floor. To be complete with regular equipment and following extra equipment.

1

1 cupboard arranged for holding tools and attachments.

1 chuck, combination, spur-gear scroll, 2-jaw, 6-inch Westcott, fitted to live spindle.

1 center, index, complete.

15 grinding wheels, aluminum, sizes as follows: Four 1-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 50-grain, grade L; two 2-inch diameter, $\frac{1}{2}$ -inch thick, 50-grain, grade M; two 2-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 46-grain, grade L; two 3-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 50-grain, grade K; two 3-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 46-grain, grade M; two 6-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 50-grain, grade L; one 7-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 46-grain, grade L.

6 grinding wheels, same grain and grade as those furnished with regular equipment, sizes as follows: 2 bevel and concave, 3 $\frac{1}{2}$ -inch diameter, $\frac{1}{4}$ -inch thick, $\frac{1}{2}$ -inch hole; 1 bevel and concave, 6-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 2 cupped 4-inch diameter, $\frac{1}{2}$ -inch thick, $\frac{1}{2}$ -inch hole, 1 cupped 7-inch diameter, 2-inch thick, $\frac{1}{2}$ -inch hole.

1 internal grinding attachment.

1 radial grinding attachment.

1 surface grinding attachment.

No substitution to be made unless machine substituted conforms with specifications of Brown & Sharpe, Providence, R. I.

Notes for basic table of allowances, Air Service—Continued.

NOTE 46—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FLEET—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Machine shop—Continued.

James Clark, jr., Electric Co., Louisville, Ky.—Continued.	Quantity.
Milling machine, universal, longitudinal feed 28 inches, transverse feed 10 inches, vertical feed 18 inches; all feeds automatic; centers swing 10 inches diameter, take 27½ inches length; B. & S. No. 2-A, arranged for constant-speed motor drive, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer; machine to be complete with regular equipment and the following extra equipment.....	1
Arbors, cutter, 1 each of Nos. 6 and 11.	
Chuck, spring, No. 154, with 1 each extra spring collets, size ½, ⅜, ⅙, and ¼ inch.	
Circular milling attachment, with automatic feed fitted.	
Collets, 1 each of J, Z, R, and FF.	
End mills, 1 each, left hand, Nos. E-701, E-705, E-709, and E-717.	
Oil pump, fitted.	
Scale and vernier for longitudinal, transverse, and vertical adjustments of table.	
Slotting attachment No. 1, with complete set of tools.	
Standard set of tools for use on milling machine, all cutters to be of high-speed steel.	
Universal milling attachment No. 1.	
Wooden cupboard, with lock and 2 keys, arranged for holding attachments and tools.	
No substitution of machine or attachments to be made unless the equipment substituted conforms to specifications of Brown & Sharpe, Providence, R. I.	

Magneto shop.

B. V. D. Electric Manufacturing Co. (B. V. D.), San Antonio, Tex.:	
Magneto trouble finders, type C.....	2
Eimer & Amend (E. & A.), 205 Third Avenue, New York City, N. Y.:	
Graduate glass, cone shape, 12 ounces, No. 3802, for use in connection aviation ignition battery.....	2
Spatulas, steel blade, flexible, and steel-balanced handle, in one piece, length 20 cm., No. 6274, for use in connection aviation ignition battery.....	2
Still, water, Barnstead automatic, capacity 1 gallon per hour, for use in connection repair work to aviation ignition battery, No. 2671.....	2
Electric Storage Battery Co. (E. S. B. Co.), Philadelphia, Pa.:	
Lead-burning outfit, arc type, with 12 extra carbons, No. 8908, for use in connection aviation ignition battery.....	1
Tank, lead lined, acid mixing, capacity about 8 cubic feet, type G-35, for use in connection with aviation ignition battery.....	1
Wrench, sealing nut, for use in connection aviation ignition battery.....	2
Hodgman Rubber Co. (Hodgman), Tuckahoe, N. Y.:	
Gloves, rubber, white, for use acid mixing, with 5-inch gauntlet, 2 pair each, sizes Nos. 13, 14, and 15, for use in connection aviation ignition battery.....	6
R. S. Mueller & Co. (R. S. M. & Co.), 463 High Avenue, Cleveland, Ohio:	
Clip, battery, type 13-A, for use in connection aviation ignition battery.....	50
Weston Electric Instrument Co. (Weston), Newark, N. J.:	
Voltmeter, portable, miniature precision, direct-current, triple-range, 150-15-3 volts, in leather case, model 280, no substitution to be made.....	2
Ammeter, portable, miniature precision, direct-current, triple-range, 30-15-3 amperes, in leather case, model 280, no substitution to be made.....	2
Willard Storage Battery Co. (Willard), Cleveland, Ohio:	
Bulder, post, build-up negative post, aviation ignition battery.....	4
Clamp, split-copper, used in the build-up of posts of aviation ignition battery.....	2
Dipper, special, used for pouring sealing compound between cover and jar, aviation ignition battery.....	2
Funnel, lead, used in pouring electrolyte into aviation ignition battery.....	2
Guide, rectangular ¼ of thin metal, used to insert element into cell of aviation ignition battery.....	2
Syringe, with aviation hydrometer and bent hard-rubber and soft-rubber tube for use with aviation ignition battery.....	4
Syringe, filling, for aviation ignition battery.....	4
Tube, glass, used in checking electrolyte above baffle plate, aviation ignition battery.....	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 66—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Magneto Shop—Continued.

Splittorf Electrical Co. (Splittorf), 96 Warren Street, Newark, N. J.:	Quantity.
Tools, magneto repair, set, each set to consist of the following.....	set.. 1
1 block, timing, set of.	
3 breaker bar reamers.	
1 busser set.	
1 can puller.	
1 condenser test set.	
1 gear puller.	
1 insulation test set.	
1 iron keepers, set of (6 pieces).	
1 magneto (Dixie) tool kit, each kit to contain: Cam-puller assembly, distributor gauge, platinum file, screw drivers, special (2), socket wrench assembly, with 3 socket wrenches, spanner wrenches (2), staking tool.	
6 platinum files.	
1 stand, test, with following equipment: Test stand frame, magneto clamping device, magnetizing coils, spark gap panel, countershaft with screw pulley and groove pulleys (4) for driving all models of magnetos.	
1 thickness gauge with 0.15, 0.020, 0.035 leaves.	
1 wrench, adjusting, M-2.	
1 wrench, socket, for ball-bearing distributor shaft.	

Motor overhaul (test stands) shop.

Bridgeport Brass Co. (Bridgeport), Bridgeport, Conn.:	
Gun, oil, finished, polished brass lacquered, 8 inches long, 1½ inches diameter, No. 4071.....	6
Kalamazoo Railway Supply Co. (Jackson), Kalamazoo, Mich.:	
Grinder, electric, valve, complete with cushioned flexible chuck for use in grinding valves of Liberty motors, No. 4.....	4
Veeder Manufacturing Co. (Veeder), Hartford, Conn.:	
Counter, speed, No. 21.....	6
Tools, motor overhaul, Hispano-Suiza engine; numbers given are those furnished by Wright-Martin Aircraft Corporation, New Brunswick, N. J. (Wright-Martin):	
Bar, cam shaft, aligning, Hispano motor, No. TA-11108-D-124.....	1
Bearing drawer, Hispano motor, No. TA-12006-E-4.....	1
Clamp, Hispano motor, piston rings, No. TA-12000-T-10; valve closing, No. D-360, 1 each.....	2
Cutter, valve seat, Hispano motor, with 0.629-inch pilot, No. TA-12-66-E-5; with 0.631-inch pilot, No. TA-12-66-E-9, 1 each.....	2
Disc and holder, special, 0.56 mm. by 1.25 mm. pitch, Hispano motor, No. TA-10541-A-3.....	2
Disk and scale, timing, Hispano motor, No. TA-12066-E-1.....	1
Drift, piston pin, Hispano motor, No. 12015-C-1.....	2
Driver, cam-shaft stud, Hispano motor, No. TAM-269.....	2
Indicator, dead-center, Hispano motor, No. TA-12066-E-2.....	1
Key, valve-adjusting, Hispano motor, No. TA-12066-E-2.....	1
Puller, cam-shaft gear, Hispano motor, No. TA-12027-C-1.....	1
Puller, crank-shaft ball bearing, Hispano motor, No. 12113-T-4.....	1
Reamer, 0.629 inch, Hispano motor, No. TA-12075-C-8; adjustable, 1.181 inches, Hispano, No. TA-10537-C-51, 1 each.....	2
Reamer, line, cam-shaft, Hispano motor, No. TA-11108-D-42.....	1
Reamer, roughing, exhaust valve seat, Hispano motor, No. TA-12066-T-89.....	1
Reamer, roughing, inlet valve seat, Hispano motor, No. TA-12066-T-60.....	1
Screw driver, crank-shaft plug, Hispano motor, No. TA-12006-C-5.....	1
Stand, cylinder assembly, Hispano motor, for holding cylinders while grinding valves, etc., No. D-101-M.....	2
Stand, engine assembly, Hispano motor, for use dismantling and assembling engine.....	4
Tap, 0.56 mm. by 1.25 mm. pitch, Hispano motor, No. 15039-C-29.....	1
Tool, valve-grinding, Hispano motor, No. TA-12066-E-27.....	2
Valve-lifter assembly, Hispano motor, No. TA-12066-E-6.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Motor overhaul (test stands) shop—Continued.

Veeder Manufacturing Co. (Veeder), Hartford, Conn.—Continued.

Tools, motor overhaul, etc.—Continued.	Quantity.
Wrench, 8 mm., for removing nuts lower half crank case, Hispano motor, No. TAM-321; core plug, Hispano motor, No. TA-12-36-C-9; crank-shaft nut and starting dog assembly, Hispano motor, No. TA-12-66-T-78, 1 each.....	3
Wrench, cylinder-cover screw, Hispano motor, No. TA-12066-E-20; cylinder stud nut, Hispano motor, No. TA-12066-T-72, 2 each.....	4
Wrench, double end, magneto coupling, Hispano motor, No. TA-12066-E-50.....	2
Wrench, magneto cap-screw, $\frac{3}{4}$ by 15 inches, Hispano motor, No. 12066-T-85.....	2
Wrench, propeller hub nut, Hispano motor, No. TA-11147-T-4.....	2
Wrench, interconnecting rod bolt, No. 12002-T-14; main bearing stud nut, Hispano motor, No. TA-12066-E-71; oil pump, Hispano motor, No. TA-12066-E-82; outer connecting-rod nut, Hispano motor, No. 12001-T-5; piston pin, Hispano motor, No. TA-12066-E-45; socket, square, Hispano motor, No. TA-12015-C-2; socket valve guide, Hispano motor, No. TA-12066-E-40; spanner, valve tappet, Hispano motor, No. TA-12066-E-32; spark plug bushing, Hispano motor, No. TA-12066-T-7; valve tappet Hispano motor, No. TA-12066-E-18, 1 each.....	10

Tools, motor overhaul, Liberty engine. These tools can probably be obtained at Detroit through the district manager's office, Aircraft Production, Detroit, Mich.:

Bar, lining, for main bearings, for use with Liberty motor.....	1
Bearing burnisher, for use with Liberty motor.....	2
Box with battery and electric lights, for synchronizing distributor heads, for use with Liberty motor.....	2
Disk and pointer, timing, for use for Liberty motor.....	2
Gauge, spacer, rocker-arm valve, for use with Liberty motor.....	2
Indicator, dead center, with gauge, for use with Liberty motor.....	2
Puller, for use with Liberty motor, cam-shaft gear; bearing, crank-shaft thrust; generator and cam-shaft drive, 2 each.....	6
Puller, hub, for use with Liberty motor.....	1
Puller, for use with Liberty motor, stud, $\frac{1}{4}$, $\frac{3}{8}$, and $\frac{1}{2}$ inch, 2 each.....	6
Puller, water-pump impeller, for use with Liberty motor.....	1
Reamer, for use with Liberty motor, connecting-rod bearing; exhaust and intake valve-stem reamer; for main bearings; wrist pin, 1 each.....	4
Stand, engine assembly, for use dismantling and assembling Liberty engines (stand manufactured by Ford Co., of Detroit, preferred; if not obtainable, those manufactured by Hershell-Spillman Co. of North Tonawanda, N. Y., should be furnished).....	10
Spreader, piston ring, for use with Liberty motor.....	2
Valve reseater, for use with Liberty motor.....	2

Pipe fitters shop.

The Armstrong Manufacturing Co. (Armstrong Co.), Bridgeport, Conn.:

Cutter, pipe, with extraset cutters and pins, $\frac{1}{2}$ to $1\frac{1}{2}$ inches, No. 1-B; $\frac{1}{2}$ to $2\frac{1}{2}$ inches, No. 2-B, 1 each..	2
Die, gas fixture, right, 27 threads, 1 each of sizes $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch, No. 2.....	6
Die-stock set, consisting of 1 each pipe dies right and left, sizes $\frac{1}{2}$ to $\frac{3}{4}$ inch, and 1 each pipe taps right and left, sizes $\frac{1}{2}$ to $\frac{3}{4}$ inch, with Bard No. 2 adjustable bushing, set to be complete in case No. 2.....	1
Die-stock set, consisting of 1 each pipe dies right and left, sizes 1 to 2 inches, with Bard No. 3 adjustable bushing, set to be complete in case, No. 3.....	1
Jaw, brass pipe, set, 1 each set, sizes $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, 1 , $1\frac{1}{2}$, and $1\frac{3}{4}$ inches, No. 4.....	8
Tap, hand, brass pipe, 27 threads, 2 each of sizes $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and $\frac{3}{4}$ inch.....	12
Vise, pipe, hinged, takes from $\frac{1}{2}$ to $2\frac{1}{2}$ inch pipe, No. 1.....	1
Wrenches, tap, pipe fitting taps $\frac{1}{2}$ to $\frac{3}{4}$ inch, No. 2; fitting pipe taps $\frac{1}{2}$ to 1 inch, No. 3; fitting pipe taps 1 to 2 inches, No. 4, 1 each.....	3

Timmers shop.

Peck, Stow & Wilcox Co. (P. S. & W.), New York City, N. Y.:

Hammer, raising, 2 $\frac{1}{2}$ -pound, handled, No. 3.....	1
Holder, stake, universal, with complete set of takes.....	1
Iron, soldering, $1\frac{1}{2}$ and 2 pound, No. $1\frac{1}{2}$, 1 each.....	pair.. 2

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SECOND-YEAR PIANO—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—Continued.

Tinner's shop—Continued.

	Quantity.
Peck, Stow & Wilcox Co. (P. S. & W.), New York City, N. Y.—Continued.	
Machine, Columbian, burring, large, with extra upper face, with stand; setting down, with stand; turning, large, with extra upper and lower face, with stand; wiring, with stand, 1 each	4
Machine, Grannis grooving, with stand, No. 25; tin folding, No. 34, 1 each	2
Mallet, tinners, 2½ and 3 inches, No. 2, two each	4
Pan, soldering, cast-iron, No. 6	2
Rivet sets, 1 each Nos. 00 to 8, No. 56	10
Machine, stove and tin pipe former, No. 0	1
Shears, double-cutting and pipe crimper, No. 2; squaring, No. 45, 1 each	2
Turner Brass Works (Turner), Sycamore, Ill.:	
Torch, hot-blast, No. 202	2
Furnace, tinner's, hot-blast, with pot, 7-pint capacity, No. 34	1
J. Wiss & Sons Co. (Wiss), Newark, N. J.:	
Shears, straight trimmers, 10-inch, No. 1680	2
Snips, tinner, combination, 11½-inch, No. 180, 12½-inch, No. 19, 1 each; regular pattern, 1, 9½ inches, No. 11; 2, 14½ inches, No. 7	5
W. J. Savage Co., Knoxville, Tenn.:	
Cutter, sheet metal, Gray's No. 3, equipped for motor drive, 60-cycle, 3-phase; motor, and bolting if necessary, to be furnished and fitted by manufacturer. Machine to be complete with regular equipment and following extra equipment: Two sets of roller cutters, 6 reciprocating knives, and 4 stationary knives	1
Brake and folder, combination, Peck-Stow, No. 95 (or equal)	1
<i>Welders shop.</i>	
Prest-O-Lite Co. (Inc.) (Prest-O-Lite), Indianapolis, Ind.:	
Welding equipment, Prest-O-Lite, type H, complete with regular equipment and adapters for tanks and the following extra equipment	1
1 auxiliary type G welding equipment; 1 type K.	
1 rivet-cutting attachment.	
1 carbon burning torch.	
<i>Auto repair shop.</i>	
Buck Bros. (Buck), Millbury, Mass.:	
Wood chisels, set, No. 34-D, 8 chisels, ½ inch to 2 inches	sets.. 2
Chisel, socket firmer, set, leather tip, No. 34-D	sets.. 2
Gauge, set, handles, firmer, leather, tip, No. 8-B	do... 1
Gauges, 1 each, No. 8, ½, 1, 1½, and 1¾ inches	5
Wibusch & Hilger (Ltd.) (H. J. H.), 106 Lafayette Street, New York City, N. Y.:	
Bar, wrecking, quarter bend nail claw and wedge point, style 5, no substitution to be made, 12, ½ by 30 inches; 2, 1 by 42 inches	14
Bar, wrecking, regular wedge point and gooseneck nail claw, style 1, no substitution to be made, 6, ½ by 30 inches; 2, 1 by 42 inches	8
Kellogg Manufacturing Co. (Kellogg), Rochester, N. Y.:	
Pump, air, special compound	6
Mathias Klein & Sons (Kleins), Chicago, Ill.:	
Pliers, long curved-nose, 6-inch, No. 302-6; long-nose, 5-inch, No. 301-5; oblique cutting, 5-inch, No. 202-5, 2 each	6
Pliers, round-nose, 5½-inch, No. 312	12
Pliers, side-cutting, 6-inch, No. 201-6	6
Henry A. Lowe (Last Word), 1374 East Eighty-eighth Street, Cleveland, Ohio:	
Indicator, test, universal, model C	1
Lufkin Rule Co. (Lufkin), Saginaw, Mich.:	
Rule, steel, flexible, 3-fold, 2-foot, No. 85; tinner's 3-foot, plain, No. 96, 1 each	2
Tape, measuring, steel, 50-foot, graduated feet, inches, and sixteenths, No. 203; 100-foot, No. 346, 2 each	4
Yardstick, beveled, tipped, 1½ by ½ inch, No. 7125	2
David Maydole Hammer Co. (Maydole), Norwich, N. Y.:	
Hammer, adze eye nail, 12-ounce, with extra handle each hammer, No. 12	2
Hammer, machinists' ball peen, 2½-pound, with extra handle each hammer, No. 3704	1
Hammer, riveting, tinners', full polished, 8-ounce, No. 295; 1 pound, No. 293, 1 each	2
Hammer, setting, tinners', square, full polished, 1-pound, No. 308	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Aero repair shop—Continued.

	Quantity.
Millers Falls Co. (M. F. Co.), Millers Falls, Mass.:	
Beace, Lion-brand, ratchet, 10-inch sweep, No. 722.....	6
Charles Monk (Monk), 83 Eighteenth Street, Brooklyn, N. Y.:	
Tools, set, molders', as follows:	
Heart and square, $\frac{1}{2}$ -inch.....	1
Heart and leaf, 1-inch.....	1
Heart and square spoon, 1-inch.....	1
Heart and oval spoon, 1-inch.....	1
Taper and square spoon, 1-inch.....	1
Taper and leaf, 1-inch.....	1
Spoon No. 1, 1-inch.....	
Taper and oval spoon, $\frac{1}{2}$ -inch.....	
Double square, $\frac{1}{2}$ -inch.....	
Leaf and long spoon, $\frac{1}{2}$ -inch.....	
Leaf stove, $\frac{1}{2}$ -inch.....	
Gate cutter, $\frac{1}{2}$ -inch.....	
Stove slick, $\frac{1}{2}$ -inch.....	
Slick, Yankee, heel down, No. 1.....	1
Left-hand, $\frac{1}{2}$ -inch.....	1
Slick, Yankee, heel down.....	1
Right-hand, $\frac{1}{2}$ -inch.....	1
Lifter, $\frac{1}{2}$ by 12-inch; $\frac{1}{2}$ by 12-inch, 1 each.....	2
Trowel, square, $1\frac{1}{2}$ by 5 inches; finishing, $1\frac{1}{2}$ by 5 inches, 1 each.....	2
Morse Twist Drill & Machine Co. (Morse) New Bedford, Mass.:	
Case, indexed, sizes 1 to 60, without drill, No. 8-A.....	2
Gauge, twist drill, Nos. 783 and 785, 1 each.....	2
Holder, drill, folding, sizes $\frac{1}{8}$ to $\frac{1}{2}$ inch by sixty-fourths, without drills, No. 5-B; sizes 1 to 60, without drills, No. 8-B; sizes A to Z, without drills, No. 15-B, 2 each.....	6
Sleeve, steel, with Nos. 1 and 2 Morse taper fitted to No. 9 Brown & Sharpe style A, No. 260, 1 each.....	2
Sleeve, steel, with Nos. 2 and 3 Morse taper fitted to No. 10 Brown & Sharpe style A, No. 260, 1 each.....	2
Mandrel, steel, hardened and ground, 1 each size $\frac{1}{2}$ to 1 inch by sixteenths, No. 570.....	26
Mandrel, steel, hardened and ground, 1 each size $1\frac{1}{8}$ to 2 inches by sixteenths, No. 570.....	16
Mandrel, steel, hardened and ground, No. 570, special sizes $\frac{1}{4}$ -inch, $\frac{1}{2}$ -inch, $\frac{3}{4}$ -inch, 1 each.....	3
Oliver Machinery Co. (Oliver), Grand Rapids, Mich.:	
Band-saw brazer, with regular equipment and 2 ounces silver solder and 2 pounds spelter solder extra, No. 461.....	1
Band-saw fitting-up wheels, No. 458.....	1
Trimmer, wood, full universal, No. 2.....	1
C. S. Osborne & Co. (Osborne), Box 183, Newark, N. J.:	
Awls, saddlers' stitching, Nos. 53 to 58, assorted, straight curved; sets, saddlers' harness, Nos. 43 to 48, assorted, straight and curved, 2 each..... set.....	4
Claw tool, No. 122.....	12
Grommet, die, No. 00, No. 2, No. 3, No. 4.....	1
Hafts, awl, rosewood, handle riveted, No. 146.....	4
Horse, stitching, No. 170.....	1
Knife, cap, flat handle, No. 80.....	2
Knife, round, medium, oval handle, No. 70.....	1
Knife, square point, flat handle, No. 77.....	2
Punch, cutting, No. 00, No. 2-A, No. 3-A, No. 4-A.....	1
Rockford Tool Co. (Rockford), Rockford, Ill.:	
Tool, balancing, aeroplane propellers; Twentieth Century, No. 3, heavy, 1 each.....	2
James Smith & Son (Inc.) (Smith), 40 S. Franklin Avenue, Brooklyn, N. Y.:	
Palms, hand, sewing, No. 13.....	4
Springfield Machine Tool Co. (Springfield), Springfield, Ohio:	
Press, straightening, bench, No. 1.....	2
The Bridgeport Hardware Manufacturing Corporation (Unbreakable), Bridgeport, Conn.:	
Nail puller, 18-inch, No. 20.....	12

Notes for basic table of allowances, Air Service—Continued.

NOTE 66—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Auto repair shop—Continued.

	Quantity.
Singer Sewing Machine Co. (Singer), Singer Building, New York City, N. Y.:	
Sewing machine, No. 7-31, with table and stand, 50 No. 25 needles and 50 No. 25 needles. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer.....	1
Sewing machine, No. 31-15, with table and stand, 50 each of needles Nos. 16, 18, 19, 21, and 23. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer.....	1
Sewing machine, No. 78-1, with table and stand and 50 each of needles Nos. 19, 21, 22, and 23. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer.....	1
Sewing machine, 1/2-inch gauge, No. 112-W-116, with table and stand, 1 lap-cream folder, 1 edge guide, and 100 assorted needles. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer.....	1
American Electrical Heater Co. (American Beauty), Detroit, Mich.:	
Iron, soldering, electric, two 1/2-inch, No. 3126; three 1/2-inch, No. 3126; two 1/2-inch, No. 3178.....	7
Pot, glue, electric, two 2 quarts, No. 182; one, 4 quarts, No. 145.....	3

Paint and dope shop.

Rubberst Co. (Rubberst), 56 Ferry Street, Newark, N. J.:	
Brush, camel's-hair, double-thick, 2 inches wide, No. 244.....	2
Brush, sitch hair, sign writer's, No. 256, 1/2, 1/2, and 1 inch wide, 1 each.....	3
Brush, sitch, varnish, 2 and 3 1/2 inches wide, double-thick, No. 217, 3 each.....	6
Brush, glue, round, copper-bound, 1 1/2 inches diameter, No. 105.....	1 1/2
Brush, glue, flat, copper-bound, 3 inches wide, No. 106 1/2; round, copper-bound, 2 inches diameter, No. 105; half-elastic, varnish, 2 1/2 inches wide, triple-thick, No. 55; painter's, duster, black bristle, No. 4, No. 46; Russian bristle, 3, 4, and 5 inches wide, No. 133, 1 each; Siberian ox hair, 1 and 2 inches wide, No. 226 1/2, 1 each; Siberian ox hair, 3 inches wide, No. 226 1/2, 1.....	12

Sailmakers' shop.

Julius Berbecker & Sons (Berbecker), Room 2002, 15 East Twenty-sixth Street, New York City, N. Y.:	
Needle, curved, single round point, XX light, 2 1/2 inches long.....	24
Needle, gloves, No. 4.....	50
Needle, harness, No. 2, No. 3, No. 6.....	25
Needle, mattress, 12 inches long, extra light, straight, single point.....	12
Needle, sail, best quality, 12-gauge and 16-gauge, 25 each.....	50
Manufacturers' name and address of trade names of articles listed in sailmakers' tool kit, as follows:	
(Hercules), Fiber Specialty Manufacturing Co., Kennett Square, Pa.; (Unaco), United Awl & Needle Co., West Medway, Mass.; (Osborne), C. S. Osborne & Co., Newark, N. J.; (Maydole), David Maydole Hammer Co., Norwich, N. Y.; (Berbecker), Julius Berbecker & Sons, Room 2002, 15 East Twenty-sixth Street, New York City, N. Y.; (Smith), James Smith & Son (Inc.), Brooklyn, N. Y.; (Bernard), Wm. Schollhorn Co., New Haven, Conn.; (Drew), C. Drew & Co., Kingston, Mass.; (Lufkin), Lufkin Rule Co., Saginaw, Mich.; (Wiss), J. Wiss & Sons Co., Newark, N. J.; (Pike), Pike Manufacturing Co., Pike, N. H.; (Hargrave), Cincinnati Tool Co., Cincinnati, Ohio:	
1 tool case, 14 by 6 by 7 inches, fiber (Hercules No. 61).....	3
6 awls, harness, square shank (Unaco No. 44); 6 No. 47; 6 No. 50.	
6 awls, sewing, square shank (Unaco No. 00); 6 No. 1; 6 No. 3; 6 No. 5; 6 No. 7.	
1 gauge, draw, with trigger (Osborne No. 51).	
1 grommet set, size 1 (Osborne No. 216), with cutting punch extra; 1 size 2; 1 size 3.	
4 hafts, arrow, sewing awl (Unaco).	
1 hammer, brad, 4-ounce (Maydole No. 826).	
2 knives, broad point, flat handle (Osborne No. 78); 2 cap, flat handle (Osborne No. 80); 2 head, oval handle (Osborne No. 71).	
25 needles, curved, 1 1/2 inches over all (Berbecker XX), light; 25, 2 inches over all; 25, 2 1/2 inches over all.	
25 needles, glover's (Berbecker No. 4).	
25 needles, harness (Berbecker) No. 3/0; 25, No. 2/0; 25, No. 0; 25, No. 1; 25, No. 2; 25, No. 3; 25, No. 4; 25, No. 5; 25, No. 6.	

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Sailmakers' shop—Continued.

Manufacturers' name and address of trade names of articles listed, etc.—Continued.

- 25 needles, sail, 2½-inch, 16-gauge (Berbecker), extra fine; 25, 3-inch, 13-gauge.
 25 needles, upholster's, 12 inch, 14-gauge (Berbecker), extra light.
 2 palms, sailmaker's (Smith No. 10).
 1 pliers, flat-nose, 5 inch (Bernard No. 100).
 1 pricker, sailmaker's (Drew No. 1).
 1 punch, belt (Bernard No. 286).
 1 rule, folding, steel, 6-foot (Lufkin No. 1176).
 1 setter, eyelet (Bernard No. 240).
 1 shears, tailor's (Wiss No. 41-S).
 1 stone, horseshoer's knife (Pike).
 2 thimbles, harnessmaker's (Osborne).
 1 washer cutter (Hatgrave No. 411).
 1 tool, claw (Osborne No. 124).
 1 tool, edge, style 3 (Osborne No. 126).
 1 tape measuring steel, 50-foot, graduated feet, inches, and 16ths (Lufkin No. 208).

Vulcanizing shop.

A. Schrader's Son (Inc.) (Schrader), Brooklyn, N. Y.:

	Quantity.
Tools, sailmakers', set, etc.—Continued.	
Gauge, tire pressure.....	1
Mayo-Skinner Manufacturing Co. (Skinner), Chicago, Ill.:	
Pump, air, compound, lever.....	2

Wireworkers' shop.

Wm. Schollhorn Co. (Bernard), New Haven, Conn.:

Plier and belt punch, 5-inch, No. 120.....	3
Plier, cutting, 6 and 8-inch, No. 102, 2 each.....	4
Plier, flat-nose, No. 100, two 4½-inch, four 6-inch, one 8-inch.....	7
Plier, new model vise, 6½-inch, No. 113.....	2
Plier, round-nose, No. 101, two 4½-inch; four 6-inch; two 7-inch.....	8
Plier, universal, 6-inch, No. 128.....	3
Punch, belt, revolving, each with extra set of tubes and 6 extra jaw springs, No. 186.....	2
Setter, eyelet, No. 240.....	3

Woodworking shop.

E. C. Atkins & Co. (Atkins), Indianapolis, Ind.:

Saw set, No. 395, Criterion, 2 each.....	4
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Batavia Clamp Co. (Batavia), Batavia, N. Y.:

Screw, hand, wood, 5½-inch, No. 812; 8½-inch, No. 810; 10-inch, No. 808; 12½-inch, No. 804; adjustable steel spindle, 6-inch, No. 1; adjustable steel spindle, 8-inch, No. 2; adjustable steel spindle, 10-inch, No. 3; 12-inch, No. 4; 12 each.....	96
Screw, hand, wood, 17-inch, No. 800.....	6

Collins & Co. (Collins), 212 Water Street, New York, N. Y.:

Adz, carpenter's, flat head, 4½ by 5 inch, with 34-inch handle.....	1
Hatchet, half, 3-inch face, 14-pound, No. 0.....	1

Henry Diston & Son (Diston), Philadelphia, Pa.:

Clamp, hand-saw, No. 2.....	
Saw filing guide and clamp, complete, No. 3.....	4
Saw, hand, cross-cut, 10 teeth per inch, 24-inch blade, No. 112; hand, rip, 24-inch blade, 7 teeth per inch, No. 112, 1 each.....	2
Saw, swage for small circular saws, No. 2; swage for narrow hand saws, No. 3, 2 each.....	4

Duff Manufacturing Co. (Duff), Pittsburgh, Pa.:

Jacks, lowering, Barrett automatic, 5-ton capacity, No. 13.....	6
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Emmert Manufacturing Co. (Emmert), Waynesboro, Pa.:

Vise, patternmaker's, universal, 7 by 18½ inch jaw.....	6
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J. A. Fay & Egan Co. (Fay & Egan), Cincinnati, Ohio:

Stand, universal, propeller, No. 445.....	1
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Notes for basic table of allowances, Air Service—Continued.

NOTE 66—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-CITY FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Woodworking shop—Continued.

	Quantity.
C. E. Jennings & Co. (Jennings), 73 Murray Street, New York, N. Y.:	
Awls, scratch, carpenter's, No. 30.....	1
Bit, expansion, cutting from $\frac{1}{2}$ to 2 inches, with 2 extra cutters, center screw, cap screw, and caps, No. 2.....	3
Bit, expansion, cutting from $\frac{1}{2}$ to 3 inches, with 2 extra cutters, center screw, cap screw, and caps, No. 1.....	2
Countersink, rose, $\frac{1}{2}$ -inch, square shank, No. 682.....	6
Reamer, square, with square shank, No. 6.....	2
Pike Manufacturing Co. (Pike), Pike, N. H.:	
Stone, India, 4 by 1 inch, circular combination, in steel box, No. 68; 8 by 2 by 1 inch, combination, mounted in wood box, No. 6, 2 each.....	4
Stone, hard, Arkansas triangular file, six 4 by $\frac{1}{2}$ -inch; three 4 by $\frac{1}{4}$ -inch.....	9
Stone, India, 2 by 1 by $\frac{1}{2}$ inch, medium, No. 49.....	6
Stone, India, 5 by 1 by $\frac{1}{4}$ -inch, medium, No. 56.....	3
Stone, India, 4 by $\frac{1}{2}$ -inch, round, medium, No. 11.....	6
Stone, India, 4 by $\frac{1}{2}$ inch, triangular, medium, No. 7.....	12
Stanley Rule & Level Co. (Stanley), New Britain, Conn.:	
Bevel, iron handle, 6-inch blade No. 18.....	6
Bits, screw-driver, 2 each, size, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, and $\frac{3}{4}$ inch.....	10
Gauge, marking, double bar, No. 74.....	6
Level, machinist's, 4-inch, No. 34-V.....	2
Level, rosewood, 12 and 18 inch, brass bound, No. 98, 6 each.....	12
Line, chalk, 100-foot, No. 12.....	6
Mallet, lignum-vitae, round, $3\frac{1}{2}$ by $5\frac{1}{2}$ inch, No. 6; square, 3 by 4 inch, No. 12, 6 each.....	12
Miter box, metal, with saw, 28 by 5 inches, No. 358.....	1
Plane, block, iron, three 6-inch, No. 60 $\frac{1}{2}$; three 7-inch, No. 65; two 14-inch, No. 62.....	8
Plane, combination, metal, with 52 cutters, No. 55.....	1
Plane, jack, 14-inch, iron, corrugated, No. 605-C; jointer, 28-inch, iron, corrugated, No. 607-C, 2 each.....	4
Plane, smooth, iron, corrugated, three 8-inch, No. 608-C; two 10-inch, No. 604 $\frac{1}{2}$ -C.....	5
Rule, shrinkage, boxwood, brass tips, no fold, shrinkage $\frac{1}{2}$ inch to foot, No. 304-E.....	2
Rule, 2-foot, boxwood, 4-fold, full bound, No. 62.....	24
Spokeshave, boxwood, 11 inches long, 2-inch blade, No. 84.....	12
Square, try, iron handle, No. 12, four 6-inch; two 8-inch.....	6
Square, 2-foot, blued, No. 100-B.....	6
North Bros. Manufacturing Co. (Yankoe), Philadelphia, Pa.:	
Drill, hand, 3 No. 1539, 2 No. 1545.....	5
Screw driver, ratchet, No. 12.....	4
Screw driver, ratchet, No. 15; 3-inch, No. 11; 4-inch, No. 15; 6-inch No. 11, 2 each.....	8
Screw driver, ratchet, 12-inch, No. 11.....	1
Screw driver, spiral ratchet, with 1 each of the following attachments: Countersink, screw holder, and screw-eye holder, No. 135.....	2
Wrench, tap, ratchet, Nos. 260 and 261, 2 each.....	4
Wrench, tap, ratchet, No. 1261.....	1
American Wood Working Machinery Co. (American), Rochester, N. Y.:	
Band saw, No. 10, 36-inch, with incasing doors for lower wheel and wire-mesh guard for upper wheel, with regular equipment, and 6 extra saws; machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless machine substituted conforms with the specifications of the American Wood Working Machinery Co., Rochester, N. Y.....	1
Grindstone, No. Fig. 11489, 38 by 5 inches, with automatic truing and tool-holding device, and brass drain cock fitted for draining trough. Machine to be direct-motor drive, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms with the specifications of the American Wood Working Machinery Co., Rochester, N. Y.....	1
Saw bench, Universal, No. 30, with regular equipment and the following extra equipment: 1 rip saw 18-inch; 1 crosscut saw, 18-inch; 1 set dado heads from $\frac{1}{2}$ to $2\frac{1}{2}$ inches, 1 endless belt, saw guard, belt shield, segment guard, and extended rip guard. Machine to be self-contained motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless machine substituted conforms with the specifications of the American Wood Working Machinery Co., Rochester, N. Y.....	1

*Notes for basic table of allowances, Air Service—Continued.***NOTE 68—Continued.****SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.****MACHINE SHOP AND MOTOR OVERHAUL—continued.****Woodworking shop—Continued.**

American Wood Working Machinery Co. (American), Rochester, N. Y.—Continued.	Quantity.
Shaper, high-speed double spindle, No. 20, 36 by 54 inches, with top spindle bearing, shaper guards, and regular equipment and 2 extra sets of bits. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless machine substituted conforms to specifications of the American Wood Working Machinery Co., Rochester, N. Y.	1
J. A. Fay & Egan Co. (Fay & Egan), Cincinnati, Ohio:	
Scroll saw, self-contained, No. 6, with regular equipment and 4 dozen assorted blades extra. Machine to be motor-drive type, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to the specifications of J. A. Fay & Egan Co., Cincinnati, Ohio.	1
Greenlee Bros. & Co. (Greenlee), Rockford, Ill.:	
Mortiser, power feed vertical hollow chisel, No. 238-C, with vertical bearing attachment and guards for drive belts, complete with regular equipment and 2 sets hollow chisels with bits (7 to set), from $\frac{1}{4}$ to $1\frac{1}{2}$ inches. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to the specifications of Greenlee Bros. & Co., Rockford, Ill.	1
Hall & Brown Wood Working Machine Co. (H. & B.), St. Louis, Mo.:	
Swing cut-off saw, 7-foot, No. 135, with regular equipment and 2 extra saws; machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made.	1
W. S. Hawker Manufacturing Co. (Hawker), Dayton, Ohio:	
Dowel and rod machine, adjustable, No. 2, with ball-bearing cutter heads having range from $\frac{1}{4}$ to 2 inches diameter; complete with feed rolls and sleeves, necessary wrenches and templates for grinding cutters, and 4 extra cutters. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made.	1
Oliver Machinery Co. (Oliver), Grand Rapids, Mich.:	
Band saw filer and setter, No. 453-B, with regular equipment and 12 band-saw filers extra. Machine to be motor-drive type, 60-cycle, 3-phase; motor to be furnished and fitted by manufacturer.	1
Borer, universal vertical and horizontal, No. 74-B, with regular equipment. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to specifications of Oliver Machinery Co., Grand Rapids, Mich.	1
Lathe, 20-inch swing, 10-foot bed, motor head pattern, No. 23, motor to be 60-cycle, 3-phase; lathe to be complete with regular equipment and the following extra equipment: 1 adjustable back rest, No. 206; 1 improved tool holder, No. 134; 1 wood turner's sizing tool, No. 266; 1 set turning tools, No. 44; 2 each of gauges, turning, size $\frac{1}{2}$, $\frac{3}{4}$, and $1\frac{1}{2}$ inches; 2 each chisels, skew size $\frac{1}{4}$, $\frac{1}{2}$, $1\frac{1}{2}$, and 2 inches; 1 each chisel, round-nose, size $\frac{1}{4}$ and $\frac{1}{2}$ inch; 2 parting tools, $\frac{1}{2}$ -inch; all tools to be handled. No substitution to be made unless equipment substituted conforms to specifications of Oliver Machinery Co., Grand Rapids, Mich.	1
Sander, vertical spindle and disk, No. 34, 24 inches, with regular equipment and following extra equipment: 1 roll each garnet sandpaper Nos. 0000, 000, 00, 0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, and 4, and 2 gallons Sando-Cement. Machine to be motor-drive type, 60-cycle, 3-phase; motor, and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to specifications of Oliver Machinery Co., Grand Rapids, Mich.	1
The Van Dorn Electric Tool Co. (Van Dorn), Cleveland, Ohio:	
Drill, electric, universal, for use on either direct or alternating current, type D. A. 000. No substitution to be made.	10
Drill, electric, universal, with chuck for straight-shank drills, for use on either direct or alternating current, type D. A. 1.	2
James Clark, jr., Electric Co., Louisville, Ky.:	
Jointer, Yates No. 199, 16-inch, with round cylinder and table guard, all regular equipment and 2 extra set of knives. Machine to be motor-drive type, 60-cycle, 3-phase; motor and belting if necessary, to be furnished and fitted by manufacturer. No substitution to be made unless machine substituted conforms to specifications of P. B. Yates Machine Co., Beloit, Wis.	1
Surfacer, cabinet single, Yates No. 156, 30-inch, with round cylinder, grinder, jointer, and auxiliary devices, sectional roll and chipbreaker, with all regular equipment and 2 extra set knives. Machine to be motor-drive type, 60-cycle, 3-phase, motor and belting to be furnished and fitted by manufacturer. No substitution to be made unless the machine substituted conforms to specifications of P. B. Yates Machine Co., Beloit, Wis.	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 68—Continued.

SCHOOL EQUIPMENT, SUPPLY AND MAINTENANCE, SINGLE-UNIT FIELD—Continued.

MACHINE SHOP AND MOTOR OVERHAUL—continued.

Foundry.

	Quantity.
Osborn Mfg. Co. (Osborn Co.), Cleveland, Ohio:	
Bellows, molders, 10-inch, calfskin.....	1
Brush, bench, No. 665.....	24
Brush, casting, 4 by 10 row, 4-inch wire, No. 3; molders', bench, No. 398; molders', soft-hair, 8 $\frac{1}{2}$ by 2 $\frac{1}{2}$ inches, No. 208-S; 1 each.....	3
Brush, platers wire scratch, No. 0252.....	6
Brush, wire scratch, No. 1779.....	3
Crucibles, Dixon, No. 35.....	1
Flask fittings, set, adjustable, round pin and holder, set.....	6
Furnace, combination, No. 55-A, equipped for oil burning and with one extra set bricks.....	1
Ladles, bowls, round bottom, 8 $\frac{1}{2}$ inches diameter, No. 7.....	2
Mallet, molders, with handle, No. 535.....	2
Rammer, bench, 3 $\frac{1}{2}$ -inch butt, No. 199.....	2
Rammer, floor, hickory handle and extra handle, No. 206.....	1
Riddle, plain steel, 18 inches diameter, 4-inch and 18-inch mesh, one each.....	2
Shovel, molders', 1-piece steel.....	1
Shanks, ladle, single end to fit 8 $\frac{1}{2}$ -inch bowl, No. 7.....	2
Sprues, bell top, 1 each, 2 $\frac{1}{2}$, 3, and 4 inches.....	2

Propeller Shop, Aero Repair, and Woodworkers Shop.

Equipment necessary for repair and inspection and aeronautical propellers, and can be purchased from the American (Paragon) Propeller Co., Baltimore, Md.:

- 1 countersink, single lip, special.
- 1 dolly bar, special.
- 1 flat iron, small, special.
- 1 mandrel, balancing, complete with one set of hardened and ground cones for balancing propellers without engine hubs and one set cones for balancing propellers with engine hubs, for Hispano-Suiza types A, F, I, and H, Le Rhone and Liberty engines.
- 1 punch, countersink special.
- 1 pitch, reader, with 200 cars.
- 1 rivet set, small, special.
- 2 scrapers, hand, special.
- 2 scrapers, solder, special.
- 2 spokeshaves, special.
- 1 stand, balancing, complete.
- 1 trammel bar, special.
- 1 work stand, complete with belts, pins, nuts, handwheels, tracking attachment, and wrench.

NOTE 69.

SCHOOL EQUIPMENT. MECHANICS ENLISTED TRAINING SETS. ARMORERS.

(120 students, 10 weeks course. 312 graduates per 6 months. 10 weeks course, at 120 per course.)

	Quantity.
Airplane flare release, Mk. 1.....	12
Armorer's chest.....	12
Ammunition, caliber .30, ball.....	80
Ammunition, caliber .30, tracer.....	80
Ammunition, caliber .30, incendiary.....	80
Ammunition, caliber .30, dummy.....	600
Ammunition, caliber .11 mm., incendiary.....	600
Ammunition, caliber .37 mm., dummy.....	100
Ammunition, caliber .45, ball.....	2,000
Ammunition, caliber .45, dummy.....	600
Ammunition, shotgun, 129.....	3,000
Ammunition, assorted Very signal.....	1,200
Airplane flares, Mk. 1.....	30
Ammonia carbonate.....	100
Ammonia, 28 per cent.....	100
Browning aircraft gun, caliber .30 (based on 15 guns for stripping, 1 for each 10 men for fire, 3 extra reserve spares).....	30
Browning aircraft gun, heavy type, caliber .30.....	15
Barrel reflectors.....	15
Belt loading machine.....	12

Notes for basic table of allowances, Air Service—Continued.

NOTE 69—Continued.

SCHOOL EQUIPMENT. MECHANICS ENLISTED TRAINING SETS. ARMORERS—Continued.

	Quantity.
Bomb-release mechanism, Mk. V, modified.....	12
Bomb-release mechanism, Mk. XVIII.....	12
Bomb-release mechanism, Mk. XVI.....	6
Bomb-release mechanism, Mk. X.....	16
Bombs, Mk. I, demolition.....	12
Bombs, Mk. III, demolition.....	12
Bombs, Mk. dummy.....	12
Bombs, Mk. 11 A, fragmentation.....	12
Bombs, Mk. 11 B, fragmentation.....	12
Bomb sights, Mk. 1.....	12
Bomb sights, Michelin.....	3
Bomb, release gear, fire-control gear, and bombs, 1 set to each group of 10 students.....	sets.. 12
Bicarbonate of soda.....	pounds.. 100
CC fire-control gear.....	30
Camera guns.....	5
Clay pigeons.....	3,000
Cut patches.....	12,000
Fuselages (unserviceable).....	5
Film rolls.....	100
Field telephones and equipment.....	4
Guns, shot, Winchester 129.....	30
Hispano motors (unfit for aerial use).....	6
Happes solution No. 9.....	ounces.. 12
Lewis ground gun, caliber .30 (based on 15 guns for stripping, 1 for each 10 men for fire, 3 extra reserve spares).....	30
Lewis aircraft gun, caliber .30 (based on 15 guns for stripping, 1 for each 10 men for fire, 3 extra reserve spares).....	30
Link loading machine.....	15
Liberty motors (unfit for aerial use).....	6
Leggitt traps.....	12
Marlin aircraft gun, caliber .30 (based on 15 guns for stripping, 1 for each 10 men for fire, 3 extra reserve spares).....	30
Mounts, Lewis double gun yoke.....	10
Mounts, Lewis single gun yoke.....	10
Mounts, Scarff model A.....	45
Machine-gun oil.....	gallons.. 30
Metallic links, Marlin, .30 caliber.....	5,000
Metallic links, Vickers, .30 caliber.....	5,000
Metallic links, Vickers, 11 mm.....	2,000
Model airplane.....	25
Nelson fire-control gear.....	30
Pistols, automatic, caliber .45.....	each 75
Planes, 1 each standard type.....	each 1
Persulphate of ammonia.....	pounds.. 15
Rifles, United States Springfield, model 1903, caliber .30.....	30
Rocking nacelles, equipped with fixed gun mounts.....	6
Rubber balloons.....	500
Sights, 5-inch, ring and bead.....	45
Sights, 2½-inch, ring and wind vane.....	45
Sights, Aldis unit.....	15
Tripods, Lewis.....	12
Tripods, Marlin.....	12
Tripods, antiaircraft.....	3
Target paper.....	rolls.. 6
Vickers aircraft gun, caliber .30 (same as above basis).....	30
Vickers aircraft gun, caliber .11 mm.....	10
Very pistols.....	2½
Vises.....	25
Wing tip flare folders, Mk. 1.....	12
Wing tip flares, Mk. 1.....	30
Wall charts of all machine guns, sights.....	10
37-mm. cannon adapted for aircraft use.....	5

NOTE.—Each machine gun to be equipped with prescribed kit of spares. Fixed guns to be equipped with necessary mounts, both for attachment to airplanes and for use in tripods on ground instruction.

Notes for basic table of allowances, Air Service—Continued.

NOTE 70.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC.

[For 566 chauffeurs under instruction, six months' course.]

Name.	Description.	Unit.	Number.
Ammeters	Cadillac	Each	12
Bath	Hot oil (for pistons)	do	17
Bearing scrapers		Sets	180
Boots	Rubber (sizes, No. 6 to No. 10)	Pairs	26
Brooms		Each	24
Do	Corn	do	24
Brushes	Shellac	do	180
Callipers	Spring, 6-inch, outside	do	308
Do	Spring, 8-inch, outside	do	72
Do	Spring, 6-inch, inside	do	308
Do	Spring, 8-inch, inside	do	72
Cans	Quart	do	24
Do	5-gallon	do	12
Carbureters	Cadillac	do	15
Do	Marvel	do	15
Do	Stromberg, plain tube	do	15
Do	Cross sections, Cadillac	do	2
Do	Cross sections, Marvel	do	2
Do	Cross sections, Stromberg, plain tube	do	2
Chamois skin		Pieces	48
Chassis	Cadillac	Each	3
Do	Heavy truck	do	3
Do	Light truck	do	3
Chisels	Cold, 1/2-inch	do	308
Circuit breakers	Cadillac	do	12
Circuit wiring board		do	1
Clutches	Heavy type	do	5
Compressor	Air	do	1
Controls	Heavy type	do	5
Cross section of Cadillac storage battery		do	1
Cross section of Eisemann magnet armatures		do	2
Crowbars		do	12
Display	"Beards of Parts"	do	4
Display board	For magneto parts	do	1
Do	Cadillac carbureter parts	do	1
Do	Marvel carbureter, complete parts	do	1
Do	Stromberg carbureter parts, complete	do	1
Distributors	Cadillac ignition timer (complete, with drive shaft, less metal cover for high-tension wires), 6-inch	do	12
Dividers		do	20
Double wiring and test stand for Cadillac electric system		do	3
Drills	Breast	do	150
Engines	Cadillac	do	4
Do	do	do	4
Do	Dodge	do	4
Do	do	do	9
Do	Ford	do	12
Do	Heavy aviation truck	do	7
Do	do	do	4
Do	Light aviation truck	do	7
Do	do	do	4
Engine assembly stands	Cadillac	do	6
Do	Dodge	do	6
Do	Heavy truck	do	6
Do	Light truck	do	6
Engine test stands		Each type	4
Extractor	Cotter	Each	478
Files	Bastard, flat, 10-inch	Dozen	2
Do	Bastard, flat, 12-inch	do	3
Do	Bastard, hand, 10-inch	do	3
Do	Bastard, round, 8-inch	do	3
Do	Bastard, round, 10-inch	do	3
Do	Bastard, half round, 10-inch	do	3
Do	Bastard, square, 8-inch	do	3
Do	Bastard, square, 10-inch	do	3
Do	Extra slim taper	do	6
Do	Hand, smooth, 10-inch	do	3
Do	Mill, 8-inch	do	3
Do	Mill, 10-inch	do	3
Do	Mill, smooth, 10-inch	do	3
Do	Pistinum	do	3
Do	Slim, taper, 6-inch	do	3
Do	Smooth, round, 8-inch	do	3

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Front axle and hub.....	Assembly, heavy type.....	Each.....	5
Do.....	Assembly, light type.....	do.....	5
Funnels.....	Large.....	do.....	24
Gauges.....	Feeler.....	do.....	550
Grease guns.....	.....	do.....	12
Guns.....	Cleaning.....	do.....	24
Hammers.....	Ball peen, 24-ounce.....	do.....	36
Do.....	Ball peen, 12-ounce.....	do.....	600
Do.....	Soft.....	do.....	125
Hatchets.....	.....	do.....	36
Hoist.....	Portable.....	do.....	6
Hose.....	Air, 1/2 inch inside diameter.....	Feet.....	400
Do.....	Rubber, 1-inch.....	do.....	600
Hose clamps.....	1-inch.....	Each.....	150
Do.....	1/2-inch.....	do.....	150
Hose connections.....	1-inch.....	do.....	60
Do.....	1/2-inch.....	do.....	60
Hose nozzles.....	1-inch.....	do.....	20
Ignition coils.....	Cadillac.....	do.....	12
Instruments.....	Testing, Weston Garage, model 280.....	do.....	2
Jacks.....	Chain.....	do.....	36
Lining.....	Break.....	do.....	150
Do.....	Clutch.....	do.....	150
Magnetos.....	Eisemann C4, second edition, fixed spark.....	do.....	18
Do.....	Eisemann C4, second edition, variable spark.....	do.....	18
Magneto recharging outfit.....	.....	do.....	2
Micrometers.....	Inside (2 to 6 inch).....	do.....	22
Micrometers.....	Outside (0 to 6 inches).....	do.....	26
Motor generators.....	Cadillac.....	do.....	10
Oilers.....	.....	do.....	150
Oilstones.....	.....	do.....	12
Pinch bar.....	30-inch.....	do.....	12
Piston ring remover.....	.....	do.....	28
Pliers.....	Combination, 6-inch.....	do.....	600
Do.....	Combination, 8-inch.....	do.....	72
Polish.....	Automobile.....	Cans.....	60
Propeller shaft and universal joint assembly.....	Cadillac.....	Each.....	5
Propeller shaft and universal joints.....	Heavy type.....	do.....	5
Do.....	Light type.....	do.....	5
Pumps.....	Cadillac gasoline feed-system pressure pumps, complete.....	do.....	4
Pump.....	Tire compound.....	do.....	12
Punches.....	Center.....	do.....	500
Do.....	Drift.....	do.....	500
Pyrene fire extinguisher.....	.....	do.....	24
Rear axles assembly.....	Cadillac.....	do.....	5
Do.....	Heavy type.....	do.....	5
Do.....	Light type.....	do.....	5
Repair kits.....	Auto.....	do.....	50
Reseating tool.....	.....	do.....	18
Rods.....	Brass, 1 by 3/8-inch.....	do.....	21
Rope.....	Hemp, 1/2-inch.....	Foot.....	500
Do.....	Hemp, 1-inch.....	do.....	300
Scales.....	Machinists, 6-inch.....	Each.....	400
Scrapers.....	Carbon.....	Sets.....	72
Screw drivers.....	6-inch.....	Each.....	516
Do.....	10-inch.....	do.....	72
Do.....	14-inch.....	do.....	60
Do.....	Magneto, long shank (7-inch).....	do.....	396
Shovel.....	Round point, 3 1/2-inch.....	do.....	24
Stands.....	Motor.....	do.....	20
Stethoscopes.....	For locating engine knocks.....	do.....	2
Steering gears.....	Cadillac.....	do.....	5
Do.....	Heavy truck.....	do.....	5
Do.....	Light truck.....	do.....	5
Storage batteries.....	Cadillac.....	do.....	14
Switches.....	do.....	do.....	12
Swivels.....	Overhead.....	do.....	6
Tank.....	Compressed air.....	do.....	1
Do.....	Gas, portable, Bowser.....	do.....	2
Do.....	Oil, portable, Bowser.....	do.....	2
Do.....	Wash.....	do.....	15
Taps.....	Spark plug, 3/8 by 18 inch, U. S. form thread.....	do.....	16
Do.....	English.....	do.....	16
Do.....	Spark plug, 18 by 1.5 mm., metric.....	do.....	16

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Test stand.....	For magnetos and Cadillac generator and ignition distributor.	Each.....	1
Tire gauge.....	Automobile.....	do.....	24
Tool sets.....	Cadillac.....	do.....	6
Touring car, Cadillac	.....	do.....	12
Brake band.....	Lining with 28 rivets for external brake band, 2½ by 54 inches long, KK-3272.	.....	5
Do.....	Rivet to attach lining to external brake band, 152 to a pound, KK-3273.	Pounds....	6
Do.....	Spring for pin for anchor bracket for external band, KK-3247.	Each.....	12
Do.....	Lining with 22 rivets for internal brake band, 2½ by 51 inches, KK-3321.	.....do.....	5
Do.....	Rivet for internal brake-band lining, 152 to a pound, KK-3322.	Pounds....	2
Cam shaft and valve mechanism.	Cam shaft, KK-127.....	Each.....	6
Do.....	Bearing, cam shaft, front, KK-128.....	do.....	6
Do.....	Bearing for cam shaft, center, KK-129.....	do.....	6
Do.....	Bearing, cam shaft, second and fourth, KK-130.....	do.....	2
Do.....	Bearing for cam shaft, rear, KK-131.....	do.....	12
Do.....	Cover for valve rocker arms, KK-133.....	do.....	12
Do.....	Gasket under valve rocker cover, KK-134.....	do.....	6
Do.....	Nut on stud for valve rocker arm, KK-140.....	do.....	6
Do.....	Valve rocker arm, complete, right, KK-142.....	do.....	6
Do.....	Valve rocker arm, complete, left, KK-143.....	do.....	1
Do.....	Shaft for valve rocker arm, KK-150.....	do.....	24
Carburetor.....	Carburetor, complete, left steering, KK-492.....	do.....	12
Do.....	Gasket for carburetor at intake manifold, KK-496.....	do.....	12
Do.....	Leather for auxiliary air valve seat, KK-498.....	do.....	12
Do.....	Cork gasket for bowl, KK-527.....	do.....	6
Do.....	Lever for carburetor float, KK-535.....	do.....	12
Do.....	Spring for lever arm, KK-559.....	do.....	12
Clamp.....	Clamp for hose connections, KK-1612.....	do.....	48
Clutch.....	Raybestos facing for drive disk (18 used), KK-1388.....	do.....	72
Do.....	Rivets to attach facings to drive disk, KK-1389.....	do.....	1
Do.....	Spring for clutch, KK-1397.....	do.....	4
Connecting rods and piston.	Outside connecting rod with wrist-pin bushing and crank end bearing, less piston, K-220.....	do.....	4
Do.....	Inside connecting rod with wrist-pin bushing, less bearing and piston, KK-222.....	do.....	12
Do.....	Bolt for outside connecting rod cap, KK-223.....	do.....	24
Do.....	Nut for outside connecting rod bolt, KK-224.....	do.....	12
Do.....	Bolt for inside connecting rod cap, KK-226.....	do.....	24
Do.....	Nut for inside connecting rod bolt, KK-227.....	do.....	12
Do.....	Bearing for connecting rod, KK-229 (halves not sold separately).	do.....	24
Do.....	Shim for connecting rod bearing, KK-230.....	do.....	12
Do.....	Piston, with rings, KK-232.....	do.....	48
Do.....	Piston ring, upper and lower, KK-233.....	do.....	16
Do.....	Piston ring, center, KK-234.....	do.....	12
Do.....	Wrist pin, KK-235.....	do.....	12
Do.....	Wrist pin, bushing, KK-236.....	do.....	2
Do.....	With studs, bearings, bearing caps, plates, bolts, and nuts, KK-1.....	do.....	12
Do.....	Stud, short, 2 used on forward corners of crank case attaching oil pan, KK-9.....	do.....	24
Do.....	Stud attaching oil pan to crank case, KK-10.....	do.....	6
Do.....	Plug in crank case at cam-shaft end, KK-11.....	do.....	24
Do.....	Gasket for plug, KK-12.....	do.....	12
Do.....	Cap for front main bearing (with oversize dowel bolts), KK-16.....	do.....	12
Do.....	Cap for center main bearing (with oversize dowel bolts), KK-17.....	do.....	12
Do.....	Cap for rear main bearing (with oversize dowel bolts), KK-18.....	do.....	50
Do.....	Dowel, oversize, rear main bearing cap, KK-20.....	do.....	50
Do.....	Dowel, oversize, front and center main bearing cap, KK-19.....	do.....	12
Do.....	Plate for front and center main bearing, KK-21.....	do.....	12
Do.....	Bolt for front and center bearing cap, KK-23.....	do.....	12
Do.....	Bolt for rear main bearing cap, KK-24.....	do.....	12
Do.....	Nut for main bearing bolt, KK-25.....	do.....	6
Do.....	Bushing in crank case for oil-pump shaft, front, KK-28.....	do.....	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car, Cadillac—Contd.			
Crank case	Bushing in crank case for oil-pump shaft, rear, KK-29.	Each	6
Do	Bolt to fasten engine to frame, KK-32.	do	12
Do	Cotter pin, KK-34.	do	12
Do	Bushing in front cover for oil-pump gear, KK-38.	do	10
Do	Gasket for front end cover, KK-39.	do	12
Do	Screw (1½ inches long), front cover to crank case, KK-40.	do	12
Do	Screw (1½ inches long), front cover to crank case, KK-41.	do	12
Do	Screw (3 inches long), front cover to crank case, KK-42.	do	12
Do	Screw, front cover to fan housing, KK-43.	do	12
Do	Ball for front engine support, KK-53.	do	3
Do	Bushing for engine support tube, front, KK-51.	do	1
Do	Spring for starting crank shaft, KK-55.	do	6
Do	Gasket for rear end cover, KK-58.	do	12
Crank shaft, main bearings and flywheel.	Crank shaft with studs and plugs, KK-76.	do	3
Do	Nut for stud, KK-78.	do	12
Do	Spiral gear on crank shaft for pump drive, KK-82.	do	3
Do	Woodruff key for spiral gear, KK-83.	do	6
Do	Sprocket on crank shaft for cam drive, KK-84.	do	12
Do	Main bearing, front, upper half, KK-92.	do	12
Do	Main bearing, front, lower half, KK-93.	do	12
Do	Main bearing, center, upper half, KK-94.	do	12
Do	Main bearing, center, lower half, KK-95.	do	12
Do	Main bearing, rear, upper half, KK-96.	do	12
Do	Main bearing, rear, lower half, KK-97.	do	12
Do	Liner for main bearing, front and center, KK-98.	do	12
Do	Liner for main bearing, rear, KK-99.	do	12
Do	Flywheel with studs, KK-107.	do	1
Do	Silent chain for cam-shaft drive (closed), KK-117.	do	6
Do	Silent chain for fan drive (open), KK-118.	do	6
Do	Sprocket for cam-shaft and fan drive, KK-119.	do	6
Do	Sprocket on crank-shaft for cam drive, KK-121.	do	6
Do	Sprocket on fan shaft for fan drive, KK-123.	do	6
Do	Rocker pins for silent chain, KK-125.	do	72
Do	Seat pins for silent chain, KK-124.	do	72
Cylinder blocks, valve and manifold.	Cylinder block, with end covers, studs, bushings, and plugs, less head, KK-164.	do	2
Do	Gasket between cylinder and crank case, KK-167.	do	6
Do	Cylinder head, right, KK-172.	do	1
Do	Cylinder head, left, KK-173.	do	1
Do	Gasket for cylinder head, KK-174.	do	12
Do	Priming cock, in cylinder head, KK-188.	do	6
Do	Inlet valve, marked "IN," KK-190.	do	12
Do	Exhaust valve, marked "EX," KK-191.	do	12
Do	Spring for inlet or exhaust valve, KK-192.	do	12
Do	Cap with gauze for breather, KK-200.	do	6
Do	Gasket for intake manifold at cylinder, KK-202.	do	24
Do	Screw, intake manifold to cylinder, KK-203.	do	12
Do	Exhaust manifold, right, KK-205.	do	3
Do	Exhaust manifold, left, KK-206.	do	3
Do	Gasket for exhaust manifold, front and rear, KK-207.	do	12
Do	Gasket for exhaust manifold, center, KK-208.	do	12
Do	Screw for exhaust manifold to cylinder, KK-209.	do	12
Do	Cover for valve adjustment (front right, rear left), KK-210.	do	3
Do	Cover for valve adjustment (front left, rear right), KK-211.	do	3
Fans and housing.	Gasket for spark plug, KK-218.	do	72
Do	Fan blades with rim and disk, KK-250.	do	3
Do	Spring for fan drive, KK-255.	do	3
Do	Cap, oil filler, on fan housing, KK-258.	do	6
Do	Washer for oil filler cap, KK-259.	do	12
Do	Gasket between fan housing and distributor, KK-260.	do	12
Do	Fiber thrust washer on front end of fan shaft, KK-275.	do	6
Do	Felt washer for front retainer, KK-282.	do	6
Do	Sprocket for fan drive, KK-285.	do	12
Do	Felt washer between retainers on rear of fan shaft, KK-291.	do	12

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car, Cadillac—Con.			
Fenders	Front fender, right (all cars), KK-2435	Each	1
Do.	Front fender, left (all cars), KK-2436	do.	1
Do.	Rear fender, right (7-P), (S), (M), (A), KK-2437	do.	1
Do.	Rear fender, left (7-P), (S), (M), (A), KK-2438	do.	1
Do.	Splash shield between front fenders for radiator, KK-2620	do.	1
Fenders	Dust hood complete for top (7-P), KK-2600	do.	1
Filler cap	Complete for gasoline tank, KK-1617	do.	2
Front springs	Right or left, KK-1906	do.	3
Do.	Eye leaf (No. 1) with bushings, KK-1909	do.	2
Head lamps	Complete with bulb (black and nickel), KK-936	do.	6
Do.	Door complete for head lamp, special all nickel, KK-930	do.	6
Do.	Glass for head lamp, KK-940	do.	24
Do.	Glass packing ring for head lamp, KK-943	do.	24
Do.	Cotton packing for glass, KK-946	do.	24
Do.	Head lamp bulb, 7-volt, 18-candlepower, KK-951	do.	48
Do.	Rubber connector insert for head-lamp connector, KK-952	do.	6
Do.	Rubber receptacle insert with wire for head lamp, KK-953	do.	6
Do.	Screw to attach head lamp fork to fender iron, KK-956	do.	3
Do.	Acorn nut for head lamp forks, KK-958	do.	6
Lamps	Bulb for speedometer lamp, KK-1076	do.	12
Do.	Bulb for clock lamp, KK-1077	do.	12
Do.	Tail lamp complete with license tag holder, all cars with wood wheels except (R), (V), (2-P) KK-1107	do.	3
Do.	Bulb for tail lamp, 4-volt, 2-candlepower, KK-1113	do.	24
Do.	Red glass for tail lamp, KK-1114	do.	12
Do.	Ammeter complete (CC), KK-1173	do.	2
Muffler	Complete, right or left, KK-2166	do.	1
Oil piping	Gasket for suction pipe flange, KK-412	do.	24
Do.	Clip, upper, for oil suction pipe, KK-414	do.	12
Do.	Clip, lower, for oil suction pipe, KK-415	do.	12
Do.	Clip, upper, for oil header pipe, KK-421	do.	12
Do.	Clip, lower, for oil header pipe, KK-422	do.	12
Do.	Lead washer for pipe clips, KK-425	do.	12
Do.	Gasket under pipe flange, KK-435	do.	12
Oil pump and drive shaft	Bushing for oil-pump gear, KK-389	do.	12
Do.	Drive gear for oil pump, KK-390	do.	12
Do.	Driven gear for oil pump, KK-391	do.	12
Do.	Spiral gear for oil pump drive (20-teeth), KK-395	do.	12
Do.	Gasket between oil pump and front end cover, KK-397	do.	24
Do.	Gasket between elbow and crank case, KK-401	do.	24
Oil relief valve	Gasket for outlet branch of relief housing, KK-457	do.	12
Do.	Gasket for inlet branch of relief housing, KK-458	do.	12
Do.	Gasket for cap, KK-466	do.	12
Radiator	Complete, KK-1563	do.	1
Do.	Outside casing with clips and emblem, KK-1564	do.	1
Do.	Filler cap for radiator, KK-1569	do.	6
Do.	Gasket for filler cap, KK-1570	do.	12
Rear axle housing	Felt oil retainer in rear axle housing sleeve, large (2 used), KK-3153	do.	12
Do.	Felt oil retainer in rear axle housing sleeve, small (2 used), KK-3154	do.	12
Do.	Driving pinion for rear axle (ratio, $4\frac{1}{4}$ to 1), 16 teeth, KK-3206	do.	6
Do.	Paper gasket for cover, KK-3248	do.	12
Do.	Gasket for rear cover on housing, KK-3250	do.	12
Do.	Filler plug for rear cover of differential, KK-3255	do.	6
Rear springs	Rear side spring, right (7-P), (B), (L), (I), (LD), (TL), (TLD), KK-1952	do.	3
Do.	Eye leaf (No. 1) with bushings, KK-1953	do.	1
Do.	Rear side spring, left (7-P), (B), (L), (I), (LD), (TL), (TLD), KK-1965	do.	3
Do.	Eye leaf (No. 1) with bushing, KK-1966	do.	1
Rear cross spring	Rear cross spring (S), (M), KK-2042	do.	2
Do.	Eye leaf (No. 1) with bushings, KK-2043	do.	1
Screw	Screw to attach upper end of support, KK-1610	do.	6
Side lamps	Side lamp with bulb, right, black and nickel, (7-P), (R), (S), (M), (A), KK-1025	do.	3

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car, Cadillac—Con.			
Side lamps.....	Side lamp with bulb, left, black and nickel, (7-P), (P), (R), (S), (M), (A), KK-1030.	Each.....	3
Do.....	Glass for side lamp door all except (4-P), (2-P), KK-1030.	.....do.....	3
Do.....	Bulb for side lamp, 8-volt, 6-candlepower, KK-1042.	.....do.....	24
Transmission shafts, gears, bearings, and retainers.			
Do.....	Shipper gear on drive shaft for high and intermediate speeds, 22 teeth, 16 grooves, KK-1248.	.....do.....	2
Do.....	Shipper gear on drive shaft for low and reverse speeds (29 teeth), KK-1249.	.....do.....	2
Do.....	Jackshaft gears assembled (high and intermediate, low and reverse gear with oil scoop and spacer), KK-1250.	.....do.....	2
Do.....	Gasket for jackshaft end cover, KK-1209.	.....do.....	12
Do.....	Clutch connection for transmission, KK-1218.	.....do.....	4
Do.....	Transmission drive shaft with collar, KK-1230.	.....do.....	2
Transmission case	Transmission case only with studs and bushings, left steering, KK-1198.	.....do.....	1
Do.....	Bushing in transmission case for clutch release shaft (2 used), KK-1203.	.....do.....	4
Do.....	Gasket for bottom cover, KK-1208.	.....do.....	12
Do.....	Screw for handhole cover, KK-1214.	.....do.....	48
Transmission control	Gasket for top cover, KK-1277.	.....do.....	24
Do.....	Screw to attach top cover, KK-1278.	.....do.....	48
Do.....	Felt washer on control lever seat, KK-1282.	.....do.....	12
Do.....	Handball for control lever, KK-1290.	.....do.....	6
Do.....	Shifter fork only for all speeds, KK-1294.	.....do.....	1
Water connections	Elbow for water inlet to cylinder, KK-371.	.....do.....	12
Do.....	Hose connection from radiator to pump, KK-375.	.....do.....	24
Do.....	Hose connection from water pump to cylinder, KK-376.	.....do.....	24
Do.....	Hose connection from cylinder to radiator, KK-377.	.....do.....	24
Do.....	Hose connection from cylinder to thermostat, KK-378.	.....do.....	24
Do.....	Clamp for hose, small (4 used), KK-379.	.....do.....	48
Do.....	Clamp for hose, large, KK-380.	.....do.....	48
Water pumps	Bushing for water-pump body, right, KK-311.	.....do.....	12
Do.....	Bushing for water-pump body, left, KK-312.	.....do.....	12
Do.....	Bushing in pump cover, KK-315.	.....do.....	12
Do.....	Spiral gear on water-pump shaft, KK-321.	.....do.....	12
Do.....	Bearing for water-pump shaft, right, with left-hand thread, KK-323.	.....do.....	12
Do.....	Bearing for water-pump shaft, left, with right-hand thread, KK-324.	.....do.....	12
Do.....	Packing for water-pump drive shaft bearing (2 pieces), KK-329.	.....do.....	12
Do.....	Pump impeller, right, KK-333.	.....do.....	6
Do.....	Pump impeller, left, KK-334.	.....do.....	6
Do.....	Packing for female pump shaft, KK-345.	.....do.....	12
Do.....	Expanding member of thermostat with drain pin, KK-360.	.....do.....	3
Do.....	Packing for thermostat cam, KK-367.	.....do.....	12
Wheels	Front wheel, right or left, wood parts and felloe bands, state engine number, KK-3382.	.....do.....	2
Do.....	Rear wheel, right or left, wood parts and felloe bands, state engine number, KK-3383.	.....do.....	2
Do.....	Hub nut for front wheel, KK-3412.	.....do.....	3
Do.....	Hub cap for rear wheel, KK-3413.	.....do.....	3
Wind shield	Complete (7-P), (P), KK-3406.	.....do.....	1
Do.....	Glass for upper frame of wind shield (7-P) (P), KK-3504.	.....do.....	2
Do.....	Glass for lower frame of wind shield (7-P) (P) (R), KK-3507.	.....do.....	2
Do.....	Rain strip between upper and lower glasses (7-P) (P) (R), KK-3516.	.....do.....	2
Touring car, Dodge:			
Brakes	Outer brake band with ends support and lining, left, R-5246.	.....do.....	1
Do.....	Outer brake-band lining, R-3074.	.....do.....	12
Do.....	Outer brake-band top support, R-7198.	.....do.....	72
Do.....	Inner brake shoe lining, R-7036.	.....do.....	12
Do.....	Inner brake shoe release spring, R-3071.	.....do.....	2
Do.....	Brake lever, quadrant, B-4276.	.....do.....	1
Cooling system	Fan (bushed), A-5779.	.....do.....	2
Do.....	Fan bushing, front, A-3813.	.....do.....	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car, Dodge—Contd.			
Cooling system.....	Fan bushing, rear, A-5425.....	Each.....	6
Do.....	Fan shaft, A-7090.....	do.....	2
Do.....	Fan belt (1 inch wide), A-5778.....	do.....	24
Do.....	Water-pump cover gasket, A-340.....	do.....	24
Do.....	Water-pump gasket, A-1520.....	do.....	24
Do.....	Water-pump shaft and impeller, A-7169.....	do.....	2
Do.....	Water-pump shaft bushing, front (in gear case), A-1619.....	do.....	12
Do.....	Water-pump shaft bushing, rear (in cylinder), A-1618.....	do.....	12
Do.....	Water-pump shaft bushing, front (in gear housing cover), A-3706.....	do.....	12
Do.....	Water-pump packing, A-341.....	do.....	48
Do.....	Water-pump packing (gear-case end), A-1659.....	do.....	48
Do.....	Water-pump driving gear, A-1467.....	do.....	6
Do.....	Radiator shell (for high radiator), A-5705.....	do.....	2
Do.....	Radiator core (for high radiator), A-5706.....	do.....	2
Do.....	Screw (core to shell), A-8383.....	Dozen.....	4
Do.....	Radiator filler cap, A-652.....	Each.....	6
Do.....	Radiator splash shield, S-5247.....	do.....	2
Do.....	Radiator hose, upper, A-4817.....	do.....	24
Do.....	Radiator hose, lower, and engine inlet hose, A-7299.....	do.....	24
Do.....	Hose clamp (large), Z-894.....	do.....	12
Do.....	Hose clamp (small), Z-2114.....	do.....	12
Disk clutch.....	Clutch spring, B-4674.....	do.....	6
Do.....	Clutch shaft (rear) bearing washer (takes clutch thrust), B-5030.....	do.....	3
Do.....	Clutch-driven disk, B-4022.....	do.....	12
Do.....	Clutch driving disk with facing, B-4280.....	do.....	24
Engine, valve.....	Cylinder block with studs, bearing caps, valve guides, valve lifter guides, valve spring covers, breather, starter, adjustment and straps, fitted with pistons and rings (3.875-inch bore only furnished), A-8732.....	do.....	1
Do.....	Cylinder head, A-186.....	do.....	2
Do.....	Cylinder head gasket, A-220.....	do.....	24
Do.....	Cylinder block, front handhole cover, A-2164.....	do.....	2
Do.....	Cylinder block, rear handhole cover (with breather hole), A-1768.....	do.....	2
Do.....	Valve guide, A-4635.....	do.....	24
Do.....	Valve, A-196.....	do.....	12
Do.....	Valve spring, A-392.....	do.....	12
Do.....	Valve seat spring, upper, A-4670.....	do.....	6
Do.....	Valve spring seat, lower, A-4161.....	do.....	6
Do.....	Engine water inlet elbow, A-285.....	do.....	6
Do.....	Engine water inlet elbow gasket, A-1528.....	do.....	24
Do.....	Nut, Z-811.....	do.....	12
Do.....	Water-pump gear housing gasket, A-3714.....	do.....	24
Do.....	Water-pump gear housing cover gasket, A-3715.....	do.....	24
Do.....	Water-pump shaft bushing, front (in gear cover), A-3706.....	do.....	12
Do.....	Water-pump shaft bushing, rear (in cylinder), A-3707.....	do.....	12
Do.....	Water-pump shaft packing, A-341.....	do.....	24
Do.....	Water-pump shaft gland, A-2659.....	do.....	24
Do.....	Breather oil strainer, A-1685.....	do.....	12
Do.....	Breather cover, A-1670.....	do.....	6
Do.....	Breather cap, A-5841.....	do.....	6
Do.....	Starter generator chain (¾ pitch), A-2216.....	do.....	6
Do.....	Starter generator chain (¾ pitch), master link A-2378.....	do.....	6
Do.....	Starter generator chain, master link cotter pin, Z-2015.....	do.....	24
Do.....	Starter generator chain, inspection cover gasket, A-2384.....	do.....	24
Do.....	Timing gear cover gasket, A-469.....	do.....	24
Do.....	Oil pump shaft bushing (in timing gear cover), A-3724.....	do.....	3
Do.....	Front engine support cover gasket, A-6203.....	do.....	12
Fenders.....	Left front fender (56-inch tread), S-2755.....	do.....	1
Do.....	Right front fender (56-inch tread), S-2754, left hand drive.....	do.....	1
Do.....	Front fender iron (56-inch tread), S-1840.....	do.....	2
Do.....	Left rear fender (56-inch tread), (T-C), S-1038.....	do.....	1
Do.....	Right rear fender (56-inch tread), (T-C), S-1037.....	do.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car, Dodge—Contd.			
Fenders.....	Rear fender support (left), L-3143.....	Each.....	1
Do.....	Rear fender support (right), L-3142.....	do.....	1
Front axle.....	Right steering knuckle arm (bushed), left hand drive, E-1356.....	do.....	2
Do.....	Steering knuckle arm bushing, E-178.....	do.....	6
Do.....	Steering knuckle tie rod yoke bolt, E-165.....	do.....	6
Do.....	Front axle center, E-181.....	do.....	1
Do.....	Steering knuckle bolt, E-157.....	do.....	6
Do.....	Steering knuckle bushing, E-167.....	do.....	6
Do.....	Steering gear arm, left hand drive, C-2933.....	do.....	2
Do.....	Steering gear screw, left hand drive, C-323.....	do.....	3
Fuel system.....	Carburetor float, A-1721.....	do.....	6
Do.....	Exhaust manifold with integral hot-air heater, A-3902.....	do.....	1
Do.....	Exhaust-manifold gasket, A-213.....	do.....	48
Do.....	Exhaust-manifold pipe, A-2690.....	do.....	2
Do.....	Exhaust-manifold nut, A-211.....	do.....	2
Do.....	Muffler, A-4758.....	do.....	2
Ignition.....	Magneto distributor, A-2256.....	do.....	1
Do.....	Magneto carbon and spring at distributor disk, A-1784.....	do.....	1
Do.....	Magneto make and break complete with platinum point and contact, A-2253.....	do.....	1
Do.....	Magneto contact spring with platinum contact, A-1786.....	do.....	3
Do.....	Magneto contact screw with platinum point, A-1787.....	do.....	3
Do.....	Magneto make and break cover, A-1791.....	do.....	3
Do.....	Magneto ground carbon brush and holder, A-2130.....	do.....	6
Do.....	Magneto ground carbon brush and spring, A-1789.....	do.....	6
Do.....	Magneto wrench, L-1373.....	do.....	10
Do.....	Distributor rotor brush, A-5153.....	do.....	6
Do.....	Distributor rotor brush spring, A-5154.....	do.....	6
Lamps.....	Head lamp complete (black enamel), L-9091.....	do.....	4
Do.....	Head lamp frame (black enamel), L-9092.....	do.....	2
Do.....	Head lamp glass (only), L-1448.....	do.....	24
Do.....	Head lamp tungsten lamp (15 candlepower, 16-volt), L-1399.....	do.....	24
Do.....	Tail lamp, complete, left hand drive, L-4707.....	do.....	4
Do.....	Tail lamp, tungsten lamp (2 candlepower, 16-volt), L-1400.....	do.....	24
Lubricating system.....	Oil pan gasket (front), left (pressed steel oil pan), cork, A-7728.....	do.....	12
Do.....	Oil pan gasket (front), right (pressed steel oil pan), cork, A-7727.....	do.....	12
Do.....	Oil pan gasket cork, rear, A-7863.....	do.....	12
Do.....	Oil pan end felt, A-7743.....	do.....	12
Do.....	Crank shaft (rear) bearing oil retainer gasket, lower, A-5181.....	do.....	12
Do.....	Crank shaft (rear) bearing oil retainer gasket, A-4552.....	do.....	12
Do.....	Circulating oil strainer flange gasket screw, A-473.....	do.....	12
Do.....	Oil pump case gasket, A-8553.....	do.....	12
Do.....	Oil pump cover gasket, A-8552.....	do.....	12
Piston crank shaft.....	Piston and connecting rod assembled, A-6133.....	do.....	4
Do.....	Piston pin, A-262.....	do.....	3
Do.....	Piston pin lock screw, A-318.....	do.....	6
Do.....	Cotter pin, Z-726.....	do.....	24
Do.....	Piston ring, A-242.....	do.....	48
Do.....	Connecting rod assembly (with bushing), A-6132.....	do.....	3
Do.....	Connecting rod bearing bushing (upper and lower halves), A-436.....	do.....	16
Do.....	Connecting rod bearing shim, 0.116 thick, A-1803.....	do.....	12
Do.....	Connecting rod bearing shim, 0.118 thick, A-1804.....	do.....	12
Do.....	Connecting rod bearing shim, 0.120 thick, A-306.....	do.....	12
Do.....	Connecting rod bearing shim, 0.122 thick, A-1805.....	do.....	12
Do.....	Connecting rod bolt, A-6158.....	do.....	6
Do.....	Connecting rod bolt nut, A-5860.....	do.....	6
Do.....	Cotter pin, Z-731.....	Dozen.....	6
Do.....	Crank shaft, A-6337.....	Each.....	1
Do.....	Crank shaft timing gear, A-6749.....	do.....	2
Do.....	Crank shaft starter sprocket, A-6748, $\frac{3}{8}$ -inch pitch.....	do.....	4
Do.....	Crankshaft oil pump gear, A-212.....	do.....	2
Do.....	Crankshaft (front) bearing bushing, lower, A-7557.....	do.....	12

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car. Dodge—Contd.			
Piston crank shaft.....	Crankshaft (front) bearing bushing, upper, A-7558	Each	12
Do.....	Crankshaft (front) bearing shim .116 thick, A-6355	do	12
Do.....	Crankshaft (front) bearing shim .118 thick, A-6356	do	12
Do.....	Crankshaft (front) bearing shim .120 thick, A-6357	do	12
Do.....	Crankshaft (center) bearing bushing, lower, A-7561	do	12
Do.....	Crankshaft (center) bearing bushing, upper, A-7562	do	12
Do.....	Crankshaft (center) bearing shim .116 thick, A-6358	do	12
Do.....	Crankshaft (center) bearing shim .118 thick, A-6359	do	12
Do.....	Crankshaft (center) bearing shim .120 thick, A-6360	do	12
Do.....	Crankshaft (rear) bearing bushing, lower, A-7565	do	12
Do.....	Crankshaft (rear) bearing bushing, upper, A-7566	do	12
Do.....	Crankshaft (rear) bearing shim .116 thick, A-6361	do	12
Do.....	Crankshaft (rear) bearing shim .118 thick, A-6362	do	12
Do.....	Crankshaft (rear) bearing shim .120 thick, A-6363	do	12
Do.....	Cam shaft, A-1999	do	1
Do.....	Cam shaft timing gear, A-320	do	3
Rear axle	Axle drive bevel gear (3.615 to 1), 47 teeth, R-4141	do	1
Do.....	Axle drive bevel pinion (3.615 to 1 ratio), 13 teeth, R-4140	do	1
Do.....	Axle shaft drive flange gasket, R-2636	do	12
Do.....	Propeller shaft, R-4032	do	1
Do.....	Differential case, assembled right and left (bushed), R-4420	do	1
Springs	Front spring (bushed), J-4913	do	6
Do.....	Front spring bushing, J-550	do	12
Do.....	Front spring front bolt, J-1715	do	6
Do.....	Grease cap, Z-2872	do	6
Do.....	Rear spring, lower, bushed (sedan, taxi, and limousine), J-5330	do	6
Do.....	Rear spring, (lower) front bushing, J-233	do	6
Do.....	Rear spring, rear bushing, J-234	do	6
Do.....	Rear spring, shackle bolt, J-1715	do	6
Do.....	Rear spring, upper, bushed (touring, roadster, and coupe), J-4916	do	6
Transmission control, etc.	Transmission assembly, less support, control, and pedals (disk clutch), left-hand drive, B-5512	do	1
Do.....	Universal joint assembly (plain type), B-2506	do	1
Do.....	Gear shift lever ball, B-535	do	3
Do.....	Reverse idler gear bracket gasket, B-405	do	6
Do.....	Countershaft, B-25	do	1
Do.....	Transmission shaft, B-1385	do	1
Do.....	Countershaft, low and reverse, B-427	do	3
Do.....	Reverse idler gear bushing, B-27	do	3
Do.....	Universal joint assembly (with trunion bushings), B-5223	do	1
Do.....	Universal joint bushing, B-5045	do	1
Do.....	Universal joint housing shim, $\frac{1}{4}$, B-5046	do	6
Do.....	Universal joint housing gasket for all cars, B-3542	do	12
Wheels	Front wheel (32 by 3 $\frac{1}{2}$ inches), with hub and cups, without rim, clamps, or bolts, J-604	do	2
Do.....	Front wheel hub cap, J-490	do	6
Do.....	Rear wheel (32 by 3 $\frac{1}{2}$ inches), with brake drum hub caps, without rim, clamps, or bolts, J-255	do	2
Do.....	Rear wheel hub caps, J-491	do	6
Do.....	Demountable rim (32 by 3 $\frac{1}{2}$ inches), straight side, J-1772	do	3
Do.....	Demountable rim clamp, straight side, J-608	do	3
Windshield	Windshield assembly (touring car), L-5115	do	1
Do.....	Windshield glass, lower (touring car), L-5209	do	2
Do.....	Windshield glass, upper (touring car and roadster), L-5211	do	2
Tow lines	Auto.	do	35
Transmissions	Heavy type	do	5
Do.....	Light type, clutch and control	do	5
Transmission clutch and control.	Cadillac	do	5
Trolley	Overhead (6 chain hoists)	do	1
Trucks	Heavy	do	9
Do.....	Light	do	9
Valves	Cadillac automatic gasoline pressure, complete	do	4

Notes for basic table of allowances, Air Service—Continued.

NOTE 70—Continued.

GARAGE EQUIPMENT (CHAUFFEURS), TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Touring car, Dodge—Contd.			
Valve grinders.....	Electric.....	Each.....	12
Do.....	Hand.....	do.....	30
Valve spring compressor.....		do.....	25
Valve spring test.....		do.....	6
Vises.....	Prentiss, 4 $\frac{1}{2}$ -inch, No. 221.....	do.....	50
Do.....	Prentiss, 2-inch, No. 38.....	do.....	10
Wheel pullers.....		do.....	24
Wrenches.....	Auto, 12-inch.....	do.....	200
Do.....	For Cadillac.....	do.....	12
Do.....	Cadillac spanner.....	do.....	12
Do.....	Crescent, 8-inch.....	do.....	600
Do.....	Crescent, 8-inch.....	do.....	250
Do.....	Crescent, 10-inch.....	do.....	100
Do.....	Delco.....	do.....	12
Do.....	Double end, $\frac{3}{8}$ by $\frac{1}{8}$ inch.....	do.....	600
Do.....	Double end, $\frac{1}{2}$ by 12 inches.....	do.....	600
Do.....	$\frac{1}{4}$ by $\frac{3}{8}$ inch, double end.....	do.....	500
Do.....	Double end, $\frac{1}{4}$ by $\frac{3}{8}$ inch.....	do.....	500
Do.....	Double end, L $\frac{3}{8}$ by $\frac{1}{8}$ inch.....	do.....	100
Do.....	Double end, L $\frac{1}{2}$ by $\frac{1}{8}$ inch.....	do.....	100
Do.....	Double end, L $\frac{1}{2}$ by $\frac{1}{8}$ inch.....	do.....	100
Do.....	Double end, L $\frac{1}{2}$ by $\frac{1}{8}$ inch.....	do.....	100
Do.....	$\frac{3}{8}$ -inch T handle socket.....	do.....	48
Do.....	$\frac{1}{2}$ -inch T handle socket.....	do.....	48
Do.....	T handle socket, $\frac{1}{2}$ -inch.....	do.....	24
Do.....	Magneto.....	do.....	250
Do.....	Monkey, 22-inch.....	do.....	12
Do.....	RAM.....	do.....	5
Do.....	Spark plug.....	do.....	84
Do.....	Starrett, socket, No. 443A.....	sets.....	4

NOTE 71.

INSTRUMENT EQUIPMENT, TRAINING ENLISTED MECHANIC.

(For 188 instrument repairmen under instruction, 6 months' course.)

Name.	Description.	Unit.	Number.
Alcohol.....	Grain.....	Gallon.....	10
Do.....	Wood.....	do.....	20
Altimeter.....	Taylor & Sperry.....	Each.....	54
Anemometer.....	Taylor.....	do.....	3
Bar tool steel.....	Flat, small (assortment from Nos. 1 to 16).....	Pound.....	10
Do.....	Square, small (assortment from Nos. 1 to 16).....	do.....	10
Do.....	Triangular, small (assortment from Nos. 1 to 16).....	do.....	10
Barograph.....	Taylor & Sperry.....	Each.....	8
Benzine.....		Gallon.....	10
Blocks of charcoal.....		Each.....	250
Do.....	Ranke.....	do.....	18
Do.....	Rotten stone.....	do.....	18
Blowpipes.....		do.....	200
Blue prints of each instrument.....		do.....	18
Books.....	Aircraft and mechanic's hand.....	do.....	18
Borax.....		Pound.....	20
Brass.....	Sheet, Nos. 18 to 30.....	do.....	15
Broaches.....	Nos. 470-488, assorted.....	Each.....	38
Brushes.....	Watch, fine.....	do.....	125
Do.....	Watch, medium.....	do.....	127
Do.....	Watch, coarse.....	do.....	175
Do.....	Jeweler's, fine.....	do.....	48
Do.....	Jeweler's, coarse.....	do.....	96
Do.....	Bench, large.....	do.....	225
Burnishers.....	Jewel.....	do.....	150
Do.....	Smooth.....	do.....	200
Calipers.....	Machinist's, inside, 3-inch.....	do.....	175
Do.....	Machinist's, outside, 3-inch.....	do.....	175
Do.....	Truing.....	do.....	20
Chuck.....	Bezel.....	do.....	6
Do.....	Face plate.....	do.....	6
Clinometers.....	Sperry Gyroscope Co.....	do.....	18
Clock oil.....		Bottle.....	200

Notes for basic table of allowances, Air Service—Continued.

NOTE 71—Continued.

INSTRUMENT EQUIPMENT, TRAINING ENLISTED MECHANIC—Continued

Name.	Description.	Unit.	Number.
Combination squares.....		Each.....	200
Copper.....	Sheet, Nos. 25 to 30.....	Pound.....	9
Cloth.....	Cheese.....	Yard.....	300
Compass.....	Air (Sperry and General Electric).....	Each.....	18
Dies.....	Machine screw, Nos. 4-20.....	do.....	30
Do.....	Jeweler's.....	do.....	30
Dividers.....	3-inch.....	do.....	200
Do.....	5-inch.....	do.....	200
Drills.....	Pivot.....	do.....	32
Do.....	Pivot, Nos. 1 to 1.....	Set.....	32
Do.....	Twist, Nos. 1-60.....	do.....	32
Eye loops.....	High power.....	Each.....	60
Do.....	Medium.....	do.....	160
Files.....	Burnisher's.....	do.....	200
Do.....	Escapement, flat.....	do.....	200
Do.....	Flat, coarse.....	do.....	200
Do.....	Flat, fine.....	do.....	200
Do.....	Round, large, fine.....	do.....	200
Do.....	Knife edge, fine.....	do.....	200
Do.....	Pivot.....	do.....	200
Do.....	Round, coarse.....	do.....	200
Do.....	Round, small, fine.....	do.....	200
Do.....	Square, fine.....	do.....	200
Do.....	Triangular, fine.....	do.....	200
Do.....	Wedge, fine.....	do.....	200
Flat slip.....	Arkansas.....	do.....	175
Flux.....	Soldering.....	Pound.....	30
Gauges.....	Air pressure (National Foxboro, U. S.) (10 each).....	Each.....	30
Do.....	M/m.....	do.....	100
Do.....	Oil pressure (National Foxboro, U. S.) (10 each).....	do.....	30
Do.....	Thread, jewel.....	do.....	100
Glass.....	Plate (single strength, 6 by 6 inch plate).....	Square foot.....	18
Glass cutters.....	Circular.....	Each.....	20
Do.....	Straight.....	do.....	20
Gravers.....	Chucks.....	do.....	14
Do.....	Hand, Nos. 1-12.....	do.....	15
Hammers.....	Jeweler's.....	do.....	175
Handles.....	File.....	do.....	144
Do.....	Jeweler's hammer.....	do.....	36
Do.....	Mallet (5-ounce, 1-inch face).....	do.....	9
Inclinometers.....	Taylor Instrument Co.....	do.....	9
Indicators.....	Air-speed (Foxboro & Bristol).....	do.....	18
Do.....	Banking (Sperry Gyroscope Co.).....	do.....	18
Do.....	Incidence (Sperry Gyroscope Co.).....	do.....	9
Do.....	Lateral (Sperry Gyroscope Co.).....	do.....	9
Do.....	Rate of climb (Sperry Gyroscope Co.).....	do.....	18
Jar.....	Bell, 8-inch.....	do.....	3
Lathes.....	Bench.....	do.....	6
Do.....	Jeweler's.....	do.....	10
Do.....	Precision.....	do.....	5
Mallets.....	Brass, fiber.....	do.....	60
Mandrel.....	Ring.....	do.....	12
Manometers.....		do.....	9
Manuals of instrument repair course.....		do.....	175
Metal saw.....	Thin, brass back.....	do.....	175
Metal saw blades.....		do.....	1,200
Mikes.....	1-inch.....	do.....	48
Oil.....	Kerosene.....	Gallon.....	25
Do.....	Motor.....	do.....	10
Do.....	3-in-1.....	Bottle.....	300
Oilstones.....	Arkansas, large.....	Each.....	60
Paper.....	Typewriter.....	Sheets.....	3,000
Pencils.....	Lead.....	Each.....	180
Pith.....	Sticks.....	Stick.....	144
Plates.....	Pic, Swiss.....	Each.....	84
Pliers.....	End cutting.....	do.....	190
Do.....	Flat nose, large.....	do.....	200
Do.....	Flat nose, small.....	do.....	200
Do.....	Gass.....	do.....	190
Do.....	Round nose.....	do.....	190
Do.....	Side cutting.....	do.....	190
Poising tool.....		do.....	12
Potassium cyanide.....		Pound.....	20
Pressure gauge tester.....	Crosby Steam Gauge Co., New York City.....	Each.....	3
Pump.....	Vacuum.....	do.....	3
Remover.....	Hand and roller.....	do.....	48

Notes for basic table of allowances, Air Service—Continued.

NOTE 71—Continued.

INSTRUMENT EQUIPMENT, TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Rules	Steel, 3-inch	Each	200
Do	Steel, 6-inch	do	200
Do	Steel, 10-cm	do	200
Saw frames		do	60
Screw drivers		Set	125
Do	Clock	Each	200
Do	Watch, fine	do	200
Do	Watch, large	do	200
Do	Watch, medium	do	200
Shellac	No. 4	Stick	18
Solder	Silver	Pound	5
Do	Soft	do	100
Soldering iron	Electric	Each	60
Square slip	Arkansas	do	175
Staking sets		do	25
Tablets	Writing	do	180
Tachometers	Testing table	do	3
Do	Van Sicklen, Warner, National Cash Register	do	72
Taps	Jeweler's No. 4-20	do	30
Do	Machine screw, No. 4-20	do	30
Target	Sighter (Sperry)	do	3
Thermometers	Mercury, centigrade (Centigrade Scientific Co., Chicago)	do	45
Do	Mercury, Fahrenheit (Centigrade Scientific Co., Chicago)	do	8
Do	Radiator (National Boyce, Foxboro) (10 each)	do	30
Tin	Sheet No. 25	Pound	15
Tin snips		Each	150
Tool sharpeners		do	15
Torches	Alcohol	do	125
Do	Gasoline, blow	do	50
Transit	Engineers', any kind	do	3
Triangular slip	Arkansas	do	175
Tripoli	Compound	do	18
Tubes	Wire steel, soft rolled	do	72
Tubing	Brass, 1/4-inch core	Pound	10
Do	Copper, 1/4-inch core	do	15
Do	Glass, 1/4-inch (In 6-inch lengths)	Foot	18
Do	Rubber, 1/4-inch	do	30
Tweezers	Large	Each	190
Do	Small	do	190
Vaseline		Pound	12
Vises	Bench	Each	110
Do	Bench, 4-inch	do	60
Do	Hand	do	75
Do	Pin, large	do	160
Do	Pin, small	do	175
Watch oil		Bottle	200
Watch paper		Sheet	500
Wire	Steel, bronze (Nos. 20 to 30)	Pound	3
Do	Steel, spring (assortment Nos. 23 to 28)	do	9
Wood pegs		Bundle	200
Wrenches	Crescent, 4-inch	Each	175
Do	Crescent, 6-inch	do	175
Do	V. S. special	do	36

NOTE 72.

LUBRICATION LABORATORY EQUIPMENT, TRAINING ENLISTED MECHANIC.

(For 75 lubrication mechanics under instruction, 6 months' course.)

Name.	Description.	Unit.	Number.
Alcohol	95 per cent (Eimer & Amend)	Gallon	1
Ammonium chloride	C. P. (Eimer & Amend)	Pound	2
Ammonium hydrate	do	do	2
Amyl alcohol	(Eimer & Amend)	do	1
Barium hydrate	C. P. (Eimer & Amend)	do	1
Beakers	25 c. c. (Eimer & Amend)	Each	3
Do	50 c. c. (Emil Greiner)	do	2
Do	100 c. c. (Eimer & Amend)	do	3
Do	250 c. c. (Eimer & Amend)	do	3
Do	500 c. c. (Eimer & Amend)	do	3

Notes for basic table of allowances, Air Service—Continued.

NOTE 73—Continued.

LUBRICATION LABORATORY EQUIPMENT, TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Benzol.....	90 per cent (Eimer & Amend).....	Gallon.....	1
Blanks.....	For distillation curves (O. L. Branch).....	Each.....	500
Boiler.....	10 H. P. (Keystone Boiler Co.).....	do.....	1
Bottles.....	Sample, round, 2-ounce (Eimer & Amend).....	Gross.....	2
Do.....	Wash, 1,000 c. c. (Emil Greiner).....	Each.....	1
Bottle cleaners.....	1-inch (C. J. Tagliabue Co.).....	do.....	4
Do.....	2-inch (C. J. Tagliabue Co.).....	do.....	4
Burners.....	Flame test, with wicks and hose (C. J. Tagliabue Co.).....	Set.....	1
Burner.....	Tyrrell (C. J. Tagliabue Co.).....	Each.....	1
Burettes.....	50 c. c. (Eimer & Amend).....	do.....	3
Burette holder.....	2 clamps (C. J. Tagliabue Co.).....	do.....	1
Cans.....	Tin, 1-quart (C. J. Tagliabue Co.).....	do.....	24
Do.....	Tin, 2-quart (C. J. Tagliabue Co.).....	do.....	24
Carbon bisulphide.....	(Eimer & Amend).....	Pound.....	1
Carbon tetrachloride.....	do.....	Quart.....	1
Carbon testing machine.....	Conradson (N. Y. Lubricating Co.).....	Each.....	1
Chainomatic analytical balance.....	With metric weights 100 grams to 50 mg. (Christian Becker, 92 Reade Street, New York City).....	do.....	1
Chloroform.....	Commercial (Eimer & Amend).....	Pound.....	1
Clamps.....	Buissen, 9-inch (Eimer & Amend).....	Each.....	3
Do.....	Hoffman, 1-inch (Palo Co.).....	do.....	6
Clamp holders.....	(Palo Co.).....	do.....	6
Cleveland open flash test.....	(C. J. Tagliabue Co.).....	do.....	1
Crucibles.....	Porcelain, 1½-inch (Palo Co.).....	do.....	2
Do.....	Porcelain, 2-inch (Palo Co.).....	do.....	2
Do.....	Porcelain, 2½-inch (Palo Co.).....	do.....	2
Cups.....	Copper test (A. H. Thomas).....	do.....	12
Cylinders.....	Graduated, 25 c. c. (Eimer & Amend).....	do.....	2
Do.....	Graduated, 50 c. c. (Eimer & Amend).....	do.....	2
Do.....	Graduated, 100 c. c. (Eimer & Amend).....	do.....	2
Do.....	Graduated, 200 c. c. (Eimer & Amend).....	do.....	1
Dishes.....	Evaporating, No. 0, 75 c. c. (Eimer & Amend).....	do.....	2
Do.....	Evaporating, No. 0, 225 c. c. (Eimer & Amend).....	do.....	2
Distillation bath.....	Complete (C. J. Tagliabue Co.).....	do.....	1
Ether.....	U. S. P. (Eimer & Amend).....	Ounce.....	8
Filter papers.....	Assorted sizes (C. J. Tagliabue Co.).....	Each.....	200
Flasks.....	60 c. c. (Eimer & Amend).....	do.....	2
Do.....	120 c. c. (Eimer & Amend).....	do.....	2
Do.....	200 c. c. Engler (Eimer & Amend).....	do.....	2
Funnels.....	Glass, 75 mm. (Eimer & Amend).....	do.....	2
Glass.....	Graduated, 6-ounce (Eimer & Amend).....	do.....	4
Graduates.....	6-ounce (Eimer & Amend).....	do.....	4
Hot plate.....	Electric, 3-heat, 2-hole (C. J. Tagliabue Co.).....	do.....	1
Hydrochloric acid.....	(Eimer & Amend).....	Pound.....	5
Hydrometer.....	Beaumé, 6 set.....	Each.....	1
Do.....	30°-10° (C. J. Tagliabue Co.).....	do.....	2
Do.....	Beaumé, 10°-21° (C. J. Tagliabue Co.) No. 32090.....	do.....	2
Do.....	Beaumé, 19°-31° (C. J. Tagliabue Co.) No. 32093.....	do.....	2
Do.....	Beaumé, 29°-41° (C. J. Tagliabue Co.) No. 32096.....	do.....	2
Do.....	Beaumé, 39°-51° (C. J. Tagliabue Co.) No. 32099.....	do.....	2
Do.....	Beaumé, 49°-61° (C. J. Tagliabue Co.) No. 32102.....	do.....	2
Do.....	Beaumé, 59°-71° (C. J. Tagliabue Co.) No. 32105.....	do.....	2
Do.....	Beaumé, 69°-81° (C. J. Tagliabue Co.) No. 32108.....	do.....	2
Jars.....	Glass, 15 by 1½ inch (C. J. Tagliabue Co.).....	do.....	3
Lamp.....	Alcohol, 8-ounce (Eimer & Amend).....	do.....	1
Lead acetate.....	C. P. (Eimer & Amend).....	Pound.....	1
Library.....			
Catalog.....	Eimer & Amend, New York.....	Each.....	1
Do.....	Emil Greiner, New York.....	do.....	1
Do.....	Kirk Geary Co., San Francisco.....	do.....	1
Do.....	Palo Co., New York.....	do.....	1
Do.....	Scientific Materials Co., Pittsburgh.....	do.....	1
Do.....	C. J. Tagliabue Co., Brooklyn.....	do.....	1
Do.....	Taylor Instrument Co., Rochester, N. Y.....	do.....	1
Do.....	A. H. Thomas Co., Philadelphia, Pa.....	do.....	1
Do.....	Archbutt & Deeley (C. Coffin & Son).....	do.....	1
Do.....	A. H. Gill (Lippincott).....	do.....	1
Lubrication and lubricants.....			
Oil Analysis.....			
Oil Inspectors' Manual.....			
Petroleum and Its Products Specifications.....	Redwood (C. Coffin & Son).....	do.....	1
Liebig condenser.....	500 mm. (C. J. Tagliabue Co.).....	do.....	1
Litharge tech.....	(Eimer & Amend).....	do.....	1
Litmus paper.....	Blue (Eimer & Amend).....	Tube.....	1
Do.....	Red (Eimer & Amend).....	do.....	1
Methyl alcohol.....	(Eimer & Amend).....	Quart.....	1
Methyl orange.....	do.....	Ounce.....	4
Motor.....	Electric, 1 H. P. (Robbins & Myers).....	Each.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 72—Continued.

LUBRICATION LABORATORY EQUIPMENT, TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Nitric acid.....	C. P. (Eimer & Amend).....	Pound.....	5
Oil reclaimers.....	Type J, 75-gallon (Richardson, Phoenix Co.)...	Each.....	2
Orange shellac.....	(Eimer & Amend).....	Quart.....	1
Pensky-Martin closed cup flask.....	(C. J. Tagliabue Co.).....	Each.....	1
Phenolphthalein.....	(Eimer & Amend).....	Ounce.....	4
Pinch cocks.....	.....do.....	Each.....	4
Pipettes.....	100 c. c. (Emil Greiner).....	.....do.....	6
Potassium bichromate.....	(Eimer & Amend).....	Pound.....	1
Potassium hydroxide.....	(Eimer & Amend).....	Ounce.....	4
Potassium ferrocyanide.....	C. P. (Eimer & Amend).....	Pound.....	1
Pump.....	Measuring, No. 278 (Wayne Oil Pump & Tank Co.).....	Each.....	1
Rods.....	Glass, 3/4-inch (Eimer & Amend).....	Foot.....	25
Sand bath.....	(A. H. Thomas & Co.).....	Each.....	1
Scale.....	Platform, with scoop (Fairbanks).....	.....do.....	1
Sodium silicate.....	(Eimer & Amend).....	Quart.....	1
Spatulas.....	6-inch (Eimer & Amend).....	Each.....	2
Do.....	10-inch (Eimer & Amend).....	.....do.....	2
Stands.....	Iron, with rings (C. J. Tagliabue Co.).....	.....do.....	2
Stop watch.....	(C. J. Tagliabue Co.).....	.....do.....	1
Suction stubs.....	1 1/2-inch, with foot valve (Wayne Oil Pump & Tank Co.).....	.....do.....	1
Sulphuric acid.....	C. P. (Eimer & Amend).....	Pound.....	5
Sulphur powder.....	.....do.....	.....do.....	1
Switches.....	Automatic starting (Cutler-Hammer).....	Each.....	1
Do.....	Remote control (Cutler-Hammer).....	.....do.....	1
Test tubes.....	4-inch (Emil Greiner).....	.....do.....	60
Do.....	6-inch (Emil Greiner).....	.....do.....	60
Do.....	8-inch (Emil Greiner).....	.....do.....	60
Test tube rack.....	12-hole (Eimer & Amend).....	.....do.....	1
Thermometers.....	70°-110° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	100°-140° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	100°-200° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	300° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	600° F. (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	Range 20° to 140° F. (Taylor Instrument Co.), No. 1785.....	.....do.....	2
Do.....	Range 20° to 520° F. (Taylor Instrument Co.), No. 1428A.....	.....do.....	2
Do.....	Range 30° to 300° F. (Taylor Instrument Co.), No. 1402.....	.....do.....	2
Do.....	Range 0° to 220° F. (Taylor Instrument Co.), No. 1401.....	.....do.....	2
Thermometers for viscosimeter.....	Solid glass stem, range 65° to 75° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	Solid glass stem, range 98° to 108° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	Solid glass stem, range 208° to 218° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	Solid glass stem, range 20° to 720° (C. J. Tagliabue Co.).....	.....do.....	2
Do.....	Solid glass stem, range 128° to 138° (C. J. Tagliabue Co.).....	.....do.....	2
Tongs.....	Crucible, 17-inch (Palo Co.).....	.....do.....	1
Tripod.....	With concentric rings, 7 1/4-inch (Eimer & Amend).....	.....do.....	1
Tubing.....	Glass, 5 mm.....	Foot.....	25
Do.....	Glass, 6 mm.....	.....do.....	25
Do.....	Glass, 1-inch.....	.....do.....	25
Do.....	Rubber, 5 mm (C. J. Tagliabue Co.).....	.....do.....	10
Do.....	Rubber, 6 mm (C. J. Tagliabue Co.).....	.....do.....	10
Do.....	Rubber, 3/4-inch (C. J. Tagliabue Co.).....	.....do.....	5
Do.....	Rubber, 1/2-inch (C. J. Tagliabue Co.).....	.....do.....	5
Tweezers.....	(Eimer & Amend).....	Pair.....	4
Viscosimeter.....	Saybolt Universal, complete with centigrade thermometers (C. J. Tagliabue Co.).....	Each.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 73.

MACHINE-SHOP EQUIPMENT, TRAINING ENLISTED MECHANIC.

(For 127 machinists under instruction, 6-months' course.)

64 men on bench work.

63 men on machine work.

Name.	Description.	Unit.	Number.
Arbor, press.....	E. E. Bartlett-Greenard No. 1, single unit, standard equipment.	Each.....	3
Do.....	E. E. Bartlett-Greenard No. 3, single unit, standard equipment.	do.....	3
Do.....	E. E. Bartlett-Greenard No. 8, single unit, standard equipment.	do.....	3
Do.....	Springfield Machine Tool Co., straightening.....	do.....	3
Bevels, machine.....	6-inch.....	do.....	24
Boring tool.....	No. 9 (Armstrong).....	do.....	6
Do.....	No. 10 (Armstrong).....	do.....	3
Boring bar.....	No. 3-B (Armstrong).....	do.....	3
Do.....	No. 1-B (Armstrong).....	do.....	10
Buttons, machine.....	Starrett or B. & S.....	Set.....	10
Brushes, file.....		Gross.....	1
Calipers.....	Inside, 4-inch.....	Each.....	36
Do.....	Inside, 6-inch.....	do.....	24
Do.....	Hermaphrodite, 4-inch.....	do.....	12
Do.....	Hermaphrodite, 6-inch.....	do.....	12
Do.....	Hermaphrodite, 8-inch.....	do.....	12
Do.....	Lock joint, bow outside, 10-inch.....	do.....	3
Do.....	Lock joint, bow inside, 10-inch.....	do.....	3
Do.....	Micrometer, inside, 2 to 12 inches.....	Set.....	5
Do.....	Micrometer, outside, 1-inch.....	Each.....	20
Do.....	Micrometer, outside, 2-inch.....	do.....	20
Do.....	Micrometer, outside, 3-inch.....	do.....	10
Do.....	Micrometer, outside, 4-inch.....	do.....	10
Do.....	Micrometer, outside, 5-inch.....	do.....	5
Do.....	Micrometer, outside, 6-inch.....	do.....	5
Do.....	Outside, 4-inch.....	do.....	48
Do.....	Outside, 6-inch.....	do.....	48
Do.....	Outside, 8-inch.....	do.....	24
Do.....	Thread, inside, 4-inch.....	do.....	6
Do.....	Thread, inside, 6-inch.....	do.....	6
Do.....	Thread, inside, 8-inch.....	do.....	6
Do.....	Thread, outside, 4-inch.....	do.....	6
Do.....	Thread, outside, 6-inch.....	do.....	6
Do.....	Thread, outside, 8-inch.....	do.....	6
Clamps, drill blocks, etc.....	Starrett or B. & S.....	do.....	18
Clamps.....	Key seat.....	do.....	6
Do.....	Toolmaker's.....	do.....	18
Do.....	Toolmaker's, parallel.....	do.....	18
Chisels.....	Cold, 7-inch.....	do.....	48
Do.....	Cape, 4-inch.....	do.....	48
Do.....	Diamond point.....	do.....	36
Counters.....	Revolution.....	do.....	6
Cutting-off tool.....	No. 21, straight shank (Armstrong).....	do.....	12
Do.....	No. 22, straight shank (Armstrong).....	do.....	6
Cutters.....	For emery-wheel dresser.....	do.....	6
Dividers.....	Spring, 4-inch.....	do.....	18
Do.....	Spring, 6-inch.....	do.....	18
Drill press.....	Sensitive, type XP, single unit, standard equipment.....	do.....	8
Do.....	Radial sensitive R. P., 24-inch, single unit, standard equipment.....	do.....	2
Do.....	Single spindle, R. P., single unit, standard equipment.....	do.....	7
Drill, portable.....	Vanborn, type DA-000, single unit, standard equipment.....	do.....	2
Do.....	Vanborn, type DA-1, single unit, standard equipment.....	do.....	2
Drills.....	Morse taper shank, $\frac{1}{4}$ to 1 inch, inclusive, by 32nds.....	Set.....	12
Do.....	Straight shank, letter size, A to Z.....	do.....	12
Do.....	Straight shank, wire size, Nos. 1 to 65, inclusive.....	do.....	30
Drill holder.....	Armstrong safety, No. 1.....	do.....	12
Do.....	Armstrong safety, No. 2.....	do.....	12
Do.....	Armstrong safety, No. 3.....	do.....	6
Dressers.....	Emery wheel.....	Each.....	6
Files.....	Mill, smooth, 10-inch.....	Dozen.....	6
Do.....	Bastard, 10-inch.....	do.....	6
Do.....	Second cut, mill, 10-inch.....	do.....	6
Do.....	Single cut, 8-inch, band saw, slim.....	do.....	6
Do.....	Bastard, half-round, 10-inch.....	do.....	6

Notes for basic table of allowances, Air Service—Continued.

NOTE 73—Continued.

MACHINE-SHOP EQUIPMENT, TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Files	Bastard, half-round, 8-inch	Dozen	6
Do	Smooth, half-round, 10-inch	do	6
Do	Smooth, half-round, 8-inch	do	6
Do	Bastard, square, 8-inch	do	6
Do	Bastard, hand, 10-inch	do	9
Do	Smooth, hand, 8-inch	do	6
Do	Bastard, flat, 10-inch	do	6
Do	Bastard, flat, 12-inch	do	6
Do	Smooth, flat, 10-inch	do	6
Do	Bastard, square, 8-inch, blunt	do	6
Do	Bastard, round, 10-inch	do	6
Do	Bastard, round, 8-inch	do	6
Do	Smooth, round, 10-inch	do	6
Do	Smooth, round, 8-inch	do	6
Do	Slim taper, 6-inch	do	6
Do	Filler, 8-inch, 6 grades, each, Nos. 0, 1, 3	do	6
Do	Filler, 6-inch, 6 grades, each, Nos. 0, 1, 3	do	6
Do	Filler, narrow, 8-inch, 6 grades, each, Nos. 0, 1, 3	do	6
Do	Filler, narrow, 6-inch, 6 grades, each, Nos. 0, 1, 3	do	6
Do	Filler, extra narrow, 8-inch, 6 grades, each, Nos. 0, 1, 3	do	6
Do	Filler, extra narrow, 6-inch, 6 grades, each, Nos. 0, 1, 3	do	33
Do	Die sinkers, 5-inch, assorted	Set	2
Do	Soft metal, hand, 10-inch	Dozen	2
Do	Soft metal, half-round, 10-inch	do	2
Do	Soft metal, round, 10-inch	do	2
Do	Soft metal, square, 10-inch	do	2
Gauges	Depth	Each	6
Do	Fillet	do	18
Do	Thickness	do	48
Do	Thread	do	18
Do	Surface, 8-inch	do	6
Do	Wire (B. & S.)	do	6
Grinding machine	Universal (B. & S.), standard equipment	do	1
Grinders, pedestal	Hisey-Wolf type 3-WF, standard equipment, regular equipment	do	15
Do	Hisey-Wolf type 3-WF, standard equipment, drill-grinding equipment	do	5
Do	Hisey-Wolf type 6-WF, standard equipment	do	10
Grinders, tool post	Hisey-Wolf type 2-ASU, standard equipment, universal motor	do	20
Grindstones	Oliver No. 39, 36 by 6 inches, standard equipment as in aero repair	do	2
Hack saw	N. G. Atkins & Co., No. 7, standard equipment, "Kwi-Kut."	do	4
Holders, tool	Armstrong Stellite, drop head, $\frac{1}{2}$ by $\frac{1}{2}$ inch	do	15
Do	Armstrong Stellite, drop head, $\frac{3}{8}$ by $1\frac{1}{2}$ inches	do	6
Do	Armstrong Stellite, left-hand offset, $\frac{1}{2}$ by $1\frac{1}{2}$ inches	do	15
Do	Armstrong Stellite, left-hand offset, $\frac{3}{8}$ by $1\frac{1}{2}$ inches	do	6
Do	Armstrong Stellite, right-hand offset, $\frac{1}{2}$ by $1\frac{1}{2}$ inches	do	15
Do	Armstrong Stellite, right-hand offset, $\frac{3}{8}$ by $1\frac{1}{2}$ inches	do	6
Do	Armstrong Stellite, straight shank, $\frac{1}{2}$ by $1\frac{1}{2}$ inches	do	15
Do	Armstrong Stellite, straight shank, $\frac{3}{8}$ by $1\frac{1}{2}$ inches	do	6
Indicators	Dial (Starrett or B. & S.)	do	10
Jackscrews	B. & S. or Starrett	do	18
Knurling tool	Armstrong No. 1-K	do	12
Lathes, 20-inch	L. & S., R. F., or American, standard equipment. (See Spec.)	do	3
Lathes, 14-inch	do	do	10
Lathes, precision	Rivet, Lathe & Grinder Co., standard equipment. (See Spec.)	do	4
Lathes, shop truck	Cleveland, 12-inch, standard equipment. (See Spec.)	do	6
Mandrels, expansion	Western Tool Co., Nos. 1 to 8, inclusive	Set	3
Milling machines	B. & S. No. 3-A, standard equipment. (See Spec.)	Each	15
Old Mans	Armstrong C-12	do	1
Parallels	Adjustable, 2 inch	do	6
Do	Adjustable, 5 inch	do	6
Plates	Surface, 12 by 12 inches	do	5

Notes for basic table of allowances, Air Service—Continued.

NOTE 73—Continued.

MACHINE-SHOP EQUIPMENT, TRAINING ENLISTED MECHANIC—Continued.

Name.	Description.	Unit.	Number.
Files	Combination, 8-inch	Dozen	6
Do.	End cutting, 8-inch	do.	3
Do.	Slide cutting, 8-inch	do.	3
Files	Bevel (Starrett No. 435)	Each	12
Punches	Center	do.	60
Do.	Drive pin	Set	6
Do.	Automatic	Each	24
Ratchets	Armstrong, 5-M	do.	2
Do.	Armstrong, 3-M	do.	2
Files	Steel, machinist's, 3-inch	Dozen	2
Do.	Steel, machinist's, 6-inch	do.	2
Do.	Steel, machinist's, 12-inch	do.	2
Reamers	Expansion, $\frac{1}{8}$ to 1 inch by 32nds	Set	2
Scissors	Platform (Fairbanks No. 10)	Each	1
Do.	Counter	do.	1
Screw drivers	6-inch	Dozen	5
Do.	8-inch	do.	5
Do.	10-inch	do.	4
Do.	Jeweler's	do.	4
Files	Morse taper, Nos. 1-2, style B (Pratt & Whitney)	Each	6
Do.	Morse taper, Nos. 2-3, style B (Pratt & Whitney)	do.	6
Do.	Morse taper, Nos. 3-4, style B (Pratt & Whitney)	do.	6
Do.	Morse taper, Nos. 4-5, style B (Pratt & Whitney)	do.	6
Do.	Morse taper, Nos. 5-6, style B (Pratt & Whitney)	do.	6
Shapers	Cincinnati Shaper Co., standard equipment, 24-inch. (See Spec.)	do.	10
Squares	Try, steel, 2-inch (B. & S. or Starrett)	do.	12
Do.	Try, steel, 6-inch (B. & S. or Starrett)	do.	1
Straightfiles	Steel, heavy 72-inch	do.	1
Trammels (B. & S. or Starrett)	Adjustable (B. & S. or Starrett)	do.	6
Tapes	Steel, 50-foot (Lufkin)	do.	12
Threading tool	Armstrong, No. 51	do.	6
Do.	Armstrong, No. 52	do.	12
Wheels, emery	Extras for machines	do.	7
Wrenches	Crescent, 4-inch, 150 head	Dozen	5
Do.	Crescent, 6-inch, 150 head	do.	5
Do.	Crescent, 8-inch, 150 head	do.	5
Do.	Engineer's, $\frac{1}{2}$ by $\frac{1}{4}$ inch, double end	do.	3
Do.	Engineer's, $\frac{3}{4}$ by $\frac{1}{4}$ inch, double end	do.	3
Do.	Engineer's, 1 by $\frac{1}{4}$ inch, double end	do.	3
Do.	Engineer's, $1\frac{1}{2}$ by $\frac{1}{4}$ inch, double end	do.	3
Do.	Engineer's, 2 by $\frac{1}{4}$ inch, double end	do.	3
Do.	Engineer's, $2\frac{1}{2}$ by $\frac{1}{4}$ inch, double end	do.	3
Do.	Engineer's, 3 by $\frac{1}{4}$ inch, double end	do.	3
Do.	Monkey, 12-inch (Billings & Spencer)	do.	2
Do.	Monkey, 28-inch ('Co's)	Each	12
Do.	Tap, 11-inch	do.	3
Vices	44-inch chipping (Prentiss), soft jaws for same	Dozen	5
Do.	2-inch chipping (Prentiss), soft jaws for same	do.	5

NOTE 74.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC.

(For 1,296 motor mechanics under instruction, 6 months' course.)

Number.	Unit.	Name.	Description.
100	Gallons	Acid, muriatic	Grain.
100	do.	Alcohol	
200	do.	Ammonia	
6	Each	Armature core	Wound (Berling).
200	Sheets	Asbestos	$\frac{1}{2}$ square foot.
500	Each	Batteries	Dry cell.
11	do.	do.	Storage (Liberty No. 8417).
15	do.	Baffle plates	Crank case (Curtiss, No. 3045).
5	do.	Bearing, ball	Cam shaft, drive shaft (Liberty).
2	do.	do.	Generator drive shaft (Liberty, No. 8148).
75	do.	Bearing, connecting rod	Upper (Liberty, No. 13457).
75	do.	do.	Lower (Liberty, No. 13235).
6	do.	Bearing, assembly	Bearing, propeller, hub thrust (Liberty, No. 12648).
15	do.	Bearing, crank shaft	Liberty, Nos. 13148 and 13417, long.
75	do.	do.	Liberty, Nos. 13459 and 13435, short.

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
25	Each	Bearing, crank shaft	Upper (Hispano A-11008B), front.
25	do	do	Lower (Hispano A-11009B), front.
75	do	do	Upper (Hispano, No. 9967B).
75	do	do	Lower (Hispano, No. 9968B).
5	do	Bearing, reamers	Rocker arms (Curtiss OX-5).
150	do	do	Front main lower (Curtiss, No. 41737).
200	do	do	Center main (Curtiss, No. 41737), lower.
150	do	do	Rear main (Curtiss—lower, No. 41736; upper, No. 41859).
150	do	do	Front main upper (Curtiss, No. 41857).
200	do	do	Center main upper (Curtiss, No. 41858).
15	do	do	Thrust main upper (Curtiss, No. K-518).
30	do	do	Connecting rod (Curtiss, No. 41742), assembly.
15	do	do	Cam shaft, rear (Curtiss, No. 41582).
20	do	do	Cam shaft, front (Curtiss, No. OX-20).
60	do	do	Cam shaft, intermediate (Curtiss No. 40344).
8	Gross	Blades, hacksaw	10-inch shaft.
15	Each	Block, distributor	Dixie magneto.
75	do	Bolt, connecting rod	Hispano No. 946.
30	do	do	Water pump attaching (Curtiss, No. K-90).
150	do	do	Case joint attaching, joint K-48 (Curtiss), short.
30	do	do	Case joint K-375 (Curtiss), long.
75	do	do	Water connecting, intake manifold (Curtiss, No. K-446).
150	do	do	Engine bed (Curtiss, No. K-308).
150	do	do	Curtiss, No. K-3378.
30	do	Bolt, machine	$\frac{1}{4}$ by 2 inches.
30	do	do	$\frac{1}{4}$ by 2½ inches.
30	do	do	$\frac{1}{4}$ by 1½ inches.
30	do	do	$\frac{1}{4}$ by 3 inches.
30	do	do	$\frac{1}{4}$ by 3½ inches.
30	do	do	$\frac{1}{4}$ by 4 inches.
30	do	do	$\frac{1}{4}$ by 3 inches.
30	do	do	$\frac{1}{4}$ by 2 inches.
30	do	do	$\frac{1}{4}$ by 1½ inches.
30	do	do	$\frac{1}{4}$ by 3 inches.
30	do	do	$\frac{1}{4}$ by 1 inch.
30	do	do	$\frac{1}{4}$ by 3 inches.
30	do	do	$\frac{1}{4}$ by 2 inches.
30	do	do	$\frac{1}{4}$ by 1½ inches.
30	do	do	$\frac{1}{4}$ by 2 inches.
30	do	do	$\frac{1}{4}$ by 2½ inches.
30	do	do	$\frac{1}{4}$ by 6 inches.
600	do	Bolts, stove	$\frac{1}{4}$ by 1½ inches.
600	do	do	$\frac{1}{4}$ by 1½ inches.
600	do	do	$\frac{1}{4}$ by 2 inch.
600	do	do	$\frac{1}{4}$ by 1½ inches.
30	do	do	$\frac{1}{4}$ by 1 inch.
50	Gross	Bolts, carriage	Assorted.
300	Pounds	Borax	12-inch.
12	Each	Braces	Contact screw with stud and platinum screw No. 2592, complete, Dixie magneto.
30	do	Bracket	Contact screw with stud but without platinum screw, Dixie magneto.
30	do	do	Contact screw, insulation, Dixie magneto, No. 8059.
75	do	do	do
100	Pounds	Brads	$\frac{1}{2}$ by 18 inches.
100	do	do	$\frac{1}{4}$ by 18 inches.
100	do	do	1 by 18 inches.
100	do	do	$\frac{1}{2}$ by 16 inches.
100	do	do	2 by 15 inches.
100	do	do	2½ by 14 inches.
30	Each	Breaker bar	Complete with large platinum Dixie, No. 9696.
12	Dozen	Brooms	Corn.
12	do	do	Rush, 18-inch.
289	Each	Brushes	Shellac.
1,500	do	do	Pencil (square), (Berling).
40	do	do	Varnish, 2-inch.
40	do	do	Wall, 4-inch.
40	do	do	Sash, 1-inch.
150	do	do	Distributor, for air caps (type Berling).
300	do	Brush, distributor	Finger contact (Berling).
30	do	Brush, holder, assembly	Berling.
75	do	Brush	Ground for interrupter case (Berling).
300	do	Brush collector	Berling, 3.
20	do	Brush holder cover	Berling.
300	do	Brush distributor	Arm (Berling).
30	do	Bushing	Connecting rod (Hispano, No. A9635A).

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
2	Each	Bushing	Piston pin (Curtiss), assembly stand, item 28, reamed, 1-inch, No. 1833 (Hispano), 30 mm.
15	do	do	Arm locating (Berling).
20	do	Callipers	Spring, inside, 8-inch.
20	do	do	Spring, outside, 8-inch.
1	Sets	do	Micrometer, inside.
1A	do	do	Micrometer, outside.
20	Each	Cam shaft	Curtiss, No. 2580.
7	do	Cans	Right-hand Dixie magneto, No. 9066.
7	do	do	Left-hand Dixie magneto, No. 9068.
20	do	do	Gasoline, 5 gallons.
9	do	Cap.	Front, main bearing (Curtiss, No. 41245).
500	do	Cards	Motor inspection.
441	do	Chisels	Cold.
500	do	do	Cold, 14-inch.
15	do	Clamps	Brush holder (Berling).
75	do	do	Hose, intake manifold (Curtiss).
200	do	do	Hose, valve (Curtiss).
150	do	do	Hose, elbow to manifold hose (Curtiss).
150	do	do	Hose, pumps to elbow hose (Curtiss).
2,000	do	do	Hose, assorted, 1/4 to 2 inches.
4	do	do	Piston ring (Hispano), item 34, TA-12000 E-1A.
50	Dozms	Cloth	Crocus.
2,000	Yards	do	Cheese.
20	Dozms	do	Emery, No. 00.
20	do	do	Emery, No. 0.
15	Each	Collar	Valve spring (Liberty No. 8090), lower.
15	do	do	Valve spring (Liberty No. 8023), upper.
75	do	Collector	Spool (Berling).
15	do	Condenser	Berling.
15	do	do	Dixie No. 9013.
500	Balls	Cord	Seine No. 18.
200	Square feet	Copper sheet	28 gauge.
10	Sheets	do	Soft annealed sheet, 0.017 thick (36 by 90 inches).
42	Each	Counters	Revolution.
20	do	Cover	Oil-retaining (thrust-bearing case).
40	do	do	Breaker (Dixie magneto, No. 9220).
15	do	Crankcase assembly	Upper half (Curtiss, No. 41625).
15	do	do	Lower half (Curtiss, No. 41374).
20	do	Crankshaft assembly	Complete (Curtiss, No. 41754).
30	do	Cylinder and jacket	Curtiss, No. 40333, assembly.
15	do	Disks	Timing, top center indicator (Hispano, No. TA-12066 E-2).
15	do	do	Timing (Hispano), item 14, TA-12066 E-1.
11	do	Distributors	Liberty, No. 12229.
200	do	do	Brush and spring (Dixie, No. 9433).
12	do	do	Arm.
15	do	do	Block, inside, for D-81 (Berling).
15	do	do	Block, cover (Berling).
30	do	do	Arm assembly.
10	do	Drills	Electric.
20	Sets	do	1/2 to 1/4 inch.
24	Each	do	Yankee, hand.
30	do	Elbow	Inlet connection, oiling system (Curtiss).
30	do	do	Outlet connection, oiling system (Curtiss).
30	do	do	Water connection, intake manifold (Curtiss).
1,144	do	Extractors	Cotter key, 8-inch.
300	Square feet	Fiber	Rubber, 1/4-inch.
400	Each	Files	Bastard, assorted.
400	do	do	Half round, 10-inch.
600	do	do	Hand, bastard, 10-inch.
400	do	do	Hand, smooth, 10-inch.
400	do	do	Mill, assorted.
450	do	do	Round, assorted.
400	do	do	Slim taper, 10-inch.
400	do	do	Square, 10-inch.
3	Dozen	do	Platinum.
30	do	Float, carburetor	Liberty.
30	Each	Followers	Intake, cans (Curtiss).
30	do	do	Exhaust, cans (Curtiss).
30	do	Funnels	Gasoline, large.
750	do	Gaskets	Spark plug (Liberty, No. 181).
30	do	do	Distributor to camshaft (Liberty, No. 8358).
200	do	do	Carburetor (Liberty, No. 254).
400	do	do	Intake header (Liberty, No. 8175).
400	do	do	Intake header water inlet (Liberty, No. 8526).
200	do	do	Intake header water outlet (Liberty No. 158).

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
200	Each	Gaskets	Camshaft drive shaft housing (Liberty No. 8130).
150	do	do	Camshaft front cover (Liberty No. 160).
200	do	do	Water pump cover (Liberty, No. 8215).
400	do	do	Cylinder to crank case (Liberty No. 12346).
200	do	do	Carburetor (Curtiss No. 284).
400	do	do	Intake header (Curtiss No. 8175).
400	do	do	Intake header, water inlet (Liberty No. 8226).
200	do	do	Intake header, water outlet (Liberty No. 158).
200	do	do	Camshaft, drive shaft, housing (Liberty No. 8130).
150	do	do	Camshaft, front cover (Liberty No. 160).
400	do	do	Intake manifold (Liberty No. 163).
200	do	do	Exhaust flange (Liberty No. 8176).
750	do	do	Curtiss, intake, No. 3499.
600	do	do	Curtiss, exhaust, No. 40488.
2,000	do	do	Water (Curtiss, No. 42522).
5,000	do	do	Copper, 1/2-inch.
5,000	do	do	Copper, 1/4-inch.
10,000	Gallons	Gasoline	High test.
10,000	do	do	Low test.
894	Each	Gauges	Feeler.
143	do	do	Piston slot.
6	do	Gear	Crankshaft (Curtiss No. 41198).
6	do	do	Idler (Curtiss No. 019).
30	do	do	Camshaft (Curtiss No. 40118).
4	do	do	Distributor for D-81 (Berling magneto No. 40845).
30	do	Gems	Grease.
11	do	Generators, assembly	Liberty No. 8245.
200	Pounds	Glue	Flake.
50	do	Graphite	Dixon's.
200	do	Grease	Graphite.
20	Each	Grinders	Valve, electric.
40	do	do	Valve, hand.
30	do	Gusrd	Dust (Berling).
22	do	Guns	Air, cleaning.
69	do	Hack saw frames	Soft.
114	do	Hammers	Ball-peen, 24-ounce.
86	do	do	Ball-peen, 12-ounce.
1,192	do	do	Sump (Curtiss No. 41839).
20	do	Hand indicator	File.
600	Each	Handles	Hammer, ball-peen, 16-ounce.
822	do	do	Hammer, ball-peen, 24-ounce.
200	do	do	Radiator, 1/2-inch.
200	Feet	Hose	Radiator, 1-inch.
300	do	do	Radiator, 1 1/2-inch.
300	do	do	Radiator, 1 1/2-inch.
300	do	do	Radiator, 1 1/2-inch.
300	do	do	Radiator, 2-inch.
300	do	do	Rubber, 1/2-inch.
500	do	do	Rubber, 1/4-inch.
150	do	do	Rubber, 2-inch.
400	do	do	Rubber, 1 1/2-inch.
150	do	Hose connections	Curtiss (intake manifold No. 3151).
75	do	do	Water pump to elbow (Curtiss No. 41420).
75	do	do	Elbow to manifold (Curtiss No. 41422).
20	do	Housing cover	Interrupter, molded cover assembly (Berling).
75	do	Housing cam	Berling.
30	do	Impeller	Water pump (Curtiss No. 050).
15	do	Index	Distributor block terminal (Berling).
75	do	Insulator	Interrupter block (Berling).
6	do	Interrupter block	Anticlockwise (Berling).
6	do	do	Clockwise (Berling).
20	do	Interrupter	Do.
1,000	Square feet	Iron	Galvanized, No. 26 gauge.
100	Each	Irons	Soldering, large.
100	do	do	Soldering, small.
28	do	Jig	Alignment, connecting-rod.
20	do	Keys	Magneto cam (Dixie).
20	do	do	Magneto pinion (Berling).
80	do	do	Propeller hub (Curtiss No. 41738).
75	do	do	Valve spring collar (Liberty No. 8024).
30	do	Lead	Primary (Dixie).
200	Pounds	do	Sheet, 1/4-inch.
10	Each	Levels	Stanley, 30-inch.
19	do	do	Draw, 15-inch.
75	do	Lever	Interrupter (Berling).

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
30	Each	Lock screw	Cam-shaft bearing (Liberty No. 8101).
4	do.	Magnetos	Berling.
4	do.	do.	Bosch.
4	do.	do.	Dixie.
30	do.	Motors.	Curtiss OX-5.
30	do.	do.	Hispano, model I.
30	do.	do.	Hispano, model E.
30	do.	do.	Liberty 12.
30	do.	do.	Le Rhone 80.
75	Pounds	Nails	Cigar box, $\frac{1}{2}$ by 18 inches.
200	do.	do.	8d wire.
200	do.	do.	10d wire.
200	do.	do.	16d wire.
200	do.	do.	20d wire.
2,000	Each	Nuts	Castellated, $\frac{1}{2}$ -inch.
2,000	do.	do.	Castellated, $\frac{3}{4}$ -inch.
4,000	do.	do.	Hexagon, castellated, $\frac{1}{2}$ -inch.
4,000	do.	do.	Hexagon, castellated, $\frac{3}{4}$ -inch.
4,000	do.	do.	Hexagon, castellated, $\frac{1}{2}$ -inch.
75	do.	do.	Cam shaft, rocker lever tappet (Liberty No. 102).
1,500	do.	do.	$\frac{1}{2}$ by 24 inch thread (Liberty No. 102).
400	do.	do.	$\frac{1}{2}$ by 24 inch thread (Liberty No. 101).
800	do.	do.	$\frac{1}{2}$ by 24 inch thread (Liberty No. 167).
500	do.	do.	$\frac{1}{2}$ by 24 inch thread (Liberty No. 13220).
500	do.	do.	$\frac{1}{2}$ by 20 inch thread (Liberty No. 12251.)
500	do.	do.	$\frac{1}{2}$ by 20 inch thread (Liberty No. 106.)
600	do.	do.	$\frac{1}{2}$ by 24 inch thread (Liberty No. 8224).
600	do.	do.	$\frac{1}{2}$ by 24 inch thread (Liberty No. 103).
300	do.	do.	Stud (Hispano No. A-11305A), exhaust.
10	do.	do.	Propeller hub (Hispano No. A-10541A).
20	do.	do.	Lock propeller hub (Hispano No. A-E-798A).
200	do.	do.	Cam-shaft bearing (Hispano No. A-11302A).
200	Each	do.	Hispano No. A-11303.
75	do.	do.	Hispano No. A-11304.
75	do.	do.	Crank shaft bearing stud (Hispano No. A-T-1019A).
75	do.	do.	Water pump impeller (Curtiss No. K-446).
15	do.	do.	Water pump packing, large (Curtiss No. 41649).
15	do.	do.	Water pump packing, small (Curtiss No. 41674).
15	do.	do.	Crank shaft (Curtiss, thrust-bearing No. 3385).
750	do.	do.	Main bearing stud (Curtiss No. K-42).
75	do.	do.	Terminals for ground stud (Dixie magneto No. 8024).
30	do.	do.	Magneto shaft, slotted (Dixie No. 2918).
75	do.	do.	Magneto shaft (Berling).
32	do.	Oil.	Bath, piston.
200	Gallons	do.	Castor.
25	do.	do.	Linseed.
1,000	do.	do.	Lubricating, specification No. 3501.
1	Gross	do.	Bottles, 3-in-1.
473	Each	Oilers	$\frac{1}{2}$ pint.
150	Balls	Packing	Candle wick.
100	Pounds	do.	Water pump, graphite.
10	Yards	do.	Asbestos, sheet, $\frac{1}{2}$ inch.
200	Each	Pails	Water, medium.
100	Pounds	Paper	Manila.
2,000	Square foot.	do.	Gasket.
15	Each	Pencil	Distributor, for air gas pipe (Berling).
30	do.	Pins	Piston (Liberty No. 13133).
20	do.	do.	Piston (Hispano No. 11671).
100	do.	do.	Piston (Curtiss No. 41762).
50	do.	do.	Piston, oversize (Curtiss).
5,000	do.	do.	Cotter, $\frac{1}{2}$ by $\frac{1}{2}$ inches.
10,000	do.	do.	Cotter, $\frac{3}{8}$ by $\frac{1}{2}$ inches.
10,000	do.	do.	Cotter, $\frac{1}{2}$ by 1 inch.
10,000	do.	do.	Cotter, $\frac{3}{8}$ by $\frac{1}{2}$ inch.
10,000	do.	do.	Cotter, $\frac{1}{2}$ by 1 inch.
10,000	do.	do.	Cotter, $\frac{3}{8}$ by 1 inch.
6	do.	Pinions	For D-81 (Berling).
15	do.	Pipe	Oil-pump outlet assembly (Curtiss No. 41888).
15	do.	do.	Oil-pump inlet assembly (Curtiss No. K158).
30	do.	do.	Intake manifold, upper, left hand (Curtiss No. 3433).
30	do.	do.	Intake manifold, upper, right hand (Curtiss No. 40373).
30	do.	do.	Intermediate, intake manifold, left hand (Curtiss No. 40326).

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
30	Each	Pipe	Intermediate, intake manifold, right hand (Curtiss No. 40325).
30	do	do	Assembly, lower, intake manifold (Curtiss No. 41662).
124	do	Pistons	Ring removed.
25	do	do	Liberty, No. 13148.
25	do	do	Hispano, No. 10341.
50	do	do	Curtiss, No. 41759.
150	do	do	Pin lock.
75	do	Plate	Bearing-cap gasket (Curtiss, No. 2888).
1,233	do	Pliers	Combination, 8-inch.
1,191	do	do	Combination, 6-inch.
750	do	Plugs	Spark (Liberty, No. 8091).
175	do	do	Spark (Curtiss).
75	do	do	Crank case (Hispano, Liberty, and Curtiss).
75	do	do	Crankshaft, large (Curtiss).
75	do	do	Crankshaft, small (Curtiss).
100	do	do	No. 5113, cable terminal assembly (Berling).
100	do	do	No. 5107, cable terminal assembly (Berling).
1,500	do	do	Spark, metric.
100	do	do	Spark, rotary.
25	do	Plum bobs	Mercury.
15	do	Propeller	Hub assembly (Curtiss).
400	Tubea	Prussian blue	
75	Each	Push racks	Intake (Curtiss).
75	do	do	Exhaust (Curtiss).
200	do	Punches	Center drift.
1,500	Pounds	Rags	Washed.
16	Each	Reamers	Valve guide, 4 each.
17	do	do	Connecting rod.
17	do	do	Main bearing.
2	do	do	Line for main bearings, item 33, TA-1204502.
2	do	do	Valve guide (Hispano), item 22, TA-12075-CS, 631.
2	do	do	Valve guide (Hispano), item 23, 629.
5	do	do	Regulator voltage, No. 8542 (Liberty).
40	do	Reseating tool	Valve.
150	do	Retainer	Piston pin (Liberty, No. 12547).
150	do	Rings	Piston (Liberty intermediate, No. 8057).
275	do	do	Piston, top and bottom (Liberty, No. 8055).
75	do	do	Piston (Hispano, No. 594P).
75	do	do	Piston (Hispano, No. 595P).
30	do	do	Piston (Hispano, No. 596P).
400	do	do	Piston.
20	do	do	Clamp (Dixie magneto, No. 8691).
75	do	Rocker arms	Exhaust (Curtiss).
75	do	do	Intake (Curtiss).
20	do	Rods	Connecting (Hispano), inner (Hispano) No. E-10537C.
20	do	do	Connecting (Hispano), outer (Hispano) No. E-10538C.
1,000	Feet	Rope	Manila, 1/4-inch.
1,000	do	do	Manila, 1/2-inch.
1,000	do	do	Manila, 1-inch.
200	Each	Rules	Boxwood, 2-foot.
17	do	Scales	Counter.
75	do	do	10-inch.
36	Sets	Scrapers	Carbon.
176	Each	do	Bearing.
30	do	Screws	Connecting-rod (Hispano, No. AT945A).
75	do	do	Cylinder cover, (Hispano, No. A951A).
300	do	do	Thrust-bearing cover (Curtiss).
130	do	do	Oil-pump cover (Curtiss).
30	do	do	Oil pumps, attaching (Curtiss).
30	do	do	Thrust-bearing case, attaching (Curtiss).
300	do	do	Exhaust, attaching (Curtiss).
150	do	do	Water-pump cover (Curtiss).
6	do	do	Oil assembly, sump (Curtiss).
400	do	do	Gear-case cover, attaching (Curtiss).
300	do	do	Retaining, upper half crank case (Curtiss).
150	do	do	Cam-follower guide (Curtiss).
75	do	do	Breaker-base fastening (Dixie magneto No. 8693).
100	do	do	Bracket (Dixie magneto No. 3251).
75	do	do	For parts Nos. 8697 and 8445 (Dixie magneto, No. 1979).
30	do	do	And washer for primary lead (Dixie No. 3107).
30	do	Screw distributor	Arm-locating bushing (Berling).

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
30	Each	Screw distributor	Adjustable bearing clamp ring (Berling).
25	do	do	Interrupter block mounting (Berling).
75	do	do	Magnet strap (Berling).
30	do	do	Distributor gear mounting (Berling).
30	do	do	Interrupter spring mounting (Berling).
75	do	do	Interrupter platinum contact (Berling).
30	do	do	Interrupter hexagon mounting (Berling).
25	do	do	Magneto-yoke mounting (Berling).
75	do	do	Interrupter contact lock (Berling).
30	do	do	Magneto bearing (Berling).
30	do	do	Magneto armature head (Berling).
75	do	do	Magneto condensed mounting (Berling).
63	do	do	Magneto terminal plug clamp bracket (Berling).
63	Gross	do	Wood, 3 by 1 inch.
63	do	do	Wood, 6 by 1 inch.
63	do	do	Wood, 3 by 1/2 inch.
63	do	do	Wood, 12 by 2 1/2 inches.
2,000	Each	Screws	Cap, S. A. E. 1/2 by 2 inches.
2,000	do	do	Cap, S. A. E. 1/2 by 1 1/2 inches.
2,000	do	do	Cap, S. A. E. 1/2 by 1 inch.
2,000	do	do	Cap, S. A. E. 1/2 by 3/4 inches.
2,000	do	do	Cap, S. A. E. 1/2 by 1 inch.
2,000	do	do	Cap, S. A. E. 1/2 by 1 inch.
2,000	do	do	Cap, S. A. E. 1/2 by 1 inch.
2,000	do	do	Cap, S. A. E. 1/2 by 2 inches.
2,000	do	do	Cap, S. A. E. 1/2 by 1 1/2 inches.
1,000	do	do	Cap, assorted.
1,113	do	Screw drivers	8-inch.
1,922	do	do	6-inch.
210	do	do	Magneto.
75	do	Scribers	
30	do	Set screw	Piston pin (Hispano, A B-962A).
75	do	Shaft	Water-sump drive (Curtiss).
50	Gallons	Shellac	Mixed.
1,500	Each	Shim	Camshaft rocker lever tappet (Liberty No. 8086).
1,500	do	do	Camshaft rocker lever tappet (Liberty No. 8087).
1,500	do	do	Camshaft rocker lever tappet (Liberty No. 8089).
1,100	Pounds	Shim stock	0.002 thick.
100	do	do	0.004 thick.
50	do	do	0.006 thick.
50	Cans	do	Assorted.
500	Pounds	Soap	Soft.
1,000	do	Solder	Bar 50/50.
500	do	do	Wire 50/50.
1,000	Cans	Soldering paste	
40	do	Soldering salts	
6	Box	Spare parts	Delco, No. 12945.
30	Each	do	Complete list, as furnished with engine (Le Rhone). See catalogue.
1	List	do	Le Rhone, "Q" list as shown in catalogue.
500	Pounds	Spelter	Brass wire.
15	Each	Springs	Tester, valve.
25	do	do	Valve, inside (Liberty No. 8253).
15	do	do	Valve, exhaust, outside (Liberty No. 8367).
15	do	do	Valve, inlet, outside (Liberty No. 8254).
30	do	do	Valve, outer (Hispano No. A-9908A).
30	do	do	Valve, inner (Hispano No. A-9909A).
150	do	do	Exhaust valve (Liberty, Hispano, and Curtiss).
150	do	do	Intake valve (Liberty, Hispano, and Curtiss).
15	do	do	Interrupter lever clamp (Berling).
150	do	do	Distributor finger brush (Berling).
75	do	do	Interrupter, platinum contact (Berling).
30	do	do	Ground brush (Berling).
50	do	Squares	Bevel protractors, 8-inch.
75	do	do	With sliding scale, 4-inch.
7	do	Stands	Motor torque.
30	do	do	Motor test.
30	do	do	Motor overhaul (Hispano).
30	do	do	Motor overhaul (Liberty).
30	do	do	Motor overhaul (Le Rhone).
30	do	do	Motor overhaul (Curtiss, OX-5, item No. 21).
75	do	Studs	Hispano No. AT-949A.
75	do	do	Idler Gear (Curtiss).
150	do	do	Carburetor attaching (Curtiss).
75	do	do	Hispano No. AT-955A.
75	do	do	Cylinder, long (Curtiss).
150	do	do	Intake, short.

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
150	Each	Studs	Intake, long.
30	do	do	Distributor block (Berling), upper.
30	do	do	Distributor block (Berling), lower.
150	do	do	Main bearing (Curtiss), short.
150	do	do	Main bearing (Curtiss), long.
5	do	Switch	Ignition (Liberty No. 8408).
46	do	Tachometers	
6	do	Tanks	Gasoline, portable (Bowser).
6	do	do	Oil, portable (Bowser).
43	do	do	Galvanized iron, 50 gallons.
1,000	Pounds	Tape	Friction, $\frac{1}{8}$ -inch.
500	do	do	Rubber, $\frac{1}{8}$ -inch.
20	Each	Tapes	Steel, 50-foot.
75	do	Tappets	Camshaft, rocker lever (Liberty No. 8085).
15	do	do	Valve (Hispano No. A-9615A).
150	do	do	Exhaust (Hispano).
150	do	do	Intake.
15	do	Test block	Cylinder.
40	do	Thermometers	Distance.
50	do	do	Pipe.
15	do	Thumb plug	Assembly, sump (Curtiss).
20	do	Timing disks	With protractors.
30	Sets	Tools	Le Rhone, regular sets.
6	do	do	Le Rhone, special sets.
20	Each	Tool kits	Complete (Liberty).
16	do	Tool sets	Motor (Hispano).
8	do	do	Motor (Liberty).
8	do	do	Motor (Le Rhone).
8	do	do	Motor (Curtiss OX-5).
100	do	Torches	Blow, 1 quart.
50	do	do	Brazing.
600	Feet	Tubing	Copper, $\frac{1}{2}$ -inch.
600	do	do	Copper, $\frac{3}{4}$ -inch.
600	do	do	Copper, 1-inch.
600	do	do	Copper, $\frac{1}{2}$ -inch.
15	Each	Valve	Active, No. 1 (Curtiss).
15	do	do	Active, No. 2 (Curtiss).
30	do	do	Active, Nos. 3 and 4 (Curtiss).
15	do	do	Active, No. 6 (Curtiss).
15	do	do	Active, No. 7 (Curtiss).
15	do	do	Active, No. 8 (Curtiss).
200	do	do	Exhaust (Curtiss).
150	do	do	Intake (Curtiss).
30	do	do	Liberty No. 8021.
15	do	do	Inlet (Hispano No. 10963).
20	do	do	Exhaust (Hispano No. 10964).
200	Pounds	Valve grinding compound	Fine.
200	do	do	Medium.
15	Each	Valve guide	Exhaust (Hispano No. A-11279A).
15	do	do	Inlet (Hispano No. A-10484A).
57	do	Valve spring	Compressor.
75	do	Valve stem guide	Exhaust (Liberty No. 8025).
75	do	do	Inlet (Liberty No. 8026).
50	do	Vises	4 $\frac{1}{2}$ inch (Prentiss).
50	do	do	2 inch (Prentiss).
200	Pounds	Vitriol	Blue.
10,000	Each	Washer	Lock, $\frac{1}{8}$ inch.
10,000	do	do	Lock, $\frac{1}{4}$ inch.
10,000	do	do	Lock, $\frac{3}{8}$ inch.
10,000	do	do	Lock, $\frac{1}{2}$ inch.
6,000	do	do	Flat, $\frac{1}{8}$ inch.
6,000	do	do	Flat, $\frac{1}{4}$ inch.
6,000	do	do	Flat, $\frac{3}{8}$ inch.
6,000	do	do	Flat, $\frac{1}{2}$ inch.
10,000	do	do	Lock, $\frac{1}{8}$ inch.
10,000	do	do	Lock, $\frac{1}{4}$ inch.
15	do	do	Valve, tappet (Hispano, No. A-9616A).
15	do	do	Valve, spring (Hispano No. A-9617A).
2,000	Pounds	Waste	Cotton.
20	Each	Winding	High tension (Dixie No. 9017).
150	do	Wire	Lock propeller hub (Curtiss).
75	do	do	Lock nut, crank shaft (Curtiss).
20	Dozen spool	do	Copper, 20-gauge.
200	Pounds	do	Annealed iron, 20-gauge.
100	do	do	Soft tinned, iron.

Notes for basic table of allowances, Air Service—Continued.

NOTE 74—Continued.

MOTOR OVERHAUL EQUIPMENT, TRAINING, ENLISTED MECHANIC—Continued.

Number.	Unit.	Name.	Description.
500	Pounds...	Wire.....	Hand drawn, steel, No. 10 (B. & S.)
5,000	do.....	do.....	Hand drawn, steel, No. 12 (B. & S.)
5,000	do.....	do.....	Hand drawn, steel, No. 14 (B. & S.)
250	do.....	Wool.....	Steel, No. 0.
98	Each.....	Wrenches.....	Automobile, 12 inches.
1,254	do.....	do.....	Double end, $\frac{1}{2}$ by $\frac{1}{4}$ inch.
1,254	do.....	do.....	Double end, $\frac{3}{4}$ by $\frac{1}{4}$ inch.
491	do.....	do.....	Double end, $\frac{1}{2}$ by $\frac{3}{8}$ inch.
491	do.....	do.....	Double end, $\frac{3}{4}$ by $\frac{3}{8}$ inch.
630	do.....	do.....	Magneto.
423	do.....	do.....	Carborated socket.
92	do.....	do.....	Crescent, 10 inches.
1,254	do.....	do.....	Crescent, 8 inches.
1,254	do.....	do.....	Crescent, 6 inches.
48	do.....	do.....	Monkey (Cox, 22 inches).
36	do.....	do.....	Spark plug.
36	do.....	do.....	Double socket, $\frac{1}{2}$ by $\frac{1}{4}$ inch.
36	do.....	do.....	Double socket, $\frac{3}{4}$ by $\frac{1}{4}$ inch.
75	do.....	Yoke.....	Intake, push rod (Curtis).
15	do.....	do.....	Magneto assembly (Berling).
500	Pounds...	Zinc.....	Sheet, 18-gauge.

NOTE 75.

PHOTOGRAPHIC EQUIPMENT AND SUPPLIES FOR ONE SCHOOL OF AERIAL PHOTOGRAPHY.

[100 students.]

No.	Item.	Quantity.
EQUIPMENT.		
1	Aprons, dark room.....	60
2	Bottles, quart, glass-stoppered.....	100
3	Bottles, gallon, glass-stoppered.....	100
4	Boards, drawing, 31 by 42 inches.....	20
5	Boxes, for lantern slides.....	5
6	Cases, developing and adapters for 8 by 10 inch Eastman plate tank.....	50
7	Cloth, focusing.....	6
8	Cutter, diamond, glass.....	2
9	Clips, photo, metal, $\frac{1}{2}$ inches wide.....	3
10	Crocks, earthenware, 5-gallon, with cover.....	5
11	Crocks, earthenware, 12-gallon, with cover.....	5
12	Desks, retouching, 8 by 10 inches.....	10
13	Fans, electric, nonoscillating, 110-volt, 16-inch.....	5
14	Funnels, enamel, 16-ounce.....	12
15	Glass, focusing.....	8
16	Glass, magnifying, 3-inch.....	60
17	Graduates, 32-ounce.....	10
18	Graduates, 8-ounce.....	12
19	Hydrometer, photo.....	10
20	Instruments, drawing, set.....	10
21	Knives, double edge, shoemaker.....	2
22	Lantern, stereoptican, complete.....	1
	Screen for above.....	1
	Bulbs, extra, 500 Watt for above.....	5
23	Lantern, Wraton safelight.....	45
	Safelight for No. 0.....	25
	Safelight for No. 2.....	25
	Safelight for No. 3.....	20
	Lantern, dark-room, indirect ceiling lights.....	20
24	Lamps, gasoline stove.....	5
25	Lamps, electric bulbs for printer booths, etc., 25-watt, 110-volt.....	50
26	Lamps, torches, soldering, 1-quart size.....	2
27	Soldering iron, 1-pound.....	2
	Wire solder, lbs.....	3
28	Machine, film developing, fixing and drying.....	2
29	Machine, bromide paper printing (with bulbs) for plates.....	15
30	Mortar and pestle, 16-ounce.....	6
31	Pans, stew, for heating chemicals, 2-quart size.....	6
32	Pans, stew, for heating chemicals, 1-gallon size.....	6
33	Plates, ferrotype, large, heavy.....	100
34	Protractor, celluloid, 6-inch.....	10
35	Racks, core developing, 18 by 24 cm.....	300

Notes for basic table of allowances, Air Service—Continued.

NOTE 75—Continued.

PHOTOGRAPHIC EQUIPMENT AND SUPPLIES FOR ONE SCHOOL OF AERIAL PHOTOGRAPHY—Continued.

No.	Item.	Quantity.
EQUIPMENT—continued.		
36	Racks, plate drying.....	20
37	Refills for Ever-ready torches.....	10
38	Rods, stirring, hard rubber, dozen.....	4
39	Roller, print, professional, 10-inch.....	20
40	Rules, 1 yard stick.....	20
41	Rules, 1 foot.....	25
42	Scales, soda, 5-pound.....	6
43	Scales, studio.....	12
44	Shears, 10-inch, pair.....	10
45	Squeegees, rubber, 8-inch.....	20
45	Stereoscopes, Richard, 18 by 24 cm.....	5
47	Stereoscopes, Richard, printing desk, 18 by 24 cm.....	5
48	Tanks, enameled, developing, fixing, for 18 by 24 cm., plates.....	75
49	Tanks, Eastman, developing, fixing, for 18 by 24 cm. plates.....	25
50	T square, 42-inch.....	20
51	Timers, clock, dark room.....	45
52	Torches, Ever-ready electric, 3-inch reflector.....	5
53	Trays, enameled, 10 by 12 inches.....	100
54	Trays, enameled, 11 by 14 inches.....	35
55	Trays, enameled, 21 by 25 inches.....	10
56	Thermometers, photo.....	50
57	Triangles, celluloid, 45D, 8-inch.....	20
58	Triangles, celluloid, 60D, 10-inch.....	20
59	Tubing, white rubber $\frac{1}{4}$ by $\frac{1}{2}$ unit foot.....	50
60	Trimmers, print, 10-inch.....	15
61	Trimmers, print, 24-inch.....	3
SUPPLIES, ONE MONTH.		
1	Album, photo, for 18 by 24 cm. prints.....	10
2	Books, receipt, for photos delivered.....	5
3	Binding strips, lantern slide, pkg.....	100
4	Brushes, sable water color (sets of 5).....	10
5	Brushes, bristle, for paste and paint, 2-inch.....	12
6	Brushes, camels' hair, dusters, 3-inch.....	25
7	Brushes, wire bristle for cleaning tanks, etc.....	10
8	Candles, carriage, dozen.....	5
9	Cardboard, white, mounting, 27 by 40 inches.....	100
10	Cardboard, white, mounting, 19 by 24 inches.....	200
11	Cloth, tracing, 42-inch rolls.....	10
12	Cloth, oil, 42-inch rolls.....	5
13	Cloth, cheese, bolts.....	3
14	Cloth, Ruby, 5-yard rolls.....	2
15	Cloth, orange, 5-yard rolls.....	2
16	Colors, water, boxes of.....	10
17	Chamois skins.....	50
18	Cotton, absorbent, pounds.....	50
19	Corks, assorted, dozen.....	5
20	Envelopes, manila, for mailing prints, 8 by 10 inches.....	500
21	Envelopes, negative preservers, 8 by 10 inches.....	500
22	Envelopes, negative preservers, 18 by 24 cm.....	500
23	Envelopes, negative preservers, 4 by 5 inch.....	500
24	Envelopes, negative preservers, 18 by 22 inches.....	100
25	Erasers, art gum.....	20
26	Filters, Aero No. 1, gelatine, 3 inches square.....	10
27	Filters, Aero No. 2, gelatine, 3 inches square.....	10
28	Glue, tubes.....	25
29	Gloves, rubber, pair.....	5
30	Ink, black, drawing, 1-ounce bottles.....	50
31	Ink, assorted colors, sets of 6.....	20
32	Labels, gummed, box of 100.....	5
33	Opaque (Gihons), cakes.....	10
34	Pins, push, glass, gross.....	3
35	Pens, drawing, assorted, dozen.....	10
36	Paper, blotting, 18 by 24 inch, gross.....	3
37	Paper, drawing, canvas back, 42 inch, 10-yard rolls.....	20
38	Paper, drawing, white, 42-inch, 10-yard rolls.....	20
39	Paper, tracing, 42-inch, 10-yard rolls.....	10
40	Pencils, crayon grease, black, dozen.....	10
41	Pencils, drawing.....dozen.....	5
42	Pencils, lead, retouching, sets of 7.....	10
43	Pencils, crayon, assorted colors, sets of 7.....	10
44	Plates, lantern slide cover glass.....cases.....	1
45	Spots, thumb, white, for lantern slides.....boxes.....	2
46	Soldering paste, cans, 1 ounce.....	5

Notes for basic table of allowances, Air Service—Continued.

NOTE 75—Continued.

PHOTOGRAPHIC EQUIPMENT AND SUPPLIES FOR ONE SCHOOL OF AERIAL PHOTOGRAPHY—Continued.

No.	Item.	Quantity.
SUPPLIES, ONE MONTH—Continued.		
47	Wire solder.....	pounds 3
48	Tacks, thumb, metal, boxes.....	gross 5
49	Towels, coarse.....	dozen 20
50	Towels, paper.....	gross 20
51	Tubes, mailing.....	do 100
SENSITIZED MATERIALS.		
1	Film, Eastman process, 8 by 10 inches.....	gross 5
2	Film, United States aviation, rolls for 18 by 24 cm. K-1 camera.....	do 30
3	Film, United States aviation, rolls 6 inches by 18 feet, G. E. M.....	do 30
4	Film, packs, 4 by 5 inches, Eastman.....	dozen 5
5	Plates, United States aviation, orthochromatic, 18 by 24 cm.....	cases 20
6	Plates, seed, 26 by 18 by 22 inches.....	do 4
7	Plates, lantern slide.....	do 2
8	Plates, lantern slide cover glass, cases.....	do 2
9	Paper, United States aviation bromide, normal, 18 by 24 cm.....	gross 100
10	Paper, United States aviation bromide, contrast, 18 by 24 cm.....	do 80
11	Paper, United States aviation bromide, normal, 18 by 22 inches.....	do 18
12	Paper, United States aviation bromide, contrast, 18 by 22 inches.....	do 5
CHEMICALS.		
1	Acid, acetic No. 8 commercial, 5-pound bottles.....	do 20
2	Acid, hydrochloric, C. P., 1-pound bottles.....	do 5
3	Acid, pyrogallic, crystals, 1-pound bottles.....	do 20
4	Acid, sulphuric, 1-pound bottles.....	do 10
5	Alcohol, industrial spirits, 5-gallon cans.....	do 25
6	Alum, powdered, white, 1-pound bottles.....	do 50
7	Alum, chroma, 1-pound bottles.....	do 25
8	Ammonium per sulphate, 1-ounce bottles.....	do 15
9	Formaldehyde, 1-pound bottles.....	do 25
10	Gum arabic, in tears, 1-pound bottles.....	do 10
11	Hydroquinon, 1-pound bottles.....	do 50
12	Mercury, bichloride, 1-ounce bottles.....	do 10
13	Methol, 1-pound bottles.....	do 75
14	Potassium bromide, granulated, 1-pound bottles.....	do 40
15	Potassium ferricyanide, 1-pound bottles.....	do 10
16	Potassium iodide, 1-pound bottles.....	do 3
17	Potassium permanganate, 1-pound bottles.....	do 5
18	Paste, photo, 1-pound jars.....	do 20
19	Sodium bisulphate, granular, 1-pound bottles.....	do 20
20	Sodium carbonate, desiccated, 5-pound cans.....	do 100
21	Sodium hydroxide, sticks, 4-ounce bottles.....	do 10
22	Sodium hyposulphite, 100-pound kegs.....	do 25
23	Sodium sulphite, desiccated, 5-pound cans.....	do 70
24	Varnish, black Matte, 8-ounce bottles.....	do 5
25	Varnish, asphaltum, 1-pound bottles.....	do 3
CAMERA EQUIPMENT OTHER THAN AERIAL CAMERAS.		
1	Camera, Graflex, 4 by 5 inches, with lens, complete with.....	do 6
2	Carrying case.....	do 1
3	Film pack adapters.....	do 3
1	Camera, view, 8 by 10 inches, complete with.....	do 5
2	Carrying case.....	do 1
3	Holders, plate, 8 by 10 inches, fitted to take 18 by 24 cm. plates.....	do 12
4	Kits, plate holder, 18 by 24 to 3 by 4 inches.....	do 24
5	Lens, 12 inches, with shutter.....	do 1
6	Lens, with angle.....	do 1
7	Triped.....	do 1
8	Camera, enlarging, 5 by 7 inches, complete with lens and condensers.....	do 3
9	Camera, enlarging, 18 by 24 cm. complete with lights and easel.....	do 3
10	Camera, copying, 8 by 10 inches, complete with lens, including 1 combination bromide paper and plate holder and full sets of kits and stand.....	do 5
11	Camera, copying, 18 by 22 inches, complete with stand and lens.....	do 1

Notes for basic table of allowances, Air Service—Continued.

NOTE 76.

EQUIPMENT FOR RADIO TRAINING SCHOOL.

(To graduate 100 per 3 months.)

	Quantity
Airfans, type FA-4, for SCR-73.....	15
Airfans, type FA-3.....	20
Airfans, type FA-7.....	5
Airfans, type FA-9.....	5
Ammeter, direct-current, 0-50 amperes.....	1
Ammeter, direct-current, 0-25 amperes.....	1
Ammeter, direct-current, 0-2-10 amperes.....	2
Ammeter, direct-current, 0-1 ampere.....	2
Ammeter, direct-current, 0-500 milliamperes.....	2
Ammeter, direct-current, 0-150 milliamperes.....	2
Ammeter, direct-current, 0-10,000 microamperes.....	2
Ammeter, type 1-11, 0-5 ampere.....	10
Ammeter, type 1-12, 0-1 ampere, hot-wire.....	10
Ammeter, hot-wire, 0-20 amperes.....	1
Ammeter, hot-wire, 0-5 amperes.....	2
Ammeter, hot-wire, 0-3 amperes (General Radio, model 127).....	6
Ammeter, hot-wire, 0-1 ampere (General Radio, model 127).....	10
Ammeter, hot-wire, 0-0.5 ampere (General Radio, model 127).....	5
Ammeter, alternating current, 0-25 amperes.....	1
Ammeter, alternating current, 0-5 amperes.....	1
Amplifier, Navy, type CW-926.....	1
Amplifier, Magnavox.....	2
Antennas, phantom, type A-4 or 147-D.....	6
Antennas, phantom, type A-50.....	2
Antennas, phantom, type A-51.....	6
Acid, sulphuric, for lead storage batteries, gallons.....	5
Batteries, dry, for Perry Blinker sets.....	150
Batteries, dry, type BA-2.....	500
Batteries, dry, type BA-3.....	1,000
Batteries, dry, type BA-10 (reserve cell).....	50
Batteries, Edison, primary cell, type BA-14.....	5
Batteries, type BB-1, storage, Edison, 10-volt.....	10
Batteries, type BB-2, storage, Edison, 4-volt.....	10
Batteries, type BB-4, storage, Edison, 4-volt.....	100
Batteries, type BB-5, storage, Edison, 7½-volt.....	20
Batteries, type BB-11, lead, 8-volt.....	10
Batteries, type BB-14, storage, lead, 4-volt.....	20
Batteries, storage, lead, 6-volt.....	8
Batteries, type 2 XAW, Exide, 4-volt.....	20
Bushings, BU-1, for SCR-73.....	15
Blinkers, Perry, type CA P-67.....	75
Bakelite, sheets, ½, ¾, and 1 inch.....	6
Bakelite, rod, ¾ and 1 inch..... feet.....	48
Blocks, distributing, BL-1, for SCR-73.....	15
Boards, model, No. 328-W, transmitter, type P-1, airplane.....	2
Boards, model, No. 58-A, head set, type BS-1, airplane.....	2
Boards, model, set box, type BC-11, SCR-68.....	2
Boards, model, generator, type GN-1 and filter, type F1-1, SCR-68.....	2
Boards, model, set box, type BC-12, SCR-59.....	2
Boards, model, set box, type BC-13, SCR-67.....	2
Boards, model, power board, type BD-1, SCR-67.....	2
Boards, model, set box, type BC-20, SCR-75.....	2
Boards, model, set box, type BC-10, SCR-57, with cords and head sets, complete.....	2
Buzzer units, school instruction.....	15
Buzzer, century.....	10
Coils, spark.....	15
Coils, variable inductance, 0-1 MH, General Radio, type 111-C.....	1
Coils, variable inductance, 0-10 MH, General Radio, type 111-B.....	1
Coils, honeycomb, DeForest, assorted.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 76—Continued.

EQUIPMENT FOR RADIO TRAINING SCHOOL—Continued.

	Quantity.
Coils, type C-2.....	20
Coils, type C-9.....	10
Coils, type C-10.....	20
Condensers, Murdock, molded, 0-0.0017 mf.....	25
Condensers, 2 mf.....	20
Condensers, 1 mf.....	10
Condensers, ½ mf.....	10
Condensers, variable, General Radio, type 107-D.....	4
Condensers, air, variable, assorted ranges.....	10
Condensers, type CA-6.....	20
Condensers, type CA-7.....	10
Condensers, type CA-8.....	10
Condensers, type CA-9.....	20
Condensers, type CA-20.....	10
Condensers, type CA-21.....	10
Condensers, type CA-22.....	10
Condensers, type CA-23.....	10
Condensers, type CA-24.....	10
Couplers, loose, Murdock.....	2
Crystals, detector, carborundum.....	50
Crystals, detector, silicon.....	50
Decremeters, holster, type D, SCR-87.....	2
Detector holders, crystal.....	10
Drums, antenna, type DH-2.....	100
Dynamotors, type DM-1.....	6
Dynamotors, type DM-2.....	2
Dynamotors, type DM-6.....	2
Electrolyte, for Edison storage batteries, pounds.....	30
Equipments, antenna, type A-1, or equivalent.....	5
Equipments, antenna, type A-9.....	10
Equipments, antenna, type A-21.....	10
Equipments, meter, type ME-1, in leather case.....	5
Fairleads, type F-1.....	15
Fairleads, type F-5, high-tension, or equivalent.....	10
Flag kits, type M-28, for visual signaling.....	2
Gaps, spark, Murdock.....	4
Gaps, spark, quenched.....	2
Generators, type GN-1 or GN-2.....	25
Generators, type GN-4, for SCR-73, including the following.....	15
Condensers, type CA-3.....	15
Casings, type C8-1.....	15
Sets, electrodes, type ET-1 to ET-6, inclusive.....	15
Transformers, type ID-3.....	15
Transformers, type TF-1.....	15
Terminals, type TM-4.....	15
Head sets, type P-1, Baldwin.....	20
Head sets, type P-11, telephone.....	25
Head sets, type HS-1, airplane telephone.....	100
Inductance, standard, 1.0 M. H., General Radio, type 106-C.....	1
Inductance, standard, 0.2 M. H., General Radio, type 106-B.....	1
Inductance, sliding, assorted.....	6
Inductors, variable, 0.008 to 0.04 M. H., General Radio, type 107-C.....	2
Inductors, variable, 0.12 to 6.0 M. H., General Radio, type 107-D.....	2
Inductors, variable, 0.4 to 20.0 M. H., General Radio, type 107-E.....	2
Insulators, ball, electrose.....	100
Insulators, strain, electrose, 8-inch.....	25
Insulators, strain, electrose, 4-inch.....	25
Insulators, lead-in, large.....	6
Keys, type J-6, for SCR-65 (airplane, old type).....	100
Keys, airplane, type J-7.....	50
Lamps, Perry Blinker, extra.....	25
Lamps, I.M-1.....	100

Notes for basic table of allowances, Air Service—Continued.

NOTE 76—Continued.

EQUIPMENT FOR RADIO TRAINING SCHOOL—Continued.

	Quantity.
Lamps, LM-2.....	100
Loud speaker, Navy type.....	1
Loud speaker, Magnavox, complete, less amplifiers.....	2
Meters, audibility, General Radio, type 122, 1-8,000.....	4
Mountings, for generator, GN-1 (3 for type JN-1, 3 for DH-4).....	6
Mountings, for generator, GN-2 (3 for type JN-1, 3 for DH-4).....	6
Mountings, for generator, GN-4.....	6
Motors, type MO-1.....	2
Motors, $\frac{1}{2}$ H. P., 110-volt, alternating current.....	2
Motors, 1 H. P., 220-volt, alternating current.....	1
Motors, 3 H. P., 220-volt, alternating current.....	2
Motors, $\frac{1}{2}$ H. P., 110-volt, alternating current.....	1
Motors, watchmakers', 110-volt, 3-phase.....	2
Motor generator, 110-volt, for battery charging.....	1
Motor generator, $\frac{1}{2}$ kilowatt, 500-cycle (alternating current 110-volt motor).....	1
Omnigraphs, Morse.....	4
Panels, identification, white, 4 meters square.....	10
Pantheons, miniature.....	4
Pantheons, service, black and white.....	1
Pantheons, service, tan and white.....	1
Power boards, type BD-1, for SCR-67.....	10
Registers, Morse, Foote, Pierson & Co.....	4
Reels, aero inspection.....	6
Reels, antenna, type RL-2.....	50
Relays, telegraph.....	5
Relays, type SW-22.....	10
Resistances, fixed, 500 ohm.....	6
Resistances, variable, German silver, assorted sizes.....	8
Resistances, carbon, variable.....	2
Resistances, variable, graphite.....	6
Resistances, type R8-1.....	10
Resistances, type R8-2.....	20
Resistances, type R8-3.....	20
Resistances, type R8-4.....	30
Resistances, type R8-5.....	10
Resistances, type R8-14.....	10
Resistances, type R8-16.....	10
Resistances, type R8-17.....	10
Resistances, type R8-18.....	10
Rheostats, field, assorted.....	4
Rheostats, load, assorted.....	6
Rectifiers, Tungar, General Electric.....	2
Set, radio telegraph tractor, 2 kilowatt, SCR-50.....	1
Set boxes, BC-10, airplane interphone, type SCR-57, and cords.....	20
Set boxes, BC-11, and cords, SCR-68.....	20
Set boxes, BC-12, and cords, SCR-59.....	20
Set boxes, BC-13, and cords, SCR-67.....	10
Set boxes, BC-14, and cords, SCR-54.....	20
Set boxes, BC-15, and cords, SCR-65.....	20
Sets, T. P. S., transmitting, type SCR-71 or 76 (set boxes type BC-16 or BC-21) complete.....	6
Set boxes, BC-17 or 44, T. P. S., receiving, type SCR-72 or 72-B.....	10
Set boxes, BC-19, vacuum tube detector, type SCR-55.....	20
Set boxes, BC-20, airplane radio receiving, type SCR-75 (and cords).....	10
Set boxes, C. W. radio receiving, type BC-23 for SCR-70.....	6
Set boxes, C. W. radio telegraph, BC-32 for SCR-79.....	6
Set boxes, BC-34, C. W. radio telegraph transmitting, type SCR-69.....	6
Set, radio telegraph transmitting, table type, $\frac{1}{2}$ kilowatt, 500-cycle.....	1
Set, battery charging, type SCR-66, Delco or equivalent.....	2
Set, ground telephone, type SCR-109, complete.....	2
Set, airplane radio maintenance, type SCR-86 or 86-A.....	2
Set, loop telegraph transmitting and receiving, type SCR-112, complete.....	2
Set, direction-finding radio-receiving, type SCR-83 or 122.....	4

Notes for basic table of equipment, Air Service—Continued.

NOTE B—Continued.

EQUIPMENT FOR HAND TRAINING SCHOOL—Continued.

	Quantity.
Set, radio receiving, long wave, Cohen, type CN-308.....	1
Set, radio-receiving, long wave, Bureau or equivalent.....	1
Set, testing, Leeds or Northrup.....	1
Sockets, 90-2, for VT-1 tubes.....	25
Sockets, 90-2, for VT-2 tubes.....	25
Sounders, telegraph.....	25
Squares, designator, black.....	25
Strips, ground, weighted (3 by 12 feet).....	25
Switchboards, Messenger, type KE-3.....	5
Switchboards, G-strap, Western Union Co.....	2
Switches, S. P. S. T., knife, 15 amperes.....	10
Switches, S. P. D. T., knife, 15 amperes.....	10
Switches, D. P. S. T., knife, 15 amperes.....	10
Switches, D. P. D. T., knife, 15 amperes.....	10
Switches, triple pole, 60 amperes.....	2
Tape, for Morse register, 4-inch.....	rolls 1,000
Telephones, model A, camp, type EE-4 or equivalent.....	20
Transformers, C-8.....	10
Transmitters, airplane, T-1 or T-3.....	25
Truck, radio operating, type SCR-102, complete.....	1
Tubes, type TB-1, regulating.....	100
Tubes, type VT-1, receiving.....	200
Tubes, type VT-2, transmitting.....	200
Twine, type TW-2.....	feet 2,000
Variometers, type Va-1, for SCR-73.....	15
Vaseline, for Edison storage batteries.....	pounds 10
Voltmeters, direct current, 0-200-000 volts.....	2
Voltmeters, direct current, 0-75-150 volts.....	2
Voltmeters, direct current, 0-2.5-10 volts, Westinghouse, type PW.....	2
Voltmeters, direct current, 0-30 volts.....	8
Voltmeters, alternating current, 0-300 volts.....	2
Voltmeters, alternating current, 0-150 volts.....	2
Wavemeters, type SCR-60.....	6
Wavemeters, type SCR-60-C.....	2
Wavemeters, type SCR-61.....	6
Weights, Fish type, WT-1.....	100
Weights, Road type, WT-5.....	200
Wire, antenna, braided, feet, type W-5.....	20,000
Wire, insulated, type W-6.....	feet 200
Wire, annunciator, No. 18, B. & S., type W-7.....	pounds 20
Wire, type W-9, high tension.....	feet 200
Wire, type W-11, 2 conductor No. 14, B. & S.....	feet 200
Wire, twisted lamp cord, No. 10 B. & S., type W-10.....	feet 200
Wire, type W-14, stranded, phosphor bronze.....	do 1,000
Wire, type W-15, twisted lamp cord, No. 20 B. & S.....	do 200
Wire, type W-18, 3-conductor.....	do 200
Wire, type W-18, bare copper, No. 24 B. & S.....	pounds 20
Wire, type W 30, counterpoise.....	feet 2,000
Wire, No. 26 B. & S., double cotton covered, copper.....	pounds 5
Wire, silk covered, copper, No. 20 B. & S.....	do 1
Wire, cable, military, miles or equivalent.....	5
Wire, No. 30 B. & S., magnet, enameled.....	pounds 1
Wire, No. 36 B. & S., magnet, enameled.....	do 1
Wire, No. 40 B. & S., magnet, enameled.....	do 1

TOOL EQUIPMENT.

Bits, expansion, 1 to 3 inch, TL 63, or equivalent.....	2
Blades, back saw, coarse.....	50
Blades, back saw, fine.....	50
Calipers, outside, TL 32, or equivalent.....	2
Chisels, cold, 1/4-inch, TL 47, or equivalent.....	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 76—Continued.

EQUIPMENT FOR RADIO TRAINING SCHOOL—Continued.

TOOL EQUIPMENT—continued.

	Quantity.
Chisels, cold, $\frac{1}{4}$ -inch, TL-48, or equivalent.....	2
Drills, hand, to $\frac{1}{2}$ inch, TL-67, or equivalent.....	2
Files, TL-5, or equivalent.....	2
Files, 4-inch, warding, TL-9, or equivalent.....	2
Files, 6-inch hand, TL-10, or equivalent.....	2
Files, TL-30 (similar to TL-5 but with bent handle).....	2
Flash lights.....	10
Frames, hack-saw, 14-inch.....	3
Hammers, ball peen, 12-ounce, TL-38, or equivalent.....	2
Hammers, claw, 1-pound, TL-30.....	6
Lathes, metal-working, 30-inch bed, TL-73, or equivalent.....	2
Lathes, woodworking.....	2
Lathes, watchmakers'.....	2
Pliers, round-nose, side-cutting, 6-inch, TL-12, or equivalent.....	2
Pliers, side-cutting, 6-inch Utica, TL-13, or equivalent.....	2
Pliers, TL-19, combination, 6-inch.....	2
Pliers, TL-20, combination, 8-inch, or equivalent.....	2
Pliers, TL-24, side-cutting, 4-inch, or equivalent.....	2
Pliers, TL-60, diagonal, 6-inch, or equivalent.....	2
Pliers, TL-62, diagonal, $\frac{3}{4}$ -inch, or equivalent.....	2
Punches, 4-inch, center, TL-40, or equivalent.....	2
Saws, hand, crosscut.....	2
Saws, hand, rip.....	2
Saws, keyhole.....	1
Screw drivers, TL-1, $\frac{3}{4}$ -inch, or equivalent.....	2
Screw drivers, TL-2, 4-inch, or equivalent.....	6
Screw drivers, TL-4, 5-inch, or equivalent.....	2
Screw drivers, TL-23, 7-inch, or equivalent.....	2
Screw drivers, TL-40, $\frac{3}{4}$ -inch, or equivalent.....	2
Screw drivers, TL-44, 1 $\frac{3}{4}$ -inch, or equivalent.....	2
Snips, tinner's, TL-64.....	2
Soldering irons, 1 $\frac{1}{2}$ -pound, TL-45, or equivalent.....	2
Soldering irons, jeweler's, TL-46, or equivalent.....	2
Soldering irons, electric.....	2
Speed indicator, TL-35, or equivalent.....	1
Square, combination bevel and level, TL-31, or equivalent.....	1
Stones, carborundum, TL-3, or equivalent.....	2
Screws, wood, assorted, in gross lots..... gross..	12
Screws, machine, assorted, in gross lots, with nuts and washers..... do.....	12
Tape, friction, TL-83, or equivalent..... pounds..	25
Tap and die sets, TL-59, or equivalent.....	2
Test clips, TL-71, or equivalent.....	6
Tapes, steel, 100-foot.....	2
Tool rolls, type BG-10 (10 tools, assorted), or equivalent.....	6
Tool rolls, type TL-68 (10 files, assorted), or equivalent.....	2
Tool rolls, TL-60, wrenches, open end, etc., or equivalent.....	4
Tool rolls, TL-70 (drills and reamers), or equivalent.....	4
Tool kits, pocket, inspectors, Signal Corps.....	30
Torches, flat, blow, 1 pint, TL-66, or equivalent.....	5
Vises, Yankee, bench.....	4
Wrenches, type TL-6, 3-inch, or equivalent.....	2
Wrenches, type TL-8, 4-inch, or equivalent.....	2
Wrenches, type TL-17, 6-inch, or equivalent.....	2
Wrenches, type TL-51, 6-inch, or equivalent.....	2
Wrenches, type TL-52, 8-inch, or equivalent.....	2
Wrenches, type TL-54, monkey, 6-inch, or equivalent.....	2
Wrenches, type TL-56, Stillson, 14-inch, or equivalent.....	1
Wrenches, type TL-82, alligator, 10-inch, or equivalent.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 76—Continued.

EQUIPMENT FOR RADIO TRAINING SCHOOL—Continued.

EQUIPMENT FOR COMMUNICATION SCHOOL (ADDITIONAL LIST).

	Quantity.
Airplanes (fuselage only) JN-4 or JN-6, with landing gear.....	3
Airplanes (fuselage only), DH-4 or DH-4-B, with landing gear.....	3
Books, field message, Form 217-A, Signal Corps.....	30
Books, "Practical Wireless Telegraphy," Bucher.....	150
Books, "Radio Telegraphy," Signal Corps.....	150
Books, "The Elements of Electricity," Timble.....	50
Books, "The Elements of Wireless Telegraphy," Bangay, Vol. I.....	150
Books, "The Elements of Wireless Telegraphy," Bangay, Vol. II.....	150
Books, "Radio Communication," Mills.....	2
Books, "Wireless Telegraphy," Zenneck.....	2
Books, "Vacuum Tubes, in Wireless Communication," Bucher.....	50
Books, "Radio Telephony," Goldsmith.....	2
Books, "Plane Trigonometry," Wentworth.....	50
Books, "The Principles of Electric Wave Telegraphy," Fleming, 5th ed.....	2
Chronometers.....	10
Cloth, emery, medium, sheets.....	100
Compasses, for laboratory demonstration.....	100
Condensers, Leyden jar, laboratory demonstration, type with coatings and dielectric separable....	10
Funnels, glass, rim, diameter 4 inches.....	6
Graduates, pint, glass.....	9
Ink, for Morse registers.....	pints 2
Iron filings, for laboratory experiment.....	pounds 10
Magnets, bar, 4-inch.....	100
Magnets, horseshoe, 6-inch.....	100
Oscillation transformers, pancake type, 8 inch diameter, with clips.....	20
Paper, sand, medium.....	sheets 100
Paper, drawing.....	do 500
Pencils, drawing.....	200
Resistance, potentiometer, 20 ohms (10 inches long).....	50
Rheostats, small, porcelain base, for filament current regulation.....	50
Shellac, quarts.....	2
Solder, wire, half and half.....	pounds 50
Solder, hard, bar.....	do 25
Staples, insulated, 2-wire, 1/4-inch, Blake.....	1,000
Tape, rubber, insulated.....	pounds 5
Watches, stop.....	10
Trucks, Dodge.....	3

NOTE 77.

SEWING MACHINE, PORTABLE, SINGLE STITCH.

	Quantity.
Sewing machine, Singer 78-1, with combination case and stand, spare needles, 50 each Nos. 19, 21, 22, and 23, and spare parts, as follows: Two No. 145 F screws; one 212 D screw; one 233 D screw; two 691 F screws; one 908 C screw; two 896 E screws; two 8511 thread take-up springs; one 4302 needle bar thread guide; one 1619 F screw; one 37024 lifting pressure bar spring; one 37337 shuttle; one 27354 feeding foot thin material; one 37381 needle plate for large needle; one 37383 needle plate for fine needles; one 37404 tension complete spare bolts.....	1

NOTE 78.

SEWING MACHINE, SINGLE STITCH.

	Quantity.
Sewing machine, Singer, 31-15, with table and stand, 50 each of needles No. 16, 18, 19, 21, and 23. Machine to be motor-drive type, 110-volt direct-current; motor, and belting if necessary, to be furnished and fitted by manufacturer.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 79.

SEWING MACHINE, DOUBLE STITCH.

	Quantity.
Sewing machine, $\frac{3}{8}$ -inch gauge, Singer 112-W110, with table and stand, 1 lap seam folder, 1 edge guide, and 100 assorted needles. Machine to be motor-drive type, 110-volt direct-current; motor, and belting if necessary, to be furnished and fitted by manufacturer.....	1

NOTE 80.

STOCK, METAL, SUPPLY.

	Quantity.
Aluminum sheet, 20-gauge.....	square feet.. 10
Bars, Armstrong, self-hardening steel, $\frac{1}{2}$ inch square.....	2
Bars, Armstrong, self-hardening steel, blades $\frac{1}{4}$ by $\frac{1}{2}$ inch.....	2
Brass sheet, spring, 1 by 15 feet by 0.002 inch.....	piece.. 1
Brass sheet, spring, 1 by 15 feet by 0.008 inch.....	do.. 1
Brass rods, round, size $\frac{1}{2}$ inch.....	feet.. 3
Brass rods, round, size $\frac{3}{4}$ inch.....	do.. 3
Brass rods, round, size 1 inch.....	do.. 3
Brass rods, hexagonal, size $\frac{1}{2}$ inch.....	do.. 3
Brass rods, hexagonal, size $\frac{3}{4}$ inch.....	do.. 3
Bronze, phosphor, round, 1 inch.....	do.. 1
Bronze, phosphor, round, 1 $\frac{1}{2}$ inches.....	do.. 1
Bronze, phosphor, round, 2 inches.....	do.. 1
Drill rod, Crescent, piece, 3 feet by $\frac{1}{8}$ inch $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$	1
Drill rod, Crescent, piece, 3 feet by $\frac{1}{2}$ inch $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$	1
Metal, white, for bearings.....	pounds.. 15
Steel, Bessemer, round, rod, $\frac{1}{4}$ inch.....	feet.. 4
Steel, Bessemer, round, rod, $\frac{3}{8}$ inch.....	do.. 4
Steel, cold rolled, round, rod, $\frac{1}{2}$ inch.....	do.. 4
Steel, cold rolled, round, rod, $\frac{3}{4}$ inch.....	do.. 4
Steel, cold rolled, round, rod, $\frac{1}{2}$ inch.....	do.. 4
Steel, cold rolled, round, rod, $\frac{3}{4}$ inch.....	do.. 4
Steel, cold rolled, round, rod, 1 inch.....	do.. 4
Steel, cold rolled, round, rod, 1 $\frac{1}{2}$ inches.....	do.. 4
Steel, cold rolled, hexagonal, $\frac{1}{2}$ inch.....	do.. 4
Steel, cold rolled, hexagonal, $\frac{3}{4}$ inch.....	do.. 4
Steel, cold rolled, hexagonal, $\frac{1}{2}$ inch.....	do.. 4
Steel, cold rolled, hexagonal, $\frac{3}{4}$ inch.....	do.. 4
Steel, cold rolled, flat, $\frac{1}{4}$ by 1 inch $\frac{1}{2}$ and $\frac{3}{4}$	4
Steel, cold rolled, flat, $\frac{1}{2}$ by 1 inch.....	4
Steel, cold rolled, flat, $\frac{3}{4}$ by 1 inch.....	4
Steel, cold rolled, flat, 6 feet by $\frac{1}{2}$ by 1 inch.....	piece.. 2
Steel, cold rolled, flat, fitting stock, 6 feet by 0.030 by 6 inch.....	do.. 1
Steel, cold rolled, flat, fitting stock, 6 feet by 0.07 by 6 inch.....	do.. 1
Steel, cold rolled, flat, fitting stock, 6 feet by 0.134 by 6 inch.....	do.. 1
Tubing, copper, 20-gauge B. & S., $\frac{1}{4}$ inch.....	feet.. 25
Tubing, copper, 20-gauge B. & S., $\frac{3}{8}$ inch.....	do.. 25
Tubing, steel, seamless, Shelby, $\frac{1}{2}$ inch 20-gauge.....	do.. 4
Tubing, steel, seamless, Shelby, $\frac{3}{4}$ inch 20-gauge.....	do.. 4
Tubing, steel, seamless, Shelby, 1 inch 18-gauge.....	do.. 4
Tubing, steel, seamless, Shelby, $1\frac{1}{2}$ inches 18-gauge.....	do.. 4
Zinc, sheet, 16 by 20 gauge.....	pounds.. 1

Notes for basic table of allowances, Air Service—Continued.

NOTE 81.

SUPPLIES, AIRPLANE, MISCELLANEOUS.

Item.	Per unit.	Per quantity.
Acetone, can, quart (for removing varnish).....	1	
Acid, muriatic 'cut'..... quart.....	1	
Block and tackle, 2 large, 2 medium.....		4
Bolts and nuts, assorted.....	24	
Brushes, flat, varnish, camel's hair, 1-inch.....		25
Brushes, paint, camel's hair, 1-inch.....		12
Brushes, straco, bristle, white, 3½-inch.....		12
Cans, gasoline, 5-gallons.....		10
Cans, water, 5-gallon.....		20
Cans, utility, 2-quart.....		10
Chambers, pieces for gas funnels.....	2	
Clamps, hose, assorted.....	24	
Claws, or charkies, assorted.....	12	
Cloth, emery, fine, sheets.....	6	
Copper sheet soft 10 ounce..... square feet.....	2	
Cord, rubber shock absorber, set, for landing gear and tail skid.....	1	
Drops, gallon in screw-top, rectangular, noncorrosive can.....	1	
Funnels for filling gas tank.....		10
Funnels for filling motor sump or oil tanks.....		10
Gaskets assorted for intake, water and exhaust manifolds.....	30	
Gaskets carburetor jet.....	24	
Gaskets spark plug.....	25	
Grease liquid, 1½ lbs., 4-ounce can.....	1	
Grease graphite, 1-pound.....	1	
Hose, rubber, assorted, feet, for water connection.....	6	
Linen, airplane.....	6	
Nails, steel, 3-pound.....	1	
Nails, brass ¼ to 1½ inches, assorted.....	4	
Needles, curved and straight, assorted.....	6	
Paint, olive-drab..... gallons.....		6
Paint, red..... do.....		2
Paint, blue..... do.....		2
Paint, white..... do.....		2
Paint, black..... do.....		2
Paper, sand, fine..... sheets.....	6	
Pins, clevis, assorted.....	24	
Pins, cotter, assorted..... gross.....	2	
Plugs, spark..... sets.....	2	
Puller, propeller, complete.....	1	
Pump, feet, combination.....	1	
Rope, manila, ½-inch..... feet.....		200
Rope, manila, ¾-inch..... do.....		200
Rope, manila, 1-inch..... do.....		200
Saddles or shackles to fit aileron, elevator, and rudder control wires.....	24	
Screws, wood, assorted.....	48	
Shellac, cans, 4-ounce.....	6	
Shoes, tail skid, with bolts or screws.....	1	
Solder, white..... pounds.....	10	
Sponges, large.....		10
Tape, friction..... rolls.....	6	
Thread, open, white, No. 25..... spools.....	2	
Turnbuckles, each size on machine.....	2	
Twine, fish, ball.....	1	
Varnish..... gallons.....		
Vise, Parker's swivel, No. 2000 (to be attached to top of chest).....	1	
Washers, axle, for landing gear.....	6	
Washers, lock, split, assorted.....	36	
Wire, cable, flexible, enough for two sets aileron controls, 1 set elevator controls, 1 set rudder controls..... feet.....		400
Wire, copper, soft, No. 24..... spools.....	3	
Wire, safety, brass, annealed..... pounds.....	2	
Zinc, sheets..... do.....	2	

The motor trouble shooter should provide for minor motor spares, such as valve springs, rocker arm pins, etc.

Notes for basic table of allowances, Air Service—Continued.

NOTE 22.

SUPPLY DEPOT EQUIPMENT.

(A) OFFICE EQUIPMENT.		(B) OFFICE SUPPLIES—continued.	
	Quantity.		Quantity.
Baskets, desk, wire.....	200	Cards, index, 3 by 5 inches, white, ruled....	3,000
Baskets, waste, metal.....	50	Cards, index, 4 by 6 inches, white, ruled....	3,000
Baskets, waste, wire.....	100	Cards, index, 5 by 8 inches, white, ruled....	3,000
Cabinets, card, 3 by 5.....	20	Clips, Gem, No. 1.....boxes..	100
Cabinets, card, 3 by 5, 2-drawer.....	10	Clips, Gem, No. 2.....do....	100
Cabinets, card, 3 by 5, 3-drawer.....	5	Clips, Ideal, No. 1.....do....	100
Cabinets, correspondence, 4-drawer, letter size.....	100	Clips, Ideal, No. 2.....do....	100
Chairs, straight back.....	75	Covers, duplicating book.....	24
Chairs, swivel, without arms.....	50	Dermatype, mimeograph stencil, No. 861, sheets.....	100
Chairs, swivel, with arms.....	25	Envelopes, white, penalty, size 3½ by 8½ inches.....	1,000
Cups, sponge.....	40	Envelopes, white, penalty, size 4½ by 9½ inches.....	1,000
Cuspidors.....	10	Envelope, white, penalty, size 4½ by 10½ inches.....	1,000
Desks, flat top.....	50	Envelopes, manila, No. 68.....	500
Desks, typewriter, single.....	50	Envelopes, manila, No. 84.....	500
Desks, typewriter, double.....	20	Erasers, art gum.....	12
Dictionaries, with stands.....	5	Erasers, red ruby.....dozen..	2
Fans, electric, 12-inch oscillating.....	50	Erasers, I. & P.....do....	5
Files, oil board.....	50	Erasers, typewriter.....do....	5
Files, Shannon, board.....	150	Folders, correspondence, filing, R. & L., size 8½ by 14½ inches.....	3,000
Files, Shannon, transfer case.....	100	Folders, correspondence, filing, R. & L., size 8½ by 11½ inches.....	3,000
Ink wells, double combination.....	50	Ink, blue.....bottles..	24
Ink wells, single.....	100	Ink, red.....do....	24
Machines, adding, with stands.....	5	Ink, stamp pad, blue, 2-ounce bottles.....	24
Machines, billing, Elliott-Fisher, 12-inch.....	3	Fasteners, paper, Hotchkiss.....boxes..	50
Machines, numbering.....	15	Mucilage.....bottles..	24
Machines, stapling.....	20	Pads, memorandum, 3 by 5 inches.....	200
Mats, cuspidor.....	10	Pads, memorandum, ruled, 5 by 8 inches.....	200
Mats, door.....	5	Pads, memorandum, ruled, 8 by 10½ inches.....	200
Mimeographs, with stands.....	3	Pads, stamp.....	50
Pads, desk.....	100	Paper, blotting, hand, 4 by 9 inches.....	1,000
Punches, Marvel.....	20	Paper, blotting, 19 by 24 inches.....	100
Racks, stamp, with bases and tops.....	40	Paper, bond, size 8 by 10½ inches.....reams..	20
Safes, floor.....	3	Paper, onion skin, size 8 by 10½ inches, reams.....	20
Sharpeners, pencil.....	20	Paper, bond, size 8½ by 11 inches.....reams..	20
Shears, office.....pairs..	25	Paper, onion skin, size 8½ by 11 inches, reams.....	20
Tables, office.....	10	Paper, bond, size 8½ by 13 inches.....reams..	20
Trays, desk, wooden.....	25	Paper, onion skin, 8½ by 13 inches.....do....	20
Typewriters, 10-inch.....	80	Paper, carbon, light weight, for 6 by 16 copies, black, 8 by 10½ inches.....sheets..	2,000
Typewriters, 14-inch.....	10	Paper, carbon, light weight, for 6 by 16 copies, black, 8½ by 11 inches.....sheets..	2,000
Typewriters, 16-inch.....	10	Paper, carbon, light weight, for 6 by 16 copies, black, 8½ by 13 inches.....sheets..	2,000
Typewriters, 18-inch.....	5	Paste, library, 4-ounce.....	24
Penholders, pencils, pens, stamp pads, ink, carbon paper, letterheads, second sheets, envelopes, rules, scratch pads, gem clips, erasers, pins, rubber bands, blank forms, etc.		Paste, library, 8-ounce.....	24
		Pen points, assorted.....gross..	5
(B) OFFICE SUPPLIES.		Pencils, rubber tinned, assorted.....do....	5
Bands, rubber, assorted sizes.....boxes..	24	Penholders.....do....	5
Binders, canvas, Kalamazoo.....	24	Ribbons, typewriter, Underwood.....	48
Binders, iron post.....	24	Ribbons, typewriter, Remington.....	48
Binders, No. 605.....	24		
Binders, No. 606.....	24		
Binders, Tatum.....	24		
Cards, guide, blue, 3 by 5 inches, 150 subdivisions.....sets..	3		
Cards, guide, blue, 4 by 6 inches, 150 subdivisions.....sets..	3		

Notes for basic table of allowances, Air Service—Continued.

NOTE 82—Continued.

SUPPLY DEPOT EQUIPMENT—Continued.

(B) OFFICE SUPPLIES—continued.		(B) OFFICE SUPPLIES—continued.	
	Quantity.		Quantity.
Ribbons, typewriter, Underwood, bicrome.	48	A. G. O. forms—Continued.	
Ribbons, typewriter, Remington, bicrome.	48	No. 342. Duty roster	20
Rulers	25	No. 378. Report of physical examination	30
Staples, Hotchkiss, paper fastener, boxes	24	No. 387. Record for general prisoners	10
Tabs, index, Dennison's, No. 1, boxes	6	No. 395. Physical examination for promotion, officers'	10
Tabs, index, Dennison's, No. 2, boxes	6	No. 395-1. Physical examination prior to discharge	10
W. D. forms:		No. 443. Regular Army reservists' descriptive card	10
No. 325. Account of sales of public auction or on sealed proposals	100	No. 437. Regular Army reserve, furlough to	10
No. 330. Public voucher, purchases and services other than personal	250	No. 525. Honorable discharge (enlisted men)	10
No. 335. Public voucher, personal services	200	No. 525-2. Officers' discharge	10
No. 336. Officers' pay voucher	300	No. 526. Discharge without honor (enlisted men)	10
No. 337. Public voucher, mileage to officers	200	No. 527. Dishonorable discharge (enlisted men)	10
No. 349. Public voucher, payment of reward for apprehension of deserter	200	No. 529. Report of furlough Regular Army to reserve	10
No. 350. Public voucher, reimbursement of traveling expenses	200	No. 594. Charge sheets	150
No. 351. Public voucher, commutation of rations in hospital	200	No. 602. Statement of charges, book	1
No. 366. Public voucher, pay roll of enlisted men	500	No. 637. Individual equipment record	800
No. 366a. Public voucher, pay roll of enlisted men, follow sheet	500	No. 631. Report of deserters	15
No. 369. Public voucher, soldiers' or nurses' pay	100	No. 627. Record card, enlisted men	800
No. 370. Public voucher, final statement	100	No. 644. Individual pay card	800
A. G. O. forms:		No. 647B. Memorandum of transmittal of report of changes (enlisted men)	15
No. 3. Notification of discharge	10	No. 647A. Report of changes (enlisted men)	15
No. 17. Certificate of disability	15	No. 649. Report of changes, officers', individual	15
No. 22. Enlistment papers	15	No. 648A. Report of changes (officers')	15
No. 23. Report of general prisoners	10	No. 648B. Memorandum of transmittal of report of changes (officers')	15
No. 26. Field return	10	No. 662. Correspondence books	5
No. 27. Post or camp return	20	No. 664. Daily report of enlistments	15
No. 28. Headquarters return	20	No. 609. Examination for flying, officers'	50
No. 29. Service records	150	No. 703. Monthly roster	15
No. 29-A. Extract from service record	150	No. 721. Report of separation of officers	15
No. 30. Company returns	15	No. 723. Special-delivery letters	100
No. 34. Inventory of effects	10	No. 711. Efficiency reports, officers'	50
No. 66. Furloughs	150	No. 714. Application for medal	10
No. 95. Descriptive list of deserters	30	No. 135. Physical examination for enlistment	20
No. 143. Medical certificate with application for leave	15	Q. M. C. forms:	
No. 152. Certificate of promotion	50	No. 9. Abstract of subsistence stores sold	100
No. 196. Report of survey	100	No. 13a. Mileage statement	24
No. 260. Identification record, enlisted men	800	No. 19. Public voucher, commutation of rations and liquid coffee money	300
No. 260-A. Identification record, officers'	30	No. 38. Soldiers' allotment blanks	200
No. 332. Morning report	18	No. 39. Discontinuance, soldiers' allotment	200
Insert to morning report for ration account	15	No. 42. Certificate for commutation of rations claim	200
No. 334. Headquarters' morning report	3	No. 62. Copy of furlough	200
No. 335. Consolidated morning report	3		
No. 338. Guard reports	3		
No. 338-1. Extra sheets for guard return	6		
No. 339. Daily sick report	18		

Notes for basic table of allowances, Air Service—Continued.

NOTE 82—Continued.

SUPPLY DEPOT EQUIPMENT—Continued.

(B) OFFICE SUPPLIES—continued.		(B) OFFICE SUPPLIES—continued.	
	Quantity.		Quantity.
Q. M. C forms—Continued.		P. S. & T. forms:	
No. 64. Price list, subsistence stores....	200	No. 160. Requisition, original.....	2,000
No. 66. Charge-sales slips.....	24	No. 160. Requisition, duplicate.....	2,000
No. 67. Cash-sales slips.....	24	No. 160. Requisition, triplicate.....	2,000
No. 119. Circular proposal.....	300	No. 257. Receiving report, original.....	2,000
No. 119a. Letter of acceptance of proposal.....	500	No. 257. Receiving report, duplicate....	2,000
No. 123. Abstract of proposals, general, large size.....	200	No. 257. Receiving report, triplicate....	2,000
No. 153. Bill of lading for public property.....	1,000	No. 257. Receiving report, quadruplicate.....	2,000
No. 154. Memorandum, bill of lading for public property.....	1,000	No. 258. Stock record cards.....	10,000
No. 155. Extra sheet to 153, 154, 156....	1,000	No. 260. Shipping ticket, original.....	5,000
No. 156. Shipping order.....	1,000	No. 260. Shipping ticket, duplicate.....	5,000
No. 158. Acknowledgment of receipt of property shipped.....	500	No. 260. Shipping ticket, triplicate....	5,000
No. 161. Estimate of clothing.....	100	No. 260. Shipping ticket, quadruplicate..	5,000
No. 164. Directions for measuring for U. S. Army clothing of special sizes...	25	No. 261. O. S. & D. report, original.....	500
No. 165. Individual clothing slip.....	200	No. 261. O. S. & D. report, duplicate...	500
No. 166. Requisition for tableware and kitchen utensils.....	100	No. 261. O. S. & D. report, triplicate....	500
No. 168. Monthly requisition for subsistence stores and funds.....	200	No. 261. O. S. & D. report, quadruplicate.....	500
No. 172. Application for leave of absence.....	100	No. 263a. Property loan cards.....	1,000
No. 205. Articles lost or destroyed.....	200	No. 263b. Property loan cards.....	1,000
No. 207. Abstract of breakage, china and glassware.....	200	No. 264. Account of sales.....	500
No. 211. Statement of fuel consumed....	200	No. 264a. Charge sales account.....	500
No. 213. Requisition for clothing in bulk.....	200	War Risk Insurance forms:	
No. 217. Purchase of supplies.....	100	No. 1-B. Application family allotment..	50
No. 219. Return of subsistence stores...	200	No. 2-A. Application for insurance.....	100
No. 223. Ration returns.....	200	No. 52. Information for claim for exemption from compulsory allotment..	10
No. 237. Statement to accompany report of survey.....	200	No. 333. Notice of discharge.....	25
No. 260. Shipping ticket, original.....	3,000	No. 528. Application for person disabled and discharged from service.....	10
No. 260. Shipping ticket, duplicate.....	15,000	No. 724. Change of beneficiary.....	100
No. 260. Shipping ticket, triplicate.....	3,000	No. 739-TD. Application for conversion of Government war-risk insurance....	25
No. 260. Shipping ticket, quadruplicate..	3,000	No. 742. Application for reinstatement of war-risk yearly renewal terms insurance.....	25
No. 263a. Property loan cards.....	1,000	No. 758. Reenlistment.....	50
No. 400. Personal report, commissioned officers'.....	100	D. A. S. forms:	
No. 404. Army pay tables, edition of August 1, 1916.....	24	No. 1. Air Service squadron return....	100
No. 406. Official telegram.....	24	No. 100. Personnel report, officers.....	150
No. 407. Annual report of typewriting machines.....	50	D. A. M. forms:	
No. 409. Typewriter descriptive list....	50	No. 3. Trade reports.....	30
No. 432. Annual fuel consumption.....	200	M. T. C. forms:	
No. 434. Return of enlisted men, Q. M..	200	No. 521.....	200
No. 450. Delivery order and receipt....	50	No. 522.....	200
No. 456. Statement of account.....	200	No. 102A.....	200
No. 468. Certificate of personal property shipped.....	200	No. 102B.....	200
		No. 57.....	100
		No. 83.....	200
		No. 94.....	200
		No. 99.....	50
		Engineering Department forms:	
		No. 1. O. D. A. S.....	12,000
		No. 2. O. D. A. S.....	500
		No. 4. O. D. A. S.....	2,500
		No. 5. O. D. A. S.....	100

Notes for basic table of allowances, Air Service—Continued.

NOTE 82—Continued.

SUPPLY DEPT EQUIPMENT—Continued.

(B) OFFICE SUPPLIES—continued.		(D) FIRE EQUIPMENT.	
Engineering Department forms—Con.	Quantity.		Quantity.
No. 6. O. D. A. S.	100	Extinguishers, fire, Pyrene	100
No. 7. O. D. A. S.	100	Extinguishers, fire, hand, 2½-gallon	100
No. 8. O. D. A. S.	200	Standard fire hose, ¾-inch, with suitable hose carts, nozzles, etc., feet	3,000
No. 9. O. D. A. S.	200	Axes, fire, with ax holders	150
No. 10. O. D. A. S.	400	Buckets, G. I. round-bottom, fire	100
No. 11. O. D. A. S.	300	Barrels, water, fire	50
No. 12. O. D. A. S.	1,500	Chemical extinguishers, 50-gallon capacity, complete	6
No. 13. O. D. A. S.	1,500	Fire trucks and chemical trucks to be supplied by M. T. C.	
No. 17. O. D. A. S.	300		
No. 19. O. D. A. S.	300		
No. 20. O. D. A. S.	100		
No. 21. O. D. A. S.	200		
No. 31. O. D. A. S.	1,000		
No. 32. O. D. A. S.	500		
No. 33. O. D. A. S.	300		
No. 34. Revised O. D. A. S.	200		
No. 35. O. D. A. S.	1,000		
No. 36. O. D. A. S.	100		
No. 37. O. D. A. S.	100		
No. 38. O. D. A. S.	100		
No. 46. O. D. A. S.	200		
(C) RECEIVING AND SHIPPING DEPARTMENTS.		(E) MISCELLANEOUS EQUIPMENT.	
Brushes, stencil	50	Clocks, time, with racks for time cards, International Time Recording (50 cards to each clock)	8
Flashlights	36	Cranes, traveling, 10-ton	2
Grinder	1	Crane, goose-neck, 2-ton	1
Ladder, 12-foot	1	Blocks, chain, 5-ton	4
Ladder, 8-foot	1	Blocks, chain, ¾-ton	4
Ladders, 12-foot, extension	3	Blocks, chain, 1-ton	4
Ladders, step	3	Blocks, chain, ½-ton	4
Machine, stencil, ¼-inch	1	Brasier, complete, with stand	1
Machine, stencil, 1-inch	1	Dollies, timber, heavy duty	20
Machine, stencil, 1½-inch	1	Forge, complete, with motor	1
Machines, sealing (lead seals)	4	Lathe, 36-inch bed	1
Machines, tape (paper)	5	Lathe, 12-inch swing	1
Punches, leather	2	Mover, car	1
Pots, stencil	20	Mower, lawn	1
Clamps (pairs), wood	2	Machine, printing	1
Racks, for wrapping paper (3 sizes)	3	Cutter, paper, large	1
Saws, table, complete with motors and starting box (6 extra circular saws)	2	Sets, block and tackle	20
Saws, crosscut, hand, 26-inch	6	Revolators (tiering machines), 2,000-pound	6
Scrapers, box	5	Revolators (tiering machines), 1,500-pound	6
Scale, computing, 500-pound	1	Revolators (tiering machines), 500-pound	4
Scale, platform, 3,000-pound	1	Jacks, 10-ton	3
Scale, platform, 2,000-pound	1	Jacks, 2-ton	5
Scale, counter, 100-pound	1	Jacks, 1-ton	5
Scale, package, 50-pound	1	Wheelbarrows	25
Scale, postal, 10-pound	1	Press, drill, capacity, ¼ to ½ inch, with motor	1
Snips, pairs, tinners', 10-inch	2	Planer, with motor, complete	1
Snips, pairs, tinners', 14-inch	2	Tractors, electric	6
Saws, compass	6	Trailers for electric tractor	24
Sets, swedge saw	2	Trucks, stubbing	36
Trucks, hand, 2-wheel	24	Trucks, hand, 2-wheel	50
		Trucks, warehouse, 4-wheel	50
		Vulcanizing set	1
		Welding equipment outfit complete with supply cabinet, acetylene and oxygen cylinders	1
		Standard gravity conveyor:	
		Each warehouse should be equipped with a conveyor with capacity for handling 300 pounds in boxes 24 by 36 inches, con-	

Notes for basic table of allowances, Air Service—Continued.

NOTE 22—Continued.

SUPPLY DEPOT EQUIPMENT—Continued.

(X) MISCELLANEOUS EQUIPMENT—continued.		(Y) HARDWARE AND TOOLS—continued.	
Standard gravity conveyor—Contd.	Quantity.	Tools—Continued.	
sisting of 300 feet of steel gravity and 6-90° curves, with an inside radius of approximately 7 feet 6 inches.			Quantity.
The following type of conveyor is recommended:		Dividers, 3-inch, spring.....	3
Sections to be 10 feet long, with frames not less than 2½ by 1½ by ¼ inch angle steel accurately cut to length.		Dividers, 6-inch, spring.....	3
Holes for axles, tie-rods, braces, and splices are to be pressed punched, not slotted.		Files, 8-inch, flat bastard.....	50
Rollers to be 18 inches long, 2½ inches diameter, spaced 6 inches on centers, constructed of No. 14-gauge steel.		Files, 10-inch, flat bastard.....	50
The bearings should be of the self-contained renewable ball-bearing type, consisting of ½ inch diameter balls operated in an inner and outer ball race.		Files, 6-inch, mill.....	50
Spindles to be of the through-shaft type, not less than ½ inch diameter cold-rolled steel, passing through vertical side members of frame, properly held in position.		Files, 8-inch, mill.....	50
Suitable tie-rods and cross braces must be provided to maintain frames in rigid position.		Files, 6-inch, round bastard.....	75
		Files, 8-inch, round bastard.....	50
		Files, 10-inch, round bastard.....	50
		Files, 8-inch, half-round bastard.....	75
		Files, 10-inch, half-round bastard.....	50
		Gauges, screw (Starrett, No. 473).....	6
		Hammers, 6-ounce.....	50
		Hammers, 8-ounce.....	50
		Hammers, 12-ounce.....	75
		Hammers, 16-ounce.....	100
		Hammers, 22-ounce.....	50
		Hammers, 24-ounce.....	125
		Hammers, 32-ounce.....	50
		Hatchets, half adze-eye, 3¼-inch cut.....	50
		Irons, soldering, 1½-pound.....	5
		Irons, soldering, ½-pound.....	5
		Planes, jack (Bailey No. 5).....	10
		Pliers, auto, 8-inch.....	100
		Pliers, 6-inch, No. 101.....	100
		Pliers, 6-inch, No. 102.....	100
		Pliers (Bernard No. 100).....	100
		Pullers, nail.....	50
		Punches, center, machinist's (B. & S. No. 765).....	15
		Screw drivers, No. 2.....	100
		Screw drivers, 6-inch.....	125
		Screw drivers, 8-inch.....	100
		Screw drivers, 12-inch.....	75
		Screw drivers, 18-inch.....	50
		Screw drivers, spiral ratchet.....	50
		Shovels, scoop.....	20
		Shovels, hand.....	50
		Saws, Disston cross-cut, 24-inch, 9 pt., No. 112.....	75
		Saws, rip, 26-inch, 5½ pt.....	75
		Saws, Disston, 8 pt., 26-inch.....	50
		Vises, bench, Athol, No. 726.....	5
		Vises, bench, Prentiss, No. 104.....	5
		Wrenches, open-end, No. 671-A, semifinished.....	5
		Wrenches, open-end, No. 672-B.....	5
		Wrenches, open-end, No. 674-A.....	5
		Wrenches, open-end, No. 675-B.....	5
		Wrenches, open-end, No. 676-B.....	5
		Wrenches, open-end, No. 677-B.....	5
		Wrenches, open-end, No. 678-B.....	5
		Wrenches, open-end, No. 671.....	5
		Wrenches, open-end, No. 672.....	5
		Wrenches, open-end, No. 673.....	5
		Wrenches, open-end, No. 674.....	5
		Wrenches, open-end, No. 675.....	5
		Wrenches, open-end, No. 676.....	5
(Y) HARDWARE AND TOOLS.			
Tools.			
Bits, expansion, ½ to 1½ inch.....	6		
Bits, expansion, ½ to 3 inch.....	6		
Braces, ratchet, 10-inch.....	24		
Buckets, mop, with wringer.....	10		
Bars, claw, 24-inch, octagonal steel.....	50		
Bars, pinch.....	50		
Baler, paper.....	1		
Cans, G. I., 5-gallon.....	100		
Cans, G. I., 2-gallon.....	50		
Calipers, 3-inch, outside.....	3		
Calipers, 6-inch, outside.....	3		
Calipers, 8-inch, outside.....	3		
Calipers, 4-inch, inside spring.....	3		
Calipers, 6-inch, inside, firm joint.....	3		
Chisels, wood, ½-inch.....	20		
Chisels, wood, ¾-inch.....	20		
Chisels, wood, 1-inch.....	20		
Chisels, wood, 1½-inch.....	20		
Chisels, wood, 1¾-inch.....	20		
Chisels, cold, ½-inch.....	10		
Chisels, cold, ¾-inch.....	15		
Chisels, cold, 1-inch.....	15		
Chisels, cold, 1½-inch.....	10		
Cutters, bolt, No. 1.....	10		
Cutters, bolt, No. 2.....	10		
Cutters, pipe (Barnes No. 1).....	3		
Cutters, pipe (Barnes No. 2).....	4		
Cutters, pipe (Barnes No. 3).....	3		
Drills, breast, M. F., No. 1980.....	6		

Notes for basic table of allowances, Air Service—Continued.

NOTE 23—Continued.

SUPPLY DEPOT EQUIPMENT—Continued.

(F) HARDWARE AND TOOLS—continued.		(F) HARDWARE AND TOOLS—continued.	
Tools—Continued.		Hardware—Continued.	
	Quantity.		Quantity.
Wrenches, socket, No. 863D.....	5	Screws, flat-head, bright iron, No. 10, 1½-inch.....	4
Wrenches, socket, No. 865D.....	5	.....gross..	
Wrenches, socket, No. 866D.....	5	Screws, flat-head, bright iron, No. 12, 2-inch.....	2
Wrenches, socket, No. 867D.....	5	.....gross..	
Wrenches, socket, No. 868D.....	5	Screws, flat-head, bright iron, No. 14, 2½-inch.....	2
Wrenches, socket, No. 869A.....	5	.....gross..	
Wrenches, socket, No. 870D.....	5	Screws, flat-head, brass, No. 8, ¾-inch.....do....	2
Wrenches, socket, No. 872D.....	5	Screws, flat-head, brass, No. 8, ¾-inch.....do....	2
Wrenches, socket, No. 873A.....	5	Screws, flat-head, brass, No. 9, 1¼-inch.....do....	4
Wrenches, socket, No. 963A.....	5	Screws, flat-head, brass, No. 12, 2-inch.....do....	2
Wrenches, socket, No. 964A.....	5	Bolts, carriage, Eagle, ½ by 2½ inches.....	100
Wrenches, socket, No. 965A.....	5	Bolts, carriage, Eagle, ½ by 4 inches.....	100
Wrenches, socket, No. 967A.....	5	Bolts, carriage, Eagle, ½ by 6 inches.....	100
Wrenches, socket, No. 968A.....	5	Bolts, carriage, Eagle, ½ by 8 inches.....	200
Wrenches, socket, No. 969A.....	5	Bolts, machine, ½ by 6 inches.....	200
Wrenches, socket, No. 970A.....	5	Bolts, machine, ½ by 8 inches.....	200
Wrenches, socket, No. 971A.....	5	Bolts, machine, ½ by 12 inches.....	200
Wrenches, socket, No. 973A.....	5	Tacks, 6-ounce.....packages..	12
Wrenches, socket, No. 975A.....	5	Tacks, 8-ounce.....do....	36
(The above are Armstrong numbers, but Williams or Page-Storm wrenches of corresponding sizes can be substituted.)		Tacks, 10-ounce.....do....	24
Wrenches, Crescent, adjustable, 6-inch.....	50	Rope, manila, 1-inch.....coil..	½
Wrenches, Crescent, adjustable, 8-inch.....	50	Rope, manila, ¾-inch.....do....	½
Wrenches, Stillson, 10-inch.....	25	Rope, manila, ½-inch.....do....	1
Wrenches, Stillson, 18-inch.....	50	Rope, wire, ½-inch.....feet..	250
Wrenches, Stillson, 24-inch.....	25	Chains, ½-inch by 25 feet, with hook.....	3
Wrenches, monkey, 6-inch.....	25	Chains, ½-inch, tow.....	20
Wrenches, monkey, 12-inch.....	60	Strapping, 1-inch.....rolls..	50
Wrenches, monkey, 18-inch.....	50	Strapping, ¾-inch.....do....	80
Wrenches, patent ratchet (Starrett, No. 443-A).....sets..	5	Strapping, ½-inch.....do....	15
		Strapping, 1-inch.....do....	25
		Strapping, ¾-inch.....do....	10
		Pine, ½ by 6 by 8 inches.....feet..	1,000
		Pine, 2 by 4 inches by 16 feet.....do....	35,000
		Pine, 3 by 4 inches by 16 feet.....do....	8,000
		Pine, 4 by 6 inches by 16 feet.....do....	1,500
		Pine, 2 by 8 inches by 16 feet.....do....	1,500
		Pine, 2 by 10 inches by 16 feet.....do....	1,500
		Pine, ½ by 10 by 12 inches.....do....	1,000
		Nails, 6d.....keg....	1
		Nails, 8d.....do....	1
		Nails, 10d.....do....	1
		Nails, 12d.....do....	1
		Brooms.....dozen..	2

Notes for basic table of allowances, Air Service—Continued.

NOTE 83.

SURVEYING EQUIPMENT.

Quantity.	Quantity.
Kits, repair, steel tape.....	3
Level, engineer's, complete with tripod.....	1
Pins, marking, set of 11, 12-inch with quiver...	1
Plum bobs, brass, 10-ounce.....	4
Rods, level, Philadelphia.....	2
Rods, ranging, steel, 3/4-inch round, painted red and white alternately every foot.....	3
Rods, stadia, folding, 12-foot.....	2
Rule, folding, 5-foot.....	1
Tapes, steel, 100-foot, marked one side in feet and tenths.....	2
Tapes, steel, surveyor's chain, 100-foot, marked every foot.....	2
Transit, 8-inch telescope, 4-inch needle, 2 vernier on plumb vertical circle, level on telescope, with tripod complete.....	1
SUPPLIES (ONE MONTH).	
Books, level.....	2
Books, transit.....	2
Cloth, survey, signal, red..... yards.	10
Cloth, survey, signal, white..... do.	10
Crayon, lumber, red.....	12
Pencils, 4H drawing..... box.	1

NOTE 84.

TINSMITH'S CHEST.

Quantity.	Quantity.
Chisels, cold, 1-inch.....	1
Chisels, A, 3/4-inch.....	1
Coppers, soldering, handles, 2-pound... pairs..	2
Files, flat, bastard, 10-inch.....	1
Files, flat, smooth, 10-inch.....	1
Files, half-round, bastard, 12-inch.....	1
Hammers, ball peen, 2-pound.....	2
Hammers, claw, 2-pound.....	1
Hammers, riveting, 9-ounce.....	2
Oil can.....	1
Pliers, side-cutting, 8-inch.....	2
Rule, folding, 5-foot.....	2
Saw frame, back, extension, 12-inch.....	1
Snips, tin, straight cut, 14-inch.....	2
Snips, tin, straight cut, 12-inch.....	2
Snips, tin, circular, 13-inch.....	1
Torch, blow, with soldering-iron attachment, capacity, 1 quart.....	2
Wrenches, monkey, 12-inch.....	1
Wrenches, Stillson, 12-inch.....	1
SUPPLIES (ONE MONTH).	
Iron, black, 26-gauge, sheet, 30 by 48.....	12
Iron, galvanized, 24-gauge, sheet, 30 by 48.....	12
Paste, soldering, 4-ounce tin.....	2
Rivets, iron, tinned, 1-pound, in papers of 1,000..	1
Rivets, iron, tinned, 1 1/2 pounds, in papers of 1,000.....	2
Rivets, iron, tinned, 2 pounds, in papers of 1,000.....	1
Solder, bar, half and half..... pounds.	10
Solder, wire, 10-gauge, 5-pound spool.....	2
Wire, steel, annealed, 14-gauge..... stone.	2
Wire, steel, annealed, 12-gauge..... do.	2

NOTE 85.

WOODWORKER, UNIVERSAL.

Quantity.	
Woodworker, American No. 30, Universal, table size, 40 by 48 inches, as manufactured by American Wood Working Co., Rochester, N. Y.....	1

Notes for basic table of allowances, Air Service—Continued.

NOTE 86.

CHEST, ARMORER'S, AIRCRAFT.

No.	Item.	Quantity.
EQUIPMENT.		
1	Calipers, 6-inch inside spring (No. 610 Goodell-Pratt).....	1
2	Calipers, 6-inch outside spring (No. 504 Goodell-Pratt).....	1
3	Cans, oil, dome type, 15-3-40.....	2
4	Chisels, round-nose cape (Cincinnati Tool Co.).....	2
5	Chisels, small, $\frac{3}{4}$ and $\frac{1}{2}$ inch, black oil finish..... set.	2
6	Cleaning rods.....	10
7	Die, left hand, barrel threads, muzzale end.....	1
8	Die holder.....	1
9	Dividers, 3-inch, No. GP..... pair.	1
10	Drifts, Bulldoze, copper, $\frac{3}{4}$ by 4, $\frac{1}{2}$ by 6.....	4
11	Drifts, mild steel, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{4}$ inch..... set.	6
12	Drills, assorted, $\frac{1}{4}$ to $\frac{1}{2}$ by $\frac{1}{4}$ do.	1
13	Drill, hand and breast, with chuck to hold drills 0 to $\frac{1}{4}$ inch (Goodell-Pratt 5 1/2B).....	1
14	Files, double-cut 8-inch, Nicholson, second cut..... set.	2
15	Files, smooth, single cut, 6 inch Nicholson, round, half-round, flat, and square..... do.	4
16	Gauges, head space, maximum and minimum..... do.	1
17	Gauges, magazine.....	2
18	Hacksaw frames, adjustable (Starrett Co. No. 146).....	2
19	Hammer, ball peen, 12-ounce.....	4
20	Hammer, ball peen, 16-ounce.....	2
21	Hammer, soft babbitt, 15-5-180-U180C.....	6
22	Mallets, rawhide.....	2
23	Pliers, 6-inch round nose.....	3
24	Pliers, 8-inch, side cutting, 15-5-234.....	6
25	Pliers, combination, 6".....	6
26	Pouches, armorer's.....	2
27	Punches, center, small, GP.....	4
28	Reamers, gas regulator cup.....	2
29	Reflectors, chamber, for bore sighting.....	2
30	Reflectors, (dentist's mirror).....	3
31	Ruptured cartridge extractors, 1 each Mark II and Mark III.....	2
32	Scales, 6 inch, flexible Starrett, graduated 100th and 64th.....	4
33	Scrapers, 34-inch blade, No. 382 GP.....	2
34	Screw drivers, 5 inch.....	12
35	Screw drivers, 9 inch, all steel, Channon, 1.....	2
36	Spring balances, 25 lb.....	6
37	Stones, oil, unmounted, 3 round, 1 square, 1 half-round, 1 three-cornered..... set.	2
38	Vise, large bench, 34 by 4 inch, jaw, Prentiss, and 3 sets copper jaws for same.....	3
39	Vise, small hand, Simmons Hardware Co. No. 540, and 2 sets copper jaws for same.....	2
40	Wrenches, 6-inch, monkey, steel handle, Trimo.....	2
41	Wrenches, adjustable "8", 6-inch, Wescott pattern.....	1
42	Wrench, 10-inch pipe, Trimo.....	1
43	Special tools for machine gun with which each organization is equipped..... set.	1
SUPPLIES (ONE MONTH).		
44	Brushes, small bristle.....	12
45	Brushes, camel's hair.....	24
46	Crocus cloth, sheets.....	6
47	Emery cloth, Nos. 00, 0, $\frac{1}{4}$	6
48	Hack saw blades, 14-teeth (Atkins Co. No. 320)..... doz.	1
49	Hack saw blades, 24-teeth (Atkins Co. No. 310)..... do.	1
50	Handles, standard hammer.....	6
51	Handles, standard aluminum, file, 4130D..... doz.	1

NOTE 87.

TELEPHONE INSTALLATION AND MAINTENANCE UNIT.

	EQUIPMENT.	Quantity.
Bag, tool service.....		1
Grips, Buffalo, with pulleys.....	pair.	1
Kits, inspector, pocket.....		2
Lineman's equipment, type TE-21.....		2
Reels, pay-out.....		1
Strips, terminal, 10-pair.....		4
Telephone, type, EE-5.....		1
Voltammeter, battery, 0-35 amperes, 0-11 volts.....		1
SUPPLIES (THREE MONTHS).		
Clips, test, Frankel No. 2521.....		6
Gloves, rubber, No. 11.....	pair.	1
Knobs, porcelain, size 4.....	pounds.	22
Screws, flat-head, wood, 24-inch, No. 10.....	gross.	1
Wire No. 17, copper, twisted pair.....	miles.	5

Notes for basic table of allowances, Air Service—Continued.

NOTE 88.

MISCELLANEOUS RADIO EQUIPMENT, HEAVIER-THAN-AIR.

Same equipment is prescribed as listed in Note 86, with the following additions:

EQUIPMENT.	Quantity.
Reels, inspection.....	2
SUPPLIES.	
Amberoid, solution, tins.....	5
Insulators, lead in (Electrose No. 6266).....	3
Insulators, antenna (Electrose No. 4500).....	8
Wire, type W-16 or wire, type W-5, or drum, type WR-2 (antenna-wire).....	50
Wire, type W-9 (high tension).....	300
Wire, type W-18 (for SCR 73 triple conductor).....	100

NOTE 89.

MISCELLANEOUS RADIO EQUIPMENT AND SUPPLIES, LIGHTER-THAN-AIR.

EQUIPMENT.	Quantity.
Buzzer-instruction set, type EE-14.....	2
Hydrometer, type HY-2.....	10
Paucis, divisional artillery set, type AP-9.....	6
Telephones, head, type P-11.....	3
SUPPLIES.	
Bakelite, sheets, $\frac{1}{2}$ -inch thick.....	1
Bakelite, sheets, $\frac{3}{4}$ -inch thick.....	1
Bakelite, sheets, $\frac{1}{2}$ -inch thick.....	1
Bakelite, rods, 1-inch diameter.....	6
Bakelite, rods, $\frac{3}{4}$ -inch diameter.....	6
Batteries, dry, spare for buzzer-instruction sets.....	10
Batteries, type BA-1.....	24
Batteries, type BA-2.....	20
Batteries, type BA-9.....	10
Batteries, type BA-10.....	20
Bulbs, spare, for buzzer instruction sets.....	10
Chests, type BC-5.....	1
Cloth, empire.....	3
Fuses, 3-ampere Monocord switchboard.....	25
Knife, electrician's.....	2
Pliers, 5-inch side-cutting.....	2
Posts, binding, with machine-bolt leg.....	50
Reel carts, pack, type RL-16.....	1
Staples, blake, No. 1, packages of 100.....	5
Staples, blake, No. 3, packages of 100.....	5
Switchboard units, type EE-2.....	1
Tape, friction $\frac{3}{4}$ -inch.....	10
Tape, rubber, $\frac{1}{4}$ -inch.....	5
Wire, outpost, twisted pair.....	5,000

NOTE 90.

MISCELLANEOUS RADIO EQUIPMENT AND SUPPLIES, LIGHTER-THAN-AIR.

BALLOON PARK ONLY.

(The following in addition to note 89.)

	Quantity.
Wire, outpost, twisted, pair.....	miles 2
Wire, emergency, light rubber insulator, 7-strand, type W-20.....	feet 6,000
Bakelite, sheets, $\frac{1}{2}$ inch thick.....	6
Bakelite, sheets, $\frac{3}{4}$ inch thick.....	6
Bakelite, sheets, $\frac{1}{2}$ inch thick.....	6
Bakelite, foot-rods, 1 inch diameter.....	30
Bakelite, foot-rods, $\frac{3}{4}$ inch diameter.....	30

Notes for basic table of allowances, Air Service—Continued.

NOTE 91.

MISCELLANEOUS RADIO EQUIPMENT AND SUPPLIES, HEAVIER-THAN-AIR.

AIR PARK ONLY.

(The following in addition to notes 88 and 89.)

	Quantity.
Bakelite, sheets, $\frac{3}{8}$ inch thick.....	3
Bakelite, sheets, $\frac{1}{2}$ inch thick.....	3
Bakelite, sheets, $\frac{3}{4}$ inch thick.....	1
Bakelite, foot-rods, 1 inch diameter.....	18
Bakelite, foot-rods, $\frac{1}{2}$ inch diameter.....	18

[400.345, A. G. O.]

NOTE 92.

SIGNAL EQUIPMENT FOR BALLOON AND AIRSHIP COMPANIES.

	Number per company.
Batteries, type BA-10.....	20
Batteries, type BA-1.....	24
Batteries, type BA-2.....	10
Belts, linemen's, with safety straps.....	4
Cable, extension, telephone (junction piece to basket).....	1
Clamps, splicing, 10 $\frac{1}{2}$	2
Climbers, lineman, with straps and pads 15 to 16 $\frac{1}{2}$ inches.....	4
Clips, testing, Frankel, 2521.....	10
Connecting block telephone, for balloon cable.....	1
Cord, lamp, reinforced, No. 16, B. & S.....	feet.. 200
Equipment, type ME-1.....	1
Gloves, rubber, pair, No. 11.....	2
Grips, Buffalo, No. 1, set.....	1
Grips, Buffalo, No. 2, set.....	1
Headsets for balloon basket telephone.....	3
Headsets for balloon winch telephone.....	3
Hydrometers, type HY-2.....	2
Insulators, clamp for lance poles.....	15
Insulators, pigtail, for lance poles.....	45
Keys, W. E. type 6002-B.....	4
Knobs, porcelain, W. B. No. 4.....	300
Linemen's test sets, W. E. type 1017-B.....	2
Pliers, side-cutting, 8-inch.....	4
Poles, lance.....	50
Receivers, telephone, single head, 80-ohm, equipped with service buzzer, headband, and soft-rubber ear cap.....	3
Reel, 2-man hand, for field wire.....	1
Rods, ground, type E.....	12
Sets, buzzer-blinker.....	4
Screws, flat-head, wood, 2 $\frac{1}{2}$ -inch, No. 18.....	300
Screw drivers, 8 or 10 inch.....	6
Switches, D. P. D. T., 250-volt, 15 amperes.....	2
Tacks, Milonite.....	300
Tape, friction.....	pounds.. 7
Tape, rubber, $\frac{3}{8}$ -inch.....	do... 1
Torch, blow, flat type (Clayton-Lambert No. 48 or equivalent), 1 pint size.....	1
Voltmeter, Western, type 280, 0-3-15-150 volts, 0-3-15-30 amperes.....	1
Wavemeter, type SCR-61.....	1
Winch, hand, for winding telephone wire (design to be furnished by Balloon and Airship Division, Air Service).....	1
Wire, outpost, twisted pair.....	miles.. 5
Wire, emergency, light rubber insulator, 7-strand.....	feet.. 6,000
Wire, type W-7.....	pounds.. 7
Wire, No. 14 G. I.....	miles.. 5
Wire, type W-5.....	feet.. 1,500

[400.345]

BY ORDER OF THE SECRETARY OF WAR:

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

W. M. WRIGHT,

Major General, Acting Chief of Staff.

CIRCULAR }
No. 371. }

WAR DEPARTMENT,
WASHINGTON, October 20, 1920.

BASIC AND ANNUAL ALLOWANCES OF TARGETS AND TARGET MATERIAL FOR SMALL ARMS TARGET RANGES—APPENDIX TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920 (TABLES OF BASIC ALLOWANCES), AND CIRCULAR NO. 293, WAR DEPARTMENT, 1920 (BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR POSTS, GARRISONS, AND SEMIPERMANENT CAMPS).

Circulars No. 152 and No. 293, War Department, 1920, are supplemented by the following tables prescribing the basic and annual allowances of targets and target material for small-arms target practice and small-arms target ranges. Commanding officers may vary these allowances to suit special conditions at their posts. For description, nomenclature, and instructions for assembling this material, see "Small Arms Targets and Equipment for Small Arms Target Ranges, 1920."

TABLE A.—Basic allowance of targets and target material for permanent equipment of rifle, pistol, machine gun, and automatic rifle target ranges.

(Not expendable.)

Items.	Allowance.
Cable, wire, flexible 210 feet, each	1 for each troop of Cavalry at post.
Disk, marking, and staff, long range	1 for each 6 by 10 feet, or combination target installed on 800 or 1,000 yard ranges.
Disk, marking, and staff, mid range	1 for each 6 by 6 feet, or combination target at post.
Disk, marking, and staff, short range	Do.
Disk, marking, and staff, short range (for pistol) ..	1 for each 6 by 6 feet, or combination target, but not to exceed 50 at any post.
Flags, danger	1 for each target, and 10 additional.
Flags, ricochet	Do.
Flags, streamer	4 for each 25 targets or fraction thereof.
Target, bobbing	15 per post, and 5 additional for each troop of Cavalry.
Target, "I," model of 1913	Such numbers as are certified as necessary by post commander.
Target, rolling, for machine gun	Do.
Target, sliding, combination, 8 by 6 feet, and 6 by 10 feet.	Do.

Troops in the field may obtain such items of the above equipment on approved requisition as may be necessary to conduct prescribed target practice.

Component parts necessary for repair and upkeep of permanently installed targets will be requisitioned as required.

TABLE B.—Annual supplies of target material per man, firing on small-arms target ranges, unless otherwise stated.

(Expendable.)

Articles.	Unit.	Rifle.		Pistol.		Machine gun.	Automatic rifle.
		Course A and musketry.	Course B.	Dis-mounted course.	Mounted course.		
Cloth, cotton, 40 inches wide	Yards					3.00	1.00
Cloth, cotton, 76 inches wide	do .....	.80	.40	.50		.40	.40
Frames, target, 3 by 5 feet		Such numbers as are necessary will be procured and manufactured locally.					
Frames, target, 6 by 6 feet		10 for each double-sash target, or 5 for each single-sash target at post.					
Frames, target, 6 by 10 feet		6 for each double-sash target, or 3 for each single-sash target installed on 800 and 1,000 yard ranges at post.					
Pasters, black and buff, envelopes (10 M per)	Envelopes .....	.07	.025	.015		.10	.05
Pasters, olive drab and red, envelopes (2 M per)	do .....	.10		.05	0.05	.10	.05
Rope, manila, 1/4 inch diameter	Foot	180 feet for each rolling target at post.					
Silhouette, "E," paper	Pieces	4 for each pasteboard target "E," and 25 additional for each troop of Cavalry.					
Silhouette, "F," paper	do	4 for each pasteboard target "F."					

TABLE B.—Annual supplies of target material per man, fired on small-arms target ranges, unless otherwise stated—Continued.
(Expendable.)

Articles	Unit	Rifle		Pistol		Machine gun	Automatic rifle
		Course A and musketry.	Course B.	Dis-mounted course.	Mounted course.		
Silhouette, trapezoidal, paper.....	Pieces.....	4 for each pasteboard target, trapezoidal, and 5 additional for each troop of Cavalry.					
Spotters, target, 3 inches.....	.....	50 for each 6 by 6 foot sliding target.					
Spotters, target, 5 inches.....	.....	25 for each 6 by 6 foot sliding target.					
Spotters, target, 10 inches.....	.....	10 for each sliding target installed on 800 and 1,000 yard ranges.					
Staples, 1-inch (1-lb. papers, approximately 440).	Pounds.....	.02	.....	.01	.....	.02	.01
Staves, for target "E".....	Pieces.....	2 for each pasteboard target "E."					
Staves, for target "F".....	do.....	2 for each pasteboard target "F."					
Staves, for target "M".....	do.....	2 for each pasteboard target, trapezoidal.					
Tacks, iron, 8-ounce (1-lb. papers, approximately 500).	Papers.....	6 for each sliding target, 12 for each rolling target.					
Targets, landscape, series "A," sets.....	Set.....	3 for each company of Infantry, and Engineers, 3 for each machine gun company or troop; 2 for each troop of Cavalry; 20 for each Infantry, Cavalry, and Engineer school.					
Targets, landscape, series "B," sets.....	do.....	Do.					
Targets, landscape, series "C," sets.....	do.....	Do.					
Target, "A," paper.....	Pieces.....	.32	.32	.....	.....	.10	.....
Target, "B," paper.....	do.....	.32	.....	.....	.....	.10	.20
Target, "C," paper.....	do.....	.05	.....	.....	.....	.....	.....
Target, Connolly (comb. "X, Y, Z").....	do.....	15.00	15.00	10.00	.....	.....	.....
Target, "D," paper.....	do.....	.32	.....	.....	.....	.....	.20
Target, "E," pasteboard.....	do.....	1 per man, but not exceeding 500 to any one post.					
Target, "F," pasteboard.....	do.....	Do.					
Target, "L-75," paper ¹	do.....	15.00	15.00	.....	.....	.....	.....
Target, "L-50," paper ¹	do.....	15.00	15.00	.....	.....	.....	.....
Target, automatic rifle, No. 1, paper.....	do.....	.....	.....	.....	.....	.....	.30
Target, machine gun, No. 1, paper.....	do.....	.....	.....	.....	.....	.....	6.00
Target, pasteboard, trapezoidal.....	do.....	1 for each 5 men, but not exceeding 250 to any one post.					

¹ Issued only when Connolly targets are exhausted.

TABLE C.—Annual supplies of materials for care and maintenance of small-arms targets.
(Expendable.)

Articles	Amount per sliding target at post.	Amount per rolling target at post.	Amount per post or brigade or fraction.
Brushes, paste, 4-inch.....	1	1	.....
Brushes, sash, Nos. 3 or 5.....	.....	.....	9
Brushes, varnish, No. 4-0, 5-0, or 6-0.....	.....	.....	5
Grease, pounds.....	2½	2½	.....
Oil, linseed and turpentine ¹.....	.....	.....	.....
Paint, black, pounds.....	5	.....	.....
Paint, olive drab, pounds.....	.....	.....	90
Paint, red, pounds.....	2½	5	.....
Lead, white, pounds.....	5	.....	.....
Paste, target (or flour).....	Issued in amount as required.		

¹ A limited amount will be issued to each post for thinning paint.

1400.345, A. G. O.

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
Major General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

WASHINGTON: GOVERNMENT PRINTING OFFICE: 1919

CIRCULAR }
No. 373. }

WAR DEPARTMENT,
WASHINGTON, October 26, 1920.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR COAST ARTILLERY
TROOPS—TABLE IV-G, MOTOR-DRAWN BRIGADES AND REGIMENTS,
AMENDMENT TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920.**

Circular No. 152, War Department, 1920 (tables of basic allowances), is supplemented by adding to the tables enumerated therein the following table with notes prescribing the allowances of individual and organizational equipment for brigades and regiments, motor drawn.

TABLE IV-G.

EQUIPMENT—MOTOR-DRAWN BRIGADES AND REGIMENTS.

	Page.
Section I.—Individual equipment.	1
II.—Automatic rifles and machine guns.	2
IIIA.—Ammunition and armament special for 155-mm. gun.	2
IIIB.—Ammunition and armament special for 8-inch howitzer.	2
IIIC.—Ammunition and armament special for 9.2-inch howitzer.	3
IIID.—Ammunition and armament special for 240-mm. howitzer.	3
IV.—Engineering equipment.	4
V.—Fire-control equipment.	5
VI.—Miscellaneous equipment.	6
VII.—Communication equipment.	6
VIII.—Transportation.	8
VIIIc.—Additional transportation special for 9.2-inch howitzer.	10
VIIIId.—Additional transportation special for 240-mm. howitzer.	10
IX.—Notes.	11

(The term "battery" used in these tables refers to the firing battery unless otherwise specifically indicated.)

SECTION I.—Individual equipment.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Cases:			
Dispatch.	1		Per officer.
Record.	1		Per sergeant major and first sergeant.
Pistols.	1		Per officer and enlisted man.

SECTION II.—Automatic rifles and machine guns.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Cartridges, ball, cal. .30, for automatic rifles.	750	.....	Per automatic rifle.
Cartridges, ball, cal. .30, for antiaircraft machine guns.	5,500	.....	Per antiaircraft machine gun.
Machine guns, antiaircraft.	2	.....	Per battery. (Note A.)
Rifles, automatic.	8	.....	Per firing battery, headquarters bat- tery, and service battery. (Note A.)
Spare parts, tools and accessories for antiaircraft machine guns.	1	.....	Per antiaircraft machine gun. (Note A.)

SECTION IIIA.—Ammunition and armament special for 155-mm. guns.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition.	(a)	.....	a 100 rounds per gun.
Ammunition, sectionalized, set.	.....	(b)	b 1 set per battery. (Note 1.)
Carriages, gun, complete.	1	.....	Per gun. (Note A.)
Dummy projectiles.	.....	2	Do.
Guns, complete.	4	.....	Per battery. (Note A.)
Limbers, carriage, complete.	1	.....	Per gun carriage. (Note A.)
Sighting equipment, sets.	1	.....	Per gun. (Note A.)
Sights, spare, sets.	1	.....	Per battery. (Note A.)
Spare parts for guns, sets.	1	.....	Do.
Spare parts for gun carriages, sets.	1	.....	Do.
Spare parts for gun-carriage limbers, sets.	1	.....	Do.
Tools and accessories for guns and carriages, sets.	1	.....	Per battery. (Note A.)

SECTION IIIB.—Ammunition and armament special for 8-inch howitzer.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition.	(a)	.....	a 100 rounds per howitzer.
Ammunition, sectionalized, sets.	.....	(b)	b 1 set per battery. (Note 1.)
Carriages, howitzers, complete.	1	.....	Per howitzer. (Note A.)
Dummy projectiles.	.....	2	Do.
Firing platform, complete.	1	.....	Do.
Howitzers, 8-inch, complete.	4	.....	Per battery. (Note A.)
Limber, carriage, complete.	1	.....	Per howitzer. (Note A.)
Sighting equipment, sets.	1	.....	Do.
Sights, spare sets.	1	.....	Per battery. (Note A.)
Spare accessories for carriages and spare parts of accessories, sets.	1	.....	Do.
Spare parts for carriages, sets.	1	.....	Do.
Spare parts for carriage limbers, sets.	1	.....	Do.
Spare parts for firing platforms, sets.	1	.....	Do.
Spare parts for howitzers, sets.	1	.....	Do.
Tools and accessories for howitzer carriage, sets.	1	.....	Per battery. (Note A.)
Tools and accessories for howitzer, sets.	1	.....	Do.
Tools and accessories for limbers, sets.	1	.....	Do.
Tools and accessories for firing platform, sets.	1	.....	Do.
Tools and accessories for maneuvering,	1	.....	Per battery. (Note B.)

SECTION IIIc.—*Ammunition and armament special for 9.2-inch howitzer.*

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition.....	(a)		a 70 rounds per howitzer.
Ammunition, sectionalized, set.....		(b)	b 1 set per battery. (Note 1.)
Carriages, howitzer, complete.....	1		Per howitzer. (Note A.)
Dummy projectiles.....		2	Do.
Howitzers, complete.....	4		Per battery. (Note A.)
Sighting equipment, sets.....	1		Per howitzer. (Note A.)
Sights, spare, sets.....	1		Per battery. (Note A.)
Spare parts for howitzers and cradles, sets.....	1		Do.
Spare parts for howitzer carriage, bed and beam, sets.....	1		Do.
Tools and accessories for howitzer and cradle, sets.....	1		Do.
Tools and accessories for howitzer car- riage, bed, and beam, sets.....	1		Do.
Tools and accessories for maneuvering, sets.....	1		Do.

SECTION III d.—*Ammunition and armament special for 240-mm. howitzer.*

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition.....	(a)		a 50 rounds per howitzer.
Ammunition, sectionalized, set.....		(b)	b 1 set per battery. (Note 1.)
Carriages, howitzer, complete.....	1		Per howitzer. (Note A.)
Dummy projectiles.....		2	Do.
Howitzers, complete.....	4		Per battery. (Note A.)
Limbers, carriage, complete.....	1		Per transport wagon. (Note A.)
Spare parts for cradle, sets.....	1		Per battery.
Spare parts for elevating, traversing, and quick-loading mechanism, sets.....	1		Per battery. (Note A.)
Spare parts for firing gear, sets.....	1		Do.
Spare parts for howitzer, sets.....	1		Do.
Spare parts for loading crane, sets.....	1		Do.
Spare parts for loading crane bracket and loading platform, sets.....	1		Do.
Spare parts for platform, sets.....	1		Do.
Spare parts for rammer, sets.....	1		Do.
Spare parts for recuperator, sets.....	1		Do.
Spare parts for top carriage, sets.....	1		Do.
Spare parts for windlass, sets.....	1		Do.
Spare tools and accessories, sets.....	1		Do.
Tools and accessories for howitzer car- riages, sets.....	1		Per battery.

SECTION IV.—Engineering equipment.

DRAFTING EQUIPMENT.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Circular No. 47, Bureau of Standards . . .	1		Per battery, battalion, regimental, and brigade headquarters.
Compass, beam, micrometer adjustment	1		Do.
Dividers, proportional, 8 $\frac{1}{2}$ -inch, in case . .	1		Per battery.
Drafting equipment:			
Company	1		Per battery. (Note 2.)
Battalion	1		Per battalion. (Note 3.)
Regimental	1		Per regiment and brigade headquar- ters. (Note 4.)
Drafting supplies	(a)		a Per battery, battalion, regimental, and brigade headquarters. (Note 5.)
Glass:			
Magnifying, with handle	(a)		a 1 per battalion and regimental head- quarters; 2 per brigade headquarters.
Magnifying, pocket	(a)		a 1 per battery, battalion and regi- mental headquarters; 3 per brigade headquarters.
Protractor, xylonite, transparent:			
Semicircular—			
12 inches, graduated in degrees	(a)		a 1 per battery; 2 per battalion, regi- mental, and brigade headquarters.
6 inches, graduated in degrees	(a)		a Do.
12 inches, graduated in mils	(a)		a Do.
6 inches, graduated in mils	(a)		a Do.
Parallax, graduated in mils	1		Per battery.
Ruler, parallel, rolling, 12-inch	1		Per battery, battalion, regimental, and brigade headquarters.
Scales:			
Map, 20-inch, graduated in meters and yards, 1/10,000	(a)		a 1 per battery and battalion head- quarters; 3 per regimental and brig- ade headquarters.
Map, 10-inch, graduated in meters and yards, 1/20,000	(a)		a Do.
Map, 10-inch, graduated in meters and yards, 1/62,500	(a)		a Do.
Squares, zinc, graduated for plot- ting coordinates	2		Per battery, battalion, regimental, and brigade headquarters.
Shears, 12-inch	1		Do.
Straightedge, steel, 1 yard	1		Do.
Tables:			
Logarithm, numbers, trigonometric functions of degrees and mils, 5 place	1		Do.
Logarithm, numbers and trigono- metric functions of degrees, 7 place	1		Per battery.
Tape, steel, map, graduated in yards, scale 1/20,000, 50 inches long	2		Per battery, battalion, regimental, and brigade headquarters.
Water colors, set	1		Per battery, battalion, regimental, and brigade headquarters. (Note 6.)

MAP REPRODUCTION EQUIPMENT.

Cyclostyle	1		Per regimental and brigade head- quarters. (Note 7.)
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SURVEYING EQUIPMENT.

Allidade, brass, opensight, leveling, complete with case and declinator with leveling bubble	1		Per battery, battalion, and brigade headquarters.
Allidade, miniature, telescopic, with leather case	1		Per battery and battalion headquarters.
Pins, surveyor's (steel arrows), set	1		Per transit.
Plane tables:			
18 by 24 inches, with tripod and waterproofcase	1		Per battery and battalion headquar- ters.
24 by 31 inches, with tripod and waterproofcase	1		Per battery, battalion, and brigade headquarters.

SECTION IV.—*Engineering equipment*—Continued.

SURVEYING EQUIPMENT—continued.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Plumbing arm and 10-ounce plummet	1	.....	Per plane table.
Poles, ranging	2	.....	Per transit.
Rod, leveling	1	.....	Per battalion headquarters.
Sketching outfits	2	.....	Per battery, battalion, regimental, and brigade headquarters. (Note 8.)
Stadia rod, folding	1	.....	Per battery and battalion headquar- ters.
Supplies, surveying equipment	(a)	.....	^a Per battery, battalion, regimental, and brigade headquarters. (Note 9.)
Tape repair outfit	1	.....	Per battalion headquarters.
Tapes:			
Pocket, 2M, graduated in meters and inches	4	.....	Per battery, battalion, and regimental headquarters.
Measuring, 100 feet, graduated in meters and feet	1	.....	Per battery, battalion, and brigade headquarters.
Measuring, 300 feet	1	.....	Per battalion headquarters.
Transit, complete with tripod	1	Per battalion and regimental head- quarters.

CAMOUFLAGE EQUIPMENT.

Camouflage equipment, set	1	Per battery. (Note 10.)
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SECTION V.—*Fire-control equipment.*

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Aiming posts, standard	8	.....	Per battery.
Azimuth instruments:			
M. 1918, graduated in mils	2	.....	Per battery and battalion headquar- ters.
Perisopic, graduated in mils	1	.....	Do.
Battery, flashlight, spare	1	.....	Per flashlight.
Boards, firing:			
Small, with cover 20 by 30 inches	1	.....	Per battery.
Large, with cover 30 by 45 inches	1	.....	Per battery, battalion, and regimental headquarters.
Bulb, for flashlight, spare	1	.....	Per flashlight.
Circle, aiming, French, complete with tripod, lighting device, and carrying case	1	.....	Per battery and battalion headquar- ters.
Compasses, prismatic, M. 1918, with carrying cases and tripods	2	.....	Per battery, additional to allowance prescribed in Table II, Circular No. 152, W. D., 1920.
Devices, computing:			
Range, Wilson	1	.....	Per battery.
Deviation, Unkle	1	.....	Do.
Flashlights, complete with batteries and bulbs	6	.....	Per battery and battalion headquar- ters, additional to allowance pre- scribed in Circular No. 152, W. D., 1920.
Tables, range	(a)	.....	^a 8 per battery and battalion headquar- ters; 2 per regimental headquarters; per brigade headquarters, 2 per each caliber gun, howitzer, and mortar comprizing the brigade.
Telescope, battery commander's, com- plete with carrying case and tripod	(a)	.....	^a 2 per battalion headquarters; 1 per regimental headquarters.
Thermometers, graduated in Fahrenheit.	2	.....	Per battery.

SECTION VI.—Miscellaneous equipment.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Lanterns, oil, complete with globe and wick.	(a)	.....	a 12 per battery; 2 per battalion headquarters, additional to allowance prescribed in Table III, Cir. No. 15, W. D., 1920.
Tents, wall, small, complete with poles, pins, ropes, and flies.	(a)	.....	a 1 per battalion, regiment, and brigade for radio station; 1 per firing battery headquarters battery, and service battery for office, additional to allowance prescribed in Table III, Circular No. 152, W. D. 1920.

SECTION VII.—Communication equipment.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Axes, hand, with helve, 4-pound.....	(a)	.....	a 2 per battery; 4 per battalion, regimental, and brigade headquarters; 1 per radio set.
Bag, tool, service, complete.....	1	.....	Per battery, battalion, regimental, and brigade headquarters. (Note 11.)
Batteries:			
Type BA-1.....	(a)	.....	a 2 (1 spare) per each telephone, type EE 4, monocord operator's switchboard set, type EE 64, and universal test set, type EE 65.
Type BA-2.....	(a)	.....	a 5 (additional spares) per each radio set, type SCR 67-A, SCR 79-A, BC 101 or SCR 121, SCR 132; 4 (2 spare) per universal test set, type EE 65.
Type BA-4.....	(a)	.....	a 1 per wavemeter.
Type BA-10.....	(a)	(b)	a 4 (2 spare) per vibrating bell, 4-ohm. b 4 (2 spare) per set, buzzer instruction, type EE 14.
Type BA-11.....	(a)	.....	a 8 (spare) per signal lamp, type EE 7.
Bells, vibrating, 4-ohm.....	4	.....	Per brigade headquarters.
Buttons, push.....	1	.....	Per bell, vibrating, 4-ohm.
Cipher device.....	(a)	.....	a 1 per battalion and regimental headquarters; 2 per brigade headquarters.
Clips, Frankel testing.....	(a)	.....	a 2 per each universal test set, type EE 65, and telephone switchboard; 6 per each radio set and battery-charging set.
Cords, switchboard, monocord type.....	(a)	.....	a 2 per switchboard, type BD 9; 3 per switchboard, type BD 11.
Electrolite, in 12-gallon carboy.....	1	.....	Per battery-charging set.
Envelopes, field message.....	500	.....	Per battalion, regimental, and brigade headquarters.
Flashlights, complete, with spare bulb and battery.	(a)	.....	a 18 per battery, 6 per battalion and regimental headquarters, additional to allowance prescribed in Circular No. 152, W. D., 1920.
Fuses, monocord switchboard.....	1	.....	Per 2 lines.
Gloves, rubber, light, pairs.....	2	.....	Per battery charging set.
Grips, Buffalo, with pulleys, complete, pairs.	(a)	.....	a 1 per battery, battalion and regimental headquarters; 2 per brigade headquarters.
Groundman's equipment, type TE-23, sets.	2	.....	Per battery, battalion, regimental, and brigade headquarters. (Note 12.)
Hammers:			
Claw.....	2	.....	Per battery, battalion, regimental, and brigade headquarters.
Sledge, 8-pound.....	2	.....	Do.

SECTION VII.—Communication equipment—Continued.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Headsets, telephone, high efficiency, with soft-rubber ear caps.	(a)		a 6 per battery, battalion, and regimental headquarters; 12 per brigade headquarters.
Hydrometers, Signal Corps, type HY 2.	2		Per battalion, regimental, and brigade headquarters and battery charging set.
Insulators, wooden knobs.	(a)		a 1,000 per battery; 2,000 per battalion, regimental, and brigade headquarters.
Kits:			
Flag, combination.	6		Per battalion, regimental, and brigade headquarters, additional to allowance prescribed in Table III, Circular No. 152, W. D., 1929.
Inspector's pocket.	(a)		a 1 per wire truck and radio set; 4 per battery, battalion, regimental, and brigade headquarters. (Note 13.)
Soldering.	1		Per battery, battalion, regimental, and brigade headquarters. (Note 14.)
Lineman's equipment, type TE 21, sets.	2		Per battery, battalion, regimental, and brigade headquarters. (Note 15.)
Marlin, pounds.	(a)		a 5 pounds per battery, battalion, and regimental headquarters; 10 pounds per brigade headquarters.
Megaphones.	2		Per battery.
Nails, 20 d, pounds.	20		Per battery, battalion, regimental, and brigade headquarters.
Panels, Heavy Artillery, type AP 7, sets.	1		Per battalion, regimental, and brigade headquarters. (Note 16.)
Pliers:			
Diagonal cutting, 5-inch.	2		Per battery, battalion, regimental, and brigade headquarters.
Long oval nose, 5-inch.	2		Do.
Reel carts, pack, type RF 16.	(a)		a 2 per battery and battalion headquarters; 3 per regimental headquarters; 4 per brigade headquarters. (Note 17.)
Reels:			
Hand, buzzer wire.		1	Per buzzer instruction set.
Payout.	2		Per regimental and brigade headquarters.
Rods ground, type GP 16.	2		Per switchboard.
Saws, hand, cross-cut, 26-inch, 8-point.	1		Per battery, battalion, regimental, and brigade headquarters.
Screw driver, cabinet type.	1		Per switchboard.
Screws, iron, r. h., 1½ inch, No. 8, gross.	(a)		a 1 per battery; 2 per battalion, regimental, and brigade headquarters.
Set:			
Battery charging, 14 KW, type SCR 82 or type D, French, complete.	1		Per regiment and brigade headquarters. (Note 18.)
Buzzer instruction, type EE 14.		1	Per battalion, regimental, and brigade headquarters. (Note 19.)
Low frequency amplifier, type SCR 121 or BC 101.	1		Per each radio set SCR 54 A and SCR 105. (Note 20.)
Monocord operator, type EE 64.	1		Per each monocord switchboard. (Note 21.)
Radio, receiving, type SCR 54 A.	1		Per battalion and regimental headquarters. (Note 22.)
Radiotelegraph, type SCR 79 A.	1		Per regimental headquarters. (Note 23.)
Radiotelegraph, type SCR 105.	1		Per battalion and regimental headquarters. (Note 24.)
Radio telephone and telegraph, type SCR 67 A (pending issue of set SCR 132).	1		Per battalion, regimental, and brigade headquarters. (Note 25.)
Test, universal, type EE 65.	1		Per battalion, regimental, and brigade headquarters. (Note 26.)
Shovels, short handled, round point.	2		Per battery, battalion, regimental, and brigade headquarters.
Signal lamps, type EE 7.	(a)		a 2 per battery; 3 per battalion and regimental headquarters; 5 per brigade headquarters. (Note 27.)
Staples, Blake insulated, No. 5, gross.	(a)		a 2 per battery; 4 per battalion, regimental, and brigade headquarters.

SECTION VII.—Communication equipment—Continued.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Strips, terminal, 10 pair.....	(a)		a 2 per battery and battalion head- quarters; 4 per regimental and bri- gade headquarters.
Switchboards, Signal Corps: Type BD 9 (4 line).....	(a)		a 4 per battery; 1 per battalion and regi- mental headquarters.
Type BD 11 (12 line).....	(a)		a 1 per battalion headquarters; 2 per regimental and brigade headquarters.
Switchboard units, type EE 2.....	2		Per battery, battalion, regimental, and brigade headquarters.
Tape:			
Friction, lbs.....	(a)		a 5 lbs. per battery; 10 lbs. per battalion, regimental, and brigade headquarters; 1 lb. per radio set and switchboard.
Rubber, lbs.....	(a)		a 2½ lbs. per battery; 5 lbs. per battalion, regimental, and brigade headquarters; ½ lb. per radio set and switchboard.
Telephones, type EE 4 (camp model)...	(a)		a 12 per battery and brigade head- quarters; 6 per battalion and regi- mental headquarters.
Volt-ammeter, battery, 0-35 amperes; 0-11 volts.....	1		Per battery, battalion, and regimental headquarters.
Watches, wrist, 7-jewel, luminous dial, with wristlet.....	(a)		a 8 per battery, battalion, and regi- mental headquarters; 1 per radio set and switchboard.
Wavemeter, type SCR 125.....	1		Per radio set, type SCR 105.
Wire:			
Buzzer, on ½-mile spools.....		1	Per buzzer instruction set.
Field, twisted pair, 11 strand, type W 40, miles.....	(a)		a 10 per battery; 15 per battalion, 20 per regimental headquarters; 35 per brigade headquarters.
House, twisted pair, feet.....	(a)		a 100 feet per vibrating bell.
Outpost, twisted pair, miles.....	5		Per battery, battalion, regimental, and brigade headquarters.
Outside distributing, twisted pair, No. 17, miles.....	1		Do.

SECTION VIII.—Transportation.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ambulance, motor.....	1		Per battalion and regiment. (Note A.)
Cars, motor:			
CL or CT.....	1		Per brigade headquarters.
DS or DT.....	(a)		a 2 per firing battery; 1 per head- quarters battery, and service battery; 3 per battalion headquarters; 4 per regimental headquarters; 3 per bri- gade headquarters. (Note A.)
Cars, reconnaissance.....	1		Per battalion and regimental head- quarters. (Note A.)
Motorcycles with side cars.....	6		Per firing battery, service battery battalion, regimental, and brigade headquarters. (Note A.)
Spare parts for motor cars, motorcycles, trucks, tractors, and trailers, set.....	1		Per supply truck, load B. (Note 29.)

SECTION VIII—Transportation—Continued.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Tractors: 2½-ton, artillery. (5-ton tractors may be substituted).	1	.....	Per rolling kitchen and water trailer, and per antiaircraft machine-gun trailer. (Note A.)
10-ton, artillery.....	(a)	.....	a 1 per each 155-mm gun and carriage; 1 per each 8-inch howitzer and carriage; 1 per each 9.2-inch howitzer and carriage with transport wagons; 1 per each 9.2-inch howitzer bed with transport wagon and beam trailer; 1 per each 240-mm howitzer, cradle, carriage, and platform, each with limber and transport wagon; 1 spare per each 155-mm gun and 8-inch howitzer battery; 2 spare per each 9.2-inch howitzer battery.
Trailers: Antiaircraft machine gun.....	1	.....	Per battery. (Note A.)
Kitchen, type B.....	1	.....	Per firing battery, headquarters battery, and service battery. (Note A.)
Radio, 1½-ton.....	1	.....	Per battalion headquarters.
Ramp, 10-ton.....	(a)	.....	a 1 per regiment of 155-mm guns and 8-inch howitzers; 2 per battalion of 9.2-inch howitzers and 240-mm howitzers.
Water, ½-ton.....	1	.....	Per firing battery and service battery. (Note A.)
Trucks: F. W. D., 3-ton cargo, type "A" body.	(a)	.....	<p>a 1 per 40 rounds of 155-mm. gun ammunition complete.</p> <p>1 per 25 rounds of 8-inch howitzer ammunition complete.</p> <p>1 per 18 rounds of 9.2-inch howitzer ammunition complete.</p> <p>1 per 13 rounds of 240-mm. howitzer ammunition complete.</p> <p>1 spare for each 10 trucks (issued to supply company).</p> <p>1 for brigade headquarters, rations, and baggage.</p> <p>2 per battalion, regimental, and brigade headquarters—records, mess equipment, office, etc. One of the regimental trucks equipped with pumps and drums for use as a tank truck.</p> <p>2 per brigade headquarters for wire and reels.</p> <p>3 per firing battery, headquarters battery, and service battery—kitchen, rations, and baggage.</p> <p>1 per battery for gasoline drums.</p> <p>1 per each 20 men not otherwise carried. In figuring seats for men the following assignments are considered the maximum permissible.</p> <p>1 man per 155-mm. gun carriage limber; per water trailer.</p> <p>2 men per motorcycle and side car; per tractor; per artillery supply truck; per light delivery truck; per ammunition truck; per special truck; per tank truck; per wire and reel truck; per radio trailer.</p> <p>3 men per 8-inch howitzer carriage limber.</p> <p>5 men per motor car, DS or DT.</p> <p>8 men per kitchen, ration, baggage, record, and radio truck.</p> <p>11 men per reconnaissance car</p> <p>20 men per empty 3-ton truck.</p>

SECTION VIII.—*Transportation—Continued.*

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Trucks—Continued.			
F. W. D., 3-ton, artillery supply:			
Load A.....	1	.....	Per battery.
Load C.....	1	.....	Per regiment. Assigned to service battery. (Note A.)
Load E.....	2	.....	Per battery.
Light repair, Dodge.....	1	.....	Per battery. (Note A.)
Radio operating, type SCR 124 (1½-2 tons (type 3) with special body).	1	.....	Per regimental and brigade headquarters. (Note 23.)
½-ton cargo (or light delivery).....	1	.....	Per battery, administration company, battalion, regimental, and brigade headquarters, for spare wire, telephone, radio equipment, etc. (Note A.)
1½-2 tons, cargo A, for wire and reels.	(a)	.....	1 per battery, battalion, and brigade headquarters; 2 per regimental headquarters. (Note A.)
3-5 ton tank, B. T.....	1	.....	Per battery and service battery. (Note A.)

SECTION VIIIc.—*Additional transportation special for 9.2-inch howitzer.*

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Spare parts for transport wagons and trailers, set.....	1	.....	Per battery. (Note A.)
Tools and accessories for wagon transports and trailers, set.....	1	.....	Do.
Trailer, cargo (4-ton, 4-wheel) for transporting firing beams.....	1	.....	Per howitzer.
Wagons, transport, for:			
Carriage and cradle.....	1	.....	Per howitzer carriage.
Howitzer.....	1	.....	Per howitzer.
Bed.....	1	.....	Per howitzer carriage bed.

SECTION VIIId.—*Additional transportation special for 240-mm. howitzer.*

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Spare parts for:			
Transport limbers, set.....	1	.....	Per battery. (Note A.)
Transport wagons, set.....	1	.....	Do.
Trailers, tools and accessories, 4-ton, 4-wheel.....	2	.....	Per howitzer.
Wagons, transport, for:			
Carriage.....	1	.....	Per howitzer carriage.
Cradle.....	1	.....	Per howitzer cradle.
Howitzer.....	1	.....	Per howitzer.
Platform.....	1	.....	Per howitzer carriage platform.

SECTION IX.—Notes pertaining to table IV-G, motor-drawn brigades and regiments.

NOTE A.

Standard equipment according to the most recent specifications of the particular supply department and as described in the latest edition handbook or pamphlet for that article, its accessories and spare parts.

NOTE B.

TOOLS AND ACCESSORIES FOR MANEUVERING, SETS.

(For 8-inch howitzers only.)

For maneuvering.	Num-ber.	For preparation of position.	Num-ber.
Blocks, tackle, G. S. 4-inch circumference		Adzes.....	4
cordage, snatch.....	4	Adze helves (1 spare).....	5
Carts, trench.....	2	Axes.....	8
Cordage:		Axe helves (4 spare).....	12
Hawser, hemp, 2-strand, 4-inch circum-		Buckets, water, canvas.....	20
ference, 1 coils.....	4	Crowbars, 5 feet 6 inches.....	4
Hawser, wheel purchase.....	8	Hatchets.....	8
Lashings, tarred, 2½-inch circumference,		Hatchet handles (4 spare).....	12
30 feet.....	4	Hooks, bill.....	8
Lashings, tarred, 1½-inch circumference,		Lanterns, with wicks and globes.....	12
18 feet.....	16	Lantern globes (spare).....	12
Lines, "Hambro".....	4	Lantern wicks (spare).....	12
Lines, white, 1-pound skeins, skeins.....	4	Level, masons'.....	4
Ropes, drag, heavy, 36-foot, pairs.....	6	Mauls, wooden, iron-bound, heavy.....	12
Ropes, parbuckling, 4-inch circumfer-		Maul handles (4 spare).....	16
ence, 108 feet.....	4	Picks.....	24
Selvages, 36-inch, Mark II.....	8	Pick helves (6 spare).....	30
Slings, rope, 6-inch circumference, 12½		Rammers, earth.....	12
feet long.....	2	Shovels, short handle.....	12
Slings, rope, 4-inch circumference, 5 feet		Shovel handles, short (spare).....	2
long.....	24	Shovels, long handle.....	32
Twine, packing, middling, balls.....	2	Shovel handles, long (spare).....	8
Twine, whipping, pounds.....	2	Sledge hammer, 10-pound.....	4
Yarn, spun, hemp, tarred, 3-thread.....	8	Sledge-hammer handles (2 spare).....	6
Gins, triangles, 7-ton.....	1	Sickle.....	10
Gins, triangles, falls.....	1	Spades.....	20
Gins, triangles, shoes.....	3	Spade handles (spare).....	4
Gins, triangles, slings.....	2	Stones, scythe.....	2
Gins, triangles, tackles.....	1	Straightedge, 10-foot, wooden.....	2
Handles, winch, No. 7.....	2	Tape, 100 feet, metallic, woven.....	2
Handspikes, common, 6-foot.....	24	Wedges, sawyer's, steel, 10-inch.....	2
Harness man loops, sets.....	8	Wedges, sawyer's, steel, 7-inch.....	4
Jacks, lifting screw, No. 1.....	4	Wheelbarrows.....	8
Lever, 14-foot.....	2		
Planks, moving guns:			
Half, 12 inches by 6 feet.....	8		
Half, 12 inches by 4 feet.....	8		
Special, 15 inches by 10 feet, oak (for bad			
ground).....	24		
Whole, 17 inches by 10 feet, fir.....	8		
Rollers, ground, 6 inches diameter by 3 feet..	4		
Rollers, ground, 5 inches diameter by 2 feet..	4		
Scotches, firing, 21 inches wide, medium.....	8		
Scotches, firing, 21 inches wide, small.....	8		
Scotches, traveling.....	12		
Skids, 6 by 9 inches by 3 feet.....	6		
Skids, 3 by 6 inches by 3 feet.....	4		
Skids, 4 by 5 inches by 3 feet.....	8		
Tackles, luff, 84 feet.....	8		

NOTE 1.

AMMUNITION SECTIONALIZED, SETS.

A.—For 155-mm. gun batteries.

	Number.		Number.
Primer, 21 gr. percussion.....	1	Fuse, point detonating, superquick, Mark III..	1
Shell, 155-mm. common steel.....	1	Fuse, point detonating, nondelay, Mark IV....	1

(All sectionalized.)

B.—For 8-inch howitzer batteries.

	Number.		Number.
Primer, 21 gr. percussion.....	1	Fuse, point detonating, superquick, Mark III..	1
Shell, 8-inch common steel.....	1	Fuse, point detonating, nondelay, Mark IV....	1
Fuze, point detonating, Mark II.....	1	Fuse, point detonating, Mark IX.....	1

(All sectionalized.)

C.—For 9.8-inch howitzer.

	Number.		Number.
Primer, 21 gr. percussion.....	1	Fuse, point detonating, superquick, Mark III..	1
Shell, 9.2-inch common steel.....	1	Fuse, point detonating, nondelay, Mark IV....	1
Fuze, point detonating, Mark II.....	1	Fuse, point detonating, Mark IX.....	1

(All sectionalized.)

D.—For 240-mm. howitzer.

	Number.		Number.
Primer, 21 gr. percussion.....	1	Fuse, point detonating, Mark III.....	1
Shell, 240-mm. common steel.....	1	Fuse, point detonating, Mark IV.....	1
Fuze, point detonating, Mark II.....	1	Fuse, point detonating, Mark IX.....	1

(All sectionalized.)

NOTE 2.

DRAFTING EQUIPMENT, COMPANY, ENGINEER.

Equipment.	Number.	Ink:	Supplies—Continued.	Number.
Board, drawing, 23 by 31 inches, with trestle..	1	Drawing, black, bottles.....		2
Chest, drafting, company, engineer's.....	1	Drawing, blue, bottle.....		1
Eraser, steel.....	1	Drawing, carmine, bottle.....		1
Instruments, drawing, office set.....	1	India, stick.....		1
Measurer, map.....	1	Pads:		
Protractor, G. S., semicircular, 6-inch.....	1	Pencil pointing, 1½ by 4 inches.....		1
Scales:		Scratch, 6 by 9 inches.....		2
Architect's, 12-inch, with sheath.....	1	Paper:		
Engineer's, 12-inch, with sheath.....	1	Blotting, 3¼ by 9¼ inches, dozen.....		1
Map, metric, 30 cm.....	1	Drawing, 22 by 30 inches, gross.....		1
Shield, erasing.....	1	Profile, tracing, 20-inch, 50-yard roll.....		1
Slab, ink.....	1	Pencils:		
T-square, 30-inch.....	1	Drawing, H.....		6
Triangles:		Drawing, 3 H.....		6
30°-60°, 10-inch.....	1	Drawing, 5 H.....		6
45°, 8-inch.....	1	Pens:		
Tubes, tin, 39 by 4 inches diameter.....	3	Crow-quill, dozen, with holder.....		1
		Drawing, Gillott, assorted, gross.....		1
		Mapping, dozen, with holder.....		1
		Pins, cone.....		1
		Tacks, thumb, gross.....		2
		Tape, adhesive, rolls.....		2
		Twine, hemp, 2-ounce ball.....		1
<i>Supplies.</i>				
Books, record, I. P. No. 103, with fillers.....	3			
Cloth, tracing, 30-inch, 24-yard roll.....	1			
Erasers:				
Rubber, pencil.....	2			
Rubber, ink.....	1			
Fillers, book, I. P. No. 103, sets of 50 sheets....	6			

NOTE 3.

DRAFTING EQUIPMENT, BATTALION.

<i>Equipment.</i>	<i>Number.</i>	<i>Supplies.</i>	<i>Number.</i>
Board, drawing, 31 by 42 inches, with trestle..	1	Ink:	
Chest, drafting, battalion.....	1	Drawing, black, bottles.....	2
Dividers, proportional, 8 $\frac{1}{2}$ inch.....	1	Drawing, blue, bottles.....	1
Eraser, steel.....	1	Drawing, brown, bottles.....	1
Instruments, drawing, office sets.....	1	Drawing, carmine, bottles.....	1
Measurer, map.....	1	India, sticks.....	1
Protractor, G. S. semicircular, 8 inch, with case.	1	Pads:	
Scales:		Pencil pointing, 1 $\frac{1}{2}$ by 4 inches.....	1
Architect's, 12-inch, with sheath.....	1	Scratch, 6 by 9 inches.....	4
Engineer's, 12-inch, with sheath.....	1	Paper:	
Map, metric, 30 cm.....	1	Blotting, 3 $\frac{1}{4}$ by 9 $\frac{1}{4}$ inches, dozen.....	1
Shield, erasing.....	1	Cross section, 20-inch, 10-yard roll.....	1
Slab, ink.....	1	Drawing, 30-inch, 30-yard roll.....	1
Slide rule, 16-inch, with case.....	1	Tracing, 30-inch, 10-yard roll.....	1
T-square, 42-inch.....	1	Wrapping, 40 by 48 inches, dozen.....	2
Tables, logarithm, 7 place.....	1	Paste, library, 8-ounce jar.....	1
Triangles:		Pencils:	
30°-60°, 10-inch.....	1	Drawing H.....	6
45°, 8-inch.....	1	Drawing 3H.....	6
Tubes, tin, 39 by 4 inches, diameter.....	4	Drawing 5H.....	6
Supplies.		Pens:	
Book, record, I. P. No. 103, with fillers.....	3	Crow-quill, dozen, with holder.....	1
Cloth, tracing, 30-inch, 24-yard roll.....	1	Drawing, Gillott, assorted, gross.....	1
Erasers:		Mapping, dozen, with holder.....	1
Rubber, pencil.....	2	Pins, cone.....	1
Rubber, ink.....	1	Tacks, thumb, gross.....	3
Fillers, book, I. P. No. 103, sets of 50 sheets....	6	Tape, adhesive, rolls.....	2
		Twine, hemp, 2-ounce balls.....	1

NOTE 4.

DRAFTING EQUIPMENT, REGIMENTAL, ENGINEER.

<i>Equipment.</i>	<i>Number.</i>	<i>Supplies.</i>	<i>Number.</i>
Boards, drawing, 31 by 42 inches, with trestles..	2	Ink:	
Chest, drafting, regimental, engineer.....	1	Drawing, black, bottles.....	4
Dividers, proportional, 8 $\frac{1}{2}$ inch.....	2	Drawing, blue, bottles.....	2
Erasers, steel.....	2	Drawing, brown, bottles.....	2
Instruments, drawing, office sets.....	2	Drawing, carmine, bottles.....	2
Measurers, map.....	2	India, sticks.....	2
Pantograph, with case.....	1	Pads:	
Protractors, G. S. semicircular, 8-inch, with case.	2	Pencil pointing, 1 $\frac{1}{2}$ by 4 inches.....	2
Scales:		Scratch, 6 by 9 inches.....	4
Architect's, 12-inch, with sheath.....	2	Paper:	
Engineer's, 12-inch, with sheath.....	2	Blotting, 3 $\frac{1}{4}$ by 9 $\frac{1}{4}$ inches, dozen.....	2
Map, metric, 30 cm.....	2	Cross section, 20-inch, 10-yard roll.....	1
Shields, erasing.....	2	Drawing, 30-inch, 30-yard rolls.....	2
Slabs, ink.....	2	Tracing, 30-inch, 10-yard roll.....	1
Slide rules, 16-inch, with case.....	2	Wrapping, 40 by 48 inches, dozen.....	4
T-squares, 42-inch.....	2	Paste, library, 8-ounce jar.....	1
Tables, logarithm, 7-place.....	1	Pencils:	
Triangles:		Drawing, H.....	12
30°-60°, 10-inch.....	2	Drawing, 3H.....	12
45°, 8-inch.....	2	Drawing, 5H.....	12
Tubes, tin, 39 by 4 inches, diameter.....	4	Pens:	
Supplies.		Crow-quill, dozen, with holder.....	2
Books, record, I. P. No. 103, with fillers.....	6	Drawing, Gillott, assorted, gross.....	2
Cloth, tracing, 30-inch, 24-yard roll.....	2	Mapping, dozen, with holder.....	4
Erasers:		Pins, cone.....	1
Rubber, pencil.....	4	Tacks, thumb, gross.....	6
Rubber, ink.....	2	Tape, adhesive, rolls.....	4
Fillers, book, I. P. No. 103, sets of 50 sheets....	12	Twine, hemp, 2-ounce balls.....	2

NOTE 5.

DRAFTING SUPPLIES.

(In addition to supplies furnished with drafting equipment, sets.)

Supplies.	Battery.	Battalion headquarters and battalion section of headquarters company.	Regimental headquarters and regimental section of headquarters company.	Brigade headquarters.
Horn centers.....	3	3	3	6
Paper:				
Cross section, tracing, 20-inch, 10-yard roll.....	1	1	1	2
Drawing, mounted, 20 by 30 inches, sheets.....	24			
Drawing, mounted, 30 by 45 inches, sheets.....	24	24	24	
Pencils, drawing, 7 H.....	6	6	6	
Penholders, writing.....	2	2	2	6
Pins, colored head, map tacks, boxes of 100:				
Black.....	1	1	1	1
Blue.....	1	1	1	1
Brown.....	1	1	1	1
Green.....	1	1	1	1
Red.....	1	1	1	1

NOTE 6.

WATER COLORS, SET.

Japanned tin box containing 12 half pans of the following Winsor and Newton colors:

- | | |
|--------------------------|-----------------------------|
| 1. Ivory black. | 9. Orange chrome. |
| 2. Mauve. | 10. Chrome yellow. |
| 3. Hooker's green No. 2. | 11. Chinese white. |
| 4. Emerald green. | 12. Prussian blue. |
| 5. Vandyke brown. | Also the following brushes: |
| 6. Raw umber. | 1 No. 2. |
| 7. Crimson lake. | 1 No. 4. |
| 8. Vermilion. | 1 No. 6. |

NOTE 7.

MAP REPRODUCTION EQUIPMENT, CYCLOSTYLE.

<i>Equipment.</i>	Number.	<i>Supplies.</i>	Number.
Frame, printing, consisting of base, zinc plate and hinged stretcher frame, 21 by 28 inches.	1	Ink, printers:	
Frames, stretcher, for silk.....	6	Black, 1-pound tubes.....	5
Rollers, ink, hand, 14 inch.....	2	Blue, 1-pound tubes.....	5
Stylii, tooth-wheeled, ball points.....	4	Green, 1-pound tubes.....	5
		Red, 1-pound tubes.....	5
		Yellow, 1-pound tubes.....	5
<i>Supplies.</i>		Paper, books, 19 by 24 inches, reams.....	3
Celluloid, transparent, 24 by 28 inches, sheets.	2	Silk, white, fine mesh, 24 by 28 inches, sheets..	6
		Stencils, wax paper, 24 by 28 inches, sheets....	48

NOTE 8.

SKETCHING OUTFIT.

<i>Equipment.</i>	Number.	<i>Supplies.</i>	Number.
Alidade, boxwood.....	1	Paper, sketching, gross.....	1
Boards, sketching, with W. P. covers.....	1	Pencils:	
Chest, sketching outfit.....	1	Blue.....	4
Clinometer, service, with case.....	1	Drawing, H.....	16
Compass, prismatic, with case.....	1	Green.....	4
Pace tally.....	1	Red.....	4
Strap, wrist.....	1	Protectors, pencil point.....	4
Tripod, wood, folding.....	1	Tape, adhesive, rolls.....	2
<i>Supplies.</i>			
Celluloid, sheets, 12½ by 13½ inches.....	12		
Erasers, rubber, pencil.....	4		

NOTE 9.

SUPPLIES, SURVEYING EQUIPMENT.

Supplies.	Battery.	Battalion headquarters and battalion section of headquarters company.	Regimental headquarters and regimental section of headquarters company.	Brigade headquarters.
Books, transit.....		6	6	
Celluloid sheets:				
18 by 24 inches.....	12	12		
24 by 31 inches.....	12	12		12
Crayons, lumber, red, boxes.....	1	1	1	1
Paper, plane table:				
18 by 24 inches, sheets, dozen.....	2	2		
24 by 31 inches, sheets, dozen.....	2	2		2

NOTE 10.

CAMOUFLAGE EQUIPMENT, SETS.

The material required will be issued on special requisition of commanding officer and will depend upon local conditions.

NOTE 11.

BAG, TOOL SERVICE, COMPLETE.

The bag is made of canvas; approximate dimensions, 17 inches long, 7 inches wide at the base, and 8 inches high.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment.</i>	<i>Number.</i>
Try-square, steel, 4-inch blade.....	1	Screw drivers:	
Chisels:		6-inch blade.....	1
Cold, ½-inch.....	1	10-inch blade.....	1
Wood, ½-inch socket blade, iron, ring-topped handle, Jennings, No. 15.....	1	Solder, resin core, pound.....	1
Hammer, claw, bell faced, 16-ounce.....	1	Wrenches:	
Holder, tool, and 10 high grade steel tools.....	1	Screw, forged, 6-inch, monkey.....	1
Knife, electrician's, 2 blades.....	1	Socket, for telephone apparatus, 4-inch.....	1
Level, pocket spirit, 3-inch.....	1	Brace, ratchet, 8-inch throw.....	1
Plane, block, 6-inch, 1½-inch cutter.....	1	Bits, auger, solid center double cutter extension lips:	
Pliers:		½-inch.....	1
Pair, 6-inch, side-cutting.....	1	¾-inch.....	1
Pair, 8-inch, side-cutting.....	1	1-inch.....	1
Rule, 4-foot, folding, boxwood, 8 parts.....	1	1-inch.....	1
Saw, back, 10-inch.....	1	Polarity indicator.....	1

NOTE 12.

GROUNDMAN'S EQUIPMENT, TYPE TE-23, SETS.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment.</i>	<i>Number.</i>
Belt, plain.....	1	Gloves, leather, pair.....	1
Pliers, 8-inch.....	1		

NOTE 13.

KIT, INSPECTOR'S POCKET, COMPLETE.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment.</i>	<i>Number.</i>
Case, carrying, inspector's pocket kit.....	1	File, half-round bastard, with handle, 3-inch.....	1
Screw driver and skinning knife combined, with safety spring.....	1	Tweezers, 4½-inch, pair.....	1
Scissors, electrician's, 5-inch.....	1	Screw driver, 2-inch.....	1
Pliers, side-cutting, 5-inch.....	1	Rule, 2-foot, four-fold, narrow, boxwood.....	1

NOTE 14.

KIT, SOLDERING, COMPLETE.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment.</i>	<i>Number.</i>
Torch, gasoline, with hook support on burner, pint size.....	1	Sheets of sandpaper, No. 1.....	4
Soldering copper, $\frac{1}{2}$ -pound, with handle.....	1	Spools of resin core solder, 5 pounds each.....	2
		Oak containing case, 10 $\frac{1}{4}$ by 8 $\frac{1}{4}$ by 11 inches....	1

NOTE 15.

LINEMAN'S EQUIPMENT, TYPE TE-21.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment.</i>	<i>Number.</i>
Axe, hand, lineman, 4 pounds.....	1	Pair or set of climbers, lineman, with straps and pads (not over 16 $\frac{1}{2}$ inches).....	1
Belt, lineman, and safety straps.....	1	Pliers, side-cutting, 8-inch.....	1
Clamp, splicing, combination, 10 $\frac{1}{4}$ -inch.....	1	Screw driver, 10-inch blade.....	1
		Wrench, lag, combination, 13 $\frac{1}{4}$ -inch.....	1

NOTE 16.

PANELS, SIGNALING, ARMY ARTILLERY, TYPE AP-7, SETS.

A series of light, readily portable black and white cotton panels for aerial communication with Heavy Artillery (railway or motorized) at brigade, regiment, and battalion, Spec. 591B. Dwg., 50J01B1, comprise:

<i>Panel, Heavy Artillery:</i>	<i>Number.</i>	<i>Panel, Heavy Artillery—Continued.</i>	<i>Number.</i>
Identification—		Signaling—Continued.	
Type AL 55, black cotton lozenge, 29 feet 6 inches by 29 feet 6 inches; the diagonals having a ratio of 2:3.....	1	Type AL 58, white cotton rectangle, 9 feet 10 inches by 29 feet 6 inches....	3
Type AL 56, white cotton lozenge, 29 feet 6 inches by 29 feet 6 inches; the diagonals having a ratio of 2:3.....	1	Distinguishing—	
Signaling—		Type AL 59, black cotton lozenge, 9 feet 10 inches by 9 feet 10 inches; the diagonals having a ratio of 2:3.....	3
Type AL 57, black cotton rectangle, 9 feet 10 inches by 29 feet 6 inches.....	3	Type AL 60, white cotton lozenge, 9 feet 10 inches by 9 feet 10 inches; the diagonals having a ratio of 2:3.....	3

NOTE 17.

REEL CART, PACK, TYPE RL-16.

1. This cart was designed for use in the Cavalry and is constructed on the knock-down principle, that it may be taken apart to pack on the back of an animal, and its total weight is approximately one hundred five (105) pounds. When disassembled for packing, it consists of five parts, viz., two (2) wheels, frame, pole, and axle for reel. The wheels are of motor-cycle type, are ball bearing, and are equipped with solid rubber tires.

2. The entire cart may be assembled in a few moments without the use of tools, the several parts being provided with tapered sockets and are drawn together by eccentric clamps which hold them very rigidly. This cart will carry two (2) steel spools of the French type, seven (7) inches wide and twenty-two (22) inches in diameter, each holding one (1) mile of single or one-half ($\frac{1}{2}$) mile of twisted pair eleven (11) strand field wire weighing complete with spools one hundred and twelve (112) pounds.

3. The cart with its full load of wire may be easily drawn by two (2) men over ordinary ground, the wire being paid out or picked up as may be desired, a crank provided for picking up the wire being operated by a third man.

4. This equipment packs on the ordnance type aparejo and pack frame, two separate devices being provided for carrying the wheels. These are fastened to the frame by means of the eccentric catch, the same as is used for ammunition carriers of the mountain gun. The reels with wire are carried on separate animals, each animal carrying two reels. The same ordnance type equipment is used for these reels as for the cart, but the hanger for the reel is slightly different than that used for carrying the reel of the cart.

NOTE 18.

SET, BATTERY-CHARGING, TYPE SCR-82.

1½-kilowatt, 25 and 125 volt, battery-charging set, complete, with engine, direct-connected generator, switchboard, and accessories.

	Number.
Gasoline engine, type GE-2, four-cycle, air-cooled, 1,200 revolutions per minute, 3-horsepower, complete with coupling, gasoline tank, muffler, piping, etc.....	1
Generator, type GN-9, direct connected, 25 and 115 volts, 2,000 watts.....	1
Panel, type BD-4, charging, bakelite dielecto, 24 by 18 by ¼ inch.....	1
Panel, type BD-5, charging, three-circuit, bakelite dielecto, 24 by 18 by ¼ inch.....	1

NOTE 19.

SET, BUZZER INSTRUCTION, TYPE EE-14.

	Number.		Number.
Buzzer.....	1	Head receivers and necessary connecting cords.....	1
Telegraph key.....	1	Jacks.....	1

NOTE 20.

SET, LOW-FREQUENCY AMPLIFIER, TYPE SCR-121.

A two-stage vacuum-tube audio-frequency amplifier using iron core transformers, furnished with the required connection cords so that the amplifier may be used on any radio-receiving set, comprises:

	Number.
Equipment, type PE-10, or equipment, type PE-29.....	1
Equipment, type PE-10:	
Batteries, type BB-14 (1 in use, 2 spare), storage, lead, 2-cell, 4-volt, 90 ampere-hour; 15 plates, 8½ by 7½ by 1¼ inches; weight, 37 pounds; celluloid or hard-rubber jar; nonspill design.....	3
Equipment, type PE-29:	
Batteries, type BB-28 (1 in use, 2 spare), storage, 2-cell, 4-volt, 90 ampere-hour, lead, hard-rubber jars of nonspill design; dimensions, approximately, 7½ by 8 by 10¼ inches; specification, 70-3.....	3
Equipment, type RC-11.....	1
Set box, BC-44 (2-stage amplifier).....	1
Cords, CD-40 (extension cords—8 feet of 2 cords, No. 16 B. & S. lamp cord, with appropriate terminals and plugs).....	2
Cord, CD-56, 3-foot extension with clips and plug.....	1
Head sets, type P-11 (1 in use, 1 spare).....	2
Batteries, type BA-2 (2 in use, 2 spare).....	4
Tubes, type VT-1 (2 in use, 2 spare).....	4

For further information, see Radio Pamphlet 10.

NOTE 21.

SET, MONOCORD OPERATOR'S, TYPE EE-64.

1. This set has been designed to replace the several types of telephone which have been used as operator's sets in connection with the monocord switchboards, type EE-2. It is contained in a fiber-covered wooden case and provided with adjustable webbing shoulder carrying strap. It is ten (10) inches long, six and three-quarter (6¾) inches wide, and seven and one-eighth (7¼) inches high, and weighs approximately fifteen (15) pounds.

2. The equipment of the set consists of a generator, buzzer, induction coil, single head receiver, adjustable transmitter, buzzer for night alarm, operator's switch and ringing key, two (2) BA-1 batteries with a switch that either may be used, and connection cord and plug. The circuit is so arranged that the operator answers the call by inserting the plug connected to the switchboard unit in the jack of the calling line, and on ascertaining the line desired completes the connection by placing the plug of the calling line in the jack of the desired line and ringing the telephone on that line by operating the generator of the switchboard without the manipulation of any keys.

He then may listen on the line until the called party answers, after which he can remove his plug. Should, however, the calling party leave his telephone and it is desired to recall him before the operator's plug is removed, this may be done by throwing the ringing key in the opposite direction and operating the generator of the switch board. The buzzer for the night alarm is connected to the same key, and should the operator leave the switchboard this buzzer may be switched in circuit and the battery of the transmitter cut out at the same time.

3. The set is entirely self-contained and on closing the cover the several parts are protected from mechanical injury and the battery switch is automatically thrown to the "off" position, thereby cutting the battery out of circuit.

NOTE 22.

SET, RADIO RECEIVING, TYPE SCR-54-A.

(See Radio Pamphlet No. 3.)

	Number.
Equipment, type RC-1-A, radio-receiving	1
1 set box, type BC-14-A, for receiving damped or modulated wave signals, wave length range, 200 to 600 meters; wooden box 8 $\frac{1}{2}$ by 12 $\frac{3}{8}$ by 4 $\frac{3}{8}$ inches, with hinged waterproof cover 3 $\frac{3}{4}$ inches deep, bakelite operating panel; box contains: primary and secondary tuned circuits inductively coupled and each comprising adjustable inductance and capacitance; coupling adjustable; secondary may be made aperiodic and it comprises crystal detector and double telephone jack; calibration chart furnished with the box. Contains the following separate parts:	
Strap, ST-5, carrying	1
Head sets, P-11, telephone receivers	2
Crystals, DC-1, detectors (spare)	
Batteries, BA-4, 1.5-volt primary cells (1 in use, 1 spare)	2
Screw driver, TL-2, 4-inch, Stanley	1
Wire, W-20, 7-strand, rubber covered and silk braid	30 feet..
Contact springs, M-14, for crystal detector (spare)	2
Equipment, type A-2-A or A-2-B, antenna	1
Mast sections, type MS-5, bamboo, 14 foot iron tips	6
Insulators, type IN-6, bakelite	6
Pins, type FT-3, metal, for mounting insulators	6
Wire:	
Type W-1, 7-strand, No. 22, soft tinned copper, bare	750 feet..
Type W-4, single conductor, 26-strand, insulated	75 feet..
Type W-2, No. 14, bare soft copper	2 pounds..
Mat, type MT-2, ground, copper-mesh, 9 feet by 1 foot 8 inches	1
Stakes, type GP-3, ground, angle-iron, 2 $\frac{1}{2}$ feet long	14
Insulators, type IN-5, strain, hard rubber	8
Couplers, type FT-2, cast-iron, for masts	6
Rope, type RP-1, $\frac{3}{8}$ inch, manila	150 feet..
Reels, type RL-3, hand, for antenna	4
Pliers, type TL-20, combination, 8-inch	1
Tape, type TL-83, friction, $\frac{1}{4}$ inch	1 pound..
Marlin, type RP-2, 42-foot lengths, tarred, $\frac{1}{8}$ inch	2 coils..
Chest, type BC-26, carrying, wooden, for carrying set	1

NOTE 23.

SET, U. W. RADIOTELEGRAPH, TYPE SCR-79-A.

(See Radio Pamphlet No. 17.)

Transmitting and receiving; wave-length range, 500 to 1,100 meters; inductively coupled vacuum-tube oscillator for transmitting and a vacuum-tube detector and two-stage amplifier for receiving. Requires a low-resistance antenna.

	Number.
Equipment, type PE-7, power	1
Batteries, BB-14, storage, lead, 2 cells, 4 volts, 90 ampere-hours	9
Dynamotor, DM-1, D. C. to D. C., 10-300 volts, 50 watts; weight, 15 pounds	1
Box, BC-25 or 25-A, aluminum, for dynamotor	1

	Number.
Equipment, type RE-5-A, radio.....	1
Chest, BC-43, wooden, carrying.....	1
Set box, BC-32-A, transmitting and receiving.....	1
Tubes:	
VT-1, receiving and amplification.....	6
VT-2, transmitting.....	4
Batteries, BA-2, dry, 22 volts, 15 cells in box.....	4
Head sets, P-11, phones.....	2
Key J-12, telegraph; base, 2½ by 3½ inches.....	1
Set box, BC-40; wave-length range, 500 to 1,100 meters, comprises a variometer inductance, a fixed condenser, carbon rheostat, indicator lamp socket, buzzer, dry-battery clips, and inclosed in a box 4¼ by 5¾ by 3½ inches over all.....	1
Cords:	
CD-49, extension, 1 foot 6 inches, with terminals.....	2
CD-38, extension, 1 foot, with terminals.....	5
Wire, W-7, annunciator No. 18, cotton insulated..... pounds.....	2
Batteries, BA-4, dry, 1.5 volts, 1 cell (1 in use, 3 spare).....	4
Lamps, LM-4, incandescent bulb, 2.5 volts, for wave meter (1 in use, 3 spare).....	4
Screw driver, TL-21, 6-inch.....	1
Voltmeter, 1-10, D. C. 0-10 volts and 0-50 volts.....	1
Clock, 1-15, auto, 15-jewel Waltham, 8-day.....	1
Pliers, TL-19, combination, 6-inch.....	1
Tape, TL-83, friction, ¾ inch..... pound.....	½
Cords:	
CD-15, extension, 5 feet 6 inches, with terminals.....	3
CD-47, extension, 5½ feet, with terminals.....	2
CD-48, extension, 6 feet, with terminals.....	2
Equipment, type A-9, antenna.....	1
Insulators:	
IN-5, strain, hard rubber.....	2
IN-7, bakelite on pin.....	6
Couplers, FT-2, cast-iron, for masts.....	6
Mats, MT-3, ground, 13 feet by 3 feet 4 inches.....	3
Wire, W-1, 7-strand, No. 22, copper, bare..... feet.....	750
Reels, RL-3, hand, for antenna.....	2
Wire, W-6, 26-strand, weatherproof..... feet.....	300
Masts, MS-5, bamboo, 13 feet, iron tips.....	6
Bags, BG-14, carrying, canvas, 2 feet 7½ inches by 4 inches.....	2
Stakes, GP-3, ground, angle-iron, 2½ feet long.....	12
Bag, BG-8, carrying, 20 by 14 by 3 inches.....	1
Wire, W-4, lamp cord, 26-strand, weatherproof..... feet.....	50
Hammer, HM-1, 2-face, 2 pounds, 16-inch handle.....	1
Marlin, RP-2, tarred, ¼ inch..... pound.....	½
Cord, RP-3, sash, No. 5, ¼ inch..... feet.....	300

NOTE 24.

SET, RADIOTELEGRAPH, TYPE SCR-106.

Transmitting and receiving; comprises a special polarized, double-winding transmitting buzzer, with radio-frequency quenched interrupter, quenched spark gap, an adjustment for six fixed wave-lengths settings and one crystal detector; the radio circuits, spares, and accessories are contained in the set box; the operating panel is covered by a canvas flap for transportation; working range, 5 miles, with amplifier 20 miles: compris-s:

	Number.
Equipment, type PE-11, power.....	1
Batteries, type BB-23; storage, lead, 5 cells, 10 volts, 17 ampere-hours.....	3
Equipment, type RE-12, radio.....	1
Set box, type BC-53, transmitting and receiving.....	1
Cords, type CD-64, extension, 4 feet, with terminals.....	2
Head sets, type P-11, telephone.....	2
Lamps, type LM-4, 2.5 volts, 0-35 amperes.....	4
Crystals, type DC-1, detector.....	4

Equipment, type RE-12, radio—Continued.

	Number.
Contacts:	
Type CN-8.....	1
Type CN-9.....	2
Separators, type IN-9, mica, 0.005 inch thick, 1½ inches diameter.....	6
Screw driver, 4-inch.....	1
File, flat, needle, 3½ inches.....	1
Equipment, type A-10-A, antenna.....	1
Roll, type M-15, carrying.....	1
Mastsections, type MS-14, wood, 6 feet 9½ inches long by 1½ inches diameter.....	12
Mat, type MT-5, ground.....	1
Bag, type BG-12, carrying.....	1
Antennae, type AN-7, wound on 1 hand reel, type RL-3.....	2
Guys, type GY-4, carried on 3 hand reels, type RL-3.....	6
Counterpoise, type CP-5, consisting of 75 feet of type W-6 wire, to be wound on hand reel, type RL-3.....	1
Reels, type RL-3, hand.....	7
Hammer, 2 face, 2 pound.....	1
Pliers, 6-inch combination..... pair	0
Wire, type W-24, antenna, to be wound on hand reel, type RL-3..... feet	50
Cord, No. 5, olive-drab braided cotton, 5/32 inch diameter.....	15
Stakes, type GP-8, ground.....	6
Insulators, type IN-10, spares.....	40
Friction tape, roll.....	1
Wire, type W-4, lead-in..... feet	25

NOTE 25.

SET, RADIOTELEPHONE, TYPE SCR-67-A.

(See Radio Pamphlet No. 22.)

	Number.
Equipment, type PE-2-A; power.....	1
Batteries, type BB-5 or type BB-14.....	6
Power board, type BD-1-A.....	1
Cord, type CD-48.....	1
Cords, type CD-38; 1 in use, 1 spare.....	2
Equipment, type RE-2-A; radio.....	1
Set box, type BC-13-A.....	1
Cord, type CD-23; power board to set box.....	1
Cord, type CD-25; set box to operator's cut-in switch.....	1
Cord, type CD-24; set box to operator's jack.....	1
Head, sets, type P-11; 1 in use, 1 spare.....	2
Transmitters, type T-3; 1 in use, 1 spare.....	2
Tubes, type VT-1; 3 in use, 13 spares.....	16
Tubes, type VT-2; 2 in use, 14 spares.....	16
Batteries, type BA-2; 2 in use, 6 spares.....	8
Equipment, type A-9; antenna.....	1
Insulators, type IN-5.....	6
Insulators, type IN-7.....	6
Couplers, type FT-2.....	6
Mats type MT-3.....	3
Wire, type W-1..... feet	750
Reels, type RL-3.....	2
Wire, type W-6..... feet	300
Mast sections, type MS-5.....	6
Bags, type BG-14.....	2
Stakes, type GP-3.....	12
Bag, type BG-8.....	1
Wire, type W-4..... feet	50
Hammer, type HM-1.....	1
Marlin, type RP-2..... pound	½
Cord, type RP-3..... feet	300

Set, U. W. Radiotelegraph and Telephone, type SCR-132 which will be substituted for type SCR-67-A, comprises:

Ground set to work with Army observation planes. Working range in miles, telephone 80-100, telegraph 200-250; transmitting wave lengths, 800-1,900 meters, receiving 550-2,200.

NOTE 26.

SET, TEST, UNIVERSAL, TYPE EE-65.

1. This testing set is designed for testing and locating practically all troubles on magneto telephone lines and apparatus, and combines all the features of a condensed wire chief's desk that is used in connection with commercial telephone exchanges. It is inclosed in a suitable carrying case approximately six (6) inches deep, eight and one-quarter ($8\frac{1}{4}$) inches wide, and ten and seven-eighths ($10\frac{7}{8}$) inches high, weighs about fourteen (14) pounds and is provided with a shoulder carrying strap that it may be easily transported in the field.

2. The equipment of the set consists of a generator, condenser, voltmeter, buzzer, five (5) keys, induction coil, single head receiver, transmitter, test clips and cords, ground rod, BA-1 battery for transmitter and two (2) BA-2 batteries for testing, and is designed for making the following principle tests on either grounded or metallic circuits:

- (a) Talking to other telephones connected to the line.
- (b) Ringing.
- (c) Continuity tests.
- (d) Tests for short circuits.
- (e) Tests for grounds.
- (f) Tests for crosses with lines carrying current, such as telegraph lines and common battery telephone lines.
- (g) Tests for crosses with other telephone lines.
- (h) Measuring voltage of batteries.

3. The telephone equipment consists of a generator, buzzer, induction coil, transmitter and receiver and provides all the necessary ringing and talking equipment that the test man may not need an additional telephone and he may also use this as the ordinary lineman's test set. The voltmeter is of the Weston model 280 pattern and has a range of fifty (50) volts, thereby providing means of reading the voltage of outside batteries of this potential or less.

4. By means of the several keys, the several tests already named can be made without changing the connections. Curves are provided that the resistance measurements may be easily read regardless of the voltage of the self-contained battery or of an external battery if used.

NOTE 27.

SIGNAL LAMP, TYPE EE-7.

Outfit comprises:

- 1 case, $22\frac{1}{2}$ by 12 by $13\frac{1}{2}$ inches; wood.
- 1 lamp, 24-centimeter; with cord and plug.
- 1 cord, extension; with plug on one end and socket on the other end.
- 1 belt, carrying, with shoulder straps and three leather cases, two containing a 4-cell battery each, and one equipped with sending key and socket.

Outfit comprises—continued.

- 1 cotton, medicated, package of: 1 ounce.
- 4 bulbs: 3 clear, 1 ruby; spare.
- 1 field pamphlet No. 1.
- 8 batteries, type BA-11.
- Weight of set complete, 36 pounds.

For further information, see Field Pamphlet No. 1.

NOTE 28.

TRUCK, RADIO-OPERATING, TYPE SCR-124.

Consists of a $1\frac{1}{2}$ -ton White chassis, pneumatic tires, on which is mounted a fully inclosed body containing space for radio sets and one battery-charging set (SCR-82 will be supplied until such time as the SCR-110 is available).

NOTE 29.

SPARE PARTS FOR MOTOR CARS, MOTOR CYCLES, TRUCKS, TRACTORS, AND TRAILERS.

One Ordnance Heavy Maintenance Company is authorized for each brigade of heavy artillery composed of 155 mm. guns, 8-inch howitzers, 9.2-inch howitzers and 240 mm. howitzers. Within this maintenance company there is included a detachable section for each motorized regiment entering into the composition of the brigade, with each of which there is provided the following:

	Number.		Number.
Trucks:		Trucks—continued.	
3-ton cargo.....	3	Artillery supply, load B.....	3
Artillery repair.....	3	Artillery supply, load D.....	3

Artillery supply trucks, load B, carry a limited number of spare parts for the repair of motor vehicles belonging to motorized artillery organizations.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
Major General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

[Cir. 16]

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No. 16. }

WAR DEPARTMENT,
WASHINGTON, January 13, 1921.

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR COAST ARTILLERY TROOPS—TABLE IV-G, FIXED ARMAMENT—AMENDMENT TO CIRCULAR NO. 152, WAR DEPARTMENT, 1920.

Circular No. 152, War Department, 1920 (Tables of basic allowances), is supplemented by adding the following table with notes prescribing the basic allowances of individual and organizational equipment special to Coast Artillery troops serving fixed armament.

TABLE IV-G.—EQUIPMENT—FIXED ARMAMENT.

- Section I.—Individual equipment.
- Section II.—Automatic rifles and machine guns.
- Section III.—Ammunition, armament, and accessories.
- Section IV.—Engineering equipment.
- Section V.—Fire-control equipment.
- Section VI.—Miscellaneous equipment.
- Section VII.—Communication and signaling equipment.
- Section VIII.—Notes.

SECTION I.—Individual equipment.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition, small arms.....	(a)		a Note 1. b 10 per company for instruction purposes.
Gas masks.....	(a)	(b)	
Pistols.....	(a)		a 1 per enlisted man of grades 1, 2 and 3, cook, bugler, bandsman, and enlisted man of mine planter detachment. Per enlisted man except grades 1, 2 and 3, bandsman, cook, bugler, and enlisted man of mine planter detachment.
Rifles.....	1		

SECTION II.—Automatic rifles and machine guns.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Cartridges, ball, cal. 30, for automatic rifles.	2,000	.....	Per automatic rifle. (Note 1.)
Cartridges, ball, cal. 30, for antiaircraft machine guns.	10,000	.....	Per antiaircraft machine gun. (Note 1.)
Machine guns, antiaircraft.....	2	.....	Per each detached and isolated battery, each two contiguous or adjacent batteries, each mine planter. (Note A.)
Rifles, automatic.....	(e)	.....	2 per each battle, fort, fire, and mine commander's station housed in detached and separate structures; each battery commander's station and observing station remote from a battery equipped with antiaircraft machine guns; each searchlight, mining case-mate, signal station, radio station, switchboard room, and power plant remote from batteries or stations armed with machine guns or automatic rifles; 4 per mine planter. (Note A.) (To be held in store at each coast defense and issued only when directed by coast defense commander.)
Spare parts, tools and accessories for antiaircraft machine guns, set.	1	.....	Per each antiaircraft machine gun. (Note A.)

SECTION III.—Ammunition, armament, and accessories.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition, seacoast armament.....	(e)	.....	As prescribed in War Department instructions.
Boards, fuze, sectionalized.....	.....	1	Per company. (Note A.)
Boards, primer, sectionalized.....	.....	1	Do
Bottle, glass stopper.....	1	.....	Per powder sample.
Chests, armament, complete, with contents.	(e)	.....	1 per gun and carriage; 1 per 2 or 4 mortars and carriages according to type, model and number per battery. (Note A.)
Clinometer, striding.....	1	.....	Per fort.
Drill cartridge cases, empty.....	5	.....	Per gun using fixed ammunition.
Dummy projectiles and dummy cartridges, sets.	2	.....	Per gun or mortar using separate loading ammunition.
Extractors:			
Hand, for dummy cartridges.....	1	.....	Do.
Hand, for dummy projectiles.....	1	.....	Do.
Packing.....	1	.....	Per battery of guns or mortars 6-inch or larger caliber.
Power, for dummy projectiles.....	1	.....	Per battery using separate loading ammunition.
Gauge, pressure, outfits, complete:			
Medium caliber.....	1	.....	Per battery of guns 2.95-inch or larger caliber. (Note A.)
Major caliber.....	1	.....	Per battery of guns or mortars 8-inch or larger caliber. (Note A.)
Guns, saluting, complete.....	(e)	.....	1 per fort; 2 per fort designated as a saluting station.

SECTION III.—Ammunition, armament, and accessories—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Guns, subcaliber, complete, with accessories.	1	.....	Per mortar; per gun using separate loading ammunition, as heretofore issued. (No more to be manufactured for guns.)
Implements furnished for each gun and carriage or mortar and carriage, set.	1	.....	Per gun or mortar. (Note A.)
Kits, subcaliber and drill cartridge, complete.	1	.....	Per gun using fixed ammunition.
Platforms, subcaliber, complete.....	1	.....	Per gun mounted on disappearing carriage having subcaliber gun assigned thereto.
Quadrants:			
Elevation.....	(a)	.....	a 1 per mortar and 20 per centum spares.
Gunnery.....	(a)	.....	a 1 per each gun and mortar battery; 2 spare per each fort.
Rests, striding clinometer.....	(a)	.....	a 1 per each caliber gun and mortar at each fort.
Sights:			
Bore, set.....	1	.....	Per battery.
Telescopic.....	(a)	.....	a 1 per gun; 40 per centum spares for guns of 6-inch or smaller caliber; 20 per centum spares for guns above 6-inch caliber. (Note A.)
Sling psychrometer.....	1	.....	Per battery having powder in storage cases.
Spare parts for armament, etc.....	(a)	.....	a See Note B.
Tanks, oil storage, complete, with accessories:			
30-gallon.....	2	.....	Per battery of guns or mortars 8-inch or larger caliber.
60-gallon.....	1	.....	Do.
Thermometers:			
Maximum.....	1	.....	Per magazine artificially heated or where climatic conditions are such that a temperature above 85° F. is anticipated.
Mercurial, graduated in Fahrenheit.	1	.....	Per powder magazine.
Tongs, shot.....	(a)	.....	a 1 per mortar carriage; 7 per gun carriage for all calibers of guns larger than 6-inch, except turret mounts. (Note A.)
Trucks, ammunition or shot.....	(a)	.....	a 2 per mortar carriage; 3 per gun carriage for guns larger than 6-inch caliber except turret mounts; 4 per 6-inch gun carriage. (Note A.)
Tubs, sponge:			
Small.....	1	.....	Per 6-inch gun and carriage.
Large.....	1	.....	Per gun or mortar larger than 6-inch caliber.
ADDITIONAL EQUIPMENT.			
Accessories, implements, tools, etc., additional.	(a)	.....	a Note C.
SUBMARINE MINE EQUIPMENT.			
Submarine mine equipment and supplies.	(a)	.....	a As per approved project.

SECTION IV.—Engineering equipment.

DRAFTING EQUIPMENT.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Boards, drawing:			
42 by 60 inches, with adjustable trestle.	1	.....	Per coast defense.
33 by 55 inches, with adjustable trestle.	1	.....	Per coast defense. (Note F.)
31 by 42 inches, with trestle.....	1	.....	Per fort and per battery.
23 by 31 inches, with trestle.....	2	.....	Per garrisoned fort.
Compass, beam, micrometer adjustment in case, with 30-inch and 70-inch bars.	1	.....	Per garrisoned fort. (Note E.)
Chest, drafting.....	1	.....	Do
Curves for mechanical engineers, xylonite, set.....	1	.....	Do.
Dividers, proportional, 9 $\frac{1}{2}$ -inch, in case.	1	.....	Do.
Drafting supplies.....	(a)	.....	^a See Note 3.
Eraser, steel.....	1	.....	Per set of drawing instruments.
Frame, blue print, 30 by 42 inches, complete.	1	.....	Per coast defense.
Glass, magnifying, 3-inch, with handle..	1	.....	Per garrisoned fort. (Note D.)
Glass, magnifying, pocket.....	1	.....	Per battery of guns or mortars 6-inch or larger caliber.
Instruments, drawings:			
Office set.....	1	.....	Per coast defense and per garrisoned fort. (Note D, Note 4.)
Standard set.....	1	.....	Per garrisoned fort and per battery (Note 5.)
Measurer, map.....	1	.....	Per garrisoned fort. (Note D.)
Oil stone, Arkansas, 3-inch, in case.....	1	.....	Per garrisoned fort. (Note E.)
Pantograph, with case.....	1	.....	Per coast defenselisted in Note 2.
Pantograph, wood.....	1	.....	Per garrisoned fort.
Pens:			
Drop spring bow, spring blade, and pencil, 4-inch, in case.	(a)	.....	^a 1 per coast defense and 1 additional per each coast defenselisted in Note 2.
Ruling, 6-inch.....	1	.....	Per garrisoned fort. (Note D.)
Protractors, semicircular:			
G. S.—			
8-inch, with case.....	1	.....	Per coast defense. (Note F.)
6-inch, with movable arm and vernier, in case.	1	.....	Per garrisoned fort to which 8-inch protractors are not issued.
6-inch.....	1	.....	Per standard set of drawing instruments.
Xylonite—			
10-inch, graduated in mils.....	(a)	.....	^a 1 per coast defense and 2 additional per each fort having movable armament.
6-inch, graduated in mils.....	(a)	.....	Do.
Rule, adjustable curve:			
15 inches long.....	1	.....	Per garrisoned fort.
30 inches long.....	1	.....	Per coast defense.
Ruler, parallel rolling, 15-inch.....	1	.....	Per garrisoned fort.
Scales:			
Architect, 12-inch, with sheath.....	1	.....	Per set of drawing instruments.
Architect, 18-inch, with sheath.....	1	.....	Per coast defense. (Note F.)
Engineer, 12-inch, with sheath.....	1	.....	Per set of drawing instruments.
Engineer, 18-inch, with sheath.....	1	.....	Per coast defense. (Note F.)
Map—			
20 inches, graduated in meters and yards, 1/10,000.	1	.....	Per garrisoned fort.
10 inches, graduated in meters and yards, 1/20,000.	1	.....	Do.
10 inches, graduated in meters and yards, 1/62,500.	1	.....	Do.
Shears, 12-inch.....	1	.....	Do.
Shield, erasing.....	1	.....	Per set of drawing instruments.
Slide rule, 20-inch, in case.....	1	.....	Per coast defense. (Note F.)
Splines and spline weights, set, in box..	1	.....	Per garrisoned fort. (Note E.)

SECTION IV.—Engineering equipment—Continued.

DRAFTING EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Straight edge:			
Steel, one edge beveled—			
60 inches long.....	1		Per garrisoned fort. (Note E.)
30 inches long.....	1		Per coast defense listed in Note 2.
Xylonite lined, maple, 30 inches long.	1		Per garrisoned fort.
Tables:			
Logarithm, numbers, and trigono- metric functions of degrees, 5- place.	1		Per garrisoned fort and per battery.
Logarithm, numbers, and trigono- metric functions of degrees and mils, 5-place.	1		Per garrisoned fort.
Logarithm, numbers, and trigono- metric functions of degrees, 7- place.	1		Do.
Unit of weight and measure.....	1		Do.
Tape, steel, map, graduated in meters and yards, scale 1/20,000, 50 inches long.	1		Per coast defense. (Note F.)
Tray, zinc, 30 by 42 inches.....	1		Per coast defense.
Triangles, xylonite:			
30° to 60°—			
8-inch.....	1		Per set of drawing instruments.
10-inch.....	1		Per garrisoned fort. (Note D.)
14-inch.....	1		Per coast defense. (Note F.)
45°—			
6-inch.....	1		Per set of drawing instruments.
8-inch.....	1		Per garrisoned fort. (Note D.)
12-inch.....	1		Per coast defense. (Note F.)
T-squares:			
Maple, xylonite lined—			
60-inch, fixed head.....	1		Per coast defense.
54-inch, double shifting head.....	1		Per coast defense. (Note F.)
42-inch, fixed head.....	1		Per garrisoned fort and per battery.
30-inch, fixed head.....	3		Per garrisoned fort.
Steel—			
42-inch, steel blade, nickel plat- ed, shifting bronze head with protractor.	1		Per garrisoned fort. (Note E.)
24-inch, steel blade, nickel plat- ed, shifting bronze head with protractor.	1		Per garrisoned fort.
Tubes, tin, 39 by 4 inches diameter.....	(a)		a 2 per coast defense; 3 per each gar- risoned fort.
Water colors, set.....	1		Per garrisoned fort. (Note 6.)

PHOTOGRAPHIC EQUIPMENT.

Board, trimming, 15 by 15 inches.....	1		Per coast defense.
Bottles, dark glass, 1 gallon.....	3		Do.
Bulbs, ruby, electric light.....	3		Do.
Camera, 3-A Graflex, complete, with No. 15a, 1c, Tessar lenses, F 4.5, 7½ inches equivalent focus, and with carrying case.	1		Do.
Camera, 5 by 7 inches, target practice, with film pack adapter.	(a)		a 2 per coast defense and 2 additional per each coast defense listed in Note 2.
Chest, photographic.....	1		Per coast defense.
Film tank, kodak, 3½ inches.....	1		Do.
Film tank, 5 by 7 inches.....	(a)		a 1 per coast defense and 1 additional per each coast defense listed in Note 2.
Frames, printing, 5 by 7 inches.....	(a)		a 2 per coast defense and 1 additional per each coast defense listed in Note 2.
Graduate, 16 ounces.....	1		Per coast defense.
Graduate, 8 ounces.....	1		Per coast defense listed in Note 2.

SECTION IV.—Engineering equipment—Continued.

PHOTOGRAPHIC EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Manual, Military Photography	1	.....	Per coast defense.
Printer, electric	1	.....	Do.
Rods, stirring, glass	2	.....	Do.
Scales, studio, pair	1	.....	Do.
Supplies, photographic equipment, set..	(a)	.....	a Per coast defense. (Note 7.)
Tank, duplicating, for 3½-inch kodak- film tank, set.	1	.....	Per coast defense.
Thermometers, photographic	1	.....	Do.
Trays, agate, nested:			
5½ by 7½ by 1½ inches	1	.....	Do.
7½ by 9½ by 1½ inches	1	.....	Do.
8½ by 10½ by 1½ inches	1	.....	Do.
10½ by 12½ by 2 inches	1	.....	Do.
Tripod, crown, folding, No. 2	1	.....	Per 3-A Graflex camera.

SURVEYING EQUIPMENT.

Alidade, miniature, telescopic, with leather case.	1	.....	Per plane table.
Band chain, 300 feet, graduated every foot, numbered every 5 feet, and feet graduated to tenths, complete, with reel.	1	.....	Per coast defense listed in Note 2.
Chain, 100 feet	1	.....	Per coast defense.
Kit, repair, steel tape	1	.....	Do.
Level, engineer's, complete, with tripod.	1	.....	Per garrisoned fort.
Plane table 24 by 31 inches, with tripod attachment, tripod, and waterproof cover, alidade combined with Bea- man arc, clamp and tangent to tele- scopic axis.	1	.....	Per coast defense.
Plum bobs, 10-ounce	2	.....	Per transit.
Plumbing arm and 10-ounce plummet..	1	.....	Per plane table.
Poles, ranging	2	.....	Per transit.
Rod, level, Philadelphia	1	.....	Per level.
Sketching outfits	2	.....	Per garrisoned fort. (Note 8.)
Stadia rod, folding	1	.....	Per plane table.
Supplies, surveying equipment	(a)	.....	a Per garrisoned fort. (Note 2.)
Tape, steel, measuring, 100 feet, gradu- ated in feet, tenths, and hundredths.	1	.....	Per garrisoned fort.
Transit, complete, with tripod, least reading to 20 seconds.	1	.....	Per coast defense.
Transit, complete, with tripod, least reading to 1 minute.	1	.....	Per garrisoned fort.

MISCELLANEOUS.

Gauge, tide	1	.....	Per tide station.
Searchlights, complete, with all access- ories.	(a)	.....	a As required by approved project.

SECTION V.—*Fire-control equipment.*

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Arm, scale.....	1	.....	Per battle, fort, fire, mine, and battery commander's station.
Atmosphere slide rule.....	1	.....	Per battery of guns or mortars 6-inch or larger caliber.
Asimuth instrument, graduated in degrees, complete, with tripod, lighting devices, carrying cases and chests.	1	.....	Per battle, fort, fire, mine, and battery commander's station; per base end station not equipped with depression position finder. As per approved project. (Note G.)
Boards:			
Deflection, gun, complete.....	1	.....	Per gun battery.
Deflection, mortar, complete.....	1	.....	Per mortar battery. (Note G.)
Elevation, mortar, complete.....	1	.....	Do.
Firing, 30 by 45 inches.....	1	.....	Per battery.
Plotting—			
Fire commander's complete.....	1	.....	Per fire command as heretofore issued. (No more to be supplied.) (Note G.)
Gun, complete.....	1	.....	Per battery of guns of 6-inch or larger caliber. (Note G.)
Mortar, complete.....	1	.....	Per mortar battery. (Note G.)
Submarine, complete.....	1	.....	Per mine command. (Note G.)
Range—			
Gun, complete.....	1	.....	Per battery of guns of 6-inch or larger caliber.
Mortar, complete.....	1	.....	Per mortar battery as heretofore issued. (Note G.)
Time range.....	1	.....	Per battery. (Note G.)
Depression position finders, complete.....	1	.....	Per each battle, fort, fire, and mine commander's station; per base end station not equipped with azimuth instrument; per range finding station of gun battery 6-inch or smaller caliber not provided with coincidence range finder. As per approved project. (Note G.)
Indicator, wind component.....	1	.....	Per gun battery.
Meteorological equipment, Coast Artillery, set.	1	.....	Per coast defense. (Note 10.)
Mounts, tripod, Hagood.....	(e)	.....	e As heretofore supplied and on hand. (Note G.)
Predictors:			
Gun.....	1	.....	Per gun battery. (Note G.)
Mine.....	1	.....	Per mine command. (Note G.)
Mortar.....	1	.....	Per mortar battery. (Note G.)
Range finder, coincidence, complete.....	1	.....	Per battery of guns of 6-inch or smaller caliber not provided with depression position finder or horizontal base line. (Note G.)
Recorders, time interval with chains and shock absorbers.	(e)	.....	e 2 per battery commander's station, gun battery emplacement, and mortar pit; 1 per observing station and per plotting room.
Rulers:			
Prediction, mine.....	1	.....	Per mine plotting board. (Note G.)
Set forward.....	1	.....	Per plotting board. (Note G.)
Scale, prediction.....	1	.....	Do.
Tables:			
Range.....	(e)	.....	e 4 per battery; 12 per company.
Range, abridged.....	(e)	.....	e 1 per gun and 2 spare per battery.
Telescopes, observation, seacoast, complete.	1	.....	Per battle, fort, fire, and mine commander's station. (No more to be supplied; azimuth instrument M1910 issued in lieu thereof.) (Note G.)

SECTION VI.—Miscellaneous equipment.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Axes, hand.....	(a)		• 1 per battery and 1 additional per battery of guns or mortars 6-inch or larger caliber.
Axes, with helves.....	(a)		Do.
Bars, wrecking.....	(a)		• 1 per gun emplacement; 2 per mortar pit.
Blue prints showing:			
Drainage system of battery.....	1		Per battery, fort and coast defense.
Electric circuits of battery.....	1		Do.
Emplacements of battery.....	1		Do.
Benches, circular.....	1		Per each plotting board and depression position finder.
Books:			
All the World's Fighting Ships, Jane (latest edition).....	1		Per battery, fort and coast defense.
Emplacement.....	1		Per battery.
Fort record.....	1		Per fort.
Blackboard, 48 by 72 inches.....	1		Per each mortar pit, gun, and battery commander's station.
Camouflage equipment, set.....	(a)		• See Note 11.
Cans, ash, iron, with covers.....	1		Per emplacement for oily waste, etc.
Chair, office, with swivel.....	1		Per desk.
Chairs.....	(a)		• 1 per each battle, fort, fire, mine, and battery commander; communication, searchlight, or range officer; each telephone operator in a fire-control station, emplacement booth of mortar battery; deflection board indicator, radio operator; each signal, meteorological, and tide station; 2 per casemate; 3 per plotting room.
Covers, canvas.....	1		Per fire-control station having no overhead cover.
Desk, office.....	1		Per battle and fort commander.
Erasers, blackboard.....	2		Per blackboard.
Flags, firing, red.....		1	Per battery.
Flashlights, complete, with bulb and battery, each with one extension cord socket, lamp, web strap, and clip holder.....	(a)		• 1 per each chief of detail and per each individual whose duty requires him to set or read a scale, chart, or table; 50 per centum spares.
Hammer, carpenter.....	(a)		• 1 per gun emplacement; 2 per mortar pit.
Hose, rubber, with nozzle, feet.....	300		Per battery.
Maneuvering material, set.....	1		Per fort. (Note 12.)
Mat, door.....	1		Per each battle, fort, fire, mine, and battery commander's station; per each observing, signal, meteorological, and tide station; per each plotting room, power plant, switchboard room, casemate, loading room, and mine storehouse.
Padlock, each with 2 keys.....	1		Per each emplacement door.
Picks.....	(a)		• 1 per battery and 1 additional per battery of guns or mortars 6-inch or larger caliber.
Pullers, nail.....	1		Per battery and 1 additional per battery of guns or mortars 6-inch or larger caliber.
Rakes, steel.....	(a)		• As approved by coast defense commander.
Reel, hose.....	1		Per battery.
Saw, hand, 26-inch, 8-point.....	1		Do.
Scythes.....	(a)		• As approved by coast defense commander.
Shovels:			
Long handle.....	(a)		Do.
Short handle.....	(a)		Do.
Snow.....	(a)		Do.
Sickles, hand.....	(a)		Do.
Slippers, magazine, pairs.....	10		Per battery using separate loading ammunition.

SECTION VI.—Miscellaneous equipment—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Stoves, heating.....	(a)	.....	^a As approved by coast defense commander.
Tables:			
Large, for plotting room.....	1	.....	Per plotting room.
Small.....	1	.....	Per deflection board.
Trucks, warehouse:			
2-wheeled.....	1	.....	Per gun battery.
4-wheeled.....	1	.....	Per mortar battery.
Wheelbarrow.....	1	.....	Per battery.

SECTION VII.—Communication and signaling equipment.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Amplifier, low frequency, type SCR121 or BC101.....	1	.....	Per each radio telegraph set SCR54-A. (Note 13.)
Bag, tool, service, complete with contents.....	1	.....	Per fort. (Note 14.)
Bells:			
Extension, load ringing.....	1	.....	Per telephone installed in power house.
Firing signal.....	1	.....	Per emplacement of 3-inch gun battery.
Time interval—			
Large.....	1	.....	Per mortar battery pit; per gun emplacement of 6-inch or larger caliber.
Small.....	1	.....	Per each fire, mine, battery commander's, and observing station.
Books:			
International code of signals.....	1	.....	Per fort signal station.
Lloyd's house flags and funnels.....	1	.....	Do.
Seagoing vessels of the United States, with official numbers and signal numbers.....	1	.....	Do.
Signal book, United States Army.....	1	.....	Do.
Button, push.....	1	.....	Per firing signal bell at 3-inch gun battery.
Case for signal flags, type M-26.....	1	.....	Per fort signal station.
Chests:			
Cable splicers, complete, with contents (equipment, type TE-18).....	1	.....	Per coast defense listed in Note 2. (Note 15.)
Electrical engineer tool, complete, with contents (equipment, type TE-18).....	1	.....	Per coast defense listed in Note 2. (Note 16.)
Post tool, complete, with contents (equipment, type TE-14).....	1	.....	Per fort. (Note 17.)
Data-transmitting device.....	1	.....	Per battery. (Note G.)
Dial bridge, Decade type.....	1	.....	Per coast defense.
Field glass, type E or EE.....	(a)	.....	^a 1 per each battle, fort, fire, mine, and battery commander's station; 4 per fort signal station.
Firing signals:			
Battery commander's station, set.....	1	.....	Per battery commander's station of mortar battery.
Pit station, set.....	1	.....	Per pit of mortar battery.
Flag kit:			
Type M-26 (international code alphabet).....	1	.....	Per fort signal station. (Note 18.)
Type M-42 (2-foot).....	2	.....	Per fort signal station. (Note 19.)
Type M-44 (4-foot).....	2	.....	Per fort signal station. (Note 20.)

SECTION VII.—*Communication and signaling equipment*—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Gloves, heavy, linesman's, pair.....	2	.....	Per fort.
Groundsman equipment, type TE-23....	2	.....	Per fort. (Note 21.)
Kit, inspector pocket (equipment, type TE-5).	(a)	.....	2 per fort; 1 per each enlisted man, Coast Artillery Corps, grades 1, 2, or 3, respectively, employed on fire- control communications. (Note 22.)
Linesman's equipment, type TE-21....	2	.....	Per fort. (Note 23.)
Mast, signal, complete, with yardarm, halyards, etc.	1	.....	Per fort signal station.
Megaphone.....	1	.....	Per each battery commander's and emergency station; per range-finding station and information booth of 3-inch gun battery.
Megger, 2-1000.....	1	.....	Per coast defense.
Pistols, Very.....	2	.....	Per fort signal station.
Radiotelegraph, sets: Type SR54-A.....	(a)	.....	2 Per fort (1 for batteries of guns and mortars 12 inch or larger caliber, and 1 for batteries of guns 6 to 10 inch caliber). (Note G.) (Note 24.)
Type SCR136 or SCR109.....	1	.....	Per fort not equipped with set, type SCR 132. (Note G.) (Note 25.)
Type SCR132.....	1	.....	Per coast defense. (Installed at fort having coast-defense headquarters.) (Note 26.)
Reels, pay-out.....	1	.....	Per fort.
Signal lamp, fort, 10-inch, complete, with accessories.	2	.....	Per fort signal station.
Switchboards: Distributing.....	(a)	.....	2 As per approved project.
Power.....	(a)	.....	Do.
Telephone.....	(a)	.....	Do.
Switch boxes: Base line, type BC-96.....	(a)	.....	2 As per Note 27. (Note G.)
Switch-key set, type EE-68.....	(a)	.....	Do.
Transfer.....	(a)	.....	Do.
Telephones: Battery commander's.....	(a)	.....	Do.
Desk set.....	(a)	.....	Do.
Gun.....	(a)	.....	Do.
Hand sets.....	(a)	.....	Do.
Head sets.....	(a)	.....	Do.
Wall.....	(a)	.....	Do.
Telescope, with tripod.....	1	.....	Per fort signal station.
Terminal block, type TM-70.....	1	.....	Per hand or head set not directly con- nected to telephone.
Time-interval apparatus.....	(a)	.....	2 As per approved project.
Volt ammeters: Post testing.....	1	.....	Per fort.
Weston, type 280.....	1	.....	Per fort. (Note D.)
Zone signal, set.....	1	.....	Per mortar battery.

SECTION VIII.—*Notes pertaining to Table IV-G, fixed armament.*

NOTE A.

Standard equipment according to the most recent specifications of the particular supply department and as described in the latest edition handbook or pamphlet for that article, its accessories and spare parts.

NOTE B.

SPARE PARTS FOR ARMAMENTS, ETC.

Spare parts for guns, mortars, carriages, and their accessories are issued to coast defenses in accordance with approved tables prepared by the Ordnance Department.

NOTE C.

ACCESSORIES, IMPLEMENTS, TOOLS, ETC., ADDITIONAL.

Local conditions, variations in types and models of armament or other unusual conditions, may require modification of the number of items listed in Section III of these tables, or may require additional articles not therein listed. Sufficiency and suitability of equipment will ordinarily depend upon the project pertaining to the locality and when not determinable by the local commander will be submitted for action of higher authority.

NOTE D.

Issued one per fort having guns or mortars of 6-inch or larger caliber, garrisoned by not more than two companies of Coast Artillery, and one additional per each two companies in addition thereto.

NOTE E.

Issued only to garrisoned forts having guns or mortars of 6-inch or larger caliber.

NOTE F.

Issued one per coast defense and one additional for each garrisoned fort in the coast defense having guns or mortars of 8-inch or larger caliber.

NOTE G.

These tables indicate in general the standard articles of equipment usually supplied a coast defense.

The fire-control and communication installations at different coast defenses depend on the type of equipment, special and local conditions, and vary according to date of installation. Existing systems installed in accordance with an approved project will not be altered simply to agree with these tables without approval of the War Department.

NOTE 1.

AMMUNITION FOR SMALL ARMS, AUTOMATIC RIFLES, AND MACHINE GUNS.

SMALL ARMS.

How carried.	Person.	Storage magazine.
Per rifle, rounds.....	100	200
Per pistol, rounds.....	35	42

AUTOMATIC RIFLES AND MACHINE GUNS.

How carried.	With gun.	Storage magazine.
Per automatic rifle, rounds.....	750	1,250
Per anti-aircraft machine gun, rounds.....	5,000	5,000

NOTE 2.

Larger coast defenses to which additional equipment is issued:

Portland.
Boston.
Narragansett Bay.
Long Island Sound.
Southern New York.

Sandy Hook.
Chesapeake Bay.
San Francisco.
Puget Sound.
Pearl Harbor.

Cristobal.
Balboa.
Manila and Subic Bays.

NOTE 3.

DRAFTING SUPPLIES.

(Annual allowance.)

Articles.	1	2	3
	Per fort. ¹	Additional to column 1, per coast defense.	Additional to columns 1 and 2, per each coast defense listed in Note 2.
	Number.	Number.	Number.
Chalk, white, gross.....	4		
Cloth, tracing:			
42-inch, 24-yard roll.....	1	1	1
30-inch, 24-yard roll.....	1		1
Erasers, rubber:			
Pencil.....	4	1	2
Pencil, sponge.....	2	1	2
Ink.....	2	1	1
Horn centers, plain $\frac{1}{8}$ -inch diameter.....	3		
Ink, drawing, bottles:			
Black.....	6	12	12
Blue.....	1	1	2
Brown.....	1	1	2
Carmine.....	1	1	2
Green.....	1	1	2
Yellow.....	1	1	2
Scarlet.....	1	1	2
White.....	1	1	2
Leads, instrument, boxes of 6:			
3H.....	1	1	
6H.....	1	1	
Lifter, thumb tack.....	1	1	1
Pads, pencil pointing.....	2	2	2
Paper:			
Blue print, 30-inch, 10-yard roll.....	6	6	6
Brown print, 30-inch, 10-yard roll, with fixing salt.....	1		1
Cross section—			
Drawing, ruled, unmounted, 10 by 10, 20-inch, orange, 10-yard roll.....		1	1
Tracing, engraved, unmounted, 10 by 10, 20-inch, orange, 10-yard roll.....	2	1	4
Drawing—			
Anvil, mounted, 62-inch, 10-yard roll.....	2		1
Duplex, unmounted, 42-inch, 10-yard roll.....	2		1
Simplex, detail, 42-inch, 50-yard roll.....	1		1
Profile, tracing, 20-inch, 50-yard roll.....		1	
Tracing, 30-inch, 10-yard roll.....		1	
Paste, Higgins drawing board, 6-ounce jars.....	5		
Pencils:			
Colored—			
Blue.....	2	4	
Brown.....	2	2	
Green.....	2	4	
Ivory black.....	2	2	
Red.....	2	4	
White.....	2	2	
Yellow.....	2	4	
Drawing—			
H.....	12	12	12
3H.....	12	12	12
6H.....	12	12	12
Pens:			
Crow quill, dozen, with holder.....	1	1	
Drawing, Gillott, assorted, gross.....	1		
Mapping, dozen, with holder.....	1	1	
Round writing, boxes.....	1		
Tacks, thumb, gross.....	2	2	2
Tape, adhesive, rolls.....	2		
Turpentine, pure, pint.....	1		
Varnish, white, $\frac{1}{2}$ -gallon.....	1		

¹ NOTE.—Allowance for each fort garrisoned by not more than two companies of Coast Artillery and an equal additional amount for each two companies in addition thereto.

NOTE 4.

DRAWING INSTRUMENTS, OFFICE SET.

Comprises:		Number.			Number.
Bow pen, 3½ inches.....	1	Railroad pen, center adjustment, 5-inch.....	1		
Bow pencil, 3½ inches.....	1	Ruling pen:			
Bow spacer, 3½ inches.....	1	4½ inches.....	1		
Case for instruments.....	1	5 inches.....	1		
Case for leads or needle points.....	1	5½ inches.....	1		
Compass spring hinge, pen, pencil, and lengthening bar, fixed needle-point legs.....	1	Swivel curve pen, 4½-inch.....	1		
Curves, irregular, transparent.....	2	Triangles:			
Dividers, hairspring, 5-inch.....	1	30° by 60°, 7-inch.....	1		
Protractor, semicircular, 4-inch.....	1	45°, 4-inch.....	1		

NOTE 5.

DRAWING INSTRUMENTS, STANDARD SET.

Comprises:		Number.			Number.
Bow divider, 3½ inches.....	1	Hairspring divider, 6 inches.....	1		
Bow pen, 3½ inches, with needle point.....	1	Lead box.....	1		
Bow pencil, 3½ inches, with needle point.....	1	Ruling pen:			
Case.....	1	4½ inches.....	1		
Compass, 6 inches, with fixed needle point, pen, pencil point, and lengthening bar.....	1	5½ inches.....	1		

NOTE 6.

WATER COLORS, SET.

Japanned tin box containing 12 half pans of the following Winsor and Newton colors:

1. Ivory black.
2. Mauve.
3. Hooker's green No. 2.
4. Emerald green.
5. Vandyke brown.
6. Raw umber.
7. Crimson lake.
8. Vermilion.

9. Orange chrome.
10. Chrome yellow.
11. Chinese white.
12. Prussian blue.

Also the following brushes:

- 1 No. 2.
- 1 No. 4.
- 1 No. 6.

NOTE 7.

SUPPLIES, PHOTOGRAPHIC EQUIPMENT.

[Annual allowance.]

Articles.	Per bat- tery for each target practice.	Per coast defense.	Addi- tional per coast defense listed in Note 2.
	Number.	Number.	Number.
Albums, film negative, 3½ by 5½ inches	2	2	2
Alcohol, denatured, quart	1	1	1
Books, photographic, note	2	2	2
Cheesecloth, white, yard	1	6	6
Clips, photo, dozen	4	4	2
Cotton, absorbent, pounds	2	2	
Developer:			
Ideal, M. Q. tubes		48	48
Pyro, tank, boxes—			
For 3½-inch tank		25	25
For 5 by 7 inch tank	2	12	
Film packs, 5 by 7 inches	2		
Films, kodak, 3½ by 5½ inches, rolls of 6 exposures		24	24
Formalin, 1-pound can		1	
Hypo acid, pounds		12	12
Intensifier, tubes		6	6
Opaque, tubes		1	1
Paper, developing:			
3½ by 5½ inches, gross		6	6
5 by 7 inches, gross	1		
Pins, push, dozen		2	2
Potassium bromide, tabloid, tubes		6	6
Reducer, tubes		6	6
Skin, chamois		1	
Twine, hemp, 2-ounce ball		1	1

NOTE 8.

SKETCHING OUTFIT.

Number.	Supplies—Continued.	Number.	
Alldade, boxwood	1	Erasers, rubber, pencil	4
Boards, sketching, with W. P. covers	1	Paper, sketching, gross	1
Chest, sketching outfit	1	Pencils—	
Clinometer, service, with case	1	Blue	4
Compass, prismatic, with case	1	Drawing, H.	16
Pace tally	1	Green	4
Strap, wrist	1	Red	4
Tripod, wood, folding	1	Protectors, pencil point	4
Supplies:		Tape, adhesive, rolls	3
Celluloid, sheets, 12½ by 13½ inches	12		

NOTE 9.

SUPPLIES, SURVEYING EQUIPMENT.

Books:	Number.	Cloth, survey, signal:	Number.
Level	2	Red, yards	10
Transit	3	White, yards	10
Celluloid sheets, 24 by 31 inches	12	Crayons, lumber, red, boxes	1
		Paper, plane table, 24 by 31 inches, sheets	24

NOTE 10.

INSTRUMENTS AND EQUIPMENT.

METEOROLOGICAL EQUIPMENT, COAST ARTILLERY, SET.

Number.	Scales—Continued.	Number.	
Anemometer, hand.....	1	For constructing direction, altitude graph (Form 1115, aer).....	1
Anemometers, indicating, with busser, cups and wrench.....	2	For measuring wind velocity aloft from balloon plot, type ML-21.....	1
Atmosphere slide rule.....	1	Velocity, miles per hour and meters per second, for measuring ballistic wind...	1
Ax, hand.....	1	Trip, with weights.....	1
Barometers:		Screw driver, 6-inch.....	1
Aneroid.....	1	Sharpener, pencil.....	1
Mercurial.....	2	Slide rule, 20-inch.....	1
Batteries:		Sling psychrometers, type ML-24.....	4
Type BA-10, with cabinet.....	4	Stand, anemometer.....	1
Type BA-10, with cabinet.....	6	Stick, measuring, for rain gauge.....	1
Boards:		Stop cock, special, with weights.....	1
Black, 40 by 60 inches.....	1	Supports:	
Clip, letter size.....	1	Anemometer and wind vane, type ML-29.....	1
Drawing, 20 by 36 inches.....	1	Thermometer, Townsend.....	1
Books, meteorological:		Stand, instrument shelter, wood, type ML-42.....	1
Meteorology, Milham.....	1	Table, typewriter.....	1
Introductory.....	1	Tables:	
Meteorological Tables, Smithsonian.....	1	Aerological.....	2
Bookcase.....	1	Logarithm, 5-place.....	1
Boxes, barometer.....	2	Psychrometer.....	1
Cabinet, filing, 4-drawer, letter size.....	1	Sea level reduction.....	1
Cases for:		Temperature correction for barometer...	1
Instrumental equipment.....	1	Tape, measuring for pilot balloons.....	1
Plotting boards.....	1	Telephones:	
Chain, weighing, for pilot balloons.....	1	Field busser.....	3
Charts, cloud.....	2	Head and breast set.....	3
Circulars and instructions for:		Theodolites, special, with tripod for night work.....	3
Aerological stations.....	2	Thermograph, type ML-18.....	1
Wind measuring instruments.....	1	Thermometers (graduated in Fahrenheit):	
Barometers.....	1	Type ML-7.....	4
Cooperative observers.....	1	Maximum, type ML-4.....	4
Compass, box, 3-inch.....	1	Minimum, type ML-5.....	4
Desk, flat top.....	1	Triangles, xylonite:	
Fahnestock connectors.....	12	30° by 60°, 16-inch.....	1
Gauge, rain and snow.....	1	45°, 16-inch.....	1
Hammer, carpenter.....	1	T-square, maple, xylonite lined, 36-inch.....	1
Instrument shelter, type ML-41.....	1	Tubing, rubber:	
Lantern pattern.....	1	Heavy, 60 inches long.....	1
Pliers, 8-inch, side cutting.....	1	Soft, 30 inches long.....	1
Plotting boards, special.....	2	Typewriter.....	1
Protractor, xylonite, semicircular, 10-inch, graduated in degrees.....	1	Watches, wrist.....	2
Saw, hand, 26-inch, 8 point.....	1	Wire, twisted pair, feet.....	1,200
Scales:		Wrench, Stillson, 14-inch.....	1
12-inch, graduated in inches and tenths, and centimeters and millimeters.....	1		
Metric, 50-centimeter, graduated to $\frac{1}{2}$ millimeter.....	1		

METEOROLOGICAL SUPPLIES (3 MONTHS' SUPPLY).

Balloons, pilot, rubber, assorted sizes and colors.....	900	Ink, special register, all colors, bottles.....	6
Hydrogen, compressed tubes.....	6	Oil, clock, bottles.....	2

BLANK FORMS AND STATIONERY.

[Issued in quantities as approved by coast-defense commander.]

Blotters:	Unit.	Ink:	Unit.
Desk.....	Number.	Drawing, black, bottles.....	Number.
Hand.....	Do.	Writing, black, bottles.....	Do.
Clips, paper.....	Boxes.	Mucilage, bottles.....	Do.
Crayons, white chalk.....	Gross.	Paper:	
Envelopes, penalty.....	Number.	Pads, scratch.....	Do.
Erasers:		Carbon, letter size.....	Sheets.
Pencils.....	Do.	Cross section.....	Do.
Ink.....	Do.	Detail.....	Do.
Forms, printed, meteorological:		Onion skin.....	Do.
Assorted.....	Do.	Typewriter.....	Do.
No. 201.....	Do.	Paste, library, bottles.....	Number.
No. 203.....	Do.	Pencils:	
No. 1068.....	Do.	Hard.....	Do.
No. 1072.....	Do.	Soft.....	Do.
No. 1083.....	Do.	Pens, assorted.....	Do.
No. 1115 ser.....	Do.	Rubber bands.....	Gross.
Report to battery commander.....	Do.	Thumb tacks.....	Dozen.

NOTE 11.

CAMOUFLAGE EQUIPMENT, SETS.

Issues will be made upon requisition of coast-defense commander, approved by corps area, or department commander, depending upon local conditions.

NOTE 12.

MANEUVERING MATERIAL, SET.

Maneuvering material enumerated in this table is for use in mounting and dismounting seacoast guns and carriages and for instruction purposes. It will be issued to each seacoast fort in quantities within the allowance prescribed herein as approved by the respective coast-defense commander. Additional material may be issued upon the approval of the corps area or department commander.

One set of maneuvering material consists of the following:

	Number.		Number.
Ax, hand.....	1	Capstan, complete, with 1 double bar, 2 single bars, 12 anchor stakes, 300 feet 7-inch manila rope, 3 pulley blocks, iron, with 2, 3, and 4 sheaves, respectively.....	1
Bars, iron:		Carts:	
Crow, 6-foot.....	2	Hand.....	1
Pinch, 5-foot.....	2	Sling, hand.....	1
Pinch, 7-foot.....	2	Sling, large.....	1
Blocks, for manila rope:		Chains:	
Double, for 4-inch rope.....	2	Dog.....	2
Double, for 5-inch rope.....	2	Sling (per each 5 guns).....	1
Treble, for 4-inch rope.....	2	Chisel, cold, 3/4-inch.....	1
Treble, for 5-inch rope.....	2	Chocks, wood, oak, triangular, 6 by 6 inches.....	12
Snatch, single, for 4-inch rope.....	2	Cradle, gun.....	1
Snatch, single, for 5-inch rope.....	3	Derrick, boom, 8-ton, 45-foot mast, 35-foot boom, with 5 guys, and drum.....	1
Blocks, triplex, 2-ton.....	1	Dollies, 14-inch bed, iron roller.....	3
Blocks, wood:		Gins:	
Oak, 10 by 2 by 18 inches.....	10	Garrison, complete, with 1 single, 1 double, 1 treble block, 2 handspikes, and 1 fall (120 feet of rope).....	1
Yellow pine, saw-cut—		Piper, complete.....	1
12 by 12 by 44 inches.....	150		
12 by 6 by 44 inches.....	100		
12 by 4 by 44 inches.....	50		
12 by 2 by 44 inches.....	20		
12 by 1 by 44 inches.....	20		
Cans, oil, squrt, 1-quart.....	1		

Hammers:	Number.	Rope:	Number.
Carpenters'.....	2	Manila—	
Smiths', 4-pound.....	2	3-inch, feet.....	1,000
Sledge, 16-pound.....	2	4-inch, feet.....	1,000
Handspikes:		5-inch, feet.....	1,800
Maneuvering, wood.....	12	7-inch, feet.....	400
Roller (per 5 guns).....	2	Wire—	
Hatchet.....	1	1 inch diameter, feet.....	50
Hooks, counterweight.....	2	Rtule, 8 feet, folding.....	1
Jacks, hydraulic:		Saw:	
15-ton.....	4	Crosscut, for timber.....	1
30-ton.....	4	Crosscut, hand, 20-inch, 8-point.....	1
Level, carpenters'.....	1	Shingles, bundles.....	2
Mallet.....	1	Square, steel, carpenter's.....	1
Marlinspike.....	1	Straightedge, 6 feet.....	1
Mauls, metal heads, wooden face.....	4	Tape, steel, 50 feet.....	1
Planks, yellow pine, saw cut:		Timbers, yellow pine, saw cut:	
12 by 2 inches by 30 feet.....	20	10 by 10 inches by 35 feet.....	10
12 by 3 inches by 15 feet.....	10	10 by 10 inches by 25 feet.....	20
Plumb bob.....	1	8 by 8 inches by 15 feet.....	10
Rollers, wood, 3 feet long, 8 inches in diameter.....	20	Wrenches, pipe, 36-inch.....	2

SUPPLIES (EXPENDABLE).

Marlin, pounds.....	10	Paper:	
Nails:		Emery, quires.....	10
Twenty penny, pounds.....	50	Sandpaper, quire.....	1
Fifty panny, pounds.....	50	Waste, cotton, pounds.....	50
Oil:			
Kerosene, gallons.....	10		
Sperm, gallons.....	2		

GUMMER'S INSTRUCTION OUTFIT.

Blocks, small (about 2-inch):	Per company.	Rope, manila:	Per company.
Single, with hook and eye.....	2	$\frac{1}{4}$ -inch diameter, feet.....	25
Double, with hook and eye.....	2	$\frac{3}{8}$ -inch diameter, feet.....	25
Trebble, with hook and eye.....	2	Twine, ball.....	1
Snatch, single, with hook.....	2		
Cord, sash, feet.....	50		
Marlinspike, small.....	1		

NOTE 13.

SET, LOW-FREQUENCY AMPLIFIER, TYPE SCR-121.

A two-stage vacuum tube audio-frequency amplifier using iron core transformers, furnished with the required connection cords so that the amplifier may be used on any radio-receiving set, comprises:

	Number.		Number.
Equipment, type PE-10, or equipment, type PE-29.....	1	Equipment, type RC-11.....	1
Equipment, type PE-10—		Set box, BC-44 (2-stage amplifier).....	1
Batteries, type BB-14 (1 in use, 2 spare), storage, lead, 2-cell, 4-volt, 90-ampere hour; 15 plates, 8 $\frac{1}{2}$ by 7 $\frac{1}{2}$ by 14 $\frac{1}{2}$ inches; weight, 37 pounds; celluloid or hard rubber jar; nonspill design.....	3	Cords, CD-40 (extension cords, 6 feet of 2 cords, No. 16 B. & S. lamp cord, with appropriate terminals and plugs).....	2
Equipment, type PE-29—		Cord, CD-56, 3-foot extension, with clips and plug.....	1
Batteries, type BB-28 (1 in use, 2 spare), storage, 2-cell, 4-volt, 90-ampere hour, lead, hard rubber jars of nonspill design; dimensions, approximately, 7 $\frac{1}{2}$ by 8 by 10 $\frac{1}{2}$ inches; specification, 70-3.....	3	Head sets, type P-11 (1 in use, 1 spare)....	2
		Batteries, type BA-2 (2 in use, 2 spare)....	4
		Tubes, type VT-1 (2 in use, 2 spare).....	4

For further information, see Radio Pamphlet No. 10.

NOTE 14.

BAG, TOOL SERVICE, COMPLETE.

The bag is made of canvas; approximate dimensions, 17 inches long, 7 inches wide at the base, and 8 inches high.

EQUIPMENT.

Number.	Number.
Try-square, steel, 4-inch blade.....	1
Chisels:	
Cold, $\frac{1}{2}$ -inch.....	1
Wood, $\frac{1}{2}$ -inch socket blade, iron, ring-topped handle, Jennings, No. 15.....	1
Hammer, claw, bell-faced, 16-ounce.....	1
Holder, tool, and 10 high-grade steel tools.....	1
Knife, electrician's, 2 blades.....	1
Level, pocket spirit, 3-inch.....	1
Plane, block, 6-inch, $1\frac{1}{4}$ -inch cutter.....	1
Pliers:	
Pair, 6-inch, side cutting.....	1
Pair, 8-inch, side cutting.....	1
Rule, 4-foot, folding, boxwood, 8 parts.....	1
Saw, back, 10-inch.....	1
Screw drivers:	
6-inch blade.....	1
10-inch blade.....	1
Solder, resin core, pound.....	1
Wrenches:	
Screw, forged, 6-inch, monkey.....	1
Socket, for telephone apparatus, 4-inch.....	1
Brace, ratchet, 8-inch throw.....	1
Bits, anger, solid center, double cutter extension lips:	
$\frac{1}{2}$ -inch.....	1
$\frac{3}{4}$ -inch.....	1
$1\frac{1}{4}$ -inch.....	1
$1\frac{1}{2}$ -inch.....	1
1-inch.....	1
Polarity indicator.....	1

NOTE 15.

CHEST, TOOL, CABLE SPLICER'S, COMPLETE, WITH CONTENTS.

EQUIPMENT, TYPE TE-16.

Comprises:	Number.	Iron, soldering—	Number.
Tool chest, type BC-91.....	1	2 $\frac{1}{2}$ -pound.....	1
Blade, hacksaw—		4-pound.....	1
18-point, 10-inch.....	12	Kettle, plumber's, 8-inch.....	1
24-inch, 10-inch.....	12	Knife, cable, sheath, $\frac{1}{4}$ -inch blade.....	1
Cable dresser, type TL-90.....	1	Ladle, double-lipped, 3-inch.....	1
Cloth, wiping, herringbone ticking—		Paper, gummed, $1\frac{1}{2}$ inches wide, pound.....	1
3-inch square.....	2	Pliers, 8-inch.....	1
5-inch square.....	2	Rasp, 12-inch.....	1
6-inch square.....	2	Rule, folding, 2-foot, brass-bound.....	1
Drift pin—		Saw, plumber's, 14-inch.....	1
Type TL-81.....	1	Shave, hook.....	1
Type TL-98.....	1	Sleeve, paper, $\frac{1}{4}$ by 3 inches.....	250
Type TL-99.....	1	Snips, Compton No. 10.....	1
Equipment, type TE-5 (inspector's pocket kit, with contents. See Note No. 22).....	1	Stearine, $\frac{1}{2}$ -pound can.....	1
File, half-round, bastard, 6-inch.....	1	Tape, cotton, $\frac{1}{2}$ -inch wide, rolls.....	2
Frame, hacksaw, adjustable.....	1	Torch, gasoline.....	1
Furnace, plumber's.....	1		
Hammer—			
Claw.....	1		
Riveting, 18-ounce.....	1		

NOTE 16.

ELECTRICAL ENGINEER'S TOOL CHEST.

This chest is issued to coast-defense Artillery engineers of large coast-defense commands for use in maintaining the fire-control and post-telephone systems.

The chest contains a full complement of tools necessary for the installation of apparatus.

	Number.		Number.
Tool chest, type BC-33.....	1	<i>Third tray—Continued.</i>	
The tools are distributed as follows:		Pliers—	
<i>Cover.</i>		Diagonal, 6-inch.....	1
Frame, hack-saw.....	1	Long-nose, side-cutting, 5½-inch.....	1
Rule, 4-foot, 8-fold.....	1	Side-cutting, 6-inch.....	1
Saw—		Side-cutting, 8-inch.....	1
Beck, 10-inch.....	1	Puller, nail.....	1
Crosscut, 9-point, 20-inch.....	1	Wrench—	
Rip, 6-point, 22-inch.....	1	14-inch, Stillson.....	1
Tape, metallic (50 feet).....	1	Monkey, 12-inch.....	1
<i>First tray.</i>		<i>Fourth tray.</i>	
Chisel—		Bit, expansion.....	1
Cold, ½-inch blade, 6 inches long.....	1	Blade, hack-saw, 10-inch.....	12
Socket, ½-inch.....	1	Countersink, wood.....	1
Socket, 1-inch.....	1	Cutter, ½ by 3 inches, Jennings No. 1.....	2
File—		Drill—	
Flat, bastard, 8-inch.....	2	Breast.....	1
Hand, bastard, clear-edge, 8-inch.....	1	Twist, steel—	
Hammer—		½-inch.....	1
Claw, 1-pound.....	1	¾-inch.....	1
Riveting, 15-ounce.....	1	1-inch.....	1
Holder, tool, Millers Falls No. 5.....	1	1½-inch.....	1
Jackknife.....	1	2-inch.....	1
Level, spirit, pocket, 3-inch.....	1	No. 2.....	1
Polarity indicator, type I-23.....	1	No. 12.....	1
Screw driver—		No. 22.....	1
2-inch.....	1	No. 30.....	1
2½-inch.....	1	Furnace.....	1
5-inch.....	1	Kettle, plumber's, 6-inch.....	1
10-inch.....	1	Knife, sheath, cable, 4½-inch blade.....	1
Wrench, 6-inch.....	1	Plane, ½-inch, rabbet.....	1
<i>Second tray.</i>		Punch, center.....	1
Brace, ratchet, 8-inch sweep.....	1	Set, auger bit, with 4-inch triangular file—	
Dividers, 6-inch.....	1	Bit, auger—	
Grip, Buffalo—		¾-inch.....	1
No. 1.....	1	1-inch.....	1
No. 2.....	1	1½-inch.....	1
Head, center, 12-inch.....	1	2-inch.....	1
Iron, soldering—		2½-inch.....	1
1-pound.....	1	3-inch.....	1
Electric, with attachment plug.....	1	3½-inch.....	1
Jewelers', No. 2.....	1	4-inch.....	1
Plane, block.....	1	4½-inch.....	1
Scales, 12-inch, set.....	1	5-inch.....	1
Shears, Compton No. 10.....	1	5½-inch.....	1
Square and bevel, combination, 12-inch.....	1	6-inch.....	1
Vise, hand, 1½-inch.....	1	6½-inch.....	1
<i>Third tray.</i>		File, triangular, 4-inch.....	1
Clamp, splicing, combination.....	2	Set, punch—	
Ladle, 3-inch.....	1	½-inch figures.....	1
Oilstone, soft, 5-inch, mounted.....	1	¾-inch long.....	1
		Set, magneto testing, lineman's.....	1
		Shield, for fire pot.....	2

NOTE 17.

POST TOOL CHEST.

EQUIPMENT, TYPE TE-14.

Comprises:		Number.	Comprises—Continued.		Number.
Tool chest, type BC-60.....		1	Hatchet, claw, 4½-inch blade		1
Bit—			Holder, tool, Millers Falls No. 5		1
½-inch		1	Knife, draw, 14-inch blade		1
¾-inch		1	Oilstone, soft, 5-inch, mounted		1
1-inch		1	Plane, iron, "Keen Kutter" No. 4C		1
Brace, ratchet, ball-bearing, 8-inch sweep.....		1	Pliers, side-cutting, 6-inch		1
Chisel—			Rule, 2-foot, 4-fold, brass-bound		1
Cold, ¾-inch		1	Saw, crosscut—		
Socket, beveled-edge, ¾-inch		1	8-point, 24-inch		1
File—			9-point, 20-inch		1
Hand, bastard, clear-edge, 8-inch		1	Screw driver, 6-inch		1
Round, bastard, 6-inch		1	Square, graduated, 9-inch		1
Saw, 8-inch D. E		1	Tape, metallic, 50-foot		1
Hammer, claw		1	Wrench, screw, 10-inch		1

NOTE 18.

FLAG KIT, TYPE M-26.

International code alphabet; consists of 27 flags of various shapes and colors, indicating 26 letters of alphabet, and 1 general flag; each flag provided with metal rings and 1 metal hook; flags reenforced with cotton tape.

NOTE 19.

FLAG KIT, TYPE M-42.

Formerly designated "Combination flag kit"; case is of light-weight olive-drab cotton webbing; one 2-foot flag is white with an 8-inch square red center; the other is red with an 8-inch square white center.

Outfit comprises:		Number.	Outfit comprises—Continued.		Number.
Case, 26 by 5 by 2 inches.....		1	Flag, type MC-44.....		2
Flag, 2-foot, red		1	Flagstaff, type M-71.....		1
Flag, 2-foot, white.....		1			

NOTE 20.

FLAG KIT, TYPE M-44.

Formerly designated "Four-foot flag kit"; case of light-weight olive-drab cotton webbing; one flag is white, 3 feet 9 inches square, with a 16-inch square red center; the other is red, 3 feet 9 inches square, with a 16-inch square white center.

Outfit comprises:		Number.	Outfit comprises—Continued.		Number.
Case, 37 by 5 by 2 inches.....		1	Flag, 4-foot, white.....		1
Flag, 4-foot, red		1	Flagstaff, type M-72.....		1

NOTE 21.

GROUNDMAN'S EQUIPMENT, TYPE TE-23, SETS.

	Number.		Number.
Belts, tool, plain.....	1	Pliers, 8-inch, side cutting.....	1
Gloves, leather, pair.....	1		

NOTE 22.

KIT, INSPECTOR'S POCKET, COMPLETE.

EQUIPMENT, TYPE TE-5.

Number.	Number.
Case, carrying, inspector's pocket kit..... 1	File, half-round bastard, with handle, 3-inch... 1
Screw driver and skinning knife combined, with safety spring..... 1	Tweezers, 4½-inch, pair..... 1
Scissors, electrician's, 5-inch..... 1	Screw driver, 2-inch..... 1
Pliers, side-cutting, 5-inch..... 1	Rule, 2-foot, 4-fold, narrow boxwood..... 1

NOTE 23.

LINEMAN'S EQUIPMENT, TYPE TE-21.

Number.	Number.
Ax, hand, lineman's, 4 pounds..... 1	Pliers, side cutting, 8-inch..... 1
Belt, lineman's, and safety strap..... 1	Screw driver, 10-inch blade..... 1
Clamp, splicing, combination, 10½-inch..... 1	Wrench, lag, combination, 13½-inch..... 1
Pair or set of climbers (eastern), lineman's, with straps and pads (not over 16½ inches)..... 1	

NOTE 24.

SET, RADIO RECEIVING, TYPE SCR-54-A.

(See Radio Pamphlet No 3.)

	Number.
Equipment, type RC-1-A, radio-receiving..... 1	
One set box, type BC-14-A, for receiving damped or modulated wave signals; wave-length range, 200 to 600 meters: wooden box, 8½ by 12½ by 4½ inches, with hinged waterproof cover 3¾ inches deep; bakelite operating panel; box contains primary and secondary tuned circuits inductively coupled and each comprising adjustable inductance and capacitance; coupling adjustable; secondary may be made aperiodic and it comprises crystal detector and double telephone jack; calibration chart furnished with the box. Contains the following separate parts:	
Strap, ST-5, carrying..... 1	
Head sets, P-11, telephone receivers..... 2	
Crystals, DC-1, detectors (spare)..... 6	
Batteries, BA-4, 1.5-volt primary cells (1 in use, 1 spare)..... 2	
Screw driver, TL-2, 4-inch, Stanley..... 1	
Wire, W-20, 7-strand, rubber-covered and silk braid, feet..... 30	
Contact springs, M-14, for crystal detector (spare)..... 2	
Equipment, type A-2-A or A-2-B, antennas..... 1	
Mast sections, type MS-5, bamboo, 14-foot iron tips..... 6	
Insulators, type IN-3, bakelite..... 6	
Pins, type FT-3, metal for mounting insulators..... 6	
Wire—	
Type W-1, 7-strand, No. 22, soft tinned copper, bare, feet..... 750	
Type W-4, single-conductor, 26-strand, insulated, feet..... 75	
Type W-2, No. 14, bare soft copper, pounds..... 2	
Mat, type MT-3, ground, copper-mesh, 9 feet by 1 foot 8 inches..... 1	
Stakes, type GP-3 ground, angle-iron, 2½ feet long..... 14	
Insulators, type IN-5, strain, hard rubber..... 8	
Couplers, type FT-2, cast-iron, for masts..... 6	
Rope, type RP-1, ¾-inch, manilla, feet..... 150	
Reels, type RL-3, hand, for antennas..... 4	
Pliers, type TL-20, combination, 8-inch..... 1	
Tape, type TL-53, friction, ¾-inch, pound..... ½	
Marlin, type RP-2, 42-foot lengths, tarred, ¼-inch, coils..... 2	
Chest, type BC-26, carrying, wooden, for carrying set..... 1	

NOTE 25.

RADIO TELEGRAPH SET, TYPE SCR-136.

This is a ground radio telephone and telegraph set capable of being packed on a mule or transported in operating truck SCR-124. Telephone range of 30 miles; telegraph range of 50 to 90 miles; wave length, 350 to 900 meters; receiving wave length of 150 to 1,200 meters.

NOTE 26.

RADIO TELEGRAPH SET, TYPE SCR-132.

This is a ground set with telephone working range of 80 to 100 miles; telegraph, 200 to 250 miles; transmitting wave length, 800 to 1,900 meters; receiving wave length, 550 to 2,200 meters.

NOTE 27.

TELEPHONES AND SWITCH BOXES.

TYPE INSTALLATION, 1920.

1. Fort commander's station.

Switch key set:	Number.	
With 1 hand set.....	1	To cut in on line to each searchlight and watcher.
With 2 hand sets (1 with extension cord).	1	To cut in on line to each fire or mine commander.
Telephones:		
Desk set with single head (a) receiver.	(a)	• In booths; 1 to each fire and mine commander; 1 to each searchlight assigned to fort commander, not having electrical controller in station, connected on party line to controller booth, light, and watcher.
Wall, with hand set....	3	To post telephone switchboard.
Wall, with head set....	(a)	• 1 to each searchlight having electrical controller in station, at position of controller operator, on party line to light and watcher.

2. Fire commander's station.

	Number.	
Switch key sets, with hand set.	2	1 to cut in on line to fort commander and to each battery commander; 1 to cut in on line to each searchlight subject to assignment to fire commander.
Telephones:		
Desk sets, with single head receiver.	(a)	• In booths; 1 to each battery commander's station of the fire command.
Wall, with hand set....	2	1 in observing room to secondary station, observers' line (omitted if no plotting board is supplied or if data is not furnished for batteries); 1 in observing room to post telephone switchboard.
Wall, with head set....	(a)	• 1 in observing room to fort commander's station (fort commander's line); 1 to each searchlight having electrical controller in station, at position of controller operator, on party line to light and watcher.

3. Battery commander's station (large-caliber gun).

Gun battery of 6-inch or larger caliber.

	Number.	
Switch box, transfer.....	1	To enable observers' line to be used as readers' line in an emergency. (This box may be installed in plotting room where latter is adjacent to battery commander's station.)
Telephones:		
Wall, with hand set....	1	Bridged on line to each observing station (observers' line).
Wall, with head set....	2	1 to fire commander's station (fire commander's line); 1 to plotting room, where latter is not adjacent to battery commander's station

4. *Battery commander's station (small-caliber gun).*

Gun battery less than 6-inch caliber.

Number.	
Telephones, wall, with handset.	4

1 to fire or mine commander's station; 1 to observing station, where range finder is not located in battery commander's station; 1 on party line to range setters at gun emplacement; 1 to spotting station.

5. *Battery commander's station (mortar).*

Mortar battery.

Number.	
Switch box, transfer	1

To enable observers' line to be used as readers' line in an emergency. (This device may be installed in plotting room where latter is adjacent to battery commander's station.)

Telephones:

Wall, with hand set	1	Bridged on line with observing stations (observers' line).
Wall, with hand set	3	1 to fire commander's station (fire commander's line); 1 on party line connected to both pits and plotting room (data line), where plotting room is not adjacent to battery commander's station; 1 on party line connected to both pits and plotting room (check back line), where battery commander's station is not at the battery.

6. *Battery commander's emergency station (mortar).*

Mortar battery; in immediate vicinity of battery.

Number.		
Telephones, battery commander's:		
With hand set	1	Bridged on line with observing stations (observers' line).
With hand set	1	To plotting room on party line connected to both pits (data line).

7. *Observing station (horizontal base line).*

Base end station of a fire command, or of a battery of guns or mortars, 6-inch or larger caliber, having one or more horizontal base lines.

Number.	
Telephones, wall, with handset.	2

1 bridged on line with fire or battery commander and the other observing stations of the fire command or battery (observers' line); 1 to plotting room (readers' line).

8. *Observing station (short base).*

Primary station of a fire command or of a gun battery of 6-inch or larger caliber, equipped with a coincidence range finder or a vertical base position finder only.

Number.	
Telephones, wall, with handset.	2

1 bridged on line with fire or battery commander and any other observing station of the fire command or battery (observers' line); 1 to plotting room (readers' line); 2 hand sets are provided on readers' line where range and azimuth are read by different men.

9. *Observing station (small-caliber guns).*

Gun battery less than 6-inch caliber, where range finder is not located in battery commander's station.

Number.	
Telephone, wall, with handset.	2

1 To battery commander's station; 1 hand set for observer and 1 for reader when ranges are read by other than observer.

10. *Emergency station (gun).*

Gun battery of 6-inch or larger caliber, in immediate vicinity of the battery.

Number.	
Telephone, battery commander's, with handset.	1

To plotting room, bridged on readers' line from other observing stations as required.

11. Spotting station.

Gun battery of less than 6-inch caliber.

	Number.	
Telephone, battery commander's, with head set.	1	To battery commander's station.

12. Plotting room (gun).

Gun battery of 6-inch or larger caliber.

Switch boxes:	Number.	
Baseline.....	1	To cut either assistant plotter in on other readers' line.
Transfer.....	1	To enable observers' line to be used as readers' line. (Installed in battery commander's station when latter is not adjacent to plotting room.)

(NOTE.—In case there is but one observing station (coincidence range finder, or depression position finder) these switch boxes are omitted and both assistant plotters are connected to the one reader's line).

Telephones:

Wall, with head set.... (*)	*	1 to battery commander's station, when latter is not adjacent to plotting room; 1 to each observing station (readers' line); 1 party line to gun emplacements (gun line).
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13. Plotting room (mortar).

Mortar battery.

	Number.	
Switch boxes, baseline...	1	To cut either assistant plotter in on other readers' line.
Telephones, wall, with (*) head set.	*	1 to each observing station (readers' line); 1 on party line connected to both pits and battery commander's station (data line) (latter connection is made only where battery commander's station is not adjacent to plotting room); 1 on party line connected to both pits and battery commander's station (check back line), where battery commander's station is not at the battery; 1 to powder magazines, party line.

14. Gun emplacement (large caliber).

Gun battery of 6-inch or larger caliber.

	Number.	
Telephone, gun, with head sets.	2	1 To plotting room (gun line) for deflection and range recorders.

15. Gun emplacement (small caliber).

Each gun of less than 6-inch caliber.

	Number.	
Telephone, gun, with head set.	1	For range setter at each gun on party line to battery commander's station; where mechanical range transmission device is not installed, 1 on same line for operator of display board in rear of battery.

16. Mortar pit.

	Number.	
Telephone, battery commander's, with head set.	2	On party line to plotting room, connected to other pit and battery commander's station (data line). (Last connection is made only where battery commander's station is not adjacent to plotting room); 1 on party line connected to other pit, plotting room, and battery commander's station (check back line). (Last connection is made only where battery commander's station is not adjacent to plotting room.)

17. Magazine, mortar battery.

	Number.	
Telephone, battery commander's, with head set.	1	To plotting room.

18. *Combined mine commander's station and primary station.*

Adjacent to plotting room.†

	Number.	
Switch key set, with hand set!	1	To cut in on line to fort commander, to each battery commander, and to each searchlight subject to assignment to mine commander.
Telephones:		
head receiver.		mand.
Wall, with hand set..	2	1 to secondary station (observers' line); 1 to post telephone switch-
Desk sets, with single (e)		• In booths: 1 to each battery commander's station of the mine com-
		board.
Wall, with head set.. (e)		• 1 to fort commander's station; 1 to each searchlight having electrical
		controller in station, at position of controller operator, on party line
		to light and watcher; 1 to plotting room (readers' line).

19. *Mine commander's plotting room.*

Adjacent to mine commander's station.

	Number.	
Switch box, base line....	1	To enable observers' line to be used as readers' line in emergency.
Telephones:		
Wall, with head set.. (e)		• 1 to each observing station (readers' line); 1 to casemate.

20. *Double primary station of a mine command.*

For the primary station occupied by the mine commander, the equipment described under 18 and in addition thereto the following for the other primary station:

	Number.	
Telephones:		
Wall, with hand set..	1	To secondary station (observers' line).
Wall, with head set..	1	To plotting room (readers' line).

21. *Double mine commander's plotting room.*

The equipment described under 19 and in addition thereto the following for the other plotting room:

	Number.	
Switch box, base line....	1	To enable observers' line to be used as readers' line in an emergency.
Telephones, wall, with head set.	(e)	• 1 to each observing station (readers' line); 1 to casemate.

22. *Secondary station of a mine command.*

	Number.	
Telephones, wall, with head set.	2	1 to primary station (observers' line); 1 to plotting room (readers' line).

23. *Double secondary station of a mine command.*

The equipment described under 22 and in addition thereto the following:

	Number.	
Telephones, wall, with head set.	2	1 to primary station (observers' line); 1 to plotting room (readers' line).

24. *Mining casemate.*

	Number.	
Telephones:		
Wall, with hand set..	1	To post telephone switchboard.
Wall, with head set..	1	To each mine commander's plotting room.

25. *Loading room.*

	Number.	
Telephone, wall, with hand set.	1	To post telephone switchboard.

26. *Meteorological station.*

	Number.	
Telephone, wall, with hand set.	1	To post telephone switchboard.

27. *Radio station.*

	Number.	
Telephone, desk set.....	1	To post telephone switchboard.

28. *Fort signal station.*

Number.

Telephone, wall, with hand 1 To post telephone switchboard.
set.

29. *Tide station.*

Number.

Telephone, wall, with hand 1 To post telephone switchboard.
set.

[400.34, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
Major General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

SECTION II.—Automatic rifles and machine guns

Articles of equipment.	A	B	Remarks.
		Additional for use at posts and camps or stations of a relatively permanent nature.	
	War set for field and garrison service.		
Cartridges, ball, cal. .30 for automatic rifles.	750		Per automatic rifle.
Cartridges, ball, cal. .30 for antiaircraft machine guns.	5,500		Per antiaircraft machine gun.
Machine guns, antiaircraft.	4		Per battery. (Note A.)
Rifles, automatic.	8		Per lettered battery, headquarters battery, and service battery.
Spare parts, tools and accessories for antiaircraft machine guns, set.	1		Per antiaircraft machine gun. (Note A.)

SECTION IIIa.—Ammunition and armament special for 8-inch railway guns.

Ammunition.....	(e)		• Allowance as prescribed in War Department instructions.
Board, fuse and primer sectionalised.		1	Per battalion. (Note 1.)
Carriage, barbette, 8-inch railway mount.	1		Per gun. (Note A.)
Car, railway, for 8-inch gun carriage.	1		Do.
Chests:			
Armament.....	(e)		• 1 per gun and carriage, and 1 spare per battery. (Note A.)
Spare part.....	(e)		• 2 per gun and carriage, and 2 spare per battery. (Note A.)
Tool.....	(e)		• 1 per gun and carriage, and 1 spare per battery. (Note A.)
Clinometer.....	1		Per regiment. (Note A.)
Dummy projectiles and powder charges, set.		1	Per gun.
Gauge, pressure outfit, major caliber, complete.		1	Per battery. (Note A.)
Guns, 8-inch.....	4		Do.
Quadrants:			
Elevation.....	(e)		• 1 per gun and carriage, and 1 spare per battery. (Note A.)
Gunnery.....	(e)		Do.
Rest, clinometer.....	1		Per battery.
Sights, bore, set.....	1		Do.
Sights, complete:			
Panoramic, with telescope—			
Graduated in mills.....	(e)		• 1 per gun carriage, and 1 spare per battery. (Note A.)
Graduated in degrees.....	(e)		• (S) 1 per gun carriage, and 1 spare per battery. (Note A.)
Telescopic.....	(e)		Do.
Spare parts for:			
Carriage, barbette railway mount, set.....	1		Per battery. (Note A.)
Guns, set.....	1		Do.
Railway cars for carriages, set.....	1		Do.
Subcaliber outfit complete.....	1		Per gun. (Note A.)
Thermometer, mercurial, graduated in Fahrenheit.....	1		Per battery.
Tools and accessories for:			
Gun, set.....	1		Per gun. (Note A.)
Gun carriage, set.....	1		Per gun carriage. (Note A.)
Railway car for gun carriages, set.....	1		Per railway car for gun carriage. (Note A.)
Tools and stores, miscellaneous, set.....	1		Per battery. (Note A.)

SECTION IIIc.—Ammunition and armament special for 12-inch railway guns.

Ammunition.....	(e)		• Allowance as prescribed in War Department instructions.
Board, fuse and primer sectionalised.		1	Per battalion. (Note 1.)
Carriage, railway, 12-inch gun.	1		Per gun. (Note A.)
Car, railway, ground platform.	2		Per gun carriage.

SECTION IIIc.—Ammunition and armament special for 12-inch railway guns—Contd.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Chests:			
Armament—			
Size Y.....	(a)	.....	a 1 per gun and carriage and 1 spare per battery. (Note A.)
Size Z.....	(a)	.....	Do.
Spare parts, size Z.....	2	.....	Per gun and carriage. (Note A.)
Clinometer.....	1	.....	Per regiment.
Dummy projectiles and powder charges, set.....	1	.....	Per gun.
Gauge, pressure outfit, major caliber, complete.....	1	.....	Per battery. (Note A.)
Guns, 12-inch.....	4	.....	Do.
Quadrants:			
Elevation.....	(a)	.....	a 1 per gun and carriage and 1 spare per battery. (Note A.)
Gunnery.....	(a)	.....	Do.
Rest, clinometer.....	1	.....	Per battery.
Sights, bore, set.....	1	.....	Do.
Sights, complete:			
Panoramic, with telescope—			
Graduated in mils.....	(a)	.....	a 1 per gun carriage and 1 spare per battery. (Note A.)
Graduated in degrees.....	(a)	.....	a (S) 1 per gun carriage and 1 spare per battery. (Note A.)
Telescopic.....	(a)	.....	Do.
Spare parts for:			
Carriages, railway, gun, set.....	1	.....	Per battery. (Note A.)
Guns, set.....	1	.....	Do.
Platforms, ground, set.....	1	.....	Do.
Thermometer, mercurial, graduated in Fahrenheit.....	1	.....	Per battery.
Tools and accessories for:			
Gun, set.....	1	.....	Per gun. (Note A.)
Railway gun carriage, set.....	1	.....	Per carriage. (Note A.)
Tools and stores, miscellaneous, set.....	1	.....	Per battery. (Note A.)

SECTION IIIe.—Ammunition and armament special for 12-inch railway mortars.

Ammunition.....	(a)	.....	a Allowances as prescribed in War Department instructions.
Board, fuze, and primer sectionized.....	1	.....	Per battalion. (Note 1.)
Carriage, 12-inch mortar, railway, complete.....	1	.....	Per mortar. (Note A.)
Car, railway, for 12-inch mortar carriage.....	1	.....	Per mortar carriage. (Note A.)
Chests:			
Armament, No. 1, with trays.....	(a)	.....	a 1 per mortar and carriage and 1 spare per battery. (Note A.)
Armament, No. 2, with trays.....	(a)	.....	Do.
Spare parts, size Z, with trays.....	3	.....	Per mortar and carriage (2 with trays AA, 1 with tray CC). (Note A.)
Clinometer.....	1	.....	Per regiment.
Dummy projectiles and powder charges, set.....	1	.....	Per mortar.
Gauge, pressure outfit, major caliber, complete.....	1	.....	Per battery. (Note A.)
Mortars, 12-inch.....	4	.....	Do.
Quadrants:			
Elevation.....	(a)	.....	a 1 per mortar carriage and 1 spare per battery.
Gunnery.....	(a)	.....	Do.
Rest, clinometer.....	1	.....	Per battery.
Sights, bore, set.....	1	.....	Do.
Sights, complete:			
Panoramic, with telescope—			
Graduated in mils.....	(a)	.....	a 1 per mortar carriage and 1 spare per battery.
Graduated in degrees.....	(a)	.....	a (S) 1 per mortar carriage and 1 spare per battery.

SECTION IIIe.—*Ammunition and armament special for 12-inch railway mortars—Con*

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Spare parts for:			
Carriages, set.....	1		Per battery. (Note A.)
Mortars, set.....	1		Do.
Railway cars for carriages, set.....	1		Do.
Subcaliber outfit, complete.....		1	Per mortar. (Note A.)
Thermometer, mercurial, graduated in Fahrenheit.	1		Per battery.
Tools and accessories for:			
Mortar, set.....	1		Per mortar. (Note A.)
Mortar carriage, set.....	1		Per mortar carriage. (Note A.)
Railway car for carriage, set.....	1		Per railway car for mortar carriage. (Note A.)
Tools and stores, miscellaneous, set.....	1		Per battery. (Note A.)

SECTION IV.—*Engineering equipment.*

DRAFTING EQUIPMENT.

Compass, beam, micrometer adjustment	1		Per battery, battalion, regimental, and brigade headquarters.
Curves, railroad, set.....	1		Per battalion, regimental, and brigade headquarters.
Dividers, proportional, in case, 8 $\frac{1}{2}$ -inch..	1		Per battery.
Drafting equipment:			
Company.....	1		Per battery. (Note 2.)
Battalion.....	1		Per battalion headquarters. (Note 2.)
Regimental.....	1		Per regimental and brigade headquarters. (Note 4.)
Drafting supplies.....	(a)		^a Per battery, battalion, regimental, and brigade headquarters. (Note 3.)
Glass, magnifying, with handle.....	(a)		^a 1 per battery, battalion, and regimental headquarters; 2 per brigade headquarters.
Glass, magnifying, pocket.....	(e)		^a 1 per battery, battalion, and regimental headquarters; 3 per brigade headquarters.
Pantograph in case with vernier and micrometer adjustments.	1		Per battalion headquarters.
Protractors, semicircular:			
G. S., 8-inch, with case.....	1		Per battery.
Xylonite, transparent—			
12-inch, graduated in degrees.....	2		Per battery, battalion, regimental, and brigade headquarters.
16-inch, graduated in mills.....	2		Do.
Parallax, flexible, 60 inches long—			
Graduated in degrees, 1/10,000.....	2		Per battery.
Graduated in degrees, 1/20,000.....	2		Do.
Graduated in degrees, 1/32,500.....	2		Do.
Graduated in mills, 1/10,000.....	2		Do.
Graduated in mills, 1/20,000.....	2		Do.
Graduated in mills, 1/32,500.....	2		Do.
Rule, adjustable curve, 15 inches long..	1		Per battery, battalion, regimental, and brigade headquarters.
Rule, adjustable curve, 30 inches long..	1		Do.
Ruler, parallel, rolling, 15-inch.....	1		Do.
Scales:			
Map, 20-inch, graduated in meters and yards, 1/10,000.....	(a)		^a 1 per battery, and battalion; 3 per regimental and brigade headquarters.
Map, 10-inch, graduated in meters and yards, 1/20,000.....	(e)		Do.
Map, 10-inch, graduated in meters and yards, 1/32,500.....	(e)		Do.
Squares, zinc, graduated for plotting coordinates.	2		Per battery, battalion, regimental, and brigade headquarters.
Shears, 12-inch.....	1		Do.
Straightedge, steel, 1 yard.....	1		Do.

SECTION IV.—Engineering equipment—Continued.

DRAFTING EQUIPMENT—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Tables:			
Logarithm, numbers, and trigonometric functions of degrees and mins, 5 place.	2	.....	Per battery, battalion, regimental, and brigade headquarters.
Logarithm, numbers, and trigonometric functions of degrees, 7 place.	1	.....	Per battery.
Units of weight and measure.....	1	.....	Per battery, battalion, regimental, and brigade headquarters.
Tape, steel, map, graduated in yards, scale 1/20,000, 50 inches long.	(a)	.....	^a 1 per battery; 2 per battalion, regimental and brigade headquarters.
Water colors, set.....	1	.....	Per battery, battalion, regimental, and brigade headquarters. (Note 6.)

MAP REPRODUCTION EQUIPMENT.

Cyclostyle.....	1	Per regimental and brigade headquarters. (Note 7.)
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SURVEYING EQUIPMENT.

Alidade, brass, open-sight, leveling, complete with case and declinator with leveling bubble.	1	Per battalion and brigade headquarters.
Alidade, miniature, telescopic, with leather case.	1	.....	Per battalion and regimental headquarters.
Kit, repair, steel tape.....	1	.....	Per battalion headquarters.
Pins, surveyors (steel arrows) set.....	1	.....	Per transit.
Plane table, 18 by 24 inches, with tripod and waterproof case.	1	.....	Per battalion and regimental headquarters.
Plane table, 24 by 31 inches, with tripod attachment, tripod and waterproof cover, alidade combined with Beman arc, clamp, and tangent to the telescopic axis.	1	.....	Per battalion and brigade headquarters.
Plumbing arm and 10-ounce plummet..	1	.....	Per plane table.
Plumb bobs, brass, 10 ounce.....	2	.....	Per transit.
Poles, ranging.....	2	.....	Do.
Rods, leveling.....	1	.....	Per battalion and regimental headquarters.
Sketching outfits.....	1	.....	Per battery, battalion, and regimental headquarters. (Note 8.)
Stadia rod, folding.....	1	.....	Per battalion and regimental headquarters.
Supplies, surveying equipment.....	(a)	.....	^a Per battery, battalion, regimental, and brigade headquarters. (Note 9.)
Tapes, steel, pocket, 2M, graduated in meters and inches.	1	.....	Per battalion and regimental headquarters.
Tape, steel, measuring, 100-foot, graduated in meters and centimeters on one side and in feet, tenths, and hundredths on the other side.	1	.....	Per battery, battalion, and brigade headquarters.
Transit, complete with tripod, least reading to 20 seconds.	1	.....	Per battalion and regimental headquarters.

MISCELLANEOUS.

Cable, electric power.....	(a)	.....	^a (S) To be determined by local commander.
Camouflage equipment, set.....	1	.....	Per battery. (Note 10.)
Sand bags.....	5,000	.....	Per battalion.
Searchlights.....	3	.....	Do.
Wire:			
Electric distribution.....	(a)	.....	^a (S) To be determined by local commander.
Electric power.....	(a)	.....	Do.

SECTION V.—Fire-control equipment.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Arms, metal.....	3		Per battery and battalion headquarters.
Atmosphere slide rule.....	1		Per battery.
Azimuth instrument, graduated in degrees, complete, with tripod, lighting devices, and carrying cases.....	2		(S) Per battery and battalion headquarters. (Note A.)
Azimuth instrument, graduated in mils, complete, with tripod, lighting devices and carrying cases.....	2		Per battery and battalion headquarters. (Note A.)
Azimuth instrument, model 1918, periscopic, graduated in mils, complete, with tripod, lighting devices, and carrying cases.....	2		Do.
Aiming rule and sights.....	1		Per gun and mortar. (Note A.)
Board:			
Deflection.....	1		(S) Per battery. (Note A.)
Firing, 30 by 45 inches.....	1		Per battery and battalion.
Plotting.....	1		(S) Per battery. (Note A.)
Elevation.....	1		(S) Per mortar battery.
Range.....	1		(S) Per gun battery. (Note A.)
Devices, computing:			
Range.....	1		Per battery.
Deviation.....	1		Do.
Plotter, aircraft observation.....	1		Do.
Tables, range.....	(a)		^a 12 per battery, battalion, and regimental headquarters; 2 per each caliber gun, howitzer and mortar comprising the brigade, for brigade headquarters.
Thermometer, weather, graduated in Fahrenheit.....	2		Per battery.
Time interval recorders with chains and shock absorbers.....	6		Per battery and battalion headquarters.
Wind component indicator.....	1		(S) Per battery. (Note A.)

SECTION VI.—Miscellaneous equipment.

Flashlights, complete, with bulb and battery, each with an extension cord socket, lamp, and web strap, and clip holder.....	(a)		^a 1 per each chief of detail, switchboard, and radio operator, and per each individual whose duty requires him to set or read a scale, chart, or table; 50 per centum spares.
Tents, wall, small, complete with poles, pins, ropes, and fly.....	1		Per lettered battery, headquarters battery and service battery for office; additional to allowance in Table III, Circular No. 152, War Department, 1920.

SECTION VII.—Communication equipment.

Axes, hand, 4 pound.....	(a)		^a 4 per battalion, regimental, and brigade headquarters; 1 per radio set.
Bag, tool, service complete.....	1		Per battery, battalion, regimental, and brigade headquarters. (Note 11.)
Bar, crow and digging, tool steel.....	1		Per battery, battalion, regimental, and brigade headquarters.
Batteries:			
Type BA-1.....	(a)		^a 2 (1 spare) per each monocord operator's switchboard set, type EE 64, and universal test set, type EE 65.
Type BA-2.....	(a)		^a 5 (additional spares) per each radio set, type SCR 132; 4 (2 spare) per universal test set, type EE 65.
Type BA-9.....	(a)		^a 2 (1 spare) per each telephone, type EE 5.
Type BA-10.....	(a)	(b)	^a 4 (2 spare) per decrementer SCR 87 and per vibrating-bell 4-ohm. ^b 4 (2 spare) per set buzzer instruction, type EE 14.

SECTION VII.—Communication equipment—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Bells, time interval, small.....	1	.....	(S) Per plotting room, battery commander's station, and observation station.
Bell, time interval, large.....	1	.....	(S) Per mortar.
Bell, vibrating, 4-ohm.....	4	.....	Per brigade headquarters.
Cipher device.....	(e)	.....	o 1 per battalion and regimental headquarters; 2 per brigade headquarters.
Clips, Frankel testing.....	(e)	.....	o 2 per each universal test set, type EE 65 and telephone switchboard; 6 per each radio set and battery charging set.
Cards, switchboard, monocard type....	(e)	.....	o 2 per switchboard, type BD-9; 3 per switchboard, type BD-11.
Couplers, lancepole, type FT-2.....	8	.....	Per battery, battalion, regimental, and brigade headquarters.
Decimeter.....	1	.....	Per battalion, regimental, and brigade headquarters.
Electrolyte in 12-gallon carboy.....	1	.....	For battery charging set.
Fuses, monocard switchboard.....	1	.....	Per 2 lines.
Gloves, rubber, light, pairs.....	2	.....	Per battery charging set.
Grips, Buffalo, with pulleys, complete set.....	(e)	.....	o 1 per battery, battalion, and regimental headquarters; 2 per brigade headquarters.
Groundman's equipment, sets.....	2	.....	Per battery, battalion, and regimental headquarters. (Note 12.)
Hammers, claw.....	2	.....	Per battery, battalion, regimental, and brigade headquarters.
Hammers, sledge, 8 pounds.....	2	.....	Do.
Headsets, telephone, high efficiency, with soft rubber ear caps.....	1	.....	Per telephone.
Hydrometer.....	2	.....	Per battalion, regimental, and brigade headquarters, and battery charging set.
Insulators:			
Clamp.....	50	.....	Per battery, battalion, regimental, and brigade headquarters.
Wooden knobs.....	(e)	.....	o 1,000 per battery; 2,000 per battalion, regimental, and brigade headquarters.
Kits:			
Inspectors, pocket.....	(e)	.....	o 1 per radio set; 4 per battery, battalion, regimental, and brigade headquarters. (Note 13.)
Soldering.....	1	.....	Per battery, battalion, regimental, and brigade headquarters. (Note 14.)
Leather nail heads.....	(e)	.....	o 2,000 per battery; 4,000 per battalion, regimental, and brigade headquarters.
Lineman's equipment, sets.....	2	.....	Per battery, battalion, regimental, and brigade headquarters. (Note 15.)
Marlin, pounds.....	10	.....	Per battery, battalion, regimental, and brigade headquarters.
Megaphones.....	2	.....	Per battery.
Nails, 20d, pounds.....	20	.....	Per battery, battalion, regimental, and brigade headquarters.
Panels, Heavy Artillery, set.....	1	.....	Per battalion, regimental, and brigade headquarters. (Note 16.)
Pliers:			
Diagonal cutting, 5-inch.....	2	.....	Per battery, battalion, regimental, and brigade headquarters.
Long oval nose, 5-inch.....	2	.....	Do.
Poles, lance, with tips.....	50	.....	Do.
Reel carts, pack type RL-1C.....	3	.....	Per battery, battalion, and regimental headquarters; 4 per brigade headquarters. (Note 17.)
Relay.....	1	.....	(S) Per each observing station for T. I. bell, small.
Reels:			
Hand, buzzer wire.....	1	.....	Per buzzer instruction set.
Payout.....	2	.....	Per battalion, regimental, and brigade headquarters.
Rods, ground, type GP-16.....	2	.....	Per switchboard.
Saw, hand, crosscut, 28-inch, 8 point.....	1	.....	Per battery, battalion, regimental, and brigade headquarters.

SECTION VII.—Communication equipment—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Screw driver, cabinet type.....	1		Per switchboard.
Screws, iron, bright, f. h.:			
$\frac{1}{4}$ -inch, No. 6, gross.....	2		Per battery, battalion, regimental, and brigade headquarters.
$\frac{1}{2}$ -inch, No. 8, gross.....	2		Do.
$\frac{1}{4}$ -inch, No. 8, gross.....	2		Do.
$\frac{1}{2}$ -inch, No. 8, gross.....	2		Do.
$\frac{3}{4}$ -inch, No. 8, gross.....	2		Do.
Set:			
Battery charging, 1 $\frac{1}{2}$ kw.....	1		Per battalion, regimental, and brigade headquarters. (Note 18.)
Buzzer instruction.....		1	Per battalion, regimental, and brigade headquarters. (Note 19.)
Radio telegraph and telephone, type SCR-132.....	1		Per battalion, regimental, and brigade headquarters. (Note 20.)
Radio telegraph and telephone, type SCR-138 or type SCR-109.....	1		Per battalion and regimental headquarters. (Note 21.)
Test, universal, type EE-65.....	1		Per battalion, regimental, and brigade headquarters.
Staples, Blake insulated No. 5, gross....	(e)		*2 per battery, 4 per battalion, regimental, and brigade headquarters.
Strips, terminal, 10 pair.....	(e)		*2 per battery, and battalion headquarters; 4 per regimental and brigade headquarters.
Switchboards, Signal Corps:			
Type BD-9 (4 lines).....	(e)		*4 per battery; 1 per battalion and regimental headquarters. (Note A.)
Type BD-11 (12 lines).....	(e)		*2 per battalion, regimental, and brigade headquarters. (Note A.)
Switchboard unit, type EE-2.....	2		Per battery, battalion, regimental, and brigade headquarters.
Tape:			
Friction, pounds.....	(e)		*10 pounds per battery, battalion, regimental, and brigade headquarters; 1 pound per radio set and switchboard.
Rubber, pounds.....	(e)		*5 pounds per battery, battalion, regimental, and brigade headquarters; $\frac{1}{2}$ pound per radio set and switchboard.
Telephones, type EE-5.....	(e)		*18 per battery; 8 per battalion; 12 per regimental and brigade headquarters. (Note A.)
Time interval apparatus, complete.....	1		(B) Per battalion and regimental headquarters. (Note A.)
Voltammeter, battery, 0-35 amperes; 0-11 volts.....	1		Per battery, battalion, and regimental headquarters.
Voltammeter, Weston, type 280.....	1		Per battalion and regiment.
Watches, wrist, luminous dial with wristlets.....	(e)		*1 per radio set and switchboard. In time of war, 8 per battery, battalion and regimental headquarters.
Wire:			
Buzzer, on $\frac{1}{4}$ -mile spools.....		1	Per buzzer instruction set.
Field, twisted pair, 11 strand, type W-40, miles.....	(e)		*25 per battery and battalion; 20 per regimental headquarters; 40 per brigade headquarters.
House, twisted pair, feet.....	(e)		*100 feet per vibrating ball.
Outpost, type W-44.....	5		Per battery and battalion for signal bells.
Outside distributing, twisted pair, No. 17, type W-33, miles.....	2		Do.

SECTION VIII.—Transportation.

Ambulance, motor.....	1		Per battalion and regiment. (Note A.)
Cars, motor:			
5 passenger.....	(e)		*1 per battalion headquarters; 2 per regimental and brigade headquarters. (Note A.)
Reconnaissance.....	1		Per battalion and regimental headquarters.

SECTION VIII.—*Transportation*—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Cars, railway:			
Ammunition.....	(a)		a 1 per complete rounds as follows: 7-inch and 8-inch guns, 96 rounds; 10-inch guns and 12-inch mortars, 48 rounds; 12-inch guns, 36 rounds; 14-inch guns, 24 rounds 16-inch howitzers, 20 rounds. (Note A.)
Fire control.....	1		Per battery, battalion, and regimental headquarters. (Note A.)
Electric power plant complete.....	1		Per battalion. (Note A.) (To be furnished only when required for field or coast defense service.)
Tank.....	1		Per battery. (Note A.) (To be furnished only when required for field or coast defense service.)
Gondola.....	1		Per battery and regimental headquarters. (Note A.) (To be furnished only when required for field or coast defense service.)
Machine shop.....	1		Per battalion. (Note A.)
Store.....	(a)		a 1 per battery and per machine shop. (There will be furnished only for field or coast defense service additional store cars as follows: 2 per battery and 1 per battalion headquarters.) (Note A.)
Locomotive.....	1		Per regiment. (There will be furnished for field or coast defense service additional locomotives as approved by the Secretary of War.) (Note A.)
Motor cycles with side cars.....	(a)		a 2 per lettered battery, headquarters battery, and service battery, battalion, and 6 per regimental headquarters and brigade headquarters.
Spare parts for:			
Cars, railway, set.....	1		Per battalion. (Note A.)
Motor cars, motor cycles, trucks, tractors and trailers, set.....	1		Per machine shop. (Note A.)
Tools, track equipment, set.....	1		Per battery. (Note 22.)
Trucks:			
FWD 3-ton, cargo, type A body.....	5		Per battalion and regimental headquarters: 3 per brigade headquarters.
Light repair.....	1		Per battalion. (Note A.)
$\frac{1}{2}$ -ton cargo.....	2		Per lettered battery, headquarters battery, and service battery, battalion, regimental, and brigade headquarters. (Note A.)
Radio divisional.....	1		Per battalion, regimental, and brigade headquarters.

SECTION IX.—*Notes pertaining to Table IV-G, railway artillery.*

NOTE A.

Standard equipment according to the most recent specifications of the particulars supply department and as described in the latest edition handbook or pamphlet for that article, its accessories, and spare parts.

NOTE B.—AMMUNITION, SMALL ARMS.

How carried.	Person.	Ammunition cars.
Per rifle, rounds.....	100	100
Per pistol, rounds.....	35	42

NOTE 1.—BOARDS, FUZE AND PRIMER, SECTIONALIZED.

Board having mounted thereon sectionalized fuzes and primers of each type used by the armament of the battalion.

NOTE 2.—DRAFTING EQUIPMENT, COMPANY, ENGINEER.

EQUIPMENT.		SUPPLIES—continued.	
	Number.		Number.
Board, drawing, 23 by 31 inches, with trestle.	1	Ink:	
Chest, drafting, company, engineer	1	Drawing, black, bottles	2
Eraser, steel	1	Drawing, blue, bottle	1
Instruments, drawing, office set	1	Drawing, carmine, bottle	1
Measurer, map	1	India, stick	1
Protractor, G. S., semicircular, 6-inch	1	Pads:	
Scales:		Pencil pointing, 1½ by 4 inches	1
Architect's, 12-inch, with sheath	1	Scratch, 6 by 9 inches	2
Engineer's, 12-inch, with sheath	1	Paper:	
Map, metric, 30 cm	1	Blotting, 3½ by 9½ inches, dozen	1
Shield, erasing	1	Drawing, 22 by 30 inches, gross	1
Slab, ink	1	Profile, tracing, 20-inch, 50-yard roll	1
T-square, 30-inch	1	Pencils:	
Triangles:		Drawing, H	6
30°-60°, 10-inch	1	Drawing, 3H	6
45°, 8-inch	1	Drawing, 5H	6
Tubes, tin, 39 by 4 inches diameter	3	Pens:	
SUPPLIES.		Crow-quill, dozen, with holder	1
Books, record, I. P. No. 103, with fillers	3	Drawing, Gillott, assorted, gross	1
Cloth, tracing, 30-inch, 24-yard roll	1	Mapping, dozen, with holder	1
Erasers:		Pins, cone	1
Rubber, pencil	2	Tacks, thumb, gross	2
Rubber, ink	1	Tape, adhesive, rolls	2
Fillers, book, I. P. No. 103, sets of 50 sheets	6	Twine, hemp, 2-ounce ball	1

NOTE 3.—DRAFTING EQUIPMENT, BATTALION.

EQUIPMENT.		SUPPLIES—continued.	
	Number.		Number.
Board, drawing, 31 by 42 inches, with trestles	1	Ink:	
Chest, drafting, battalion	1	Drawing, black, bottles	2
Dividers, proportional, 8½-inch	1	Drawing, blue, bottle	1
Erasers, steel	1	Drawing, brown, bottle	1
Instruments, drawing, office set	1	Drawing, carmine, bottle	1
Measurers, map	1	India, stick	1
Protractors, G. S., semicircular, 8-inch, with case	1	Pads:	
Scales:		Pencil pointing, 1½ by 4 inches	1
Architects' 12-inch, with sheath	1	Scratch, 6 by 9 inches	4
Engineers' 12-inch, with sheath	1	Paper:	
Map, metric, 30 cm	1	Blotting, 3½ by 9½ inches, dozen	1
Shields, erasing	1	Cross-section, 20-inch, 10-yard roll	1
Slabs, ink	1	Drawing, 30-inch, 30-yard roll	1
Slide rule, 18-inch, with case	1	Tracing, 30-inch, 10-yard roll	1
T-square, 42-inch	1	Wrapping, 40 by 45 inches, dozen	2
Tables, logarithm, 7 place	1	Paste, library, 8-ounce jar	1
Triangles:		Pencils:	
30°-60°, 10-inch	1	Drawing, H	6
45°-8-inch	1	Drawing, 3H	6
Tubes, tin, 39 by 4 inches diameter	4	Drawing, 5H	6
SUPPLIES.		Pens:	
Book, record, I. P. No. 103, with fillers	3	Crow-quill, dozen, with holder	1
Cloth, tracing, 30-inch, 24-yard roll	1	Drawing, Gillott, assorted, gross	1
Erasers:		Mapping, dozen, with holder	1
Rubber, pencil	2	Pins, cone	1
Rubber, ink	1	Tacks, thumb, gross	2
Fillers, book, I. P. No. 103, sets of 50 sheets	6	Tape, adhesive, rolls	2
		Twine, hemp, 2-ounce balls	1

NOTE 4.—DRAFTING EQUIPMENT, REGIMENTAL, ENGINEER.

EQUIPMENT.	Number.	SUPPLIES—continued.	Number.
Boards, drawings, 31 by 42 inches, with trestles.	2	Fillers, book, I. P. No. 103, sets of 50 sheets.	12
Chest, drafting, regimental, engineer.	1	Ink:	
Dividers, proportional, 8 $\frac{1}{2}$ -inch.	2	Drawing, black, bottles.	4
Erasers, steel.	2	Drawing, blue, bottles.	2
Instruments, drawing, office sets.	2	Drawing, brown, bottles.	2
Measurers, map.	2	Drawing, carmine, bottles.	2
Pantograph, with case.	1	India, sticks.	2
Protractors, G. S., semicircular, 8-inch, with case.	2	Pads:	
Scales:		Pencil pointing, 1 $\frac{1}{2}$ by 4 inches.	2
Architect's, 12-inch, with sheath.	2	Scratch, 6 by 9 inches.	4
Engineer's, 12-inch, with sheath.	2	Paper:	
Map, metric, 30 cm.	2	Blotting, 3 $\frac{1}{2}$ by 9 $\frac{1}{2}$ inches, dozen.	2
Shields, erasing.	2	Cross-section, 20-inch, 10-yard roll.	1
Slabs, ink.	2	Drawing, 30-inch, 30-yard rolls.	2
Slide rules, 18-inch, with case.	2	Tracing, 30-inch, 10-yard roll.	1
T-squares, 42-inch.	2	Wrapping, 40 by 48 inches, dozen.	4
Tables, logarithm, 7 place.	1	Paste, library, 8-ounce jar.	1
Triangles:		Pencils:	
30°-60°, 10-inch.	2	Drawing, H.	12
45°, 8-inch.	2	Drawing, 3H.	12
Tubes, tin, 39 by 4 inches diameter.	4	Drawing, 5H.	12
		Pens:	
SUPPLIES.		Crow-quill, dozen, with holder.	2
Books, record, I. P. No. 103, with fillers.	6	Drawing, Gillot, assorted, gross.	2
Cloth, tracing, 30-inch, 24-yard rolls.	2	Mapping, dozen, with holder.	4
Erasers:		Pins, cone.	1
Rubber, pencil.	4	Tacks, thumb, gross.	6
Rubber, ink.	2	Tape, adhesive, rolls.	4
		Wine, hemp, 2-ounce balls.	2

NOTE 5.—DRAFTING SUPPLIES.

[In addition to supplies furnished with drafting equipment, sets.]

Supplies.	Lettered battery.	Battalion head-quarters and battalion section of head-quarters battery.	Regimental head-quarters and regimental section of head-quarters battery.	Brigade head-quarters.
Horn centers.	3	3	3	6
Paper:				
Cross section, tracing, 20-inch, 10-yard roll.	1	1	1	2
Drawing, mounted, 30 by 45 inches, sheets.	24	24	24	24
Profile, tracing, 20-inch, 10-yard roll.	1	1	1	2
Penholders, writing.	2	2	2	6
Pins, colored head, map tacks, boxes of 100:				
Black.			1	1
Blue.			1	1
Brown.			1	1
Green.			1	1
Red.			1	1

NOTE 6.—WATER COLORS, SET.

Japanned tin box containing 12 half pans of the following colors:

- | | |
|--------------------------|--------------------|
| 1. Ivory black. | 7. Crimson lake. |
| 2. Mauve. | 8. Vermilion. |
| 3. Hooker's green No. 2. | 9. Orange chrome. |
| 4. Emerald green. | 10. Chrome yellow. |
| 5. Vandyke brown. | 11. Chinese white. |
| 6. Raw umber. | 12. Prussian blue. |

Also the following brushes:

- | | |
|----------|---------|
| 1 No. 2. | 1 No. 6 |
| 1 No. 4. | |

NOTE 7.—MAP REPRODUCTION EQUIPMENT, CYCLOSTYLE.

EQUIPMENT.	Number.	SUPPLIES—continued.	Number.
Frame, printing, consisting of base, zinc plate, and hinged stretcher frame, 21 by 26 inches..	1	Ink, printer's:	
Frames, stretcher, for silk.....	6	Black, 1-pound tubes.....	5
Rollers, ink, hand, 14-inch.....	2	Blue, 1-pound tubes.....	5
Styli, tooth-wheeled, ball points.....	4	Green, 1-pound tubes.....	5
		Red, 1-pound tubes.....	5
		Yellow, 1-pound tubes.....	5
		Paper, books, 19 by 24 inches, reams.....	3
		Silk, white, fine mesh, 24 by 28 inch sheets.....	6
		Stencils, wax paper, 24 by 28 inch sheets.....	48

NOTE 8.—SKETCHING OUTFIT.

EQUIPMENT.	Number.	SUPPLIES.	Number.
Alidade, boxwood.....	1	Celluloid, sheets, 12½ by 13½ inches.....	12
Boards, sketching, with W. P. covers.....	1	Erasers, rubber, pencil.....	4
Chest, sketching outfit.....	1	Paper, sketching, gross.....	1
Clinometer, service, with case.....	1	Pencils:	
Compass, prismatic, with case.....	1	Blue.....	4
Pace tally.....	1	Drawing, H.....	16
Strap, wrist.....	1	Green.....	4
Tripod, wood, folding.....	1	Red.....	4
		Protectors, pencil point.....	4
		Tape, adhesive, rolls.....	3

NOTE 9.—SUPPLIES, SURVEYING EQUIPMENT.

Supplies.	Lettered battery.	Battalion head-quarters and battalion section of head-quarters battery.	Regimental head-quarters and regimental section of head-quarters battery.	Brigade head-quarters.
Book, level.....		3	3	
Books, transit.....		6	6	
Celluloid sheets, 18 by 24 inches.....		12	12	
Celluloid sheets, 24 by 31 inches.....		12		12
Crayons, lumber, red, boxes.....	1	1	1	1
Paper:				
Plane table, 18 by 24 inches, sheets, dozen.....		2	2	
Plane table, 24 by 31 inches, sheets, dozen.....		2		2

NOTE 10.—CAMOUFLAGE EQUIPMENT, SETS.

The material required will be issued on special requisition of commanding officer and will depend upon local conditions.

NOTE 11.—BAG, TOOL SERVICE, COMPLETE.

	Number.		Number.
Try-square, steel, 4-inch blade.....	1	Screw drivers:	
Chisels:		6-inch blade.....	1
Cold, ½-inch.....	1	10-inch blade.....	1
Wood, ½-inch socket blade, iron, ring-topped handle, Jennings, No. 15.....	1	Solder, resin core, pound.....	1
Hammer, claw, bell faced, 16-ounce.....	1	Wrenches:	
Holder, tool, and 10 high-grade steel tools.....	1	Screw, forged, 6-inch, monkey.....	1
Knife, electrician's, 2 blades.....	1	Socket, for telephone apparatus, 4-inch....	1
Level, pocket spirit, 3-inch.....	1	Brace, ratchet, 8-inch throw.....	1
Plane, block, 6-inch, 1½-inch cutter.....	1	Bits, auger, solid center, double cutter extension lips:	
Pliers:		½-inch.....	1
Pair, 6-inch, side-cutting.....	1	¾-inch.....	1
Pair, 8-inch, side-cutting.....	1	1-inch.....	1
Rule, 4-foot, folding, boxwood, 8 parts.....	1	1-inch.....	1
Saw, back, 10-inch.....	1	Polarity indicator.....	1

NOTE 12.—GROUNDMAN'S EQUIPMENT, TYPE TE-23, SETS.

	<i>Number.</i>		<i>Number.</i>
Belts, plain.....	1	Gloves, leather, pair.....	1
Pliers, 8-inch.....	1		

NOTE 13.—KIT, INSPECTOR'S POCKET, COMPLETE.

	<i>Number.</i>		<i>Number.</i>
Case, carrying, inspector's pocket kit.....	1	File, half-round bastard, with handle, 3-inch..	1
Screw driver and skinning knife combined, with safety spring.....	1	Tweezers, 4½-inch, pair.....	1
Scissors, electrician's, 5-inch.....	1	Screw driver, 2-inch.....	1
Pliers, side-cutting, 5-inch.....	1	Rule, 2-foot, four-fold, narrow boxwood.....	1

NOTE 14.—KIT, SOLDERING, COMPLETE.

	<i>Number.</i>		<i>Number..</i>
Torch, gasoline, with hook support on burner, pint size.....	1	Sheets of sandpaper, No. 1.....	4
Soldering copper, ½-pound, with handle.....	1	Spools of resin core solder, 5-pounds each.....	2
		Oak containing case, 10½ by 8½ by 11 inches....	1

NOTE 15.—LINEMAN'S EQUIPMENT, TYPE TE-21.

	<i>Number.</i>		<i>Number.</i>
Ax, hand, lineman, 4-pound.....	1	Pliers, side cutting, 8-inch.....	1
Belt, lineman, and safety straps.....	1	Screw driver, 10-inch blade.....	1
Clamp, splicing, combination, 10½-inch.....	1	Wrench, lag, combination, 13½-inch.....	1
Pair or set of climbers, lineman, with straps and pads (not over 16½ inches).....	1		

NOTE 16.—PANELS, SIGNALLING, ARMY ARTILLERY, TYPE AP-7, SET.

A series of light, readily portable black and white cotton panels for aerial communication with Heavy Artillery (Railway or Motorized) at regiment and battalion, Spec. 591 B. Dwg. 50001B1, comprises:

Panel, Heavy Artillery:

	<i>Number.</i>
Identification—	
Type AL55, black cotton lozenge, 29 feet 6 inches by 29 feet 6 inches; the diagonals having a ratio of 2 : 3.....	1
Type AL56, white cotton lozenge, 29 feet 6 inches by 29 feet 6 inches; the diagonals having a ratio of 2 : 3.....	1
Signaling—	
Type AL57, black cotton rectangle, 9 feet 10 inches by 29 feet 6 inches.....	3
Type AL58, white cotton rectangle, 9 feet 10 inches by 29 feet 6 inches.....	3
Distinguishing—	
Type AL59, black cotton lozenge, 9 feet 10 inches by 9 feet 10 inches; the diagonals having a ratio of 2 : 3.....	3
Type AL60, white cotton lozenge, 9 feet 10 inches by 9 feet 10 inches; the diagonals having a ratio of 2 : 3.....	3

NOTE 17.—REEL CART, PACK, TYPE RL-16.

1. This cart was designed for use in the Cavalry and is constructed on the knock-down principle that it may be taken apart to pack on the back of an animal, and its total weight is approximately 105 pounds. When disassembled for packing, it consists of five parts, viz, two wheels, frame, pole, and axle for reel. The wheels are of motor-cycle type, are ball bearing, and are equipped with solid rubber tires.

2. The entire cart may be assembled in a few moments without the use of tools, the several parts being provided with tapered sockets and are drawn together by eccentric clamps which hold them very rigidly. This cart will carry two steel spools of the French type, 7 inches wide and 22 inches in diameter, each holding 1 mile of single or one-half mile of twisted pair 11-strand field wire weighing, complete with spools, 112 pounds.

3. The cart with its full load of wire may be easily drawn by two men over ordinary ground, the wire being paid out or picked up as may be desired, a crank being provided for picking up the wire being operated by a third man.

4. This equipment packs on the ordnance type sparejo and pack frame, two separate devices being provided for carrying the wheels. These are fastened to the frame by means of the eccentric catch, the same as is used for ammunition carriers of the mountain gun. The reels with wire are carried on separate animals, each animal carrying two reels. The same ordnance type equipment is used for these reels as for the cart, but the hanger for the reel is slightly different than that used for carrying the wheel of the cart.

NOTE 18.—SET, BATTERY CHARGING, TYPE SCR-82.

One and one half kilowatt, 25 and 125 volt, battery charging set, complete, with engine, direct-connected generator, switchboard, and accessories, comprises:

	<i>Number.</i>
Gasoline engine, type GE-2, four-cycle, air-cooled, 1,200 revolutions per minute, 3 horsepower, complete, with coupling, gasoline tank, muffler, piping, etc.....	1
Generator, type GN-9, direct-connected, 25 and 115 volts, 2,000 watts.....	1
Panel, type BD-4, charging, bakelite dielecto, 24 by 18 by $\frac{1}{4}$ inch.....	1
Panel, type BD-5, charging, three-circuit, bakelite dielecto, 24 by 18 by $\frac{1}{4}$ inch.....	1

NOTE 19.—SET, BUZZER INSTRUCTION, TYPE EE-14.

	<i>Number.</i>		<i>Number.</i>
Buzzer.....	1	Head receivers and necessary connecting cords.....	1
Telegraph key.....	1	Jacks.....	1

NOTE 20.—SET, U. W. RADIOTELEGRAPH AND TELEPHONE, TYPE SCR-132.

Ground set to work with Army observation planes. Working range in miles, telephone 80-100, telegraph 200-250; transmitting wave length, 800-1,900 meters, receiving 550-2,200.

NOTE 21.—SET, RADIO TELEGRAPH, SCR-136.

Ground telephone and telegraph radio set capable of being packed on mule or transported in operating truck, SCR-124: Set to work with aeroplanes for adjustment of fire. Working range, telephone 30 miles, telegraph 50-90 miles; transmitting wave length 350-900 meters; receiving 150-1,200 meters.

NOTE 22.—TOOLS. TRACK EQUIPMENT, SET.

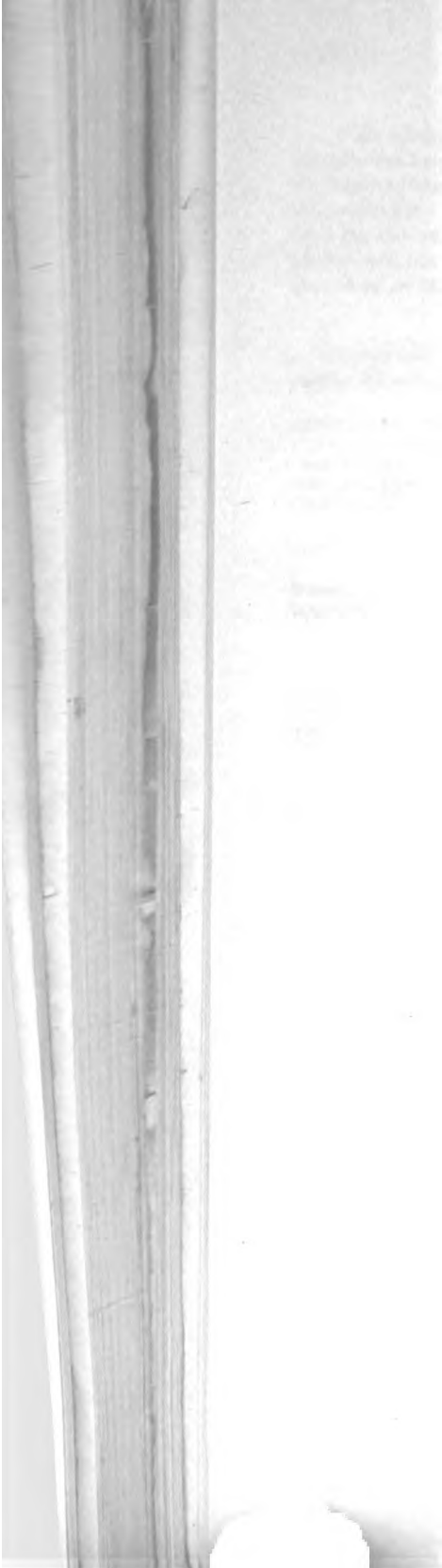
Comprises:	<i>Number.</i>	Comprises:	<i>Number.</i>
Adz.....	1	Jacks, track.....	2
Bars, tamping.....	6	Level, carpenter's.....	1
Crow bender.....	1	Picks.....	50
Gauge, track, standard.....	1	Picks, tamping.....	4
Hammer, sledge, 12-pound.....	1	Shovels.....	50
Hammers, spike.....	6		

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
Major General, Chief of Staff.

OFFICIAL:
P. C. HARRIS,
The Adjutant General.



WAR DEPARTMENT - 1 1921

WAR DEPARTMENT,
Washington, January 25, 1921.

MEMORANDUM CIRCULAR.

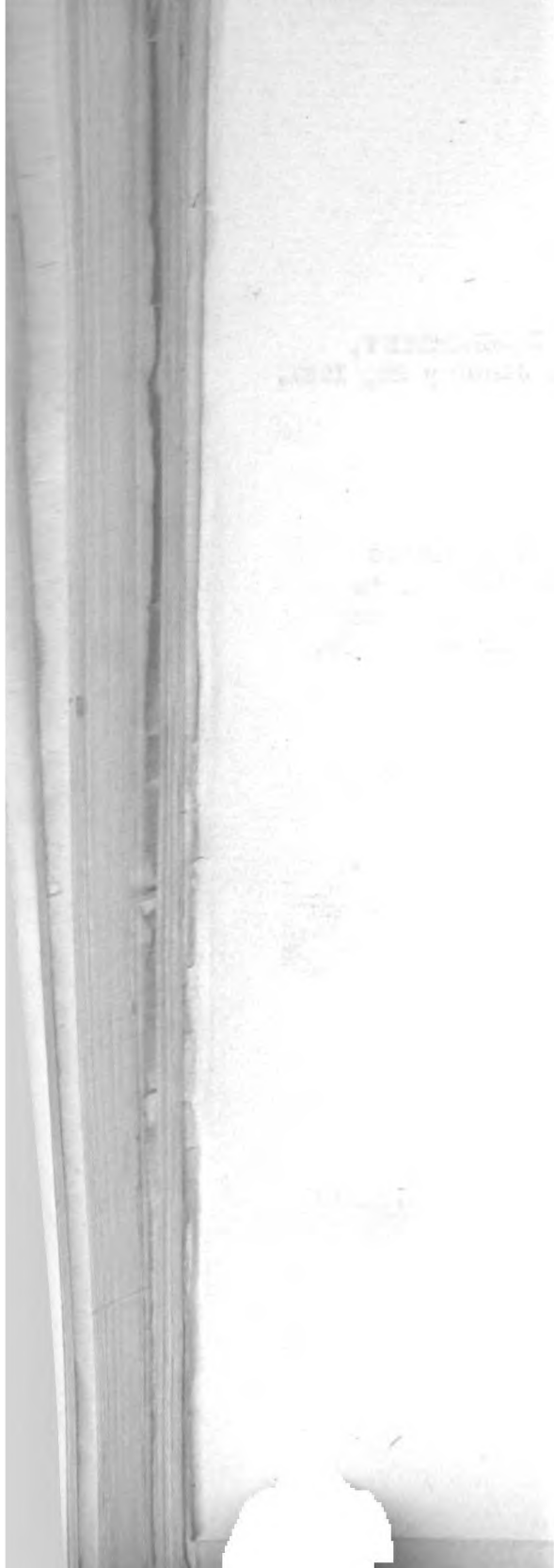
Circular No. 22, War Department, 1921 (Basic Allowance of Equipment for Disciplinary Units), is too long to be mimeographed. The circular is being printed and will be distributed as soon as available.

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area

Jem.

*No printed copy for issue in
Fourth Corps Area. 4/13/22*



CIRCULAR }
No. 169. }

WAR DEPARTMENT,
WASHINGTON, June 23, 1921.

TABLES OF BASIC ALLOWANCES—RESCISSION OF CIRCULAR NO. 152, WAR DEPARTMENT, 1920.

Circular No. 152, War Department, 1920, is rescinded, and the following Tables of Basic Allowances substituted therefor:

Circulars enumerated below, all supplementing Circular No. 152, War Department, 1920, are continued in force so as to add Tables IV and V prescribed therein to the tables prescribed herein.

Circular No. 80, W. D., 1920—Table IV-A—Equipment Special for Infantry, as amended by Circular No. 167, W. D., 1920.

Circular No. 134, W. D., 1920—Table IV-B—Equipment Special for a Cavalry Brigade.

on file Circular No. 178, W. D., 1920—Table IV-C—Equipment Special for Field Artillery, 75-m/m. Gun Regiments, horse-drawn.

on file Circular No. 179, W. D., 1920—Table IV-C—Equipment Special for Field Artillery 155-m/m. Howitzer Regiments, motor-drawn.

on file Circular No. 180, W. D., 1920—Table IV-C—Equipment Special for Field Artillery Brigade Headquarters.

see in 1921 Circular No. 445, W. D., 1919—Table IV-D—Equipment Special for Engineer Troops.

see in 34 1921 Circular No. 46, W. D., 1920—Table IV-E—Equipment Special for Tank Units.

on file Circular No. 81, W. D., 1920—Table IV-F—Equipment Special for Q. M. C. Remount Units.

see in 326 1921 Circular No. 219, W. D., 1920—Table IV-L—Equipment Special for Q. M. C. Field Units.

on file Circular No. 373, W. D., 1920—Table IV-G—Equipment Special for Coast Artillery Troops, Motor-Drawn Brigades and Regiments.

on file Circular No. 21, W. D., 1921—Table IV-G—Equipment Special for Coast Artillery, Railway Artillery Units.

on file Circular No. 16, W. D., 1921—Table IV-G—Equipment Special for Coast Artillery Troops, Fixed Armament.

on file Circular No. 198, W. D., 1920—Table IV-H—Equipment Special for Signal Troops.

on file Circular No. 212, W. D., 1920—Table IV—Equipment Special for Air Service Units.

Circular No. 22, W. D., 1921—Basic Allowances of Equipment for Disciplinary Organizations.

> Circular No. 293, W. D., 1920, as amended by Circular No. 402, W. D., 1920—Table V—Equipment Special for Posts, Garrisons, and Semi-permanent Camps.

on file Circular No. 371, W. D., 1920—Basic and Annual Allowances of Target and Target Material for Small Arms Target Ranges.

1. General instructions.

The following tables of basic allowances, as supplemented from time to time by Tables of Equipment, Special Regulations, and War Department circulars, in so far as they pertain to equipment herein prescribed, supersede all previous

equipment tables, manuals, regulations, and orders published by the War Department or the various branches. In case of conflict between Tables of Basic Allowances and any other tables, the former will govern. Lists of equipment which may be included in Tables of Organization are published for convenient reference in staff and other studies and will not be considered as authoritative if they conflict with allowances shown herein. They will, however, govern for any branch until the publication of Table IV, prescribing equipment special to that arm, or Tables of Equipment. Tables of Equipment, based on Tables of Basic Allowances, and Tables of Organization show the complete equipment of units.

2. Meaning of terms: Squad, company, battalion, and regiment.

a. The term "squad," as used in this circular, refers to a group of 8 men in any branch or arm of the service.

b. The term "company" will be understood to include the lowest administrative unit in every branch or arm, by whatever name it may be known, such as troop, battery, and squadrons, air parks, communications stations, and photo sections of the Air Service, etc.

c. The term "battalion" will be understood to include the smallest unit composed of two or more of the lowest administrative units or equivalent thereto, such as battalion of Infantry, squadron of Cavalry, motorized or horsed battalion of ammunition train, or of supply train, etc.

d. The term "regiment" will be understood to include all units composed of two or more battalions, or equivalent thereto, such as air service group, ammunition train, remount depot, coast defense, etc.

3. Application of Tables I, II, III, IV, and V.

Tables I, II, and III prescribe the basic allowances of individual and organizational equipment of common application to all branches of the service. Table IV, published in separate circulars, prescribes the basic allowances of equipment special to the several branches of the service, which added to Tables I, II, and III show the complete equipment for any particular branch. Table V prescribes the allowance furnished to posts, garrisons, and semi-permanent camps for use of troops stationed thereat, as distinguished from equipment taken by them either into the field or from station.

4. Equipment for R. O. T. C., National Guard, and special organizations.

Equipment for special organizations, such as R. O. T. C., Disciplinary Units, etc., will habitually be prescribed in Special Regulations or Tables of Equipment. Equipment for National Guard not in Federal service will be prescribed in special Tables of Equipment for the National Guard.

5. Location, storage, and supply of equipment.

a. The following equipment will be kept at the station of each active mobile unit of the Regular Army:

(1) Equipment A, Tables II, III, and IV, less animals, for war strength (war set for field and garrison service).

(2) Equipment A and B, Table I, and Equipment B, Tables II, III, and IV, for peace strength, except that at the stations of organized divisions maintained at war strength there will be kept a supply of Equipment A, Table I (war set for field and garrison service), including equipment issued to troops, sufficient to equip the divisions at war strength.

(3) Equipment not necessary for the proper supply of the strength actually present, will be stored at the station of regimental or separate battalion headquarters, provided that should storage facilities not exist at such station for any part of this equipment or other special reasons render storage there undesirable, it will be stored as directed by the department or corps area commander.

(4) Equipment A, Tables I, II, III, and IV, less animals, for war strength for inactive mobile units of the Regular Army will be held by the different supply branches responsible for its storage and issue at the nearest practicable point to its active associate organization.

This equipment for inactive mobile units will be kept complete at all times and in condition for immediate issue, segregated and tagged for the unit to which it pertains, and its active associate organization will be kept informed of its location.

Should an active associate organization responsible for an inactive unit and the inactive unit change station, chiefs of supply branches will cancel the allocations of equipment in storage for the inactive unit when it is practicable to set up new allocations in storage for such equipment nearer the new station of the active associate organization.

b. A reserve not greater than 5% of the equipment required for the total authorized strength may be kept on hand in the organization storeroom when necessary to prevent undue frequency of transactions with the property officer. This reserve may be increased by department and corps area commanders to not exceeding 10%.

c. Commanding officers will be issued the number of animals necessary for the actual requirements of their commands, but not to exceed allowances of Table IV unless such excess has been duly authorized by department and corps area commanders.

d. Individual equipment of Equipment A for strength present and organizational equipment of Equipment A for war strength are taken into the field on concentration in time of war unless otherwise directed by the War Department or by department and corps area commanders.

6. Enlisted man changing station.

When an enlisted man changes station from one post or camp or station of a relatively permanent nature to another of the same category, he will normally take with him those articles prescribed to be taken by him in Table I. When it seems probable from the transfer order that any of the articles of equipment will not be used by the soldier in his new station his immediate commander will, before the soldier's departure, cause such articles to be turned in to the local property officer or to the company reserve authorized in subparagraph b, paragraph 5.

7. Organization changing station.

When an organization changes station from one post or camp or station of a relatively permanent nature to another of the same category, it will normally take Equipments A and B, Tables I, II, III, and IV, Tables of Basic Allowances, unless otherwise ordered by the authority directing the movement.

8. Concentration and indefinite field service.

Individuals or organizations concentrating for or going on indefinite field service will take Equipment A. All other property will be turned in to the station property officer, except field desk in Equipment B, which will be stored for subsequent return to same organization.

9. Recruit equipment and clothing.

A recruit before joining his first station in time of peace will be issued the clothing and equipment specified in Note 3, Table I.

10. Additional allowances for field service.

A department commander, corps area commander, and commanding general of field forces may approve issues of articles for troops in the field not contained in Equipment A, all Tables, or in quantities not authorized herein, certifying that such articles or quantities are necessary for the efficient conduct of operations in field service. In time of peace report of such exceptional issue will be made to The Adjutant General of the Army, stating the circumstances which require the issue.

11. The war set of equipment and additional articles for drill purposes.

The set of equipment issued to all individual men of the permanent force, as indicated in Equipment A of these tables, will be known as the war set. The war set shall always be used on parades, ceremonies, and inspections where the command is required to present a smart appearance. In addition, there will be issued to enlisted men at posts and camps or other stations of a relatively permanent nature, two of certain articles, given in Equipment B of these tables, which will be used for ordinary drills and for exercises in the field other than in active campaign. The basic idea of the drill set is to obtain a maximum of service from certain articles of equipment, and at the same time preserve corresponding war set articles in proper condition for active service and for use on parades, ceremonies, and inspections. The additional articles of equipment for drill purposes will not be issued to troops in a tented camp, unless so directed by the department or corps area commander. The number of additional articles for drill purposes may be increased or decreased by commanding officers of posts, camps, and stations in accordance with the interests of the service, but will be limited to articles of equipment of webbing or cloth.

12. Replacement of articles for drill purposes.

Articles of equipment for drill purposes will be replaced ordinarily from the war set, when an article can no longer be restored by local renovation so as to be serviceable, and to present a smart appearance for further use in the war set. Reclaimed articles will be issued for drill purposes when articles are not available for transfer from the war set. New articles will not be issued for drill purposes. No articles of equipment in the drill set will be submitted for condemnation except when they are no longer serviceable for that purpose.

13. Replacement of war set equipment.

When an article for the war set is worn out and its replacement is necessary, it will be turned in to the property officer for replacement. If, in his opinion, the war-set article is not serviceable and presentable, and can not be renovated so as to correct this defect, a suitable article will be issued for the war set, and the old article transferred to articles for drill purposes where applicable or turned in to the property officer. If the property officer does not consider its replacement necessary, the article will be presented to a field officer of the

organization (the post commander, where no field officer is present in the post) for inspection, and action will be taken in accordance with the decision of the latter.

14. Type and model of equipment.

Where type or model of equipment is not specified in these tables, equipment and material will be issued according to types approved by the Secretary of War or pursuant to special instructions issued to the supply department concerned by the War Department.

15. Additional armament for coast-defense purposes.

There will be issued to coast defenses, in addition to equipment specified in Table IV, mobile light and heavy artillery, automatic rifles, machine guns, small-caliber trench mortars, etc., and related equipment, as are called for in approved defense projects.

16. Issue of clothing to commissioned officers.

In time of war, in the theater of active operations, officers may be issued such articles of clothing, not exceeding the amount prescribed for enlisted men in Equipment A, as military necessity demands. The wearing of enlisted men's outer garments (coats, breeches, and overcoats) is prohibited except where officers are serving with troops actively engaged with the enemy. See Note 1, Table I.

17. War set clothing.

The first outer uniform (including overcoat; shirt, o. d.; cap; hat; coat, service; breeches, service; leggings and shoes) and any other uniform clothing issued at any time for the war set for an enlisted man will be new. It will form a part of the war set of equipment. The first outer uniform (except overcoat) will be worn only when ordered into the field for war service, when on pass, ceremonies, inspection, on rest days, or when directed by the commanding officer.

18. Articles charged against the soldier.

If an article of clothing or equipment issued in kind to a soldier is lost, or found to be unserviceable or unrepresentable not through fair wear and tear, the value of the article, or the amount required to place it in a serviceable condition, will be charged against the soldier on the pay rolls in accordance with paragraph 686, Army Regulations.

19. Issue of clothing to enlisted men.

a. In time of peace when a clothing money allowance is prescribed by the War Department, enlisted men will be required to maintain at all times and in a serviceable condition from this money allowance the articles of clothing given in Equipment A and B, Table I, except those articles issued in kind by orders of the War Department. Articles of clothing issued to a soldier under a money clothing allowance, and worn out by fair wear and tear, will be inspected by a commissioned officer; if of salvage value they will be turned in to the supply officer, if not of salvage value they will be destroyed.

b. When under War Department orders clothing is issued to a soldier in kind, the following procedure in the replacement of clothing will be followed:

Articles of clothing worn out by fair wear and tear will be inspected by a commissioned officer; if not of salvage value they will be destroyed, if of salvage value they will be turned in to the supply officer. Serviceable articles will be issued to replace those destroyed or salvaged. The above procedure will be followed in the replacement of articles of clothing issued in kind to a soldier, but not forming part of clothing issued on a money clothing allowance. If articles of the war set of clothing are found to be unrepresentable, or un-serviceable through fair wear and tear and the soldier is already provided with a complete allowance of clothing suitable for wear at drill, but with no similar article suitable for wear for war set, a report will be made to the commanding officer of the post, camp, station, regiment, or separate battalion, who, after securing a written report from an officer of field rank, will cause such articles to be turned in to the supply department and order the issue of like articles suitable for the war set. If an article originally issued as part of the war set be found unrepresentable or un-serviceable, similar action will be taken.

20. Issue of reclaimed clothing and shoes to troops.

Reclaimed clothing and shoes may be issued when available, except for the war set; but in no case will reclaimed outer clothing be issued which is so worn or otherwise disfigured as to be unsightly, or which is dirty. If a question should arise as to the suitability of a reclaimed article for issue, it will be decided by the commanding officer named and in the manner prescribed in paragraph 19. The decision of the commanding officer will be final in cases arising under this paragraph.

21. Extra issue of reclaimed clothing.

In special cases, when the method of issue of clothing is in kind, commanding officers may direct the issue of additional articles of reclaimed clothing for wear on fatigue of an exceptional nature.

22. Issue of reclaimed clothing and shoes to prisoners.

Reclaimed clothing and shoes will be issued to prisoners, so far as supply permits.

23. Issue of summer and winter clothing.

Where conditions of service require it, the soldier will be issued clothing of both summer and winter weights. The date when the change from summer to winter clothing, or the reverse, is to be made, will be determined by the commanding officer or by the department or corps area commander for any locality where there are two or more posts, camps, or stations. The supply department concerned will be notified sufficiently in advance to enable a proper supply of the necessary clothing to be provided. In time of peace clothing for summer or winter wear once issued to a soldier will ordinarily be left in his possession, except for purposes of storage, until he terminates his connection with the service.

24. Expendable articles of equipment.

Equipment of the following classes is expendable:

a. Articles which are "consumed," as distinguished from "worn," by proper use in the military service, such as foot powder, oil, paint, fuel, forage, etc.

b. Articles, such as spare or repair parts and components, to be used to complete or repair other articles, and thereby losing their identity. They will be issued in such quantities as the commanding officer approves as necessary.

c. Articles authorized by the War Department to be dropped as per a stated allowance for a given interval of time, such as tableware, etc.

d. Articles such as are attached to and become a permanent part of a building, such as lighting fixtures, kitchen ranges, water tanks, furnaces, etc.

25. *Posts and camps of a permanent nature.*

This circular, under column B, prescribes that certain equipment be issued "additional for use at posts and camps." Department and corps area commanders are charged with the responsibility for determining what camps within their jurisdiction are to be considered permanent camps for the purpose of issuing equipment shown in column B.

26. *Equipment for Detached Enlisted Men's List.*

The equipment of enlisted men on the Detached Enlisted Men's List, not attached to or forming a part of a tactical organization, will be the same as that prescribed in Tables I, II, III, except as to armament and equipment pertaining to armament. Variation in equipment and armament may be made by the commanding officer under whom such men are serving in accordance with the requirements of service within allowances prescribed in these tables.

27. *Clothing and equipment for warrant officers.*

The clothing and equipment of warrant officers is prescribed in Note 1, Table I, and for warrant officers of the Army Mine Planter Service, C. A. C., in Note 2, Table I.

28. *Service schools.*

Unless prescribed in Tables of Equipment, the allowances of equipment for service school detachments will be as prescribed in Basic Tables, provided that commandants may authorize the issue of such articles of equipment in Equipment A and B, Tables I, II, III, and IV, as are necessary for the requirements of the service.

29. *Supply branches responsible for storage and issue.*

The supply branch responsible for the storage and issue of each article is shown by symbol at the left of each table. These symbols are as follows: (Q) Quartermaster, (O) Ordnance, (S) Signal Corps, (E) Engineers, (M) Medical Department, (C) Chemical Warfare, (A) Air Service, (C. A. C.) Coast Artillery Corps.

30. *Abbreviations.*

C. O.=Commanding officer of post, camp, or station, or separate unit commander in the field; O=Officer; W. O.=Warrant officer; N. C. O.=noncommissioned officer; E. M.=Enlisted man; E. M., M. P. S.=Enlisted man, Mine Planter Service.

31. *Suggestions for improvement.*

Suggestions for improvement or other change in these tables, or in the equipment listed therein, are desired and should be made through channels to The Adjutant General of the Army.

TABLE I.

The following table prescribes the basic allowances of personal equipment and clothing issued to the individual enlisted man to whom all figures refer unless otherwise stated. The clothing and equipment of officers and warrant officers is given in Notes 1 and 2, this table.

The individual soldier changing station from a permanent camp or post to another will normally take with him all articles of Equipment A and B, Table I, *except those marked with an asterisk*, unless otherwise directed by department or corps area commanders.

Branch.	Articles of clothing.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Alaskan clothing.....			See Note 26.
Q	Aprons, white.....		*5	For cooks and bakers.
Q	Belt, waist.....	1	1	
Q	Boots, rubber, hip, pair.....	1		For chauffeurs, motorcyclists, teamsters and wagoners, and enlisted men, military police service, 1 per squad for remount service. Boots, rubber, half hip, may be issued in lieu until supply is exhausted.
Q	Boots, rubber, knee, pair.....		*1	Not exceeding 25 pairs per 100 men, when directed by commanding officer.
Q	Brassards (all kinds).....			As specified in Special Regulations No. 4, War Department.
Q	Breeches, service, cotton.....	*1	b 3	a If transportation permits, extra pair carried for field service. b At soldier's option, one pair of trousers may be substituted for one pair of breeches.
Q	Breeches, service, wool.....	1	b 1	b At soldier's option, one pair trousers may be substituted for one pair of breeches.
Q	Breeches, kersey lined.....	1		For motorcyclists only.
Q	Caps, service.....		b 1	b Not issued in Philippine Islands, Panama, Porto Rico, or tropical stations.
Q	Caps, winter.....	1		One per motor cyclist, wagoner, chauffeur, teamster, and enlisted man on guard duty. When directed by commanding officer in severe climates.
Q	Caps, white, cook's.....		*4	For cooks and bakers.
Q	Chevrons, and other sleeve insignia.....			One for each outer garment when authorized to be worn in Uniform Regulations.
Q	Coats, fatigue.....	(a)	b 2	a 2 per laborer in Quartermaster Corps, 1 per chauffeur, 1 per enlisted man in motorized and railroad artillery, enlisted men serving fixed armament, and enlisted men, military police service. b 1 extra for cooks and bakers, and enlisted men in remount depots; not exceeding 2 for any enlisted man, except cooks and enlisted men in remount depots.
Q	Coats, Mackinaw.....	*1		To chauffeurs, motorcyclists, and Infantry tank units.
Q	Coats, oilskin.....	*1		To military police, chauffeurs, motorcyclists, and enlisted men, military police service, when necessary.
Q	Coats, service, cotton.....	1	2	
Q	Coats, service, wool.....	1	1	
Q	Collars, stock, white.....		12	
Q	Cords, hat.....	1	1	
Q	Cravat or black tie.....	1	1	
Q	Drawers, cotton.....	2	2	6 extra for cooks and bakers, and firemen and oilers, military police service. 2 extra for troops serving in Philippine Islands, Hawaii, Panama, Porto Rico, Fourth and Eighth Corps areas, and tropical climates.
Q	Drawers, wool.....	2	b 1	b 1 extra pair for cooks and bakers, and firemen and oilers, military police service.
Q	Gloves, heavy, leather.....	1		When authorized by commanding officer. Gloves, cotton flannel, leather palm, unlined, may be issued until supply is exhausted.

TABLE I—Continued.

Branch.	Articles of clothing.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Gloves, riding, pair.....	1		To each mounted enlisted man, when directed by commanding officer.
Q	Gloves, woolen, olive drab.....	1		When authorized by commanding officer. Gloves, jersey knit, issued in lieu until supply is exhausted.
Q	Goggles, pair.....	*1		To chauffeurs; motorcycleists, and tank drivers.
Q	Handkerchiefs.....	2	4	
Q	Hats, oilskin.....	*1		To military police, motorcycleists, chauffeurs and enlisted men, military police service when necessary.
Q	Hat, service, with tying cord.....	1	(b)	b 1 extra issued in Philippine Islands, Panama, Porto Rico, or tropical stations.
Q	Hats, fatigue.....	*1	b1	a 1 per chauffeur and enlisted man in railroad and motorized artillery; 1 per quartermaster corps laborer, enlisted men serving fixed armament, and enlisted men, military police service. b When authorized by commanding officer, not exceeding 2 for any enlisted man.
Q	Helmets, woolen.....	*1		For motorcycleists and chauffeurs serving in extremely cold climates. When authorized by commanding officer, toque and muffler or cap, winter, may be issued in lieu.
Q	Hobnails.....	(a)	(b)	a Issued for purpose of hobnailing shoes in Equipment B. b 1-pound per dismounted man for extra shoes taken on extended field service.
Q	Jerkin, leather.....	*1		To each motorcycleist, chauffeur and wagoner, and enlisted man on similar duty when authorized by commanding officer. To each enlisted man in Infantry tank units.
Q	Laces, leggin, extra pair.....	1	1	For canvas and leather leggins.
Q	Laces, breeches, extra pair.....	1	1	
Q	Laces, shoe, extra pair.....	1	1	
Q	Leggins, mounted, pair.....	1	1	Per mounted enlisted man and enlisted men in mounted organizations.
Q	Leggins, spiral woolen, pair.....		1	For dismounted men including motorized organizations except Air Service.
Q	Leggins, dismounted, canvas.....	1	1	For Air Service.
Q	Mittens, cotton flannel or leather.....	*1		When authorized by commanding officer.
Q	Nurses' clothing.....	(a)	(b)	ab See Note 37.
Q	Ornaments, collar, bronze, sets.....	(a)	(b)	ab 1 per coat, cotton or woolen, but not exceeding 3.
Q	Ornaments, cap, bronze.....		(b)	b 1 per cap; not issued in Philippine Islands, Panama, or Porto Rico.
Q	Overcoat, olive drab.....	1		When authorized by commanding officer. See Note 33 for issue in cold regions.
Q	Overcoat, blanket-lined.....		b *1	b When authorized by commanding officer, for teamsters, chauffeurs, guards, etc., in cold climates.
Q	Overshoes, arctic, pair.....	*1		For troops serving above latitude 37°, when ordered by commanding officer. For troops below 37° when authorized by corps area commanders.
Q	Raincoat, dismounted.....	1		Each dismounted enlisted man.
Q	Raincoat, mounted.....	1		Each enlisted man of mounted units, and mounted enlisted men.
Q	Shirts, cotton, olive drab.....		2	Issue optional with department and corps area commanders.
Q	Shirts, flannel, olive drab.....	1	1	
Q	Shoes, pair.....	a 1	b 2	a To be ready for field service, ordinarily for wear on pass, inspection, etc. When troops are ordered on unlimited field service or concentrating for same, this pair will be dubbed for all troops and hobnailed for dismounted troops. b 1 pair to be dubbed for all troops, and hobnailed for dismounted troops when service conditions require. This pair may be carried as an extra pair when on indefinite field service or concentrating for same, when directed by commanding officer.

TABLE I—Continued.

Branch.	Articles of clothing.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Shoes, gymnasium, pair.....		1	b 4 additional for troops serving in Philippine Islands, Panama, Hawaii, Porto Rico, fourth and eighth corps areas and hot climates.
Q	Stockings, cotton, pair.....		b 8	
Q	Stockings, woolen, pair.....	2	4	Light or heavy according to season. Until supply is exhausted.
Q	Suspenders.....		1	
Q	Toilet set.....	1		With exception of hand soap, articles of toilet set will be issued to each enlisted man only once during an enlistment.
	1 brush, hair. 1 brush, shaving. 1 brush, tooth. 1 comb. 1 mirror. 1 razor, safety. 1 soap, hand, cake.			
Q	Towels.....	1	b 2	Old type razors issued until exhausted. Allowance of soap, 1/10 ounce per day. b 4 extra for cooks and bakers, and oilers and firemen, military police service.
Q	Trousers, fatigue.....	(a)	b 2	
				a 2 per laborer, Quartermaster Corps; 1 per chauffeur; 1 per enlisted man, motorized and railroad artillery; 1 per enlisted man serving fixed armament, and enlisted man, military police service. b 2 extra for cooks and bakers; 1 extra for enlisted men at remount depots. Not exceeding 2 in all per enlisted man excepting cooks and members of remount depots.
Q	Trousers, cotton.....		b 1	
Q	Trousers, service, wool.....		b 1	Issued in lieu of breeches. (See remarks on "breeches.") b Issued in lieu of breeches. (See remarks on "breeches.")
Q	Trousers, oilskin.....	* 1		
Q	Undershirts, cotton.....	2	b 2	To military police, chauffeurs, motoreyclists, and enlisted men, military police service. b 6 extra for cooks and bakers, and firemen and oilers, military police service. 2 extra for troops serving in Philippine Islands, Panama, Hawaii, Porto Rico, Fourth and Eighth Corps Areas, and tropical climates.
Q	Undershirts, woolen.....	2	b 1	
				b 1 extra for cooks and bakers, and firemen and oilers, military police service.

ARTICLES OF EQUIPMENT.

Q	Bags, barrack.....		2	1 may be taken into the field when authorized by commanding officer. When authorized by commanding officer. a To each enlisted man armed with pistol only. To each enlisted man of Dental and Veterinary Service, Medical Department, below grade of technical sergeant. To all noncommissioned officers, Medical Department, above grade of staff sergeant. To each postal agent. Belt with saber ring issued in lieu until supply is exhausted.
Q	Bar, mosquito, single.....	* 1		
Q	Belt, cartridge, for pistol.....	* 1	b* 1	b For drill set. a To each enlisted man armed with rifle only, and to each infantryman armed with both rifle and pistol.
Q	Belt, cartridge, cal. .30, dismounted.....	a 1	b* 1	
Q	Belt, cartridge, cal. .30, mounted.....	a 1	b* 1	b For drill set. a To each mounted enlisted man armed with both pistol and rifle, except infantry and auto rifleman.
Q	Blankets, olive drab.....	a 1	b 1	
				b For drill set. a Additional blankets may be taken into the field when directed by commanding officer and transportation permits. b Additional blankets may be authorized by commanding officer in cold climates. In tropical or similar climates light weight blankets will be issued.

TABLE I—Continued.

Branch.	Articles of equipment.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Canteen.....	1		To each dismounted enlisted man. When directed by commanding officer. Blankets may be issued in lieu until surplus blankets are exhausted.
Q	Carrier, pack.....	1		
Q	Comforter.....		* 1	
Q	Condiment can.....	1		To each dismounted enlisted man. Issued until supply is exhausted.
Q	Cover, canteen, dismounted.....	a 1	b* 1	a To each dismounted enlisted man. b For drill set.
Q	Cover, canteen, mounted.....	a 1	b* 1	a To each mounted enlisted man, including motorized organizations. b For drill set.
Q	Cup.....	1		Allowance as directed by commanding officer, normally 2 oz. per month. May be carried in bulk in organization baggage.
Q	Dubbin, box.....	1		
M	First-aid packet.....	1	b* 1	b For drill set.
M	Foot powder, box.....	2		Per dismounted squad. When directed by commanding officer for mounted units.
Q	Fork.....	1		Each enlisted man dismounted.
Q	Haversacks, Infantry.....	1		
Q	Headnet, mosquito.....	* 1		When directed by commanding officer.
Q	Knife.....	1		a 3 per finance unit.
Q	Locker, trunk.....	(a)	* 1	
Q	Meat can.....	1		b For drill set.
Q	Pin, tent, shelter.....	5		
Q	Pole, tent, shelter.....	1		b For drill set.
Q	Pouches, for first-aid packet.....	1	b* 1	
Q	Spoon.....	1		
Q	Tags, identification.....	2		
Q	Tape for identification tags, yard.....	1		
Q	Tent, shelter, half.....	1		

Notes pertaining to Table I.

NOTE 1.—Individual equipment for officers and warrant officers for field service.

1. *Baggage allowance.*—The baggage to be transported at public expense will not exceed the following gross weights:

Rank.	Temporary change of station.	Field service.	Rank.	Temporary change of station.	Field service.
	<i>Pounds.</i>	<i>Pounds.</i>		<i>Pounds.</i>	<i>Pounds.</i>
General.....	2,000	300	Second lieutenant.....	200	75
Lieutenant general.....	1,500	300	Warrant officer, field clerk, Quartermaster Corps, Army field clerk.....	200	75
Major general.....	1,000	300	Nurses ¹		
Brigadier general.....	800	200	Civilian employees of the classified service transferred for the good of the service.....	200	75
Colonel.....	600	150			
Lieutenant colonel and major.....	400	125			
Captain.....	300	75			
First lieutenant and contract surgeon.....	200	75			

¹ Allowance according to simulated rank.

The allowances may, for field service, be increased or reduced pro rata by commanding officers, whenever climatic or other compelling reasons make it necessary. The allowances under temporary change of station include allowances to and from maneuver, concentration, and embarkation camps. The allowances of baggage for field service are the maximum allowances that may be carried in the field trains.

2. The baggage of officers and warrant officers in the field will be packed in boxes or bundles not to exceed dimensions and weights, as follows:

a. Box, 32 inches by 19 inches by 13 inches over all. Any suitable equivalent, such as the army-trunk locker, a telescope or leather trunk, not exceeding the prescribed dimensions and weight, is authorized.

b. A canvas bedding roll, the bundle not to exceed 40 inches in length and 24 inches in diameter. The weight when packed not to exceed 60 pounds.

3. In time of war in the theater of operations, officers and warrant officers may be issued such articles of clothing, not exceeding the amount prescribed in Equipment A, Table I, as military necessity demands. The wearing of enlisted men's outer garments (coats, breeches, overcoats) is prohibited except where officers or warrant officers are serving with troops actively engaged with the enemy.

4. The equipment of warrant officers of the Mine Planter Service is given in Note 2, Table II.

5. With reference to the following tables:

a. Articles marked with an asterisk are *issued* to all officers and warrant officers, unless otherwise indicated under remarks. Articles not so marked must be procured by the individual.

b. In columns 1 and 2, are indicated articles of equipment prescribed for all officers and warrant officers below the grade of general officer, subject to the exceptions given in paragraph 7.

c. Articles listed in column 3 are not prescribed as a necessary part of an officer's or warrant officer's equipment. They are listed for the purpose of suggesting useful articles which experience has demonstrated as desirable.

6. With reference to the method of carrying articles of equipment:

a. Articles in column 1—carried on the person.

b. Articles in column 2—carried in the field train.

c. Articles in column 3 may be carried in field train, provided the authorized weight is not exceeded.

d. Articles listed in columns 2 and 3 may be carried on the person when character of service necessitates. Commanding officers will issue necessary instructions to insure a uniform appearance at formations.

7. Officers and warrant officers, whose assignments and duties do not contemplate eventual field service or whose duties in the field do not require it, will not be issued or required to procure the complete equipment in columns 1 and 2, but only such articles as in the opinion of their immediate commanding officers are necessary for the proper performance of their duty.

8. The expression "mounted officer" in this table refers only to those whose duties in the field will require them to be mounted, and is therefore more restricted than the definition given in paragraph 1272, Army Regulations.

9. The field equipment of general officers is optional with each general officer. It must not exceed in weight the limits prescribed in paragraph 1.

Articles.	Prescribed for all officers and warrant officers (except general officers).		Optional articles.	Remarks.
	Carried on the person.	Carried in the field train.		
	1	2	3	
*Adhesive plaster, 2.0 spool		1		Dismounted combatant officer and warrant officer only.
*Alaskan clothing				See Note No. 36, Table III, and Note A, this table.
Bag, musette	1			Carried on person by dismounted officer and warrant officer; by mounted officer and warrant officer when nature of service necessitates same. Issued in time of war only. Haversack may be substituted in case of warrant officer.
*Bar, mosquito, single		1		See Note A, this table.
Basin, folding		1		
Bedding, roll		1		Issued in time of war only.
Belt, waist	1			
*Belt, web, medical officers', complete with contents.	1			Per officer, Medical Corps, below rank of lieutenant colonel, assigned to combat troops. See Note C, this table.
*Belt, web, pistol	1			Per warrant officer armed with pistol for field service.
Belt, leather (with keepers and saber attachments).	1			Per all warrant officers for garrison service.
Belt, Sam Browne	1			Per all officers for wear at all times except officers, Medical Corps, below rank of lieutenant colonel, for field service.
Blanket, olive drab, woolen		2	1	A comforter or light sleeping bag or blanket of other quality may be carried in bedding roll in lieu of blankets. Blankets issued in time of war only.
*Book, field message with pencil	1			Issued to officers and warrant officers of combatant troops only.
Book, note	1			
Boots, rubber, pair			1	
Breeches, service	1	1		Woolen or cotton according to service conditions.
Brush, clothes			1	
Brush, hair			1	
Brush, shaving		1		
Brush, shoe			1	
Brush, tooth		1		
Bucket, water, folding		1		
*Canteen	1			Mounted or dismounted.
Cap, winter	1			See Note A, this table.
*Cartridges, pistol, ball	21			Per officers and warrant officers armed with pistol.
*Case, metal, dental officer	1			Per officers, Dental Corps, below rank of lieutenant colonel assigned to combat troops. (See Note C.)
Cases, pillow			2	
Clothing roll			1	Any suitable container for hand baggage may be used in lieu thereof.
Coat, service	1		1	Woolen or cotton according to service conditions.
Comb		1		
Cord, hat	1			
Compass, luminous dial, prismatic, or watch.	1			Per combatant officers and warrant officers, except chaplains, and officers, Medical Department, not assigned to combat troops.
*Cot			1	Issued to officers and warrant officers for camp service when enlisted men are so supplied. May be carried in field provided authorized weight is not exceeded.
*Cover, canteen, dismounted	1			Per dismounted officer.
*Cover, canteen, mounted	1			Per mounted officer.
Cravat, black			1	

Articles.	Prescribed for all officers and warrant officers (except general officers).		Optional articles.	Remarks.
	Carried on the person.	Carried in the field train.		
*Cup.....	1			
Dispatch case.....			1	
Drawers.....	1	2	2	
*Dubbin, box.....		1		
Field glasses.....	1			Per combatant officer and warrant officer. (See paragraph 7.) Issued in time of war only. Field glasses must be equivalent of Type EE in power, definition and field.
*First aid packet.....	1			
Flash lights, complete with battery and bulb.....	1			Issued in time of war only.
*Foot powder, box.....		1		Per dismantled combatant officer and warrant officer only.
*Fork.....	1			
Fountain pen.....			1	
*Gas mask.....	1			See Note A, this table.
Gloves, or gauntlets, riding.....	1			See Note B, this table.
Gloves, woolen, olive drab.....	1			See Note A, this table.
Goggles, pair.....	1	5		
Handkerchiefs.....	1			
Hat, service.....	1			
*Haversack.....	1			May be issued to warrant officer in place of musette bag when directed by commanding officer.
*Head net, mosquito.....		1		See Note A, this table.
*Helmet, steel.....	1			See Note A, this table.
*Holster, pistol.....	1			Per pistol.
Housewife.....			1	
Keepers, leather.....	(c)			As required for officer and warrant officer equipped with leather belt.
Knife, pocket.....			1	
*Knife.....	1			
Knot, saber.....	1			Per saber.
Laces, shoe, extra pair.....		2		Per pair of shoes.
Lantern, candle, folding.....			1	
*Lanyard, pistol.....	1			Per cavalry mounted officer and warrant officer, armed with pistol.
*Lariat, with strap.....	2			Per cavalry mounted officer and warrant officer, one unless otherwise directed by commanding officer.
Leggins, leather, pair.....	1		1	Per officer and warrant officer. Leggins, spiral, woolen, or field boots may be worn in the field by all officers and warrant officers, and boots, riding, by field and mounted officers and warrant officers. Field boots may also be worn in inclement weather.
Locker, trunk.....			1	
*Magazines, extra, for automatic pistol.....	2			Per automatic pistol.
*Meat can.....	1			
Mirror.....		1		
Mittens, cotton flannel, pair.....	1			See Note B, this table.
Ornaments, uniform.....	1			As required by uniform regulations.
Overcoat, olive drab.....	1			See Note B, this table.
Overshoes, arctic, pair.....	1			See Note B, this table.
Pajamas, pair.....			2	
Pillow.....			1	
*Pistol, automatic.....	1			Per combatant officer and warrant officer. See paragraph 7.
*Pocket, magazine, web double.....	1			Per warrant officer, equipped with belt, web, pistol.
Pocket, magazine, leather, double.....	1			Per officer and warrant officer, equipped with Sam Browns belt and belt leather.
*Pouch, first-aid, packet.....	1			See paragraph 7.
Raincoat.....		1		Per officer and warrant officer.
Rations, reserve.....	2			See Note B, this table.
Razor.....		1		
*Riding equipment.....	1			See Note D, this table.

Articles.	Prescribed for all officers and warrant officers (except general officers).		Optional articles.	Remarks.
	Carried on the person	Carried in the field train.		
	1	2	3	
Saber and scabbard, officers'	1			Per all officers and warrant officers for garrison service.
*Saber and scabbard, cavalry	1			For all cavalry officers on mounted service in the field.
Shirt, flannel, olive drab	1	1	1	Riding boots may be worn by field and mounted officers and warrant officers. Field boots may be worn by all officers and warrant officers in the field and in inclement weather.
Shoes	1		1	
Slides, leather	(a)			^a As required for officers and warrant officers equipped with leather belt.
Slippers or gymnasium shoes, pair			1	
Soap, shaving and hand		1		
*Spoon, mess	1			
Spurs and straps, pair	1			Per officers and warrant officers wearing riding boots.
Stockings, wool, light or heavy	1	5		
*Suspenders, web, for pistol belt	1			Per warrant officers equipped with pistol belt, web.
*Tags, identification, with tape	2			
*Tent, shelter, half, complete with poles and pins		2		Combatant company officers. Other officers and warrant officers when directed by commanding officer.
Towels		2	2	
Undershirts	1	3		
*Wallet, veterinary officers'	1			Per officer, Veterinary Corps, below rank of lieutenant colonel, assigned to combat troops. (See Note C.)
Watch	1			
Whistle:				
Battalion commander	1			Per combatant field officer.
Company commander	1			Per company commander of combatant troops.
Thunderer	1			Per company lieutenant with combatant troops.

Notes pertaining to officers' equipment.

NOTE A.—The following articles will be required when necessary and ordered by the commanding officer:

- | | | |
|-------------------|---------------------|----------------|
| Alaskan clothing. | Gas mask. | Helmet, steel. |
| Bar, mosquito. | Goggles, pair. | |
| Cap, winter. | Head net, mosquito. | |

* * * * *

NOTE B.—When ordered on field service the commanding officer will indicate whether or not the following articles will be required, and will direct where same will be carried:

- | | | |
|-----------------------------|--------------------------|-------------------|
| Gloves, woolen, olive drab. | Overcoat. | Rations, reserve. |
| Mittens, canton flannel. | Overshoes, arctic, pair. | Horse cover. |

* * * * *

NOTE C.—Special equipment, officers', Medical Department.

MEDICAL CORPS.

Special equipment, each officer, Medical Corps, below the rank of lieutenant colonel.

- | | |
|---|---|
| <p>1 belt, web, medical officers', complete with contents:</p> <ul style="list-style-type: none"> • 1 case, instrument (par. 919, MMD). • 1 case, medicine (par. 920, MMD). 1 book, emergency medical tags. 1 flask, empty, for morphine solution. 1 pencil, indelible, with metal cap (Q). 1 pencil, lead, with metal cap (Q). | <p>1 belt, web, medical officers', complete with contents—Continued.</p> <ul style="list-style-type: none"> 1 dozen pins, safety, medium size. 1 syringe, hypodermic, complete (par. 956, MMD). 12 needles for hypodermic syringe. 1 thermometer, clinical. |
|---|---|

* Any medical officer may make such substitutions in the contents of his own case as he may desire.

DENTAL CORPS.

Special equipment, each officer, Dental Corps, below the rank of lieutenant colonel.

- | | |
|--|--|
| <p>1 case, metal, dental officers', complete with contents (being developed by the Medical Department).</p> <ul style="list-style-type: none"> 1 bandage, muslin, 3 in. by 5 yds. 3 bottles, medicine, $\frac{1}{2}$-oz., square with g. s., No. 1, SSW. 2 burs, No. 1, for H. P. No. 7, round. 2 burs, No. 2, for H. P. No. 7, round. 2 burs, No. 6, for H. P. No. 7, round. 1 chisel, L. H., No. 48. 3 drills, No. 100, for H. P. No. 7. 2 elevators, Knott type, detachable metal handle, right and left. 1 engine bit holder, revolving head, SSW. 1 excavator, spoon, steel handle, No. 141. 1 excavator, spoon, steel handle, No. 142. | <p>1 case, metal, dental officers', complete with contents (being developed by the Medical Department)—Continued.</p> <ul style="list-style-type: none"> 1 explorer, long handle, No. 5, SSW. 1 forceps, tooth extracting, No. 150. 1 forceps, tooth extracting, No. 151. 1 lancet, exact No. 1, curved, metal handle. 1 mirror, mouth, No. 52, plain, metal handle, SSW. 1 pliers, dressing, No. 2. 1 syringe, hypodermic, Fischer type, complete. 1 tube, procaine-supraena tablets, 20 in tube. 1 vial, glass, with screw cap, for cotton. |
|--|--|

VETERINARY CORPS.

Special equipment, each officer, Veterinary Corps, below the rank of lieutenant colonel.

- | | |
|--|--|
| <p>1 wallet, veterinary officers', complete with contents.</p> <ul style="list-style-type: none"> 1 book, note, manfolding, 4 by 6 inches, binder for. 1 book, note, manfolding, 4 by 6 inches, filler for. 1 pencil, indelible, with metal cap (Q). 1 pencil, lead, with metal cap (Q). 1 case, pocket, veterinary, with contents as follows: <ul style="list-style-type: none"> 1 caustic holder. 1 curette. 2 forceps, hemostatic. 1 forceps, hemostatic, Hopkins type. 1 gouge, hoof. 1 knife, folding, with 1 probe-pointed bistuory and 1 scalpel. 1 knife, folding, with 1 sharp-pointed bistuory and 1 scalpel. 1 package needles, surgical, 6 in package. | <p>1 wallet, veterinary officers', complete with contents—Continued.</p> <ul style="list-style-type: none"> 1 case, pocket, veterinary, with contents as follows—Continued. <ul style="list-style-type: none"> 1 probe, 10 inches. 1 pair, scissors, dressing. 1 card, sutures, silk, braided, No. 14. 1 case, hypodermic tablets, with contents as follows: <ul style="list-style-type: none"> 9 vials filled and 2 empty as follows: <ul style="list-style-type: none"> 3 arecoline, $\frac{1}{2}$ grain. 1 glonoin, $\frac{1}{16}$ grain. 5 strychnine, $\frac{1}{2}$ grain. 2 vials, 2 dram, empty. 2 rubber stoppers to fit. 1 syringe, hypodermic, 10 c. c., with case and extra tube for needles. |
|--|--|

NOTE D.—1. Mounts will be issued to all officers and warrant officers who do not own their own mounts, and whose duties require them to be mounted as certified to by the post commander and approved by the department or corps area commander.

2. Officers and warrant officers whose duties require them to be mounted, as certified to by the post commander and approved by the department or corps area commander, may be issued the following articles of riding equipment:

- | | |
|--|---|
| <ul style="list-style-type: none"> 1 saddle (either officer's type, model 1917, or the French officer's field type). 1 bridle (either the U. S. model 1919, or the French officer's field type). 1 saber carrier. 1 cantele bag. 2 pommel pockets. 1 saddle cloth with insignia. 1 saddle blanket—to be used in the field with all types of saddles. 1 feed bag—for each authorized horse. | <ul style="list-style-type: none"> 1 grain bag—for each authorized horse. 1 halter—for each authorized horse. 1 horse cover—for each authorized horse. 1 surcingle. 1 net, hay, when directed by commanding officer. 1 currycomb. 1 horse brush. 2 extra horseshoes with nails—for each authorized horse. |
|--|---|

3. When any officer is relieved from an assignment which required mounted duty, his privilege of using mount, saddle, bridle, saber carrier, cantele bag, pommel pockets, and saddle cloth ceases, and such articles will be immediately turned in to the nearest supply officer. The remaining articles listed above may be retained if the officer retains ownership to private mounts whose continued maintenance by the Government is authorized by regulations. Such remaining articles will be turned in or accounted for when the mount or mounts are disposed of.

4. McClellan and Whitman saddles are not authorized for use on duty if model 1917 or French officer's field type saddle is available for issue. Training saddles will be issued under special rules; they will not be used at formations of troops.

5. Officers are authorized to use any private bridle of type issued by the War Department. When such become unserviceable they must be replaced by a bridle of the types enumerated in paragraph 2.

NOTE 2.—Clothing and equipment issued to warrant officers, Army Mine Planter Service, Coast Artillery Corps.

Branch.	Articles of clothing and equipment.	Amount.	Remarks and basis of issue.
ARTICLES OF CLOTHING.			
Q	Belt, waist.....	1	
Q	Boots, hip, pair.....	1	
Q	Breeches, service, cotton.....	4	1 pair of trousers may be substituted for 1 pair of breeches.
Q	Breeches, service, wool.....	2	1 pair of trousers may be substituted for 1 pair of breeches.
Q	Caps, service.....	1	Not issued in Philippine Islands, Panama, Porto Rico and tropical stations. 1 additional cap may be issued in lieu of 1 hat when directed by commanding officer.
Q	Caps, winter.....	1	When directed by commanding officer in severe climates.
Q	Coats, fatigue.....	2	2 extra for chief and asst. engineers.
Q	Coats, mackinaw.....	1	When directed by commanding officer.
Q	Coats, oilskin.....	1	
Q	Coats, service, cotton.....	3	
Q	Coats, service, wool.....	2	
Q	Collars, stock, white.....	12	

Branch.	Articles of clothing and equipment.	Amount.	Remarks and basis of issue.
	ARTICLES OF CLOTHING—continued.		
○○○	Cords, hat.....	2	
○○○	Cravat or black tie.....	1	
○○○	Drawers, cotton.....	4	6 extra for chief and assistant engineers; 2 additional in tropics, and Fourth and Eighth Corps areas.
○○○	Drawers, wool.....	3	2 extra per chief and asst. engineers.
○○○	Gloves, heavy leather.....	1	When directed by commanding officer.
○○○	Gloves, woolen, olive drab.....	2	When directed by commanding officer.
○○○	Handkerchiefs.....	6	
○○○	Hats, oilskin.....	1	
○○○	Hats, service.....	2	See remarks under "Caps, service."
○○○	Hats, fatigue.....	1	1 extra for chief and asst. engineers.
○○○	Helmets, woolen.....	1	When directed by commanding officer in severe climates. Caps, winter, may be issued in lieu.
○	Jerkin, leather.....	1	When directed by commanding officer in severe climates.
○○○	Laces, breeches, extra pair.....	1	
○○○	Laces, shoe, extra pair.....	1	
○○○	Leggins, leather, officers'.....	1	
○○○	Ornaments, collar, bronze, sets.....	1	Per coat, cotton or woolen, but not exceeding 1.
○○○	Ornaments, cap, bronze.....	1	Per cap.
○○○	Overcoat, olive drab.....	1	When directed by commanding officer. Mackinaw may be issued.
○	Overcoat, blanket-lined.....	1	When directed by commanding officer in severe climates. Not issued to individual as part of his clothing.
○○	Raincoat, dismounted.....	1	
○○○	Shirts, cotton, olive drab.....	2	When directed by commanding officer.
○○○	Shirts, flannel, olive drab.....	2	
○○○	Shoes, russet, pair.....	2	
○○○	Stockings, cotton, pair.....	8	
○	Stockings, wool, pair.....	6	4 extra in tropics and Fourth and Eighth Corps areas, and to engineer warrant officers.
○	Trousers, cotton.....	1	Light or heavy; 2 extra to engineer warrant officers.
○○○	Trousers, fatigue.....	2	Issued in lieu of breeches. (See remarks on "Breeches.")
○○○	Trousers, oilskin.....	1	2 extra for chief and assistant engineers.
○○○	Trousers, service, wool.....	1	Issued in lieu of breeches. (See remarks on "Breeches.")
○	Undershirts, cotton.....	4	6 extra for chief and assistant engineers; 2 more in tropics and Fourth and Eighth Corps areas.
○	Undershirts, woolen.....	2	2 extra for chief and assistant engineers.
	ARTICLES OF EQUIPMENT.		
○	Bags, barrack.....	1	
○○	Blankets, olive drab.....	1	Additional blankets may be authorized by commanding officer in cold climates. In tropical or similar climates light-weight blankets will be issued.
○	Comforter.....	1	When directed by commanding officer. Blankets may be issued in lieu until surplus blankets are exhausted.
○○	Locker, trunk.....	1	
○○	Tags, identification.....	2	
○○	Tape for identification tags, yard.....	1	
	(See Table II.)		
○○	Belts, leather.....	1	
○○	Cartridges, pistol, ball, cal. .45.....	21	
○○	Glasses, field, type EE.....	1	To each deck warrant officer.
○○	Holsters, pistol.....	1	
○○	Keypers, leather.....	1	
○○	Magazine, extra for pistol.....	2	
○○	Pistol, automatic, cal. .45.....	1	
○○	Pocket magazine, tomcat, double.....	1	

NOTE 3.—Recruit clothing and equipment.

In time of peace the following articles of clothing and equipment will be issued to recruits before joining their first station, unless otherwise directed by the War Department or required by department or corps area commanders to which recruits are assigned. Recruits for overseas service will be issued special equipment for overseas service at the last depot according to arm of service assigned to, except that no armament will be issued unless directed. If a clothing money allowance is prescribed by the War Department, the appropriate articles of clothing will be charged against this allowance. In time of war recruits will be issued the clothing prescribed in Equipment A, Table I, and the appropriate individual equipment for the arm of service to which they are assigned.

- 1 bag, barrack.
- 1 belt, waist.
- 1 belt, cartridge, cal. .30, mounted or dismantled.¹
- 1 blanket, olive drab; 2 issued when necessary.
- 2 breeches, service, cotton.*
- 1 breeches, service, woolen.*
- 1 canteen, M.1910.
- 1 canteen cover, M.1910, mounted or dismantled.¹
- Chevrons and other sleeve insignia (where necessary).
- 1 coat, fatigue.
(Issued only when necessary at depots or on long journey. Not issued to recruits sent to units in the field.)
- 1 coat, service, cotton.*
- 1 coat, service, woolen.*
- 1 cord, hat.¹
- 1 cup, M.1910
- 2 drawers, cotton.*
- 2 drawers, woolen.*
- 1 First-aid packet and pouch.
- 1 fork, M.1910.
- 1 gloves, woolen, olive drab or riding, pair¹ (when necessary).
- 4 handkerchiefs.
- 1 hat, service, with tying cord.
- 1 haversack and pack carrier.
(Recruit travelling bag or haversack with straps, models prior to 1910, may be issued until supply is exhausted. They will be used for journey only, then returned to depot. Infantry recruits retain haversack and pack carrier.)

- 1 knife, M.1910.
- 1 laces, shoe, extra pair.
- 1 leggings, spiral, woolen, pair, or leggings, mounted.¹
- 1 meat can.
- 1 ornaments collar, bronze, sets¹ (when necessary).
- 1 overcoat (according to location and period of year).
- 1 raincoat, mounted or dismantled.¹
- 2 shirts, flannel, olive drab.
- 1 shoes, pair.
- 1 soap, cake (allowance $\frac{1}{4}$ ounce per day).
- 1 spoon, M.1910.
- 4 stockings, cotton, pair.*
- 4 stockings, woolen, pair.*
- 2 tags, identification.
- 1 tape, for identification tags, yard.
- 1 toilet set.
- 2 towels, hand or bath.
- 1 trousers, fatigue.
(Issued only when necessary at depots or on long journey. Not issued to recruits sent to units in the field.)
- 2 undershirts, cotton,*
- 2 undershirts, woolen.*

* Woolen for issue when necessary, according to period of year.

* Cotton for issue when necessary, according to period of year.

¹ According to arm of service.

NOTE 4.—For the purpose of fulfilling the requirements of paragraph 6 of this circular, hospitals within the zone of the interior will keep on hand a reserve amounting to twenty-five per cent of the strength of those commands. (Equipment for service with combat troops.)

TABLE II.

The following table prescribes the basic allowances of equipment pertaining to the individual enlisted man, squad, or detachment not normally taken when the individual makes a permanent change of station. Figures refer to enlisted men unless otherwise stated.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
M	Adhesive plaster, z. o., spools.....	1	.....	Per squad.
Q	Axes, hand, intrenching.....	1	.....	Each 2 infantry squads, each squad of cavalry and engineers. Each enlisted man of Medical Department assigned to combat troops.
O	Bandoleer, magazine, for Browning automatic rifle, right or left.	1	.....	To each enlisted man in squad of infantry rifle company, except rifle grenadier, until supply is exhausted, after which loop pockets will be furnished; to automatic riflemen equipped with old style belt, magazine, for automatic rifle; or with belt for assistant automatic riflemen; not issued with automatic rifle belts with six magazine pockets.
Q	Baton.....	1	.....	Each drum major of dismounted bands.
O	Bayonet.....	1	.....	According to rifle issued. To each dismounted enlisted man armed with rifle except wagoners, chauffeurs, and motorcyclists.
O	Bayonet scabbard.....	1	.....	According to bayonet issued. Each enlisted man armed with rifle.
O	Belt, magazine, for Browning automatic rifle.	1	.....	Per automatic rifleman; belt for assistant automatic gunners may be issued in lieu until supply is exhausted.
M	Belt, web, Hospital Corps, complete with contents.	1	.....	Per enlisted man, Medical Department, (except dental and veterinary service), below grade of technical sergeant assigned to combat troops. (See Note 1.)
S	Book, field message, with pencil...	1	.....	To each noncommissioned officer, inclusive of grade of sergeant, of combatant units where duties require; to each signal corporal. Additional issue as follows: 1 per combination flag kit, signal lamp, service buzzer or telephone; 1 per telephone switchboard; 2 per radio set; 5 for each battalion; 10 for each higher headquarters.
O	Brush, thong, for U. S. rifle, cal. .30.	1	.....	Per rifle.
Q	Brush, clothes.....	1	.....	Per squad.
Q	Brush, shoe.....	1	.....	Per squad.
Q	Bugle, complete with sling.....	1	.....	To each bugler. Issue "G" and "F" slides to all organizations. The designation bugle includes trumpet.
Q	Carrier, guidon or standard; or stirrup, guidon or standard.	1	.....	Per guidon or standard. Carrier furnished when steel stirrups are used; guidon stirrup furnished with McClellan saddle.
Q	Carrier, grenade.....	1	.....	Per squad of infantry.
Q	Carrier, intrenching, hand ax, M. 1910.	1	.....	Per each hand ax.
Q	Carrier, pick-mattock, intrenching.	1	.....	Per pick-mattock, intrenching.
Q	Carrier, shovel, intrenching.....	1	.....	Per shovel, intrenching.
O	Carrier, rifle grenade discharger....	1	.....	Per rifle grenade discharger.
O	Cartridges, ball, cal. .30.....	100	.....	Each man armed with rifle only. 90 for each man armed with both pistol and rifle. Issued only when directed by commanding officer.
O	Cartridges shot gun, riot type.....	.....	(b)	^b 24 per riot shot gun.
O	Cartridges, pistol, ball, cal. .45....	35	.....	For each individual armed with pistol only, except 21 rounds for Field Artillery and Coast Artillery. 21 for each man armed with both pistol and rifle. To be issued only when ordered by commanding officer.
M	Case, metal, dental technician's....	1	.....	Per enlisted man Dental Service, Medical Department, below grade of technical sergeant. (See Note 1.)
O	Cases, carrying, for Browning automatic rifle, model 1918.	1	.....	Per automatic rifle.

TABLE II--Continued.

Branch.	Articles of equipage.	A War set.	B Addi- tional for use at posts and camps.	Remarks and basis of issue.
O	Cases, oiler and thong, for U. S. rifle, cal. .30.	1	.....	Per rifle.
O	Cases, spare parts, for each automatic rifle.	a 1	.....	Containing: 1 extractor, 1 extractor spring, 1 recoil spring, 2 firing pins, 1 sear spring, 1 connector, 1 magazine catch spring, 1 gas cylinder cleaning tool, 1 gas cylinder tube pin, 1 trigger guard-lock pin, 1 combination spanner and screw driver, 1 spring cleaner, 1 oil can, 2 extractors (defective shell), 2 fabric containers (1 for recoil spring and 1 for small parts). a One per four automatic rifles or fraction thereof for field artillery and coast artillery units.
E	Compass, prismatic, with case.....	(a)	.....	To each organization of combatant troops at rate of 2 per brigade, regimental and battalion headquarters, and 1 per company, except Cavalry and Field artillery. To sergeants above fourth grade, Engineer Corps. For Field Artillery. (See Table IV-C.)
E	Compass, watch.....	1	.....	In each organization of combatant troops at rate of 1 per noncommissioned officer inclusive of grade of sergeant (except for field artillery) to corporals of engineers, Signal Corps, cavalry, infantry, and Coast Artillery units; to buglers, messengers, scouts, and observers of combatant troops. Marching or other suitable compass may be issued until supply is exhausted; 1 per U. W. loop radio set. One compass only to each individual. For Field Artillery. (See Table IV-C.)
O	Cover, rifle, cal. .30.....	1	.....	Per rifle. Covers, breechlock mechanism for United States rifle, cal. .30, may be issued until supply is exhausted.
O	Cover, front sight, for U. S. rifle, cal. .30, model 1903.	1	.....	Per rifle.
Q	Cover, horse.....	1	.....	Per draft, pack or riding animal, when directed by commanding officer. (See Riding equipment.) Blanket-lined horse covers will be issued when directed by department and corps area commanders.
Q	Cutter, wire, small.....	1	.....	To each first sergeant, stable sergeant, bugler, agent, signalman, and member of a pioneer section (except Field Artillery) and to each corporal of infantry and cavalry, except bandsman. Not issued to Signal Corps. For Field Artillery. (See Table IV-C.)
Q	Cutter, wire, carrier.....	1	.....	Per wire cutter.
O	Depressor, follower, for U. S. rifle, cal. .30, model 1917.	1	.....	Per rifle, model 1917.
O	Filler, magazine, for Browning automatic rifle, model 1918.	3	.....	Per automatic rifle.
Q	Flash light, with bulb and battery, complete.	(a)	.....	a Issued for field service only. To combat organizations 1 for each sergeant, where duties require; to each mechanic and assistant mechanic, and in machine-gun and tank organizations to include corporals and gun squad leaders. A spare bulb and battery for each flash light are carried in field train; 1 per switchboard, wire cart, radio set, test or switching point, battery-charging set, and telegraph set. For Field Artillery. (See Table IV-C.)
C	Gas equipment.....			See Note 19.
O	Glasses, field.....			To each unit of combatant troops as per Table IV.
O	Glasses, field, type EE.....			To each unit of combatant troops as per Table IV.
O	Gun sling.....	1	.....	Per rifle, cal. .30.
O	Gun sling, automatic rifle.....	1	.....	Per automatic rifle.
O	Helmet, steel.....	1	.....	Per individual. Not issued in time of peace.

TABLE II—Continued.

Branch.	Articles of equipage.	A War set.	B Addi- tional for use at posts and camps.	Remarks and basis of issue.
O	Holster, pistol.....	1		Per automatic pistol.
Q	Housewife.....	1	1	Per squad. Contents replaceable when expended.
B	Knives, electricians'.....	1		To each member of the Signal Corps and to each enlisted man of the signal detail of infantry, cavalry, coast artillery, and machine-gun units. (For Field Artillery, see Table IV-C.)
O	Knot, saber.....	1		To each enlisted man armed with a saber.
O	Lanyard, pistol.....	1		To each mounted enlisted man armed with pistol.
O	Magazine, extra, for automatic pistol, cal. .45.	4		To each enlisted man armed with pistol only. Two to automatic riflemen armed with pistol and to enlisted men armed with both rifle and pistol.
O	Magazine, for Browning auto- matic rifle.	(e)		c Only for field artillery and coast artillery. c As per Table IV. Normally 72 per auto- matic rifle.
Q	Music stand.....		1	To each bandsman.
Q	Net, hay.....	1		Per draft and pack animal, when directed by commanding officer. (For riding animals, see Riding equipment.)
Q	Pick mattock, intrenching, model 1910.	(e)		a 2 per squad of infantry, including machine gun organization (except bandsman).
O	Pistol, automatic, cal. .45.....	1		As per Table IV, basic allowances and to each noncommissioned officer named in grades 1 to 4, both inclusive, not otherwise provided for in Table IV; to detached enlisted men normally armed with pistol when with an organization.
B	Pliers, side-cutting.....	1		To each member of the Signal Corps and each enlisted man of the signal detail of infantry, cavalry, artillery, and machine-gun units.
Q	Pocket, magazine, web, double....	(e)	(b)	a b Two to each infantry enlisted man armed with pistol only. One to each man armed with both pistol and rifle and to enlisted men of field artillery and coast artillery and to automatic riflemen armed with pistol. Pocket, magazine, double, model 1918, may be issued in lieu until supply is exhausted.
Q	Pouch for small articles.....	1		b For drill set.
Q	Pouch, music.....	1		Per squad equipped as infantry, including Corps of Engineers and Coast Artillery Corps assigned to fixed armament.
Q	Pouch, web, for shotgun ammu- nition.	1	2	a One for each bandsman.
Q	Riding equipment: Set, consisting of— Currycomb, feed bag, grain bag, bridle complete, halter complete, horse brush, horse cover, hay net, link, saber straps (to all enlisted men equipped with saber), saddle complete, saddlebags, sur- cingle, 2 extra fitted horse- shoes with nails, saddle blanket.	1		Per riot shotgun, except for troops equipped with rifle belt.
	Set, consisting of— 1 horse brush, 1 cur- rycomb.	1		For each enlisted man mounted on horse or mule as shown in Tables IV (except mounted drivers). Saber straps not issued to field artillery, remount squadrons, or enlisted man mounted on mule. Blanket-lined horse covers, shoe calks, and hay nets are issued only when directed by commanding officer. Links will not be issued in riding equipment to enlisted man mounted on mule. One halter complete, issued in Equipment B for each enlisted man mounted on horse or mule (except mounted drivers).
O	Rifle, U. S., cal. .30, model 1903.....			For each mounted driver, field artillery, additional riding equipment issued as part of artillery harness. To each mule leader dismounted in machine-gun units.
O	Rifle, Browning, automatic.....			As per Table IV, basic allowances.
O	Rod, cleaning, barrack, model 1910.	1	3	As per Table IV, basic allowances and additional as approved for each coast defense project.
				Per squad armed with rifle. Rod, clean- ing, model 1910, with case, may be issued in lieu.

TABLE II—Continued.

Branch.	Articles of equipage.	A War set.	B Addi- tional for use at posts and camps.	Remarks and basis of issue.
O	Saber, cavalry, model 1910.....			As shown in Tables IV, Basic Allowances.
O	Saddle. (See Riding equipment.)			
O	Scabbard, Browning, automatic rifle, model 1918.....	1		To each mounted automatic rifleman.
Q	Scabbard, rifle, model 1904.....	1		Per mounted man, motorcyclist, wagoner, and chauffeur armed with rifle.
O	Scabbard, saber, cavalry.....	1		For each enlisted man armed with saber
O	Screw driver, for U. S. rifle, cal. .30.....	1		Per squad armed with rifle.
O	Shot guns, sporting type.....		2	Per company of all arms of service, except air units equipped with shotguns, sport- ing type.
O	Shot guns, riot type.....		(b)	^b As per Table IV. When directed by department or corps area commander.
Q	Shovels, intrenching, model 1910..	(c)		^a 4 per squad of infantry, including ma- chine gun organizations.
Q	Spurs, model 1911, pairs.....	1		To each mounted enlisted man, including mounted drivers.
O	Stick, breech, for U. S. rifle, cal. .30.....	1		Per rifle, until supply is exhausted.
Q	Straps, spur, model 1911, sets.....	2		To each mounted enlisted man, including mounted drivers.
Q	Suspenders, cartridge belt, model 1907.....	1		To each mounted enlisted man armed with rifle and each enlisted man equipped with pistol belt. Not issued to field artillery.
O	Thong, for U. S. rifle, cal. .30.....	1		Per rifle.
M	Wallet, veterinary.....	(c)		^a 1 per enlisted man, veterinary service, Med. Dept., below grade of technical sergeant assigned to combat troops. (See Note 1.)
M	Wallet, farrier's.....	(c)		^a 1 per stable sergeant.
O	Whistles:			
	Battalion commanders.....	1		One to battalion headquarters.
	Company commanders.....	1		One to each company.
	Thunderer.....	2		Two to each platoon.

Notes pertaining to Table II.

NOTE 1.—Equipment of Medical Department.

a. MEDICAL.

Individual equipment, enlisted men, Medical Department (except Dental and Veterinary Service), below the grade of technical sergeant.

- | | |
|--|--|
| <p>1 belt, web, Hospital Corps, complete with contents:</p> <ul style="list-style-type: none"> 6 bandages, gauze, compressed. 1 case, containing: <ul style="list-style-type: none"> 1 forceps, dressing. 1 scissors, dressing. 2 packages gauze, sublimated, 2 half-yard lengths in package. 10 individual dressing packets. 1 book emergency medical tags. 1 pencil, indelible, with metal cap (Q). | <p>1 belt, web, Hospital Corps, complete with contents—Continued.</p> <ul style="list-style-type: none"> 1 pencil, lead, with metal cap (Q). 2 boxes iodine swabs, 6 in box. 1 dozen pins, safety, medium size. 1 spool adhesive plaster, z. o., 5 yards by 1 inch. 1 flask aromatic spirits of ammonia, in flask with screw cap. 1 tourniquet, field. |
|--|--|

NOTE.—Medical officers are authorized to make such changes as they desire in the expendable contents of the belts worn by their orderlies. Under some circumstances it may also be desirable to make substitutions in the contents of belts worn by noncommissioned officers.

b. DENTAL.

Individual equipment, enlisted men, Dental Service, Medical Department, below the grade of technical sergeant.

1 case, metal, dental technician's, complete with contents (being developed by the Medical Department):

- 6 bandages, muslin, 3 inches by 5 yards.
- 2 bottles medicine, $\frac{1}{2}$ -ounce, square, with g. s., No. 1, SSW.
- 1 box cement, pearl gray, oxyphosphate.
- 1 package cotton, absorbent, 1 ounce in package.
- 2 packages, cleansers No. 2, root canal SSW.
- 1 excavator, spoon, steel handle, No. 100.
- 1 forceps, tooth extracting, No. 65.
- 1 box gutta-percha, temporary stopping, pink and white.
- 1 holder for nerve broach, No. 2, SSW.
- 1 box matches, safety (Q).
- 1 mirror, mouth, No. 52, plain, metal handle, SSW.
- 1 book, blank, 8 vo (Q).
- 8 tubes procaine-supraëmin tablets, 20 in tube.
- 1 pencil, indelible, with metal cap (Q).
- 1 pencil, lead, with metal cap (Q).
- 1 pliers, office, smooth beak, No. 122.
- 1 pliers, round nose, No. 107.
- 1 pliers, dressing, No. 2.

1 case, metal, dental technician's, complete with contents (being developed by the Medical Department)—Continued.

- 1 plugger, Woodson's, No. 1, amalgam.
- 1 package, Reamer's, root canal, "E," No. 15, tapered, Kerr, 6 in box.
- 1 scaler, long handle, No. 2.
- 1 slab, glass, square, mixing, 2 by 2 inches.
- 1 spatula, cement, No. 24, steel handle, SSW type.
- 1 syringe, hypodermic, glass barrel for; Fischer type.
- 1 syringe, hypodermic, short hub for.
- 1 syringe, hypodermic, long hub for.
- 2 syringes, hypodermic, extra Schimmel needles for, iridium platinum, 26 gauge, $1\frac{1}{2}$ inches.
- 2 syringes, hypodermic, extra Schimmel needles for, iridium platinum, 26 gauge, 1 inch.
- 1 syringe, water, Moffat's, No. 21A.
- 1 spoon, tea, silver plated, MDS.
- 1 shears, crown, curved, No. 11.
- 4 tubes Ringer solution, tablets for, Metz type, 20 in tube.
- 80 pieces wire ligature, Angles', No. 187.

c. VETERINARY.

Individual equipment, enlisted men, Veterinary Service, Medical Department, below the grade of technical sergeant.

1 wallet, veterinary, complete with contents:

- 10 bandages, muslin, compressed, 4 inches by 3 yards.
- 1 tube chloral hydrate, 6 balls in tube.
- 5 packages cotton, absorbent, 1 ounce in package.
- 1 forceps, tissue, 6 inches.
- 1 graduate, aluminum, 60 c. c.
- 1 tube mercuric chloride tablets, 25 in h. r. tube.
- 10 tubes iodine and potassium iodide.
- 1 knife, hoof, searching.
- 1 tin liquor cresol solution, compound, 1 pint in tin.

1 wallet, veterinary, complete with contents—Continued.

- 3 needles, surgical.
- 1 scalpel, folding, $3\frac{1}{2}$ inches.
- 1 pair scissors, curved, two points blunt, $6\frac{1}{2}$ inches.
- 1 box sutures, assorted, 3 sizes in box.
- 2 thermometers, clinical veterinary, in case.
- 1 vial, 2-ounce, empty, labeled tr. iodine, with rubber stopper in case.

TABLE III.

The following table prescribes the basic allowances of organization equipment common to more than one arm of the service.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Adding machine.....	(a)	.....	a 1 per finance unit.
Q	Aiming device.....	(a)	.....	a 6 per company, peace strength equipped with rifle cal. .30. Ten per company, war strength.
O	Arms chest, with padlock and keys (pistol).	.....	(b)	b 1 per company armed with pistols; additional chests issued when needed for storage of arms and authorized by commanding officer.
O	Arms chest, with padlock and keys (rifle).	.....	(b)	b 1 per company armed with rifles; additional chests issued when needed for storage of arms and authorized by commanding officer.
Q	Axes, with helve (see Note A)....	(a)	(b)	a 1 per 2 cooks or bakers; 1 per 80 animals, remount squadron, 1 per regimental, battalion, and veterinary dispensary. b 1 per 50 men.
Q	Bags, water, sterilizing, and cover.	(a)	.....	a 1 per 100 men or fraction thereof.
Q	Brushes, marking.....	(a)	.....	a 1 per headquarters down to and including company headquarters, and regimental dispensary.
Q	Buckets, galvanized iron (see Note A).	(a)	(b)	a 1 per cook or baker, 1 per 25 animals for remount squadron, 12 per butchery company, 2 per regimental and battalion dispensary, 3 per small and 6 per large veterinary dispensary. b 1 per 50 men. For other purposes as directed by commanding officer.
Q	Calks, too.....	(a)	.....	a For draft animals, 1 per shoe, issued when directed by commanding officer.
Q	Cans, galvanized iron: Garbage.....	.....	(b)	b 1 per 50 men or fraction thereof; 12 per butchery company.
	Night urinal.....	.....	(b)	b 2 per first 100 men or fraction thereof, 1 per additional 100 men or major fraction thereof, 1 per each headquarters.
Q	Cavesson and longe.....	.....	(b)	b 1 per 25 riding animals. To remount squadrons and depots at rate of 1 per man training animals.
Q	Chairs, folding.....	(a)	.....	a 1 per officer and clerk, authorized for battalion or higher headquarters, including message centers; hospitals, salvage depots and graves registration service, and air service squadrons and parks.
Q	Chaplains' equipment, sets.....	(a)	.....	a See Note 39.
O	Chests, arm repair, model 1910 or model 1917, with contents.	(a)	(b)	a 1 per regiment (service company) or separate battalion armed with rifle. b 1 per company armed with rifle. (See Note 18.)
Q	Chests, commissary, with contents	(a)	.....	a 1 per regiment (service company) or separate battalion, 1 per quartermaster supply company. (See Note 1.)
Q	Coal, smithing.....	(a)	(b)	a 1 pound per animal. b As prescribed by commanding officer.
Q	Colors, battalion, silk, with case, staff, cord, and tassels.	(a)	.....	a 1 per separate dismounted battalion. Not issued to battalions forming parts of regiments.
Q	Colors, national, silk, with case, staff, cord, and tassels.	(a)	.....	a 1 per dismounted regiment, including coast defense commands and railway artillery regiments, 1 per separate dismounted battalion.
Q	Colors, national, service, with case, staff, cord, and tassels.	(a)	.....	a 1 per battalion in dismounted regiments, including coast artillery posts of 2 or more companies.
Q	Colors, regimental, silk, with case, staff, cord, and tassels.	(a)	.....	a 1 per dismounted regiment, including coast defense commands and railway artillery regiments.
M	Dental equipment.....	.....	.....	See Medical equipment and Note 26.
Q	Desks, field, company, with contents.	(a)	(b)	a 1 per company for current records used in the field (S. R. No. 57), 1 per battalion, company, and veterinary dispensary. b 1 per company for additional records (S. R. No. 57). (See Note 32.)

TABLE III—Continued.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Desks, field, regimental, with contents.	(a)	.....	• 2 per headquarters of regiment, separate battalion and similar units, 1 per regimental supply officer, 1 per headquarters of a battalion in a regiment, 1 per regimental and veterinary (large) dispensary, or similar unit; for higher headquarters as approved by commanding general. (See Note 33.)
Q	Flag, distinguishing, with staff	(a)	.....	• 1 per dismounted company.
Q	Forks, stable	(a)	(b)	• 1 per 20 animals or fraction thereof.
Q	Guidons and staff	(a)	.....	• 1 per mounted company, animal-drawn artillery company or motorized company.
Q	Handcuffs	(a)	(b)	• 4 per regiment (Hq. Co.), 2 per separate battalion; for military police as directed by commanding officer.
Q	Harness	(a)	.....	See Vehicles.
Q	Instruments, band	(a)	.....	• 1 set per band. (See Note 2.)
	Irons:			
	Branding, hoof, set	(a)	.....	• 1 per mounted company or animal-drawn company.
	Branding, I. C.	(a)	.....	• 1 per regiment (service company) or separate battalion, except motorized units, 1 per remount squadron.
	Branding, U. S.	(a)	.....	• 1 per regiment (service company) or separate battalion, except motorized units, 1 per remount squadron.
S	Kits, flag, combination	(a)	.....	• 1 per bugler, 1 additional per platoon except for engineers, 2 per company, 1 per wire cart, 1 per section in motor transport company, 2 per mine planter. (See Note 3.) For Field Artillery, see Table IV-c.
O	Kits, pistol, cleaning	(a)	.....	• 1 per 50 pistols or major fraction thereof; a minimum of 1 issued to each company armed with pistol; 1 per mine planter. (See Note 27.)
Q	Lanterns, complete, with globe and wick (see Note A).	(a)	(b)	• 3 per company, 2 per battalion headquarters, 2 per regimental headquarters, 6 per remount squadron, 1 per airplane section, 12 per air park, 1 per buzzerphone, telephone switchboard, radio set and message center. • 1 per company, 2 per battalion and 3 per regimental headquarters. • 1 per higher headquarters as directed by commanding general.
M	Litters, with sling	(a)	.....	• 1 per 50 men, 12 per battalion and 6 per regimental dispensary.
M	Medical equipment for			See Notes 20, 24 and 23.
	Dispensary, regimental	(a)	.....	• 1 per regiment. (See Note 21.)
	Dispensary, battalion	(a)	.....	• 1 per battalion. (See Note 22.)
	Dispensary, company	(a)	.....	• 1 per separate unit, smaller than a battalion. (See Note 23.)
	Dispensary, veterinary, large	(a)	.....	• 1 per mounted regiment. (See Note 24.)
	Dispensary, veterinary, small	(a)	.....	• 1 per dismounted regiment; or smaller tactical unit, mounted or dismounted, to which veterinary personnel are attached. (See Note 25.)
	Dispensary, flight surgeon's equipment	(a)	.....	• 1 per dispensary unit having one or more flight surgeons attached. (See Note 24.)
	Dispensary, dental	(a)	.....	• 1 per each dental officer serving with an organization. (See Note 26.)
Q	Mimeograph set, complete	(a)	(b)	• 1 to each infantry, cavalry, and artillery brigade, to each artillery regiment, to corresponding air units, including air parks, and to each engineer regiment or separate engineer mounted battalion, and to higher headquarters as approved by the commanding general, to each regiment detached from brigade headquarters. (See Note 34.) • 1 per regiment, and each coast artillery fort.
Q	Nails, horseshoe	(a)	(b)	• 1 pound per 15 pounds of shoes.
Q	Outfit, cooking, field, Philippine Scouts.	(a)	.....	• 1 pound per 15 pounds of shoes issued. • 1 per scout company.

TABLE III—Continued.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Outfit, marking, leather.....	(a)	.....	a 1 per mounted company, 1 per animal-drawn company. (See Note 4.)
Q	Outfit, marking, metal.....	(a)	.....	a 1 per company. (See Note 5.)
Q	Outfit, officers' mess.....	(a)	.....	a 1 per battalion, regimental and brigade headquarters officers' mess. As directed by commanding general for higher headquarters. (See Note 29.)
Q	Outfit, reloading.....	.....	(b)	b 1 per regiment (service company) or separate battalion armed with rifle. (See Note 6.)
Q	Outfit, shoe fitting.....	(a)	.....	a 1 per battalion and 1 additional per regiment (service company), or similar unit.
Q	Outfit, shoe repair.....	(a)	.....	a 1 per battalion. (See Note 9.)
Q	Pack outfits.....	.....	(b)	See Vehicles.
Q	Paulins, large.....	(a)	(b)	a 1 per 50 animals, remount squadron, 2 per butchery company, 2 per quartermaster supply company and bakery company. b 1 per company, 2 per regimental headquarters.
Q	Paulins, small.....	(a)	.....	a 2 per regimental and battalion dispensary; 1 per company and veterinary dispensary.
Q	Pickaxes, with helvcs (see Note A).....	(a)	(b)	a 2 per company, 1 per battalion headquarters, 1 per 50 animals, remount squadron, 5 per butchery company, 1 per dispensary, battalion and veterinary. b 1 per 20 men.
Q	Polo equipment.....	.....	(b)	See Note 38.
Q	Pots, marking.....	(a)	.....	a 1 per headquarters down to and including company headquarters.
Q	Rakes, steel.....	(a)	(b)	a 2 per motor transport company, 1 per 40 animals or fraction thereof, 1 per unit bakery company. b 1 per 50 men.
Q	Ranges, field, No. 1.....	(a)	.....	a 1 per 150 men when rolling kitchens are not prescribed in Table IV, basic allowances, 2 per bakery company. (See Note 7.)
Q	Ranges, field, No. 2.....	(a)	.....	a 1 per detachment of 50 men or less, including battalion or higher officers' messes, when required to mess separately; 1 per remount squadron. (See Note 8.)
Q	Rations:	.....	.....	.....
	Field.....	(a)	.....	a 2 per officer and enlisted man, initial allowance, carried in field train; 1 additional per day per officer and enlisted man when actually on field service. This allowance as basis of supply. Officers are required to pay for rations issued them for their own use.
	Garrison.....	.....	(b)	b 1 per enlisted man per day.
	Reserve.....	(a)	.....	a 1 per officer and enlisted man, initial allowance, carried in field train; 2 per officer and enlisted man carried on person. Carried in active campaign only.
Q	Safes, field.....	(a)	.....	a 1 per regiment (service company) or separate battalion, 1 per sales commissary unit, 2 per finance unit and 1 per division or higher headquarters.
Q	Saws, crosscut, two-handed, complete.....	.....	(b)	b 1 per company.
Q	Saws, crosscut, two-handed, complete.....	(a)	.....	a 1 per saddler in dismantled organization (See Note 28.)
Q	Sets, harness mender.....	(a)	.....	a 1 per regiment (service company), separate battalion or similar unit.
Q	Scales, folding.....	.....	(b)	b 1 per regiment (service company), separate battalion or similar unit.
Q	Shoes, horse and mule, extra.....	(a)	(b)	a 1 fore and 1 hind, fitted for riding or pack animal; 2 fore and 2 hind fitted for draft animal; and 1 pound additional per animal.
Q	Shovels, short-handled (see Note A).....	(a)	(b)	b As directed by commanding officer. a 2 per company, 1 per battalion and regimental headquarters; 1 per 50 animals, remount squadron. b 1 per 20 men.
Q	Slings, color, olive-drab.....	(a)	.....	a 1 per color or standard.
Q	Standards, battalion, silk, with case and staff.....	(a)	.....	a 1 per separate mounted or motorized battalion. Not issued to battalions forming parts of a regiment.

TABLE III—Continued.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Standards, national, service, with case and staff.	(e)	.....	a 1 per battalion of mounted or motorized regiments, including group in air wing, and battalion in tank brigade.
Q	Standards, national, silk, with case and staff.	(e)	.....	a 1 per mounted or motorized regiment, including artillery, horse drawn or motorized; 1 per tank brigade and air wing, 1 per separate mounted or motorized battalion.
Q	Standards, regimental, silk, with case and staff.	(e)	.....	a 1 per mounted or motorized regiment, including artillery, horse drawn or motorized; 1 per tank brigade and air wing.
Q	Stoves, tent, complete, with elbows, stovepipe, spark arrester, and shield or galvanized iron hood.	(e)	(b)	a 1 per tent, for winter use only. b 1 per tent, for winter use only. (See Note 17.)
Q	Stretchers, shoe.....	(e)	.....	a 1 per company.
Q	Tables, folding.....	(e)	.....	a 1 per officer and clerk authorized for each battalion or higher headquarters, or similar unit, including message centers.
Q	Tags, personal equipment, M. 1919.	(e)	.....	a Sufficient for equipment issued, normally 20 per man per year.
Q	Tents.....	(e)	(b)	a ^b For headquarters higher than regimental as directed by commanding general. (See Note 17.)
	Fly, wall, large.....	(e)	.....	a 1 per kitchen, complete with poles and ropes.
	Fly, wall, small.....	(e)	.....	a 1 per bakery company.
	Pyramidal, complete, with poles, pins, ropes, hood, etc.	(e)	(b)	a 10 per bakery company. b 1 per 8 men and 2 per company (office and storage), and 2 per separate battalion and 3 per regimental headquarters (guard).
	Storage, complete with poles, pins, ropes, and fly.	(e)	(b)	a 10 per bakery company. b 2 per regiment (regimental service or supply officer), and quartermaster supply company; 1 per separate battalion (battalion supply officer), salvage depot.
	Wall, large, complete with poles, pins, ropes, and fly.	(e)	(b)	a 2 per regimental headquarters (mess and office), 1 per separate battalion headquarters. b 1 per battalion headquarters (mess), 1 per separate battalion headquarters.
	Wall, small, complete, with poles, pins, ropes and fly.	(e)	(b)	a 2 per general officer, 1 per field officer. b 1 per general officer, 1 per field officer, 1 per captain, 1 per each 2 lieutenants, 1 per battalion headquarters (storage).
Q	Tent patch, adhesive.....	(e)	(b)	a ^b Issued as required for repair of tentage.
Q	Tools:			
	Band repair, set.....	(e)	.....	a 1 per band. (See Note 11.)
	Blacksmith's set (see Note B).	(e)	.....	a 1 per animal-drawn artillery company; engineer company; regiment (service company), except motorized regiment; separate battalion (except motorized battalion); remount squadron; quartermaster service company; corps and Army signal battalions; and corresponding air service units. (See Note 15.) (Articles of supply by Ordnance Department for initial equipment only of mobile artillery units.)
	Carpenter's set (see Note B)...	(e)	(b)	a 1 per animal-drawn artillery company; per regiment; service company (except motorized regiment); separate battalion (except motorized battalion); bakery company; quartermaster supply company; corps and Army signal battalions; corresponding air service units. (See Note 16.) b 1 per company when not furnished in (e). (Articles of supply by Ordnance Department for initial equipment only of mobile artillery units.)
	Carpenter's kit.....	(e)	.....	a 1 per company not provided with tools, carpenter's set, in Equipment A. (See Note 16.)

TABLE III—Continued.

Branch.	Articles of equipage.	A War set.	B Addi- tional for use at posts and camps.	Remarks and basis of issue.
Q	Tools—Continued.			
	Cobbler's kit.....	(a)	.....	• 1 per company. (See Note 12.)
	Electrician's set.....	(a)	(b)	As per Table IV. (See Note 10.)
	Horseshoer's set, including kit (see Note B).	(a)	.....	• 1 per mounted company, except mounted engineers; 1 per machine-gun company, except motorize 1 unit; 1 per headquar- ters company, except motorized units; 5 per remount squadron; 1 per division. (See Note 14.)
	Saddler's set, including kit (see Note B).	(a)	.....	• 1 per mounted company; 1 per animal- drawn artillery company; 1 per company of engineers; 1 per regimental service company, except motorized regiment; and 1 per separate battalion, except motorized battalion; 1 per division signal company. (See Note 13.) (Articles of supply by Ordnance Department for initial equipment only of mobile artillery units.)
	Typewriter, repair set.....	(a)	.....	• 2 to each division headquarters. (See Note 35.)
Q	Typewriters, complete, with oil can and brush.	(a)	.....	• 1 per company; 1 additional per service company and heavy artillery battalion headquarters; and 3 per regimental and separate battalion headquarters in addi- tion to those supplied in regimental field desks; 4 per salvage depot; 1 per mine planter detachment on board ship; higher headquarters as directed by com- manding general.
Q	Vehicles, with harness, complete..	(a)	.....	• As prescribed in Table IV, basic allow- ances. (See Note 30 for equipment.)
Q	Vehicles.....	(a)	.....	• As prescribed in Table IV, basic allow- ances.
Q	Washbasins.....	.....	(b)	• 1 per 2 men, when no lavatory facilities are provided.
O	Watch, wrist, 15-21 jewels, lumino- ous dials, with wristlet, or watch, pocket, 15-21 jewels.	(a)	(b)	• 1 to each division and brigade head- quarters; regiment; battalion; company of field artillery; coast artillery; infantry; cavalry; medical department and engi- neers; battalion and company of Signal Corps and tanks; corresponding air units; radio trucks, Army and division; 3 addi- tional each regimental headquarters and company of mobile artillery. Issued only in time of war.
O	Watch, pocket (equal to 7 jewel)..	• 8	.....	• 2 to each meteorological observation station, and 1 to each meteorological control station, issued both in time of peace and war.
O	Watch, wrist, 7 jewel, luminous dial, with wristlet.	(a)	(b)	• To each rifle company, infantry, and cavalry. Issued only in time of war.
				• 1 to each radio and telegraph set; telephone switchboard battalion head- quarters and higher headquarters; pigeon loft; battalion message center; courier service station, division and higher head- quarters; 2 to each message center, regi- mental and higher headquarters. Issued in time of peace and war.
				• 8 to each machine gun and howitzer com- pany; and each company of mobile artillery, tanks, engineers, and Signal Corps; 16 to each battalion headquarters and 24 to each regimental headquarters, including Medical Corps; 24 to each bri- gade and higher headquarters. Issued only in time of war, and additional to allowance given in (a). • 4 per regiment (service company), 2 per separate battalion, or similar unit. Not issued to Field Artillery.
Q	Wedges, wood splitting.....	(a)	.....

TABLE III—Continued.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
	SUPPLIES.*			
Q	Brooms, corn †.....		(b)	b Maximum allowance 1 per 20 men per month, 1 additional per mounted company per month, and 2 additional per animal-drawn or motorized unit per month for gun sheds and stables. For other buildings as directed by commanding officer.
Q	Brooms, stable †.....	(c)	(b)	a Quarterly allowance, 1 per 25 animals, or fraction thereof, for remount squadrons. b 1 per 25 animals, or fraction thereof, except remount squadrons. 2 per dismounted companies. For other purposes as directed by commanding officer.
Q	Brushes, scrubbing †.....	(c)	(b)	a 4 per company. b Maximum allowance for barracks 2 per 30 men per month. For other buildings or other purposes as directed by commanding officer.
Q	Candles.....	(c)	(b)	a 1 pound per 60 men per day. b Normal allowance is 1 pound per 60 men per day, where no other light is furnished.
Q	Candles, lantern, folding.....	(c)		a 6 per folding lantern.
Q	Cleaning and preserving materials.	(a)	(b)	a See Note 31.
Q	Forage:			
	Bran.....	(c)		a 3 pounds per animal per day may be issued in lieu of equal weight of grain.
	Grain, reserve.....	(c)		a 2 grain rations per animal per day, carried in field trains, 1 per draft animal additional carried on vehicles, initial allowance.
	Grain (oats, corn, or barley)...	(c)		a 12 pounds per horse per day weighing less than 1,300 pounds, 14 pounds per horse weighing over 1,300 pounds, 9 pounds per mule.
	Hay.....	(c)		a 14 pounds per horse per day weighing less than 1,300 pounds, 17 pounds per horse, 1,300 pounds or over in weight, 14 pounds per mule.
Q	Fuel:			
	Wood.....	(c)	(b)	a $\frac{1}{4}$ cord per kitchen and incinerator fire per day. b As directed by commanding officer. Normal allowance $\frac{1}{6}$ cord per kitchen and incinerator fire per day.
	Oil (fuel or kerosene).....	(c)	(b)	a 5 gallons per kitchen fire per day when oil burners are provided. b As directed by commanding officer. Normal allowance, 5 gallons per kitchen fire per day when oil burners are provided.
Q	Gasoline.....			As directed by commanding officer.
Q	Ice.....		(b)	b One pound per man per day for organizations of enlisted men not exceeding 100 men; for organizations of enlisted men exceeding 100 men, not to exceed 100 pounds per day; for preservation of subsistence stores and for hospitals the minimum quantity actually necessary and authorized by the commanding officer. No issues will be made to offices or workshops. To troops stationed north of the thirty-seventh parallel of north latitude and where from any cause it is impracticable to cut and store ice for their use, the allowance will be for seven months only, beginning April 1 and ending October 31, except in the States of Washington, Oregon, and Idaho, where during the remainder of the year one-half of such allowance may be issued, and in the State of California, where the full allowance may be issued for the entire year. To troops stationed south of the thirty-seventh parallel of north latitude, the full allowance may be issued for the entire

TABLE III—Continued.

Branch.	Articles of equipage.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
SUPPLIES—continued.				
Q	Ice (continued).....			year. At posts where it is practicable during the cold season to cut and store ice required, no issues of ice will be allowed from funds of the Quartermaster Corps as long as such stored ice is available.
Q	Lampblack, pounds.....	(a)		a 1 per headquarters down to and including company headquarters and regimental dispensary.
Q	Lime.....		(b)	b As directed by commanding officer. Normal allowance is 10 pounds per latrine per day.
Q	Lye.....	(a)	(b)	a 2 pounds per company per month. b As directed by commanding officer. Normal allowance is 8 pounds per company per month.
Q	Matches, safety.....	(a)	(b)	a 2 boxes per company per day. b As directed by commanding officer. Normal allowance is 2 boxes per company per day.
Q	Mops*.....		(b)	b As directed by commanding officer. Normal allowance 1 per 25 men per month.
Q	Oil, crude: For latrines.....		(b)	b Normal allowance is 1 gallon per day per latrine. As directed by commanding officer.
	For picket line.....		(b)	b As directed by commanding officer. Normal allowance is 1 gallon per day per each 50 animals.
Q	Oil, mineral.....	(a)	(b)	a ^b $\frac{1}{2}$ pint per day per lantern issued, normal allowance.
Q	Paper, toilet.....	(a)	(b)	b As directed by commanding officer. a ^b 1 roll, or 1,000 sheets, to each 60 men per day.
Q	Polish, shoe.....		(b)	b As directed by commanding officer. Maximum allowance, 1 box per month per enlisted man.
Q	Polish, stove.....		(b)	b As directed by commanding officer.
M	Powder, hypochlorite of lime, tubs.....	(a)	(b)	a 3 per water sterilizing bag per day.
Q	Salt, rock.....	(a)	(b)	a 1 pound per 20 animals per day. b As directed by commanding officer.
Q	Soda.....		(b)	b As directed by commanding officer. Maximum allowance, 4 pounds per company per month.
Q	Soap: Scouring.....		(b)	b As directed by commanding officer. Normal allowance is 12 cakes per company per month in barracks.
	Issue.....	(a)	(b)	a 1 pound per 24 men per day. b As directed by commanding officer in exceptional issues.
Q	Straw: For bed sack.....		(b)	b As directed by commanding officer. Normal allowance is 30 pounds per man per month.
	For latrine.....		(b)	b As directed by commanding officer. Normal allowance is 15 pounds per day per latrine.
	For picket line.....		(b)	b As directed by commanding officer. Normal allowance is 30 pounds per day per 50 animals.
	For bedding animals.....		(b)	b As directed by commanding officer. Normal allowance is 100 pounds per month per animal.
Q	Vinegar.....	(a)		a 1 pint per 40 animals per day.

ADDITIONAL ISSUE OF SUPPLIES.

* Where supplies are issued on order of commanding officers, the necessity for, and the fact of issue, will in all cases be certified to by the officer commanding the organization or in charge of the office or building and be verified by the commanding officer. When the commanding officer is given authority to approve supplies "as directed by commanding officer," this includes supplies required for office and buildings including the quarters of enlisted men; and other military activities within his command.

† Normally issued quarterly; but may be issued when needed and ordered by commanding officer.

Notes pertaining to Table III, with alphabetical index.

	Note No.		Note No.
Alaskan clothing	36	Nurses' clothing	37
Chaplains' equipment, set	39	Outfit, marking, for stamping leather ..	4
Chest, arm repair	18	Outfit, marking, for stamping metal ..	5
Chest, commissary	1	Outfit, reloading	6
Cleaning and preserving materials	31	Outfit, shoe repair	9
Dispensary equipments	20½	Mess equipment, officers'	29
Dispensary, battalion	22	Pins, poles, stoves, etc., for tents ..	17
Dispensary, company	23	Polo equipment, set	88
Dispensary, dental	26	Range, field, No. 1	7
Dispensary, flight surgeon's equip- ment	23½	Range, field, No. 2	8
Dispensary, regimental	21	Sets, harness mender	28
Dispensary, veterinary, large	24	Tools, band repair	11
Dispensary, veterinary, small	25	Tools, blacksmith's, sets No. 1 and No. 2	15
Desk, field, company	32	Tools, carpenter's and wheelwright's, set and kit	16
Desk, field, regimental	33	Tools, cobbler's, kit	12
Gas equipment	19	Tools, electrician's	10
Instruments, band	2	Tools, horseshoer's, set and kit	14
Irons, branding, hoof, set	40	Tools, saddler's, set and kit	13
Kit, flag, combination	3	Typewriter repair set	35
Kit, pistol, cleaning	27	Vehicles	30
Medical equipment	20		
Mimeograph set	34		

NOTE A.—Allowances of articles noted are in addition to quantities provided for issue with vehicles.

NOTE B.—Blacksmith's, carpenter's, and saddler's tools for motorized units are issued as part of contents of loads for special trucks.

NOTE 1.—Chest, commissary, comprises the following:

1 awl, lock-stitch sewing, complete.	3 openers, can.
2 blades, meat saw, 22-inch.	3 pencils, lumber.
1 bolt, stove.	1 pliers, combination.
1 brace, carpenter's.	½ pound rosin.
2 candlesticks, galvanized iron, spiked bot- tom and sides.	1 saw, hand, crosscut.
1 chest, commissary.	1 saw, meat, 22-inch.
1 cleaver, 8-inch, cut.	1 scale, beam.
2 drills, twist.	1 scale, spring balance.
2 faucets, wood, 8-inch.	1 scoop, large.
1 funnel, quart.	1 scoop, small.
1 hammer, claw, and helve.	1 scraper, box.
6 hooks, meat, for racks.	1 screw driver.
1 iron, soldering.	1 shears, tinner's.
1 knife, butcher, 8-inch.	8 sheets, steel, 12 by 12 inches.
1 knife, butcher, 10-inch.	1 pound solder, prepared.
1 measure, liquid, quart.	1 steel, butcher's.
6 needles, packing.	1 tap borer.
1 opener, box.	1 wheel, carborundum, complete.

NOTE 2. (Q)—Band instruments for authorized bands.

a. A set of band instruments and accessories consists of the following:

Band of 28 men.

Instruments (with case or cover):

1 piccolo, D ^b , Boehm	} for 1 man.
2 flutes, Boehm, 1 C, D ^b	
1 clarinet, E ^b , Albert or Boehm.	
6 clarinets, B ^b , Albert or Boehm.	
2 cornets, B ^b (or fluegelhorns, B ^b , in lieu of cornets).	

Instruments—Continued.

4 trumpets, B ^b .
3 French horns (altos for mounted bands).
1 baritone or euphonium.
3 trombones, slide, B ^b .
1 saxophone, alto, E ^b .

*Band of 28 men—Continued.***Instruments—Continued.**

- 1 saxophone, tenor, B^b.
- 1 saxophone, baritone, E^b.
- 1 bass, E^b, upright (helicon for mounted band).
- 1 bass, BB^b, helicon.
- 1 drum, snare for 1 man.
- 1 triangle
- 1 cymbals, pair } for 1 man.
- 1 drum, bass }

Accessories:

- 2 batons, band leader.
- 2 beaters, cymbal, hand.
- 1 beater, drum, bass.
- 1 beater, triangle.
- 1 books, set, "Airs of All Lands," by J. P. Sousa (28 books).
- 1 book, "The Wind Band and its Instruments," by Clappe.
- 6 cans, oil, pocket.
- 56 cards, music, 10-stave, 5 by 7.
- 7 cases, reed, clarinet (6 B^b, 1 E^b).
- 8 cases, reed, saxophone (1 alto, 1 baritone, 1 tenor).

Accessories—Continued.

- 8 cleaners, rod, trombone, slide.
- 7 finishers, reed, clarinet.
- 1 bar, tuning, low pitch, 440-A.
- 1 instructor, clarinet, Langenus (6 books to set).
- 1 muffer and strainer, combination, drum, snare.
- 4 mutes (2 cornet, 2 trombone).
- 1 satchel, music carrying.
- 4 screw drivers, flute or clarinet.
- 2 screw drivers, saxophone.
- 1 sling, drum, bass.
- 1 sling, drum, snare.
- 1 spurs, drum, bass, set (2 to set).
- 1 stand, drum, bass, folding.
- 1 stand, drum, snare, folding.
- 7 trimmers, reed, clarinet (6 B^b, 1 E^b).
- 8 trimmers, reed, saxophone (1 alto, 1 baritone, 1 tenor).
- 1 tucker, spooning, drumhead.

*Band of 36 men.***Instruments (with case or cover):**

- 1 piccolo, D^b, Boehm } for 1 man.
- 1 flute, D^b, Boehm }
- 1 flute, C, Boehm }
- 1 clarinet, E^b, Albert or Boehm.
- 8 clarinets, B^b, Albert or Boehm.
- 2 cornets, B^b (or fluegelhorns, B^b, in lieu of cornets).
- 4 trumpets, B^b.
- 4 French horns (altos for mounted bands).
- 1 baritone.
- 1 euphonium.
- 3 trombones, slide, B^b, or valve.
- 1 saxophone, alto, E^b.
- 1 saxophone, baritone, E^b.

Instruments—Continued.

- 1 saxophone, soprano, B^b.
 - 1 saxophone, tenor, B^b.
 - 1 oboe, conservatory.
 - 1 bassoon, conservatory or heckel.
 - 1 bass, E^b, upright (helicon for mounted band).
 - 2 basses, BB^b, helicon.
 - 1 drum, snare } for 1 man.
 - 1 triangle }
 - 1 cymbals, pair } for 1 man.
 - 1 drum, bass }
- Accessories, as listed in instrumentation for a band of 28 men, plus:
- 1 case, reed, bassoon,
 - 1 case, reed, oboe.

*Band of 40 men.***Instruments (with cases or covers):**

- 1 piccolo, D^b, Boehm } for 1 man.
- 1 flute, C, Boehm }
- 1 flute, D^b, Boehm }
- 1 clarinet, E^b, Albert or Boehm.
- 8 clarinets, B^b, Albert or Boehm.
- 2 cornets, B^b (or 2 fluegelhorns, B^b, in lieu of cornets).
- 4 trumpets, B^b.
- 4 French horns (altos for mounted bands).
- 1 baritone, B^b.
- 1 euphonium.
- 3 trombones, B^b, slide or valve.
- 1 saxophone, alto, E^b.
- 1 saxophone, baritone, E^b.
- 1 saxophone, tenor, B^b.

Instruments—Continued.

- 2 oboes, conservatory.
 - 2 bassoons, conservatory, or Heckel.
 - 2 basses, E^b, upright (helicon for mounted bands).
 - 2 basses, BB^b, helicon.
 - 1 drum, bass } for 1 man.
 - 1 cymbals, pair }
 - 2 drums, snare.
 - 1 triangle (drum accessory).
- Accessories, as listed in instrumentation for a band of 48 men, minus:
- 2 cases, reed, clarinet, alto, E^b.
 - 2 cases, reed, clarinet, bass, B^b.
 - 1 case, reed, sarrusophone, contra-bass, E^b.

Band of 48 men.

Instruments (with cases or covers):

- 1 flute, C, Boehm } for 1 man.
- 1 flute, D^b, Boehm }
- 1 piccolo, D^b, Boehm.
- 2 oboes, conservatory.
- 1 clarinet, E^b, Albert or Boehm.
- 10 clarinets, B^b, Albert or Boehm.
- 2 clarinets, alto, E^b (Boehm only).
- 2 clarinets, bass, B^b (Boehm only).
- 2 bassoons, C, French conservatory, or Heckel.
- 1 saxophone, alto, E^b.
- 1 saxophone, tenor, B^b.
- 1 saxophone, baritone, E^b.
- 4 French horns (altos for mounted bands).
- 4 trumpets, B^b.
- 2 cornets, B^b (or flugelhorns, B^b, in lieu of cornets).
- 1 baritone, B^b (small diameter).
- 1 euphonium (4 valve).
- 8 trombones, B^b (valve or slide).
- 1 trombone, F, slide.
- 2 basses, E^b (4 valves) (helicon for mounted band).
- 2 basses, B^b, helicon.
- 1 sarrusophone, contra-bass, E^b.
- 1 drum, snare } for 1 man.
- 1 triangle }
- 1 drum, bass } for 1 man.
- 1 cymbals, pair }

Accessories:

- 2 batons, band leader.
- 2 beaters, cymbal, hand.
- 1 beater, drum, bass.
- 1 beater, triangle.

b. To each authorized band:

- 1 bells, set, chromatic, complete with case and stand.
- 1 xylophone, chromatic, complete with case and stand.
- 1 set drummer's traps, consisting of one of each of the following:
 - Bawl, cow, with cap.
 - Bell, cow, set of four, with adjustable clamp.
 - Bell, cow, single.
 - Bell, sleigh.
 - Block, wood.
 - Castanet.
 - Cuckoo.

Accessories—Continued.

- 1 book, *The Wind Band and Its Instruments*, by Clappe.
- 1 books, set *Airs of All Lands*, by J. F. Sousa (50 books).
- 12 cans, oil, pocket.
- 100 cards, music, 10 stave, 5 by 7.
- 11 cases, reed, clarinet (10 E^b, 1 E^b).
- 2 cases, reed, clarinet, alto, E^b.
- 2 cases, reed, clarinet, bass, E^b.
- 4 cases, reed, saxophone (1 alto, 1 baritone, 1 soprano, 1 tenor).
- 1 case, reed, saxophone, contra-bass, E^b.
- 2 cleaners, rod, trombone, slide.
- 11 finishers, reed, clarinet.
- 1 bar, tuning, low pitch, 440-A.
- 1 instructor, clarinet, Langens (6 books to set).
- 1 muffler and strainer, combination, drum, snare.
- 6 mutes (2 cornet, 4 trombone).
- 1 satchel, music carrying.
- 4 screw drivers, flute or clarinet.
- 2 screw drivers, saxophone.
- 1 sling, drum, bass.
- 1 sling, drum, snare.
- 1 spurs, drum, bass, set (2 to set).
- 1 stand, drum, bass, folding.
- 1 stand, drum, snare, folding.
- 6 trimmers, reed, clarinet (5 B^b, 1 E^b).
- 4 trimmers, reed, saxophone (1 alto, 1 baritone, 1 soprano, 1 tenor).
- 2 tuckers, spooning, drum head.

- 1 set drummer's traps, consisting of one of each of the following—Continued.

- Cymbal, crash, Chinese.
- Holder, cymbal, crash, with spring.
- Imitation railroad.
- Rattle, adjustable.
- Sticks, slap.
- Tambourine.
- Tom-tom, Chinese.
- Whistle, bird, canary.
- Whistle, locomotive.
- Whistle, steamboat.
- Whistle, exhaust, steam.

c. In addition to the instruments listed above, 1 saxophone (soprano) will be issued to a band of 36 men to be used when marching by the oboe player, and 2 saxophones (soprano) and 1 snare drum to a band of 40 or 48 men, to be used when marching by the 2 oboe players and one bassoon player, respectively; the other bassoon player will play cymbals on the march.

d. The following additional issues are authorized for issue to a mounted band, on approval of the commanding officer:

- 1 tympani, pair, complete.
- 1 harness, tympani, set.
- 1 beaters, tympani, pair.

e. There will be issued to each orchestra in an authorized band, on approval of the commanding officer, the following:

- | | | |
|-----------------|--|------------------------------------|
| 3 violins. | \| | 1 violin bass. |
| 1 viola. | | (Each complete with case and bow.) |
| 1 violin cello. | | |

f. There will be issued to each regimental, coast defense or recruit depot band, where students are attached for instruction, the following additional instruments:

(1) Band of 28 men:

- | | | |
|-------------------------------|--|---|
| 2 cornets, B ^b. | \| | 2 French horns or altos, E ^b . |
| 3 clarinets, B ^b . | | 1 bass, BB ^b or E ^b . |
| 1 piccolo, or flute. | | 1 baritone, and |
| 2 trombones, B ^b . | | |

Instructors for each of these instruments plus instructors for euphonium, saxophone, and instruments of percussion.

(2) Band of 36 men:

- | | | |
|-------------------------------|--|------------------------------|
| 2 cornets, B ^b. | \| | 1 trombone, B ^b . |
| 2 clarinets, B ^b . | | 1 piccolo or flute. |
| 1 oboe. | | 1 bassoon, and |

Instructors for each of these instruments plus instructors for euphonium, saxophone, and instruments of percussion.

(3) Band of 40 men:

- | | | |
|-------------------------------|--|----------------------------------|
| 1 piccolo or flute. | \| | 2 cornets, B ^b . |
| 2 clarinets, B ^b . | | 1 trombone, B ^b , and |

Instructors for each of these instruments plus instructors for euphonium, saxophone, instruments of percussion, oboe, and bassoon.

g. The following instruments are authorized for issue to regiments or detached or separate battalions:

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|---|--|--|
| 6 fifes, B ^b , metal. | | 8 drums, snare, U. S. Field Regulations, complete with sticks, sling, and cover. |
| 1 drum, bass, complete with beater and sling. | | |
| 1 cymbals, pair, 12-inch. | | |

h. Allowance for purchase of music:

- | | | |
|----------------------------|--|--|
| \$45 per quarter per band. | | \$200 initial allowance for new bands. |
|----------------------------|--|--|

i. The following list of expendable supplies is established as an initial allowance, and six months maintenance thereafter for authorized bands. Requisition will not be submitted for a complete replenishment of all items listed, but will be limited to those items actually expended. Commanding officers may approve requisitions for materials in excess of those prescribed, when necessary for the care and preservation of band property.

Article.	Number.	Allowance.
Beater, combination, bass drum and cymbal pedal.....	1	Per bass drum.
Bells, clarinet (state make):		
B ^b	1	Per 3 B ^b clarinets.
E ^b	1	Per E ^b clarinet.
Binders, Fales, for Fales folio, march size.....	12	Per folio.
Buttons, finger, valve stem (state make):		
Alto.....	1	Per alto.
Mellophone.....	1	Per mellophone.
Baritone.....	2	Per baritone.
Euphonium.....	2	Per euphonium.
Bass, BB ^b	3	Per 2 basses, BB ^b .
Bass, E ^b	3	Per 2 basses, E ^b .
Cornet.....	3	Per 2 cornets.
Fluegelhorn.....	3	Per 2 fluegelhorns.

Article.	Number.	Allowance.
Buttons, fingers, valve stem—Continued.		
French horn (piston valve).....	1	Per French horn.
Trombone, valve.....	1	Per trombone.
Trumpet.....	3	Per 2 trumpets.
Caps, mouthpiece:		
Clarinet, B ^b	1	Per 2 clarinets, B ^b .
Clarinet, E ^b	2	Per clarinet, E ^b .
Saxophone.....	1	Per saxophone.
Caps, piston, valve, top.....	(a)	a As required.
Caps, piston, valve, bottom.....	(a)	a As required.
Cement, liquid, tubes.....	6	Per band.
Cement, sticks.....	6	Per band.
Clips, music, large.....	4	Per man.
Clips, music, small.....	3	Per man.
Cork:		
Sheets, 4 by 11.....	4	Per band.
Valve, inside.....	50	Per band.
Valve, outside.....	50	Per band.
Waterkey, assorted sizes.....	60	Per band.
Covers, paper, manila, 12 by 18.....	100	Per band.
Covers, paper, manila, 15 by 25.....	100	Per band.
Crutch, thumb, for flute (Boehm).....	1	Per flute.
Ears, drum, bass.....	12	Per bass drum.
Ears, drum, snare.....	12	Per snare drum.
Folios, Fales, march size, 5½ by 7.....	1	Per man.
Folios, muslin stub:		
5½ by 7.....	1	Per man.
7½ by 11.....	1	Per man.
9½ by 12½.....	1	Per man.
11½ by 14½.....	1	Per man.
Grease, boxes, 1-ounce.....	1	Per 4 men.
Heads, drum, bass, calf (state size).....	6	Per bass drum.
Heads, drum, snare, calf (state size):		
Snare.....	6	Per snare drum.
Batter.....	6	Per snare drum.
Heads, tympani (state size).....	3	Per tympani.
Holder, cymbal, bass-drum attachment.....	1	Per bass drum.
Holder, cymbal, hand, with strap.....	1	Per cymbal.
Hook, belt, snare drum.....	2	Per snare drum.
Hook, plain, counter, hoop, drum, snare or bass.....	6	Per drum, snare or bass.
Hook, roller, counter, hoop, drum, snare or bass.....	12	Per drum, snare or bass.
Hoops:		
Counter, drum, bass (state size).....	2	Per bass drum.
Counter, drum, snare (state size).....	2	Per snare drum.
Flesh, drum, bass (state size).....	2	Per bass drum.
Flesh, drum, snare (state size).....	2	Per snare drum.
Ink, music writing, bottles:		
Pint.....	1	Per band.
2½-ounce.....	2	Per band.
Joints, barrel, clarinet (state make):		
B ^b	1	Per 3 B ^b clarinets.
E ^b	1	Per E ^b clarinet.
Joints, barrel, screw tuning:		
E ^b	1	Per E ^b clarinet.
B ^b	1	Per 5 B ^b clarinets.
Key, drum, snare, end tightening flat.....	1	Per snare drum.
Key, drum, snare, square socket.....	1	Per snare drum.
Keys, water, brass instruments, single or double (state make and kind).....	(a)	a As required.
Laces, Fales folio.....	2	Per folio.
Ligatures:		
Clarinet, B ^b	1	Per 2 clarinets, B ^b .
Clarinet, E ^b	1	Per clarinet, E ^b .
Saxophone, alto.....	1	Per saxophone, alto.
Saxophone, baritone.....	1	Per saxophone, baritone.
Saxophone, soprano.....	1	Per saxophone, soprano.
Saxophone, tenor.....	1	Per saxophone, tenor.
Linen tape, adhesive, rolls.....	12	Per band.
Lyres, brass instrument, silver plated (state make):		
Alto.....	1	Per 2 altos.
French horn.....	1	Per 2 French horns.
Baritone.....	1	Per baritone.
Euphonium.....	1	Per euphonium.
Bass, B ^{bb}	1	Per 2 basses, B ^{bb} .
Bass, E ^b	1	Per 2 basses, E ^b .
Cornet, B ^b	1	Per cornet, B ^b .
Fluegelhorn.....	1	Per fluegelhorn.
Trombone, B ^b , slide, complete with ring.....	2	Per 3 trombones, B ^b , slide.
Trombone, valve.....	1	Per trombone, valve.
Trumpet, B ^b	1	Per 2 trumpets, B ^b .
Lyres, clarinet, complete with adjustable ring:		
B ^b	1	Per 2 clarinets, B ^b .
E ^b	1	Per clarinet, E ^b .

Articles.	Number.	Allowance.
Lyre, bassoon, complete	1	Per bassoon.
Lyre, clarinet, alto, E ^b , complete	1	Per 2 clarinets, alto, E ^b .
Lyre, clarinet, bass, B ^b , complete	1	Per 2 clarinets, bass, B ^b .
Lyre, drum, bass	1	Per drum, bass.
Lyre, drum, snare	1	Per drum, snare.
Lyre, oboe, complete	1	Per oboe.
Lyre, piccolo, underarm, or with wrist strap	1	Per piccolo.
Lyre, sarrusophone	1	Per sarrusophone.
Lyre, saxophone:		
Alto	1	Per saxophone, alto.
Baritone	1	Per saxophone, baritone.
Soprano	1	Per saxophone, soprano.
Tenor	1	Per saxophone, tenor.
Mouthpieces:		
Brass instruments (state make)—		
Alto, E ^b	1	Per 2 altos, E ^b .
Mellophone	1	Per 2 mellophones.
Baritone, B ^b	1	Per baritone, B ^b .
Bass, B ^b	1	Per 2 basses, B ^b .
Bass, E ^b	1	Per 2 basses, E ^b .
Cornet, B ^b	1	Per cornet, B ^b .
Fluegelhorn	1	Per 2 fluegelhorns.
Euphonium	1	Per euphonium.
French horn	1	Per 2 French horns.
Trombone	1	Per 2 trombones.
Trumpets, B ^b	1	Per 2 trumpets.
Clarinets—		
Alto, E ^b (state make)	1	Per 2 clarinets, E ^b .
Bass, B ^b (state make)	1	Per 2 clarinets, bass, B ^b .
Hard rubber (state make)—		
B ^b	1	Per 3 clarinets, B ^b .
E ^b	1	Per clarinet, E ^b .
Saxophone, hard rubber (state make)—		
Alto	1	Per saxophone, alto.
Baritone	1	Per saxophone, baritone.
Soprano	1	Per saxophone, soprano.
Tenor	1	Per saxophone, tenor.
Oil:		
Clarinet, 4-ounce, bottles	1	Per clarinet.
Trombone, No. 1, bottles (2-ounce)	12	Per trombone.
Trombone, No. 2, bottles (2-ounce)	12	Per trombone.
Pads:		
Assorted (clarinet, flute, piccolo, Albert and Meyer systems only)	100	Per band.
Bassoon, sets	1	Per bassoon.
Clarinet, alto, E ^b , Boehm, sets	1	Per clarinet, alto, E ^b .
Clarinet, bass, B ^b , Boehm, sets	1	Per clarinet, bass, B ^b .
Clarinet, E ^b , Boehm, set	1	Per clarinet, E ^b .
Clarinet, E ^b , Boehm, set	1	Per clarinet, E ^b .
Flute, Boehm, set	1	Per flute.
Oboe, conservatory, set	1	Per oboe.
Piccolo, Boehm, set	2	Per piccolo.
Sarrusophone, contra-bass, E ^b , set	2	Per sarrusophone.
Saxophone, set—		
Alto	1	Per saxophone, alto.
Baritone	1	Per saxophone, baritone.
Soprano	1	Per saxophone, soprano.
Tenor	1	Per saxophone, tenor.
Paper:		
Gummed, white, transparent, rolls	12	Per band.
Music writing, oblong, 16 staves, reams	1	Per band.
Music writing, scoring, 24 staves, reams	1	Per band.
Music writing, upright, 14 staves, reams	1	Per band.
Sand, 2 by 4, No. 00, sheets	1	Per man.
Paste, library, tubes or jars	6	Per band.
Pens, music writing, 3-point	36	Per band.
Pens, music, stub, 2-point	36	Per band.
Pliers, flat nose, 4-inch, clarinet and saxophone	1	Per 3 clarinets or 2 saxophones.
Polish, brass instrument, jars or boxes	12	Per band.
Reeds:		
Bassoon	6	Per bassoon.
Clarinets—		
Alto, E ^b	12	Per clarinet, alto, E ^b .
Bass, B ^b	12	Per clarinet, bass, B ^b .
B ^b (state make)	20	Per clarinet, B ^b .
E ^b (state make)	35	Per clarinet, E ^b .
Oboe	6	Per oboe.
Sarrusophone	6	Per sarrusophone.
Saxophone—		
Alto	25	Per saxophone, alto.
Baritone	25	Per saxophone, baritone.
Soprano	25	Per saxophone, soprano.
Tenor	25	Per saxophone, tenor.

Article.	Number.	Allowance
Rests, thumb, with screws, clarinet.....	1	Per 3 clarinets.
Rests, knee, drum, snare.....	2	Per snare drums.
Rings, adjustable, finger:		
Cornet.....	1	Per cornet.
Trumpet.....	1	Per trumpet.
Rings, adjustable, with lyre socket:		
Cornet.....	1	Per cornet.
Trumpet.....	1	Per trumpet.
Rods, thumbscrew, bass drum (state make and size).....	6	Per bass drum.
Rods, thumbscrew, snare drum (state make and size, sizes run from 4 to 20 inches).....	6	Per snare drum.
Rope, drum, bass, 55-foot.....	1	Per bass drum.
Rope, drum, snare, 32-foot.....	1	Per snare drum.
Screws:		
Bassoon, set.....	1	Per bassoon.
Clarinet, alto, Eb, set.....	1	Per 2 clarinets, alto, Eb.
Clarinet, bass, Bb, set.....	1	Per 2 clarinets, bass, Bb.
Clarinet (Albert or Boehm) set—		
Bb.....	2	Per 5 clarinets, Bb.
Eb.....	1	Per clarinet, Eb.
For flat springs, clarinet.....	(e)	(e) As required.
For flat springs, saxophone.....	(e)	(e) As required.
Flute, Boehm, set.....	1	Per flute, Boehm.
Flute, Meyer, set.....	1	Per flute, Meyer.
Oboe, conservatory, set.....	1	Per 2 oboes.
Piccolo, Boehm, set.....	1	Per piccolo, Boehm.
Piccolo, Meyer, set.....	1	Per piccolo, Meyer.
Saxophone, pivot.....	(e)	(e) As required.
Sarrusophone, contra-bass, Eb, set.....	1	Per sarrusophone.
Saxophone, set—		
Alto.....	1	Per saxophone, alto.
Baritone.....	1	Per saxophone, baritone.
Soprano.....	1	Per saxophone, soprano.
Tenor.....	1	Per saxophone, tenor.
Key, water.....	(e)	(e) As required.
Ring, lyre, clarinet.....	3	Per 5 clarinets.
Socket, lyre, saxophone.....	1	Per saxophone.
Shields, collar, celluloid, trombone slide.....	1	Per trombone.
Snare, drum, snare, sets (12 strands to set) (coiled wire, gut, red-braided, or silk wire wound).....	1	Per snare drum.
Socket, lyre, brass instruments, with sustaining flange.....	(e)	(e) As required.
Springs:		
Bassoon, set.....	1	Per bassoon.
Clarinet, alto, Eb, Boehm, set.....	1	Per 2 clarinets, alto, Eb.
Clarinet, bass, Bb, Boehm, set.....	1	Per 2 clarinets, bass, Bb.
Clarinet, Boehm, set—		
Bb.....	1	Per 2 clarinets, Bb, Boehm.
Eb.....	1	Per clarinet, Eb, Boehm.
Clarinet, Albert, set—		
Bb.....	1	Per 5 clarinets, Bb.
Eb.....	1	Per clarinet, Eb.
Flute, Boehm, set.....	1	Per flute, Boehm.
Flute, Meyer, set.....	1	Per flute, Meyer.
Needle, clarinet, assorted.....	1	Per clarinet.
Oboe, set.....	1	Per oboe.
Piccolo, Boehm, or Meyer, set.....	1	Per piccolo.
Saxophone, set—		
Alto.....	1	Per saxophone, alto.
Baritone.....	1	Per saxophone, baritone.
Soprano.....	1	Per saxophone, soprano.
Tenor.....	1	Per saxophone, tenor.
Valve sets (3 to set)—		
Alto.....	1	Per alto.
Mellophone.....	1	Per mellophone.
Baritone (small bore).....	1	Per baritone.
Bass, BBb.....	1	Per bass, BBb.
Bass, Eb.....	1	Per bass, Eb.
Cornet.....	1	Per 2 cornets.
Flugelhorn.....	1	Per 2 flugelhorns.
Euphonium.....	1	Per euphonium.
French horn (piston valve).....	1	Per 2 French horns.
Trombone, valve or tenor.....	1	Per 2 trombones.
Trumpet.....	1	Per trumpet.
Waterkey, assorted (state make).....	1	Per 2 instruments.
Sticks, drum, snare (snakewood, ebony, or hickory), pair.....	1	Per snare drum.
Strainer, drum, snare, long model.....	1	Per snare drum.
Strainer, drum, snare, short model.....	1	Per snare drum.
Straps, carrying:		
Alto clarinet.....	1	Per clarinet, alto.
Bass clarinet.....	1	Per clarinet, bass.
Baritone.....	1	Per baritone.
Bass, Eb, upright.....	1	Per bass, Eb, upright.

Article.	Number.	Allowance.
Straps, carrying—Continued.		
Saxophone.....	1	Per saxophone.
Sarrusophone.....	1	Per sarrusophone.
Stubs, muslin, march size (12 cuttings to stub).....	1	Per folio.
Swabs:		
Bassoon.....	1	Per bassoon.
Clarinet.....	1	Per clarinet.
Clarinet, alto.....	1	Per 2 clarinets, alto.
Clarinets, bass.....	1	Per 2 clarinets, bass.
Flute.....	1	Per flute.
Oboe.....	1	Per oboe.
Piccolo.....	1	Per piccolo.
Washers, valve, felt, assorted sizes.....	2	Per instrument, brass.
Wipers or cleaners, valve.....	1	Per 2 instruments, brass.

NOTE 3.—Kit, flag, combination, comprises the following:

1 case, canvas.	2 flags, semaphore, standard, or 2 flags, semaphore artillery, to artillery organizations.
1 flag, red, white square.	1 staff, 3 joint.
1 flag, white, red square.	2 staffs, semaphore.

NOTE 4.—Outfit, marking, model 1910, for stamping leather, contains the following:

Chest.	Figures, 1 to 8.
Dies, stamping, for marking leather, set.	Letters, A to Z, period, and comma.

When organizations are issued this equipment as part of the tools and accessories for a vehicle, an additional outfit will not be supplied.

NOTE 5.—Outfit, marking, model 1910, for stamping metal, contains the following:

Anvil.	Letters, A to Z, etc., period, and comma.
Chest.	Mallet.
Dies, stamping, for marking metals, etc.	Punch, perforating, for equipment tags.
Figures, 1 to 8.	Screw, thumb.
Guides Nos. 1, 2, 3, and 4.	

When organizations are issued this equipment as part of the tools and accessories for a vehicle, an additional outfit will not be supplied.

NOTE 6.—Outfit, reloading, comprises the following:

1 machine, decapping and resizing, for caliber .30, gallery-practice cartridge.	1 machine, priming and bullet-seating, for caliber .30 gallery-practice cartridge.
Components:	Components:
Decapping punch.	Bullet-seating punch.
Resizing die (bottom).	Indexing pawl.
Resizing die (top).	Indexing plate.
1 machine, powder-charging, for caliber .30 gallery-practice cartridge.	Locking plunger.
Components:	Primer-seating punch.
Indexing plate.	Spring, for indexing pawl.
Indexing pawl.	Spring, for locking plunger.
Locking plunger.	6 cartridge drums and plates.
Spring, for indexing pawl.	Graphite, flake, 2½ pounds.
Spring, for locking plunger.	

In addition, there are issued for each company as initial allowance 50 loaded gallery-practice cartridges, caliber, .30, for United States rifle, model 1903 or model 1917, per soldier having gallery practice.

Components for reloading, including molded bullets in quantity sufficient to provide maximum allowance of 500 rounds per year per man firing, and replacements of cartridge cases at the rate of 20 per cent per annum.

NOTE 7.—Range, field, No. 1, complete, consists of the following:

1 Alamo attachment (2 pieces).	3 knives, butcher, 8-inch.
6 boilers.	2 pans, bake.
1 cleaver, 6-inch.	1 pipe, smoke, elbow.
1 dipper, $\frac{1}{2}$ -gallon.	4 pipes, smoke, joints.
1 dipper, quart.	4 rests, pan.
1 field range (1 body and 1 boiling plate).	1 saw, meat, 15-inch blade.
2 forks, small.	1 skimmer, large.
1 grinder, meat.	2 spoons, large.
1 guard, tent, 6 $\frac{1}{2}$ -inch.	1 steel, butcher's 10-inch.

NOTE 8.—Range, field, No. 2, complete, consists of the following:

2 boilers.	1 pipe, smoke, elbow.
1 dipper, $\frac{1}{2}$ -gallon.	4 pipes, smoke, joints.
1 field range (1 body and 1 boiling plate).	2 rests, pan.
2 forks, meat, small.	1 saw, meat, 15-inch blade.
1 guard, tent.	1 skimmer, small.
2 knives, butcher, 8-inch.	2 spoons, small.
2 pans, bake.	1 steel, butcher's, 10-inch.

NOTE 9.—Outfit, shoe repair.

A complete shoe-repairing outfit for the use of regiments and of battalions not forming a part of a regiment consists of a shoe-nailing machine (shoe-stitching machines may be issued until the supply now on hand is exhausted), and shoe findings as follows:

For use with nailer:	1,400 pairs lifts, top heel, best grade, sizes 6, 7, 8, 9, 10, 11, and 12 (200 pairs each).
1 awl, narrow, sewing, and handle for repairing uppers.	100 pounds nails, 5 $\frac{1}{2}$ -8.
1 awl, peg, and handle, for hand-driven nails.	25 pounds nails, 6-8.
5 blades, awl, extra, for sewing awl.	100 pounds nails, 6-8, No. 13 gauge, heel.
3 blades, extra, for peg awl.	1 pair nippers, cutting, 6 inches, for cutting off heel slugs.
100 bristles, for upper stitching.	3 pounds patches, cut, one-half russet and one-half retanned cowhide.
1 quart cement.	1 pair pincers, 8 inches, for removing top heel lifts.
12 sheets cloth, emery, No. 1.	2 rasps, 8 inches, double-faced, for smoothing edge of soles and heels.
12 sheets cloth, emery, No. 00.	2 screw drivers, for removing worn heel lifts.
Cotton, spool, for patchwork, No. 24.	1 shaver, heel, No. 3, O. E. D., with 2 extra blades.
1 sheet filler, oil felt, for filling between wetting undersole.	$\frac{3}{4}$ pound thread, 4-cord, for stitching.
1,000 pairs half soles, best leather, standard weight, sizes 6, 7, 8, 9, and 10 (200 pairs each).	4 ounces wax.
1 hammer, cobbler's, size No. 3.	
1 jack, iron cobbling, lap design.	
3 knives, shoe, Nos. 1, 2, and 3, for trimming edges.	
100 blocks leather, sole, 8 $\frac{1}{4}$ by 12 $\frac{1}{2}$ inches, best grade for larger size shoes.	

The shoe findings for use with shoe-stitching machines are the same as with nailer, omitting the "100 pounds 5 $\frac{1}{2}$ -8 nails and the 25 pounds 6-8 nails," and substituting therefor the following:

50 awls, stitchee.	10 pounds nails, 4 $\frac{1}{2}$ -8, holdfast.
10 gross ends, hand sewed.	10 pounds nails, 5-8, holdfast.
150 needles, stitchee.	4 pounds thread, sole, 9-cord linen, for hob-bins.
$\frac{1}{2}$ gallon oil, stitchee.	12 pounds thread, sole, 10-cord linen.
25 pounds nails, heel, 8-8.	1 gallon wax, liquid.
50 pounds nails, hob.	

Requisitions should call for repair materials as needed to meet requirements. All of the above to be packed in suitable boxes.

NOTE 10.—Tools, electrician's.

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|---|---|
| <ul style="list-style-type: none"> 1 auger, ship, $\frac{1}{2}$ inch. 5 bits, auger, 1 each $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, and 1 inch. 2 bits, bell hanger, 1 each, $\frac{1}{2}$ inch and $\frac{3}{4}$ inch, 18 inches in length. 1 brace, 10-inch sweep. 1 brace, extension, 2-foot. 1 chest, M. 1921. 1 chisel, cold, $\frac{3}{4}$ by 8 inches. 2 chisels, wood, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 chisel, wrecking, $1\frac{1}{2}$ inches by 12 inches. 2 coppers, soldering, slim, $\frac{1}{2}$ pound and 1 pound. 1 drill, hand, chuck capacity, 0 to $\frac{1}{4}$ inch, length approximately 12 inches, with wood-boring drills, $\frac{1}{8}$ inch to $\frac{1}{2}$ inch, in handle. 1 drill, Star, $\frac{3}{4}$ by 8 inches. 1 file, flat, smooth, 8 inches. 1 file, round, bastard, 10 inches. 1 file, saw, slim, taper, 6 inches. 1 frame, hacksaw, adjustable, 8 to 12 inch blades. | <ul style="list-style-type: none"> 1 hammer, claw, 1 pound. 3 handles, file. 2 handles, for solder coppers. 1 knife, 2-blade pocketknife. 1 pliers, diagonal, 6 inches. 1 pliers, gas, 6 inches. 1 pliers, side cutting, 6 inches. 1 rule, 4-foot, 8-fold. 1 saw, compass, 12 inches. 1 saw, hand, 26 inches. 2 screw drivers, 2 inches and 8 inches. 1 tool roll, combination for pliers, saws, files, etc. 1 tool roll, for bits. 1 torch, blow, gasoline, 1 pint. 1 wrench, pipe, 10 inches. 1 wrench, screw, monkey, 10 inches. <p style="margin-left: 2em;">Supplies: To be issued in chest.</p> <ul style="list-style-type: none"> 12 blades, hacksaw, 10 inches. 1 coil solder. $\frac{1}{2}$ pound friction tape. $\frac{1}{2}$ pound rubber insulation tape. |
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NOTE 11.—Tools, band repair, set, comprises the following:

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| <ul style="list-style-type: none"> 1 blowpipe, metal. 1 package borax, powdered (1 ounce in package). 1 sheet cloth, emery, or sandpaper. 1 file, flat, tapered, $10\frac{1}{2}$ inches long, with handle. 1 file, round, tapered, $8\frac{1}{2}$ inches, with handle. 1 file, 3 cornered, tapered, 10 inches long, with handle. 1 lamp, alcohol, Lambert, No. 10, with rubber blowing tube. | <ul style="list-style-type: none"> 1 mallet, wooden, small. 1 pair pliers, flat, side-cutting, 4-inch. 1 pair pliers, round nose, 4-inch. 1 punch, center. 1 screw driver. 1 tube solderall, ready to use. 1 vise, Parker, No. 16. 1 coil wire, solder, silver. <p style="margin-left: 2em;">All of which are contained in a substantial fiber case.</p> |
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Pocket wallet, repair kit, comprises the following:

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| <ul style="list-style-type: none"> 1 adjuster, needle spring. 2 strips cork. 1 lamp, alcohol, round, small, 2 inches high and $\frac{3}{4}$ inch through. 1 pair pliers, flat nose, 4-inch. | <ul style="list-style-type: none"> 1 screw driver, small. 1 set pads, clarinet. 1 piece shellac. 2 sets springs, clarinet. |
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NOTE 12.—Tools, cobbler's kit, comprises the following:

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|---|---|
| <ul style="list-style-type: none"> 6 blades, pegging awl. 6 blades, sewing awl. 100 pairs half soles, assorted sizes. 1 hammer, shoemaker's. 1 handle, pegging awl. 1 handle, sewing awl. 1 knife, shoemaker's. 10 pounds leather, sole. 100 pairs lifts, heel. 5 pounds nails, cobbler, 4/8. 5 pounds, nails, cobbler, 5/8. 8 pounds nails, heel, 6/8. | <ul style="list-style-type: none"> 1 pound nails, heel, 8/8. 2 packages needles, shoemaker's (12 to package). 1 nipper, peg. 1 shaver, O. E. D. 1 pound patches, for uppers. 1 rasp, shoemaker's. 1 stand, iron, with three lasts. 1 ball thread, shoe. 1 ball wax, shoemaker's. 1 wrench, for awl. |
|---|---|

NOTE 13.—Tools, saddler's, set and kit, comprise the following:

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|---|---|
| <p>1 awl, pegging.
 1 awl, scratch.
 1 awl, seat, handled.
 12 blades, awl, harness, square shank 2 inches, assorted, sizes 43 to 49, inclusive.
 2 blades, extra, with followers, for draw gauge.
 1 carriage, pricking, 3 wheels.
 1 case needles, leather:
 Sacking, assorted, 12.
 Glovers, No. 3, 1 paper.
 Harness, No. 4, 2 papers.
 Harness, No. 5, 2 papers.
 Harness, No. 6, 2 papers.
 1 chest, saddler's, M. 1921.
 1 clamp, stitching, to fit socket in chest.
 1 compass, 6 inches.
 1 creaser, double, lignum-vitæ.
 2 dividers, 6-inch wing.
 2 edge hammer tools, 1 round, 1 square.
 1 gauge, draw, brass, with 3 blades.
 2 hafts, awl with wrench.
 1 hammer, ball pein, $\frac{3}{4}$-pound.
 1 hammer, riveting, $\frac{3}{4}$-pound.
 1 handle, peg awl, with wrench.
 1 kit, tool, canvas, 18 inches, model 1921.</p> | <p>1 knife, saddler's, round, broad point.
 1 knife, shoe, broad point.
 1 knife, shoe, square point.
 1 nippers, end cutting, 14-inch.
 1 palm, sewing, leather.
 1 pliers, saddler's flat nose, 6-inch.
 1 punch, revolving, 6 tubes, Nos. 1 to 6.
 1 punch, 1-inch.
 4 punches, hand, round:
 1 No. 5.
 1 No. 7.
 1 No. 8.
 1 No. 10.
 1 rule, steel, 3-foot, 6-fold.
 1 screw driver, 3-inch blade, 8 inches over all.
 1 set, rivet, No. 9.
 1 shears, bent, 10-inch trimmers.
 1 shoe, square point.
 1 slicker, steel.
 1 stone, oil, mounted, 8 by 2 by 1 inch.
 2 thimbles, saddler's.
 1 tool, claw.
 2 tools, edge, No. 1 and No. 2.</p> |
|---|---|

NOTE.—1 knife, splitting, may be added for garrison use when directed by C. O.

From the above set will be taken the Saddler's Kit, which consists of the following articles to be carried in canvas tool kit by the saddler on the march:

- | | |
|--|---|
| <p>12 blades, awl, harness, assorted.
 1 awl, pegging.
 1 awl, seat, handled.
 1 edge trimmer tool, round.</p> | <p>1 hammer, riveting.
 1 knife, saddler's, round.
 1 punch, revolving.
 1 set, rivet, No. 9.</p> |
|--|---|

The saddler's chest and contents are carried in the battery wagon in animal-drawn artillery.

NOTE 14.—Tools, horseshoer's set.

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|---|--|
| <p>1 anvil, 40 pounds (carried outside of model 1921 chest).
 NOTE.—100-pound anvil may be issued by authority of the local commanding officer for Equipment B.
 1 apron, leather, blacksmiths'.
 2 bags, canvas, for nails.
 1 chest, tool.
 NOTE.—Model 1921, except when issued to pack outfits; substitute empire chest, model 1916, with canvas tool roll, model 1920.
 1 chisel, handled, for cold iron, 1 pound 4 ounces.
 1 creaser, steel handled.
 1 cutter, clinch, 6-inch (buffer).
 1 file, flat, 12-inch, second cut.
 1 file, taper, three-cornered, 8-inch.
 1 forge, portable, complete, including fire rake and shovel.
 1 hammer, shoemaker's, 1 pound 4 ounces.
 1 hammer, shoeing, 10-ounce.
 2 handles, cold chisel, spare.
 1 handle, $\frac{3}{4}$-inch shank, straight bit.</p> | <p>1 iron, clinching.
 1 kit, tool, canvas, 18-inch, model 1921.
 2 knives, horseshoeing, $\frac{5}{8}$ and $\frac{3}{4}$ inch.
 1 nippers, cutting, 14-inch.
 1 pincers, shoeing, 14-inch.
 1 pritchel, $\frac{5}{8}$ inch hex. by 12 inches.
 2 rasps, shoeing, 16-inch.
 1 rule, steel, 3-foot, 6-fold.
 1 tongs, horseshoer's, 14-inch.
 1 vise, clamp base, 2$\frac{1}{2}$-inch jaws.
 1 wrench, screw, monkey, 8-inch.
 1 whetstone, horseshoer's, 10-inch.
 NOTE.—From the foregoing set will be taken the following articles, to be carried in canvas tool kit by the horseshoer on the march:
 1 cutter, clinch, 6-inch (buffer).
 1 hammer, shoeing, 10-ounce.
 1 nippers, cutting, 14-inch.
 1 knife, shoeing.
 1 rasp, shoeing, 16-inch.
 1 pincers, shoeing, 14-inch.</p> |
|---|--|

NOTE 15.—Tools, blacksmith's set, No. 1, comprises the following (for all branches except Air Service and Motor Transport Corps):

1 anvil, 100 pounds (not in chest),
 2 aprons, blacksmith's.
 2 bags, canvas, for nails.
 5 bits, stock drill, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$.
 1 caliper, outside, 8-inch.
 1 chest, tool, blacksmith's, model 1921.
 1 chisel, cold, steel, 8 by $\frac{3}{4}$ inch.
 1 chisel, handled, for cold iron, 1-inch cutter.
 1 creaser, steel, handled.
 1 chisel, handled, for hot iron, 1 $\frac{1}{2}$ -inch cutter.
 1 drill, breast, chuck capacity from 0 to $\frac{1}{2}$ inch.
 Drills, twist, straight shank, $\frac{1}{2}$ to 1 inch by 16ths.
 1 divider, extension, 8-inch.
 1 file, flat bastard, 12-inch.
 1 flatter, handled, 2-inch, square face.
 1 forge, portable, complete, including fire rake and shovel.
 1 fuller, bottom, $\frac{3}{4}$ -inch.
 1 fuller, handled, top, $\frac{3}{4}$ -inch.
 1 hammer, ball pein, 1 pound 4 ounces.
 1 hammer, blacksmith's, hand, 2 pounds.
 1 hammer, riveting, 1 pound 2 ounces.
 1 hammer, shoeing, 10 ounces.
 3 handles, file, wood.
 1 hardie, $\frac{3}{4}$ -inch, square shank.
 1 iron, clinching.

Tools, blacksmith's set No. 2 (for Air Service and Motor Transport Service, Q. M. C.):

1 anvil, 100 pounds.
 2 aprons, blacksmith's.
 2 bags, coal, 2 bushel.
 1 brace, ratchet, 10-inch sweep.
 1 chest, tool, blacksmith's, model 1921.
 1 chisel, cold, 8 by $\frac{3}{4}$ inches.
 1 chisel, handle, cold, 1-inch.
 1 chisel, handle, hot, 1 $\frac{1}{2}$ -inch.
 1 caliper, outside, 8-inch.
 1 clippers, bolt, cut bolts up to $\frac{1}{2}$ inch.
 1 drill, drift.
 1 drill, post, with No. 2 Morse taper in spindle.
 Drills, twist, bit stock, $\frac{1}{2}$ to $\frac{3}{4}$ inch by 32ds, $\frac{1}{2}$ to $\frac{3}{4}$ by 16ths, set.
 Drills, twist, $\frac{1}{2}$ to $\frac{3}{4}$ by 6ths, taper shank, set.
 Drills, twist, $\frac{1}{2}$ to 1 inch by 16ths, No. 2 Morse taper shank, set.
 1 divider, extension, 8-inch.
 1 file, flat, smooth, 12-inch.
 1 file, flat, bastard, 12-inch.
 1 file, half-round, bastard, 12-inch.
 1 forge, portable, complete, including fire rake and shovel.
 1 hammer, ball pein, 1 $\frac{1}{2}$ pounds.
 1 hammer, ball pein, 2 pounds.
 1 hammer, claw, 1 pound.
 1 hammer, riveting, 9-ounce.
 3 handles, file, wood.
 1 hardie, $\frac{3}{4}$ square shank, 1 $\frac{1}{2}$ -inch bit.

1 kit, blacksmith's, canvas, 18-inch.
 1 knife, tce.
 2 knives, shoeing.
 1 nippers, horseshoe, end cutting, 14-inch.
 1 oiler (expandable), approximately $\frac{1}{2}$ pint.
 1 pliers, shoeing, 14-inch.
 1 plate, screw, taps and dies with tap wrench in box:
 set $\frac{1}{2}$ to $\frac{3}{4}$ by 10ths.
 set $\frac{1}{2}$ to 1 inch by 10ths, U. S. standard thread.
 1 pritchel, $\frac{1}{2}$ -inch hex., 12 inches long.
 1 punch, handled, round, $\frac{1}{2}$ -inch.
 1 punch, handled, round, $\frac{3}{4}$ -inch.
 1 punch, square, minimum size, $\frac{1}{2}$ -inch.
 1 rasp, shoeing, 10-inch.
 1 rule, steel, 3-foot, 6-fold.
 5 sets, rivet, $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$ inch.
 1 sledge, cross pein, 10 pounds.
 1 square, steel, 12 by 8 inches.
 1 tongs, horseshoer's, 14-inch.
 1 tongs, for $\frac{1}{2}$ -inch iron, double pick up.
 1 tongs, for $\frac{1}{2}$ -inch iron, double pick up.
 1 vise, blacksmith's, box leg, 5-inch jaw (not in chest).
 1 whetstone, horseshoer's, 10-inch.
 1 wrench, screw, monkey, 12-inch.

1 knife, draw, 8-inch blade.
 1 oiler (expandable), approximately $\frac{1}{2}$ pint.
 1 punch, center, 7 inches long.
 1 punch, round, $\frac{1}{2}$ to $\frac{3}{4}$ inch by 8ths, set.
 1 punch, square, $\frac{1}{2}$ to $\frac{3}{4}$ inch by 8ths, set.
 1 rule, steel, 3-foot, 6-fold.
 1 saw, crosscut, 24-inch.
 1 saw, frame, hack, extension.
 1 screw driver, 6-inch blade.
 1 screw driver, 8-inch blade.
 1 screw plate for bolts, chest including taps and dies with tap wrench $\frac{1}{2}$ to $\frac{3}{4}$ -inch U. S. S., set.
 1 sledge, 10 pounds, cross pein.
 1 square, steel, 12 by 8 inches.
 1 tongs, bolt bowed lip, 22 inches.
 1 tongs, gad, 20 inches.
 1 tongs, pick-up, 22 inches.
 1 tongs, straight lip, 18 inches.
 1 vise, blacksmith's, box leg, 5-inch jaw.
 1 wrench, monkey, 21 inches.
 1 wrench, monkey, 12 inches.
 1 wrench, Stillson, 24 inches.
 1 wrench, Stillson, 12 inches.
 (Supplies for one month.)
 1 dozen blades, hacksaw, 10-inch, 18 teeth.
 3 pounds compound, welding.
 12 bushels coal, blacksmith's.
 3 each handles, chisel, hot, 18-inch.
 2 each handles, hammer, claw.

- | | |
|--|--|
| 4 each handles, hammer, machinist's ball
pein, 14-inch. | 12 feet soft steel, $\frac{1}{4}$ by 1 inch. |
| 1 each handles, sledge, 36-inch. | 12 feet soft steel, $\frac{1}{2}$ by 1 $\frac{1}{2}$ inches. |
| 5 pounds nails, wire, standard, 6d. | 12 feet soft steel, $\frac{3}{8}$ by 1 $\frac{1}{2}$ inches. |
| 5 pounds nails, wire, standard, 10d. | 12 feet soft steel, $\frac{1}{2}$ by 2 inches. |
| 2 pounds nuts, U. S. standard, $\frac{1}{2}$ -inch. | 12 feet soft steel, $\frac{3}{8}$ -inch, round. |
| 5 pounds nuts, U. S. standard, $\frac{3}{4}$ -inch. | 24 feet soft steel, $\frac{1}{2}$ -inch, round. |
| 5 pounds nuts, U. S. standard, $\frac{1}{2}$ -inch. | 24 feet soft steel, $\frac{3}{8}$ -inch, round. |
| 5 pounds nuts, U. S. standard, $\frac{3}{4}$ -inch. | 12 feet soft steel, $\frac{1}{2}$ -inch, round. |
| 2 pounds nuts, U. S. standard, $\frac{1}{2}$ -inch. | 12 feet soft steel, $\frac{3}{8}$ -inch, round. |
| 2 pounds nuts, U. S. standard, $\frac{3}{4}$ -inch. | 6 feet steel, tool, $\frac{1}{2}$ -inch, octagon. |
| 2 pounds nuts, U. S. standard, 1-inch. | 6 feet steel, tool, $\frac{3}{4}$ -inch, octagon. |
| 1 quart oil, machine. | |

NOTE 16.—Tools, carpenter's and wheelwright's, set and kit.

- | | |
|---|--|
| 6 bits, auger, sizes: $\frac{1}{2}$, $\frac{3}{4}$, 1 , $1\frac{1}{2}$, 2 , and 1 inch. | 1 nail set. |
| 1 bit, wood, countersink. | 1 oiler, $\frac{1}{2}$ pint (expendable)—(Supplies). |
| 1 bit, expansion, 1 cutter $\frac{1}{2}$ to 1 $\frac{1}{2}$ inches
and 1 cutter 1 $\frac{1}{2}$ to 3 inches. | 1 plane, jack, wood. |
| 1 bit, screw driver, $\frac{1}{2}$ -inch. | 1 plane, smooth, 1 $\frac{1}{2}$ -inch bit. |
| 1 brace, ratchet, 10-inch sweep. | 1 plier, side-cutting. |
| 1 chalk line, 100-foot. | 1 plumb bob and line (1-pound bob), (iron). |
| 1 chest, model 1921. | 1 rasp, wood, 10-inch. |
| 1 chisel, cold, $\frac{1}{2}$ -inch. | 1 roll, canvas, for bits and files. |
| 8 chisels, socket, framing, $\frac{1}{2}$, 1, 1 $\frac{1}{2}$ inches,
with handles. | 1 roll, canvas, for chisels. |
| 1 dividers, wing, 10-inch. | 1 rule, boxwood, 2-foot, 4-fold. |
| 2 drills, twist, sizes $\frac{1}{2}$, $\frac{3}{4}$ inch. | 1 saw, compass, 3 blades, 8, 10, 12 inch. |
| 1 file, flat, bastard, 10-inch. | 1 saw, crosscut, 26-inch. |
| 3 files, saw, slim, taper. | 1 saw, rip, 26-inch. |
| 1 gauge, marking, carpenter's. | 1 saw set. |
| 1 hammer, claw, adz eye, 16-ounce. | 2 screw drivers, 1 each 3 and 8 inches. |
| 2 handles, file, wood. | 1 square, 18 by 12 inches, solid. |
| 1 hatchet. | 1 square, combination, 12-inch. |
| 1 kit, canvas, for carrying small tools, 18-
inch. | 1 spokeshave, 1 blade each, straight and
hollow. |
| 1 knife, draw, 10-inch, folding handles. | 1 tape measure, 50-foot. |
| 1 level, 26-inch. | 1 wrecking bar, 24-inch goose neck. |
| 1 mallet, wood, 8 $\frac{1}{2}$ by 5 $\frac{1}{2}$ inches. | 1 wrench, screw (monkey), 10-inch. |
| | 1 stone, 8-inch (mounted in box with cover),
for sharpening edge tools. |

NOTE.—Carpenter's kit contains such tools taken from the above as are appropriate.

Supplies to be issued with chest and tools:

- 3 pieces chalk, blue.
- $\frac{1}{2}$ pint oil (in expendable oiler), light.
- 3 pencils, carpenter's.

NOTE 17.—Pin, poles, stoves, etc., for tents.

The following table shows the number of pins, poles, and stoves (when prescribed) for each kind of tent:

Kind of tent.	Pins.			Poles.							Stoves.					
	Large.	Small.	Shelter.	Pyramidal and tripods.	Ridge, jointed.	Ridge, regulation.	Ridge, tropical.	Shelter tent.	Upright, regulation.	Upright, small.	Shields, galvanized iron.	Stoves, regulation.	Stovepipe elbows.	Stovepipe joints.	Spark arrester.	Hoed, G. I.
Pyramidal.....	23	28	10	1								1		5	1	1
Shelter.....								2								
Storage and fly.....	44	38			1				3	8	1			7	1	
Wall, large, and fly.....	18	26			1			2		1	1	2		1	1	
Wall, small, and fly.....	22	18					1	2		1	1	2	6	1	1	

NOTE 18.—Chest, arm repair, model 1910, for United States rifle, caliber .30, model 1903, comprises the following:

TOOLS.

- 1 anvil.
- 1 awl, eyelet, for putting eyelets in belt.
- 8 drifts, assorted.
- 1 drift, No. 3.
- 1 drift, No. 4.
- 1 extractor, bullet jacket.
- 1 file, 6-inch hand.
- 1 file, 6-inch, round.
- 1 file, 6-inch, 3-cornered.
- 1 hammer, brass.
- 1 hammer, steel.
- 3 handles, for files.
- 1 handle, tool, containing 10 tools.
- 1 oiler, with cap.
- 1 pliers, flat nose.
- 1 pliers, chain nose, 5.75 over all.
- 1 saw, crosscut, with detachable handle.
- 1 screw driver, No. 1.
- 1 screw driver, No. 1.
- 1 set, eyelet.
- 1 set, No. 1.
- 1 tool, for assembling safety lock on sleeve.
- 1 vise, 1.25 pounds.

CLEANING MATERIAL.

- 2 pints cosmic.
- 250 patches cotton flannel, cut.
- 250 patches, Tampa flannel, cut.
- 3 pints sperm oil.

SPARE PARTS (RIFLE).

- 2 bases, movable.
- 2 bolts, with extractor collars, assembled.
- 2 catches, bayonet.
- 2 catches, floor plate.
- 10 covers, front sight (appendages to rifle).
- 5 ejectors.
- 4 extractors.
- 2 leaves.

SPARE PARTS (RIFLE)—continued.

- 3 locks, safety, complete, each consisting of:
 - 1 piece, safety lock thumb.
 - 1 plunger, safety lock.
 - 1 spindle, safety lock.
 - 1 spring, safety lock.
- 2 mainsprings.
- 15 pieces, cocking and firing-pin rods, assembled.
- 5 pins, ejector.
- 2 pins, floor plate.
- 5 pins, front sight.
- 10 pins, slide cap.
- 5 plungers, cut-off.
- 2 screws, cut-off.
- 2 screws, lower band.
- 5 screws, slide binding.
- 5 screws, slide cap.
- 2 screws, stacking swivel.
- 2 screws, windage, assembled.
- 5 sights, front.
- 3 sleeves, assembled.
- 6 slides, and slide caps, assembled.
- 6 slides, drift.
- 2 springs, base.
- 2 springs, bayonet.
- 5 springs, cut-off.
- 2 springs, floor plate.
- 15 strikers.
- 1 swivel, stacking.

TOOLS FOR REPAIRING SNAP FASTENERS.

- 1 anvil, for snap-fastener body.
- 1 anvil, for snap-fastener stud.
- 1 stud set.

For shoes.

- 2 quarts oil, neat's-foot.

TOOLS FOR REPAIRING SNAP FASTENERS—
continued.*For belts.*

50 eyelets.
50 washers, for eyelets.

SPARE PARTS (PISTOL).

2 extractors.
1 mainspring.
2 screws, stock.

Chest, arm repair, model 1917, for United States rifle, caliber .30, model 1917, comprises the following:

TOOLS.

1 anvil.
1 awl, eyelet, for putting eyelets in belts.
1 brace.
1 brace screw driver, flat, .25.
1 brace screw driver, flat, .312.
1 brace screw driver, flat, .400.
1 drift, No. 3.
1 drift, No. 5.
1 drift, No. 7.
1 extractor, bullet jacket.
1 extractor, ruptured cartridge.
1 file, 6-inch, hand.
1 file, 6-inch, round.
1 file, 6-inch, 3 cornered.
1 hammer, brass.
1 hammer, steel.
1 handle, detachable, for saw.
3 handles, for files.
1 handle, tool, containing 10 tools.
1 mallet, with cap.
1 pliers, flat nose.
1 pliers, round nose.
1 saw, crosscut.
1 screw driver, hand, flat.
1 screw driver, rear sight joint bolt.
1 screw driver, straddle, hand (bayonet catch thumb piece).
1 screw driver, straddle, hand (stock bolt nut).
1 screw driver, straddle, hand (R. S. J. bolt nut).
1 set, eyelet.
1 set, for expanding the ends of swivel screw.
1 tool, for adjusting front sight.
1 vise, 1.25 pounds.

SPARE PARTS FOR UNITED STATES RIFLE.

2 bolts, with extractor collars, assembled.
4 catches, floor plate.
15 ejectors.
8 extractors.
5 holders, safety lock.
5 locks, safety.
5 mainsprings.

SPARE PARTS (PISTOL)—continued.

2 springs, firing pin.
2 springs, recoil.
2 springs, sear.

TOOLS FOR CLEANING PISTOL.

10 brushes, thong.
10 rods, cleaning.
10 screw drivers.

SPARE PARTS FOR UNITED STATES RIFLE—
continued.

10 pieces, cocking.
4 pins, floor plate.
5 plungers, safety lock.
12 rests, bolt stop spring.
4 screws, bolt stop.
5 screws, safety lock holder.
20 screws, swivel.
4 sights, rear, assembled, each consisting of—
 1 catch, slide.
 1 pin.
 1 screw, stop.
 1 slide, 1 leaf.
 1 spring.
5 sleeves.
4 springs, bolt stop.
4 springs, floor plate.
4 springs, rear sight, base.
5 springs, safety lock plunger.
2 stops, bolt.
30 strikers.
4 swivels, lower band.
4 swivels, stacking.

SPARE PARTS FOR BAYONET.

4 catches, bayonet.
4 pieces, bayonet catch spring.
4 springs, bayonet catch.

CLEANING MATERIAL.

2 pints cosmic.
500 patches cotton flannel, cut.
6 pints oil, sperm.
500 patches Tampa flannel, cut.

TOOLS FOR REPAIRING SNAP FASTENERS.

1 anvil, for snap fastener body.
1 anvil, for snap fastener stud.
1 stud set.

For belts.

100 eyelets.
100 washers, for eyelets.

NOTE 19.—Gas equipment.—Gas equipment is issued only in time of war, or similar emergency, except such articles as are authorized by the War Department from time to time for training purposes.

Equipment A.

Antidim, small tube.....	(a)	Issued with every mask and contained in haversack.
Antigas gloves.....	(a)	Issued to 10 per cent of infantry, and ammunition train, and all artillery. To other troops when directed by C. G. in field.
Antigas suits.....	(a)	Issued to 5 per cent of infantry and to 45 per cent of artillery; to other troops when directed by C. G. in field.
Alarm devices.....	(a)	5 per company of combatant troops, 2 per company of noncombatant troops. When directed by C. G. in field.
Canister, extra.....	(a)	5 per cent additional for number of masks issued.
Chloride of lime.....	(a)	When directed by C. G. in field, 100 pounds per company of infantry, artillery, and ammunition trains, and to other units when service conditions require.
Gas masks.....	(a)	To each enlisted man in theater of active operations.
Glycerine, 2-ounce can.....	(a)	1 per squad of combatant troops, when temperature falls below freezing.
Pigeon bags, antigas.....	(a)	1 bag for each pigeon in front line organizations, when directed by C. G. in field.
Respirator, horse or mule.....	(a)	1 per mule or horse in exposed area.

NOTE 20.—Medical equipment.—Medical Department detachments with tactical commands include all Medical Department personnel (medical, dental, and veterinary) with such organizations. The equipment of such detachments includes technical and nontechnical items. The technical items, which pertain to the detachment as a Medical Department organization, include medical, dental, and veterinary equipment. Medical and dental equipment is that required to operate a dispensary for the command and which in combat will constitute its aid station. Each regiment will have one regimental dispensary equipment and in addition a battalion dispensary equipment for each battalion forming a part of the regiment. Independent battalions will have one battalion dispensary equipment. Independent organizations smaller than a battalion will have one company dispensary equipment. Dispensary equipment for tactical commands are complete units as listed. Each dispensary unit will have, for each dental officer serving with the organization, one dispensary dental equipment complete as listed. Each dispensary unit applicable to Air Service commands having one or more flight surgeons assigned, will have, in addition, one dispensary flight surgeon's equipment complete as listed. Veterinary equipment for tactical commands is that required to operate a veterinary dispensary, large, or a veterinary dispensary, small. One veterinary dispensary equipment, large, as listed, will constitute the veterinary equipment of the Medical Department detachment of each mounted regiment. One veterinary dispensary equipment, small, as listed, will constitute the veterinary equipment of the Medical Department detachment of each dismounted regiment or smaller tactical organization, mounted or dismounted, to which veterinary personnel are assigned.

NOTE 20½.—Dispensary equipment.—Complete dispensary equipments itemized below include nontechnical articles listed in Tables II and III in addition to the technical Medical Department items. These nontechnical articles, marked with an asterisk, are shown in this note in order to indicate the method of packing the complete equipment in containers. The items marked with an asterisk, therefore, are not additional to those authorized elsewhere in Tables of Basic Allowances.

NOTE 21.—Regimental dispensary equipment.

No. 1 Chest (weight 83 pounds, volume ½ cubic feet.)

20 bandages, muslin, 5 inches by 5 yards.	12 syringe, penis, h. r.
30 bandages, muslin, 3 inches by 5 yards.	6 Thermometers, clinical.
12 bandages, triangular.	1 tongue depressor, metal.
11 front-line packets No. 1.	6 towels, hand (M. D. S.).
22 front-line packets No. 2.	2 tins, alcohol, ethyl, 3-pint.
7 front-line packets No. 3.	6 tins, foot powder, ½-pint (par. 902, M. M. D.).
6 bags, rubber, hot water.	2 bottles, acid acetylsalicylic, 324 mgm. tablets, 500 in bottle.
2 bags, rubber, hot water and syringe.	1 tube, ethyl chloride, U. S. P., 3 ounces.
12 dozen boxes, ointment, impervious, 3 in nest.	12 boxes, iodine swabs, 6 in box (M. D. S.).
½ gross, boxes, folding for tablets.	50 tubes, iodine and potassium iodide (M. D. S.).
1 graduate, 60 c. c., aluminum.	2 bottles, licorice compound, mixture of tablets, 500 in bottle.
1 medicine glass, in wooden case.	1 bottle, liquor cresol solution compound, U. S. P., 1 quart.
2 gross, pins, safety, assorted.	1 tin, magnesium sulphate, 4 pound.
* 3 papers, pins, common (Q).	1 bottle, mercuric chloride tablets, anti-septic, 250 in bottle (par. 902, M. M. D.).
8 spools, plaster, adhesive, 2½ inches by 5 yards s. o.	2 bottles, mercurous chloride ointment, 1 pound.
1 soap box, metal.	1 bottle, pill, cathartic compound, U. S. P., 500 in bottle.
* 2 cakes, soap, hand (Q).	3 tubes, procaine (novocaine equivalent) 50 mgm., hypodermic tablets.
2 spoons, tea, s. p. (M. D. S.).	3 bottles, protargol or equivalent, 1 ounce.
1 stethoscope.	6 bottles, troches of ammonium chloride, U. S. P., 250 in bottle.
1 hone, oil, Arkansas stone in wooden box (M. D. S.).	
1 syringe, hypodermic, complete (par. 956 M. M. D.).	
1 syringe, Luer type, 10 c. c.	
12 syringe, Luer type, needles for, 1½ inches long, No. 23 B. & S. syringe.	
24 syringe, hypodermic, needles for.	

No. 2 Chest (weight 10½ pounds, volume ½ cubic feet.)

* 6 tins, coffee extract, 4 ounces (Q).	* 9 flashlights, extra bulbs for (Q).
* 12 cans, milk, evaporated, 1 pound (Q).	* 18 flashlights, extra batteries for (Q).
* 12 cans, soup, concentrated, assorted, 1 pound (Q).	* 4 pounds candles (Q).
2 tins, sugar, white, 4-pounds in screw-cap tin.	* 12 boxes, matches, safety (Q).
* 4 brushes, scrubbing (Q).	* 2 tins, oil, mineral, 3-pint (Q).
* 9 flashlights, with bulb and battery (Q).	* 6 rolls, paper, toilet (Q).
1 bottle, oil of turpentine, U. S. P., 1 pound.	* 3 pounds soap, issue (Q).
	* 1 stretcher, shoe (Q).

No. 3 Chest (weight 65 pounds, volume ½ cubic feet.)

* 1 bag, water, sterilizing, with cover (Q).	* 2 tins, lye, 1-pound (Q).
* 1 brush, marking (Q).	* 1 pot, marking (Q).
* 1 tin, lampblack, 12-ounce (Q).	* 100 feet rope, manila, ½-inch (Q).
* 3 lanterns, complete with globe and wick (Q).	* 1 tool, universal (Q).
* 6 lanterns, extra globes for (Q).	* 1 ball twine, coarse (Q).
* 12 lanterns, extra wicks for (Q).	* 12 tubes powder, hypochlorite of lime (Q).

No. 4 Case—canvas bedding case (weight 126 pounds, volume 6.6 cubic feet).

10 blankets, gray (M. D. S.).
2 blankets, rubber (M. D. S.).

* 1 paulin, small (Q).

*No. 5 *Desk, field, regimental (Q) (weight 115 pounds, volume 7 cubic feet).*

(Field desk No. 1, par. 940 M. M. D., issued until exhausted.)

Additional on wagon (weight 235 pounds, volume 12 cubic feet):

- * 1 ax, with helve (Q).
- * 2 buckets, galvanized iron (Q).
- 6 litters, with slings.
- * 2 pounds nails, horseshoe (Q).
- * 1 paulin, small (Q).
- * 1 pickax, with helve (Q).
- * 1 saw, crosscut (Q).
- * 18 pounds, shoe, horse and mule (Q).

Additional on wagon (weight 235 pounds, volume 12 cubic feet)—Continued.

- * 2 shovels, short handle (Q).
- * 1 kit, tool, carpenter (Q).
- On wagon or trailer (weight 230 pounds, volume 14 cubic feet).
- 1 field litter carrier.
- On R. and B. wagon:
- * 1 range, field, No. 1 (Q).

NOTE 22.—Battalion dispensary equipment.

No. 1 Chest (weight 66 pounds, volume 4 cubic feet).

50 front line packets, No. 2.
20 front line packets, No. 3.
* 6 papers, pins, common (Q).
2 gross, pins, safety, assorted.

24 spools, plaster, adhesive, z. o. 2½ inches by 5 yards.
4 dozen, towels, hand, M. D. S.

No. 2 Chest (weight 63 pounds, volume 4 cubic feet).

50 individual dressing packets.
48 packages, cotton, absorbent, sterilized, 1 ounce in package.
3 rolls, cotton, absorbent, 1 pound in roll.
4 rolls, cotton batting, 1 pound in roll.

48 packages, gauze, plain, sterilized, 2½-yard lengths in package.
25 front line packets, No. 1.
4 rolls, plaster, adhesive, z. o. 12 inches by 5 yards.

No. 3 Chest (weight 93 pounds, volume 4 cubic feet).

4 tubes, atropine sulphate, U. S. P., 0.65-mgm. hypodermic tablets.
3 tins, chloroform, for anesthesia, ¼-pound.
5 tubes, epinephrine hydrochloride, 1-mgm. hypodermic tablets.
3 tins, ether, U. S. P., ¼-pound.
4 tins, foot powder, ¼-pound (par. 902 M. M. D.).
100 boxes, iodine swabs, 6 in box (M. D. S.).
100 tubes, iodine and potassium iodide (M. D. S.).
2 tins, magnesium sulphate, U. S. P., 4-pound.
20 tubes, morphine sulphate, U. S. P., 8-mgm. hypodermic tablets.

6 tubes, nitroglycerin, U. S. P., 0.65-mgm. hypodermic tablets.
4 cakes, paraffin wax.
10 tubes, strychnine sulphate, U. S. P., 1-mgm. hypodermic tablets.
12 dozen, bandages, muslin, 3 inches by 5 yards.
1 bag, corks, Nos. 1 and 2 (100 of each).
1 gross, labels, for vials.
* 2 tubes, photo paste (Q).
4 dozen, vials, 1-ounce.
4 dozen, vials, 2-ounce.
1 tube, ethyl chloride, U. S. P., 3-ounce.

No. 4 Chest (weight 97 pounds, volume 4 cubic feet).

2 bottles, acid acetylsalicylic, 324-mgm. tablets, 500 in bottle.
2 tins, alcohol, ethyl, 3-pint.
6 bottles, liquor cresol solution, compound, 1-quart.
6 bottles, licorice compound, mixture of, tablets, 500 in bottle.
1 bottle, mercuric chloride tablets, antiseptic, 250 in bottle (par. 902 M. M. D.).
2 bottles, mercurous chloride ointment, 1-pound.
1 bottle, oil, castor, 1-quart.

6 bottles, pills, cathartic compound, U. S. P., 500 in bottle.
6 bottles, protargol, or equivalent, 1-ounce.
2 bottles, quinine sulphate, U. S. P., 200-mgm. tablets, 500 in bottle.
6 bottles, troches of ammonium chloride, U. S. P., 250 in bottle.
1 gross, bandages, gauze, compressed, 3 sizes.
6 dozen, bandages, muslin, 5 inches by 5 yards.
24 bandages, triangular.

No. 5 Chest (weight 82 pounds, volume 4 cubic feet).

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| <ul style="list-style-type: none"> 2 aprons, rubber. 6 bags, rubber, hot-water. 2 bags, rubber, hot water and syringe. 2 bandages, rubber, Marfin. 2 basins, hand, rubber. 3 basins, hand, w. e., 2½-quart. 1 gross, boxes, folding, for tablets. 1 burner, gasoline, laboratory, Vesuvius. 4 brushes, hand, fiber (M. D. S.). 2 brushes, camel-hair, 3-inch. 1 case, forceps, hemostatic (par. 915 M. M. D.). 1 case, operating, small (par. 922 M. M. D.). 8 catheters, urethral, rubber, Nos. 14, 16, 18, 22, F., hollow tip (2 of each size). 2 clippers, hair, E. & S. No. 1. 2 corkscrews, folding. 4 cups, enamel ware. 12 eyeshades, single. 8 front line packets, No. 1. 6 front line packets, No. 2. 5 front line packets, No. 3. 1 mortar and pestle, porcelain, 7-cm. 2 scissors, bandage, 7½-inch. * 2 cakes, soap, hand (Q). 1 soap box, metal. 48 tubes, sutures, catgut, chromicized, sterilized 18-inch lengths, sizes 0, 1, 2, 3 (1 suture in tube), 12 of each size. | <ul style="list-style-type: none"> 48 tubes, sutures, catgut, plain, sterilized, 18-inch lengths, sizes 0, 1, 2, 3 (1 suture in tube), 12 of each size. 12 packages, sutures, silk, 3 sizes in package, sizes 4, 7, 10, 18-inch lengths. 3 cards, sutures, silk, braided, size 14. 1 coll. sutures, silkworm gut (100 sutures in coll). 1 syringe, hypodermic, complete (par. 956 M. M. D.). 24 syringe, hypodermic, needles for. 2 syringes, Luer type, 10 c. c. 24 syringe, Luer type, needles for, 1½ inches long, No. 23, B. & S. gauge. 12 syringes, penis h. r. 2 spoons, tea, s. p. (M. D. S.). 1 graduate, aluminum, 60 c. c. 12 pairs, gloves, rubber, heavy, sizes 7½ and 8½, in pouch. 1 inhaler, metal, Yankauer mask. 1 instrument boiler, small. * 8 boxes, matches, safety (Q). 1 medicine glass, in wooden case. 2 stethoscopes. 1 hone, oil, Arkansas stone, in wooden box (M. D. S.). 2 tongue depressors, metal. 12 rolls, wire gauze, for splints. 6 thermometers, clinical. |
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No. 6 Chest (weight 95 pounds, volume 4 cubic feet).

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| <ul style="list-style-type: none"> * 6 cans, coffee, extract, 4-ounce (Q). * 12 cans, milk, evaporated, 1-pound (Q). * 12 cans, soup, concentrated, assorted, 1-pound (Q). 2 tins, sugar, white, 4 pounds, in screw-cap tin. 1 gross, boxes, ointment, impervious, 3 in nest. * 4 brushes, scrubbing (Q). | <ul style="list-style-type: none"> * 2 pounds, candles (Q). * 5 flashlights, with bulb and battery (Q). * 5 flashlights, extra bulbs for (Q). * 10 flashlights, extra batteries for (Q). * 1 tin, lye, 1-pound (Q). * 3 pounds, soap, issue (Q). * 2 rolls, toilet paper (Q). * 2 tins, oil, mineral, 3-pint (Q). |
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No. 7 Chest (weight 65 pounds, volume 4 cubic feet).

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| <ul style="list-style-type: none"> * 1 bag, water, sterilizing, with cover (Q). * 12 tubes, powder, hypochlorite of lime (Q). * 3 lanterns, complete, with globes and wicks (Q). | <ul style="list-style-type: none"> * 6 lanterns, extra globes for (Q). * 12 lanterns, extra wicks for (Q). * 100 feet, rope, manila, ¼-inch (Q). * 1 tool, universal (Q). * 1 ball twine, coarse (Q). |
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No. 8 Case—canvas bedding case (weight 126 pounds, volume 6.6 cubic feet).

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| <ul style="list-style-type: none"> 10 blankets, gray (M. D. S.). 2 blankets, rubber (M. D. S.). | <ul style="list-style-type: none"> * 1 paulin, small (Q). |
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No. 9 Case—canvas bedding case (weight 126 pounds, volume 6.6 cubic feet).

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|---|--|
| <ul style="list-style-type: none"> 10 blankets, gray (M. D. S.). 2 blankets, rubber (M. D. S.). | <ul style="list-style-type: none"> * 1 paulin, small (Q). |
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No. 10. Bundle (weight 59 pounds, volume 6.2 cubic feet).

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| <ul style="list-style-type: none"> 6 straps, adjustable traction. 3 hand and wrist splints. 6 straps, and buckles, 1½ inches by 3 feet. 6 splints, hinged, modification of Thomas arm. | <ul style="list-style-type: none"> 6 splints, hinged, half-ring, modification of Thomas leg. 10 wire foot supports. 6 splints, wire ladder. * 50 nails, 8-penny (Q). |
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No. 11 *Desk, field, company (Q) (weight 35 pounds, volume 1.2 cubic feet).*

(Field desk, No. 2, par. 941, M. M. D., issued until exhausted.)

Additional on wagon (weight 295 pounds, volume 19 cubic feet):

- * 1 ax, with helve (Q).
- * 2 buckets, galvanized-iron (Q).
- 12 litters, hand, with slings.
- * 2 pounds, nails, horseshoe (Q).
- * 1 pickax, with helve (Q).
- * 1 saw, crosscut (Q).
- * 18 pounds, shoes, horse and mule (Q).

Additional on wagon (weight 295 pounds, volume 19 cubic feet)—Continued.

- * 2 shovels, short-handle (Q).
 - * 1 kit, tool, carpenter (Q).
 - 6 stretcher bars, fig. 28, M. S. & A., 1918.
- On wagon or trailer (weight 230 pounds, volume 14 cubic feet):
- 1 field litter carrier.

NOTE 23.—Company dispensary equipment.

No. 1 Chest (par. 932, M. M. D.) (weight 110 pounds, volume 4 cubic feet.)

Including in addition:

- * 1 pound, candles (Q).
- * 3 flashlights, with bulbs and batteries (Q).
- * 3 flashlights, extra bulbs for (Q).
- * 3 flashlights, extra batteries for (Q).
- * 1 roll, paper, toilet (Q).

No. 2 *Desk, field, company (Q) (weight 35 pounds, volume 1.2 cubic feet.)*

(Field Desk No. 2, par. 941, M. M. D., issued until exhausted.)

NOTE 23½.—Dispensary flight surgeon's equipment. *See Cir. 16/1922*

No. 1 Chest (weight 35 pounds, volume 1.2 cubic feet.)

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| <ul style="list-style-type: none"> 2 tubes, homatropine hydrobromide, U. S. P., 0.260-mgm., ophthalmic disks. 2 tubes, physostigmine salicylate, U. S. P., 0.0325-mgm., ophthalmic disks. * 1 tape measure, linen, 2-meters long (Q). 1 bag, Politzer. 1 case, ear, nose, and throat (par. 912, M. M. D.). | <ul style="list-style-type: none"> 1 retinoscope-ophthalmoscope, combination, electric. 2 retinoscope-ophthalmoscope, combination, electric, extra lamps for. 2 retinoscope-ophthalmoscope, combination, electric, extra batteries for. 1 sphygmomanometer, Faught, aneroid. 1 tuning fork, 6½-inch, with clamps. 1 vision-test set (par. 939 M. M. D.). |
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NOTE 24.—Veterinary dispensary equipment, large.

Nos. 1 and 2 Chest (each—weight 42 pounds, volume 1.5 cubic feet).

(Two chests No. 1—old "veterinary officer's field chest" modified.)

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|--|--|
| <ul style="list-style-type: none"> 1 bottle, acid, boric, U. S. P., 1-pound. 1 tube, adrenalin and cocaine, hypodermic tablet, veterinary, 10 in tube. 1 tin, alcohol, ethyl, U. S. P., 1-quart. 2 boxes, ammonium carbonate, U. S. P., 4-gram compressed tablet, 4 in ball, 6 balls in box. 3 tubes, arecoline hydrobromide, 32-mgm. Hypodermic tablet, veterinary, 10 in tube. 2 boxes, aloin compound, capsules, 12 in box (par. 902, M. M. D.). 1 tube, chloral hydrate, U. S. P., 4-gram compressed tablet, 4 in ball, 6 balls in fiber tube. 50 tubes, iodine and potassium iodide (M. D. S.). 10 tubes, lead acetate compound, compressed tablet, 10 in tube. 2 bottles, mercuric chloride, tablets, anti-septic (par. 902, M. M. D.). 1 tube, nitroglycerine, U. S. P., 6.5-mgm. tablet, 10 in tube. 1 tin, petrolatum, U. S. P., 1-pound. | <ul style="list-style-type: none"> 5 tubes, strychnine sulphate, U. S. P., 32-mgm. hypodermic tablet, veterinary, 10 in tube. 48 bandages, muslin, compressed, 3 inches by 5 yards. 1 case, hypodermic syringe, veterinary (par. 973, M. M. D.). 1 case, hypodermic tablets, veterinary. 1 case, pocket, veterinary, in canvas case (par. 971-a, M. M. D.). 1 catheter, rubber, "American," size 20. 1 catheter, stylet for. 28 packages, cotton, absorbent, 1-ounce, in compressed package, sterilized. 1 dental float, handle for. 1 dental float, angular. 1 dental float, straight. 2 dental floats, file blade for, universal to fit standard floats. 2 dental floats, rasp blade for, universal to fit standard floats. 12 packages gauze, plain, sterilized, 2 half-yard lengths in package. 1 graduate, 60-c. c., aluminum. |
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Nos. 1 and 2 Chest—Continued.

2 packages oakum, $\frac{1}{2}$ -pound, surgical.	2 thermometers, clinical, veterinary, in case.
1 pill tile, 4-inch, metal.	2 towels, hand (M. D. S.).
1 dozen pins, safety.	1 tube, rubber, stomach, outside diameter $\frac{3}{4}$ inch, bore $\frac{1}{2}$ inch, length 10 feet.
1 pump combination, continuous flow.	1 tube, rubber, stomach, stylet for, veterinary.
* 1 cake, soap, hand (Q).	1 tube, trachea, self-retaining, 1 inch diameter, plain.
1 spatula, 6-inch.	* 1 ball, twine, coarse (Q).
1 package, sutures, tape, sterilized, 18-inch, 2 pieces in package.	1 vial, 2-ounce, empty, labeled Tr. Iodine, with rubber stopper, in case.
3 skeins, sutures, linen tape, merzon, in skein.	
1 syringe, ear, 60-c. c., all metal, with metal shield, issued with one extra dose nozzle for veterinary use, Pomeroy.	

Nos. 3 to 6 (incl.) Chest (each—weight 28 pounds, volume 1 cubic foot).

(For chests No. 2—old "veterinary field unit chest" modified.)

1 bottle, acid, boric, U. S. P., 1-pound.	1 bottle, liquor cresol solution, compound, U. S. P., 1-quart.
1 tin, alcohol, ethyl, U. S. P., 1-quart.	1 pound oakum, $\frac{1}{2}$ -pound surgical.
2 boxes, ammonium carbonate, U. S. P., 4-gram compressed tablet, 4 in ball, 6 balls in box.	1 tin, petrolatum, U. S. P., 1-pound.
100 bandages, muslin, compressed, 3 inches by 5 yards.	2 boxes, aloin compound, capsules, 12 in box (par. 902, M. M. D.).
3 tubes, chloral hydrate, U. S. P., 4-gram compressed tablet, 4 in ball, 6 balls in fiber tube.	5 tubes, lead acetate compound, compressed tablet, 10 in tube.
32 packages, cotton, absorbent, 1-ounce, in compressed package, sterilized.	* 3 cakes, soap, hand (Q).
12 packages, gauze, plain, sterilized, 2 half-yard lengths in package.	1 spool, sutures, silk, size 15, braided.
50 tubes, iodine and potassium iodide (M. D. S.).	2 thermometers, clinical, veterinary, in case.
	2 towels, hand (M. D. S.).
	1 tray, instrument, w. e.
	1 vial, 2-ounce, empty, labeled Tr. Iodine, with rubber stopper, in case.

No. 7. * Desk, field, regimental (Q) (weight 115 pounds, volume 7 cubic feet).

(Field desk No. 1, par. 940, M. M. D., issued until exhausted.)

No. 8. * Desk, field, company (Q) (weight 55 pounds, volume 1.2 cubic feet).

(Field desk No. 2, par. 941, M. M. D., issued until exhausted.)

No. 9. Chest (weight 39 pounds, volume $\frac{1}{2}$ cubic feet).

* 4 brushes, scrubbing (Q).	* 36 pounds shoes, horse and mule (Q).
* 4 flashlights, with bulb and battery (Q).	* 3 pounds nails, horseshoe (Q).
* 3 lanterns, complete with globes and wicks (Q).	Additional on wagon (weight 90 pounds, volume 7.6 cubic feet):
* 6 lanterns, extra globes for (Q).	* 1 ax, with helve (Q).
* 12 lanterns, extra wicks for (Q).	* 6 buckets, galvanized iron (Q).
* 1 tin, lye, 1-pound (Q).	* 1 fork, stable (Q).
* 6 boxes matches, safety (Q).	* 1 paulin, small (Q).
* 2 tins, oil, mineral, 3-pint (Q).	* 1 pickax, with helve (Q).
* 100 feet rope, manila, $\frac{1}{4}$ -inch.	* 1 rake, steel (Q).
* 1 tool, universal (Q).	* 1 shovel, short handle (Q).

NOTE 25.—Veterinary dispensary equipment, small.

No. 1 Chest (weight $\frac{1}{2}$ pounds, volume 1.5 cubic feet).

(For description and contents, see Chest 1, Note 1-f.)

Nos. 2 and 3 Chest (each, weight 28 pounds, volume 1 cubic foot).

(For description and contents, see Chest 3, Note 1-f.)

No. 4 * Desk, field, company (Q) (weight 35 pounds, volume 1.2 cubic feet).

(Field Desk No. 2, par. 941, M. M. D., issued until exhausted.)

No. 5 Chest (weight 52 pounds, volume 4 cubic feet).

- * 2 brushes, scrubbing (Q).
 - * 2 flashlights, with bulb and battery (Q).
 - * 2 lanterns, with globes and wicks (Q).
 - * 4 lanterns, extra globes for (Q).
 - * 8 lanterns, extra wicks for (Q).
 - * 4 boxes matches, safety (Q).
 - * 2 tins oil, mineral, 3-pint (Q).
 - * 100 feet rope, manila, 3/4-inch (Q).
 - * 1 tool, universal (Q).
 - * 15 pounds shoes, horse and mule (Q).
 - * 1 pound nails, horseshoe (Q).
- Additional on wagon (weight 70 pounds, volume 7 cubic feet):
- * 1 ax, with helve (Q).
 - * 3 buckets, galvanized iron (Q).
 - * 1 fork, stable (Q).
 - * 1 paulin, small (Q).
 - * 1 pickax, with helve (Q).
 - * 1 shovel, short handle (Q).

NOTE 26.—Dispensary dental equipment.

No. 1 Chest (weight 45 pounds, volume 1.4 cubic feet).

- 1 engine, dental, all cord, with K4 attachment, for H. P. No. 7.
- 1 engine, dental, H. P. No. 7; straight, for slip joint, No. 2.
- 1 engine, dental, H. P. "M"; contraangle, for slip joint No. 2.
- * 1 bottle, engine, dental, lubricating oil for, 1-ounce (Q).
- 3 engine, dental, all cord, cords for.

No. 2 Chest (weight, 95 pounds, volume 2.6 cubic feet).

1 chair, portable, dental, with foot rest.

No. 3 Chest (weight 71 pounds, volume 3.2 cubic feet).

- 1 bottle, alcohol, ethyl, U. S. P., 1-quart.
- 6 tubes, cocaine hydrochloride, U. S. P., 10-mgm. hypodermic tablets, 20 in tube.
- 1 bottle, iodine, U. S. P., crystals, 1/4-pound.
- 1 jug, mercury, U. S. P., redistilled, 4-ounce.
- 6 tubes, procaine-suprarenin tablets, 20 in tube.
- * 1 book, blank, 8vo. 150 pages (Q).
- * 25 envelopes, official, letter (Q).
- * 50 sheets, paper, writing, letter (Q).
- * 1 pencil, indelible (Q).
- * 2 pencils, lead (Q).
- * 1 penholder (Q).
- * 12 pens, steel (Q).
- 1 copy, Manual for the Medical Department.
- 1 copy, Field Service Regulations.
- 1 pad, report of dental work, Form No. 57.
- 4 bottles, alloy.
- 2 basins, rubber.
- 1 blower, chip and hot-air syringe, No. 38, S. S. W. type.
- 1 brush, hand, fiber (M. D. S.).
- 5 boxes, brushes, tooth polishing, straight, mounted, for H. P. No. 7, 12 in box.
- 1 burner, gasoline, laboratory, Vesuvius.
- 3 burnishers, L. H., Nos. 29, 32, 34S.
- 30 burs, Nos. 557, 558, 559, 560, 568, for H. P. "M"; fissure, dentate (6 of each).
- 24 burs, Nos. 34, 35, 37, 39, for H. P. "M"; inverted cone (6 of each).
- 30 burs, Nos. 2, 4, 6, 8, 9, for H. P. "M"; round (6 of each).
- 30 burs, Nos. 557, 558, 559, 560, 568, for H. P. No. 7, fissure dentate (6 of each).
- 24 burs, Nos. 34, 35, 37, 39, for H. P. No. 7, inverted cone (6 of each).
- 6 burs, Nos. 200, 202, 221, for H. P. No. 7, plug finishing (2 of each).
- 30 burs, Nos. 2, 4, 6, 8, 9, for H. P. No. 7, round (6 of each).
- 1 case, office preparation, with 8 1/2 ounces, square g. s. bottles, filled as follows: 1 eugenol, 1 phenol, 1 formaldehyde, 25 per cent; ammonium hydroxide, 28 per cent; 2 empty.
- 1 box, cement, germicidal.
- 2 boxes, cement, pearl gray, oxyphosphate, crown and bridge.
- 1 chamols skin (Q).
- 2 chisels, Buckley, Nos. 2 and 3, root amputation, Cleve-Dent.
- 1 inlet, plugging, metal case, No. 15 S. S. W. type.
- 6 mandrels, No. 303, for H. P. No. 7.
- 6 mandrels, No. 303, for H. P. "M."
- 2 mandrels, Morgan-Maxfield, for H. P. No. 7.
- 1 mechanical dam, automaton.
- 2 mirrors, mouth, Nos. 52 and 53 S. S. W. type.
- 4 mirrors, mouth, Nos. 52 and 53 S. S. W. type, extra glasses for (2 of each).
- 1 mortar and pestle, glass, Caulk.
- 2 boxes, napkins, dental, aseptic.
- 2 pliers, dressing No. 2.
- 1 pliers, office, smooth beak, No. 122.
- 1 pliers, round nose, No. 107.
- 2 pluggers, Woodson's, Nos. 1 and 2.
- 1 plugger, Ladmore, No. 3, plastic double end.
- 2 pluggers, root canal, Nos. 7 and 9, Kerr.
- 24 points, Nos. 183, 187, 220, 234, for H. P. No. 7, carborundum, medlum grit, mounted, L. S. S. Co. type (6 of each).

No. 3 Chest—Continued.

- 2 boxes, points, aseptic, absorbent, 100 in box.
- 3 boxes, points, root canal, Nos. 6, 8, 10, gutta-percha, pink, round, S. S. W. type.
- 1 pot, Dappen, green, medicine, glass.
- 1 pot, Dappen, white, medicine, glass.
- 1 probe, silver, telescoping, in metal case, S. S. W. type.
- 1 tin, pumice, powdered, fine flour, 1-pound.
- 2 packages, reamers, root canal, "B", No. 13, tapered, Kerr (6 in package).
- 2 packages, reamers, root canal, "D", No. 11, tapered, Kerr (6 in package).
- 1 retainer, matrix, ivory, No. 1.
- 2 packages, retainers, matrix, bicuspid, and molar, bands for, ivory, No. 1 (1 of each).
- 1 tin, rubber dam, medium, 18 feet in roll, 5 inches wide.
- 1 sheet, rubber, red, for pressure anesthesia, vulcanite.
- 3 saws, ribbon, 3-inch wide, thin.
- 4 scalers, L. H., Nos. 3, 6, 33, 34.
- 1 scissors, enucleation, full curved, wide blade, screw lock.
- * 1 shears, 8-inch (Q).
- 1 slab, glass, No. 6, mixing, Caulk type.
- * 2 cakes, soap, hand (Q).
- 1 spatula, cement, No. 24, steel handle, S. S. W. type.
- 1 spoon, tea, s. p. (M. D. S.).
- 1 syringe, hypodermic, Fischer type, complete.
- 3 chisels, L. H. Nos. 5, 19, 20.
- 2 packages cotton, absorbent, 1 ounce in package.
- 6 packages cleaners, No. 2, root canal, S. S. W. type.
- 1 corkscrew, folding.
- 2 curettes, Nos. 24 and 25.
- 1 cuspidor, aluminum, 3-inch depth, Weber.
- 1 box, disks, paper, assorted grits and sizes, 525 in box.
- 6 drills, No. 100, for H. P. No. 7.
- 1 elevator, dull edges, septum, submucous, Freer.
- 1 elevator, Lacluse, No. 1, metal handle.
- 2 elevators, Winter's, Nos. 122 and 123, metal handle, Cleve-Lent type.
- 9 excavators, L. H. Nos. 45, 57, 58, 65, 69, 70, 75, 76, 83, Black's cutting instrument.
- 3 explorers, L. H. Nos. 5, 11, 12, S. S. W. type.
- 9 forceps, tooth-extracting, Nos. 15, 18R, 18L, 27, 65, 103, 150, 151, 210.
- 1 spool, floss, silk, flat, waxed, 150 yards, in glass container.
- 2 boxes, gutta-percha, high heat, stopping.
- 2 boxes, gutta-percha, temporary, stopping, assorted, pink and white.
- 1 holder, for cotton, Methot's.
- 1 holder, for mercury, No. 2, S. S. W. type, ebony or boxwood.
- 2 holders, for nerve broach, No. 2, S. S. W. type.
- 1 hone, oil, Arkansas stone, in hinged box.
- * 1 box, ink, black, powder or tablets (Q).
- 1 knife, operating, 14-inch blade.
- 1 lamp, alcohol, Capitol, No. 21, S. S. W. type.
- 6 lamps, alcohol, Capitol, No. 21, wicks for.
- 24 syringe, hypodermic, needles for straight and curved, standard thread, 24 gauge, 3-inch length (12 of each).
- 4 syringe, hypodermic, Shimmel needles for, 26 gauge, 1 and 1½ inch, for conductive anesthesia, iridium platinum (2 of each).
- 2 syringe, hypodermic, long and short hubs for, for Shimmel needles.
- 12 syringe, hypodermic, extra washers for, tin.
- 1 syringe, water, Moffat, No. 21A.
- 1 syringe, water, curved points for Moffat, No. 21A.
- 1 box, strips, celluloid, thin, 100 in box.
- 3 boxes, strips, polishing, fine, medium, and coarse grit, assorted widths.
- 1 thermometer, clinical.
- * 1 tool, universal (Q).
- 12 towels, hand (M. D. S.).
- 2 tumblers, w. e.
- 4 wheels, carborundum, Nos. 301, 302, 304, 305 engine, medium grit, square edge.
- 1 bundle, wood, orange, sticks, medium, 25 in bundle.

NOTE 27.—Kit, pistol cleaning, comprises the following:

- | | |
|---------------------------|---------------------------|
| 10 brushes, thong. | 10 rods, cleaning, brass. |
| 1 can, oil. | 10 screw drivers. |
| 1 grease pot, for cosmic. | |

NOTE 28.—Set, harness mender, comprises the following:

- | | |
|-------------------------|--|
| 5 blades, awl, harness. | ½ pound rivets and burrs, copper, No. 8. |
| 1 box. | 1 set, rivet. |
| 1 handle, awl. | 2 ounces thread, harness. |
| 6 needles, harness. | 1 ounce wax, saddlers'. |
| 1 punch, rivet, No. 5. | |

NOTE 29.—Battalion officer's mess equipment, to be carried in fiber case:

- | | |
|--|--|
| <ul style="list-style-type: none"> 1 can opener and corkscrew. 1 coffee pot, 2-quart. 6 cups, with handle, nesting. 6 forks, white metal or plated. 6 knives, table, steel. 2 pepper shakers, aluminum (capable of having shaker holes closed). 6 plates, dinner. 1 plate, meat, oval. | <ul style="list-style-type: none"> 6 plates, soup. 2 plates, vegetable, oval, white enamel ware. 2 salt shakers, aluminum (capable of having shaker holes closed). 1 sugar bowl, with cover. 6 tablespoons. 6 teaspoons. |
|--|--|

For officers' mess at regimental and brigade headquarters, twice the allowance for battalion mess.

For each officers' mess at division and higher headquarters, four times the allowance for battalion headquarters mess.

NOTE 30.—Motor and animal drawn vehicles issued to the Army, as shown in Tables IV and Tables of Organization, will be supplied with tools, accessories, and spare parts in accordance with the following lists:

MOTOR TRANSPORTATION.

Unit ambulance and reconnaissance car equipment and unit G. M. C. 1-ton light delivery truck equipment as follows:

- | | |
|---|---|
| <ul style="list-style-type: none"> 1 canvas tool roll assembled with the following tools: <ul style="list-style-type: none"> 1 chisel, cold, $\frac{3}{4}$-inch, flat. 1 extractor, cotter pin. 1 file, 10-inch, flat, smooth, with handle. 1 gun, grease. 1 hammer, machinist's, 2-pound ball pein with handle. * 1 hub cap wrench. 1 jack, 2-ton capacity. 1 punch, solid, $\frac{1}{4}$-inch solid taper. 1 pliers, combination, 6-inch. * 1 rim brace socket wrench. 1 screw driver, 8-inch, perfect handle. 1 screw driver, 12-inch, perfect handle. 1 tire irons (set of 2). 1 tire foot pump. 1 tire pressure gauge. * 1 valve tappet wrenches (set). 1 wrench, monkey, 14-inch, with knife handle. | <ul style="list-style-type: none"> 1 canvas tool roll assembled with the following tools—Continued. <ul style="list-style-type: none"> 1 wrench, adjustable 8-inch, crescent. 1 wrench, double end, milled openings, $\frac{1}{8}$ and $\frac{3}{8}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{7}{8}$ and $1\frac{1}{8}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $1\frac{1}{8}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $1\frac{1}{8}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, spark plug, $\frac{3}{4}$-inch, 18-thread, $\frac{1}{2}$-inch pipe thread. |
|---|---|

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type of tools will be supplied for the particular vehicle for which tool roll is required.

Accessories:

- 1 brush, engine cleaning.
- 1 bucket, canvas, collapsible.
- * 1 casing.
- 50 cotter pins, assorted.
- 1 extinguisher, fire, with bracket.
- 1 emery cloth or sandpaper (sheet).
- †* 3 fuses.
- 1 friction tape, $\frac{3}{4}$ -inch (1 roll).
- †* 2 headlight bulbs.
- 1 lock and chain for spare tire.
- * 2 plugs, spark.
- 2 patches, cement (inner tube).
- 2 patches, cementless (inner tube).

Accessories—Continued.

- * 1 patch, shoe (inside blowout).
- * 1 rim, tire.
- 1 sponge.
- †* 2 side-light bulbs.
- * 2 skid chains (1 pair).
- 1 towing cable.
- †* 1 tail light bulb.
- * 2 tubes, inner.
- 1 tire talc or powdered chalk (1 can).
- 1 tube, cement (inner tube patching).
- $\frac{1}{2}$ waste ($\frac{1}{2}$ pound).
- 1 box (5) inner-tube valve insides.
- * 1 exhaust valve.

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type will be furnished for the particular vehicle for which supplies are required. Items marked (†) will not be issued on G. M. C. $\frac{3}{4}$ -ton light delivery truck.

Unit motorcycle equipment as follows:

- | | |
|---|--|
| <p>1 canvas tool roll assembled with the following tools:</p> <ul style="list-style-type: none"> 1 chisel, cold $\frac{3}{4}$-inch flat. 1 drive-chain repair tool. 1 file, 10-inch flat smooth with handle. 1 hammer, machinist's 1-pound ball pein. 1 plier, 6-inch combination. 1 screw driver, 6-inch perfect handle. 1 tire pressure gauge. 1 tire pump (motorcycle type). 1 wrench, adjustable 8-inch crescent. | <p>1 canvas tool roll assembled with the following tools—Continued.</p> <ul style="list-style-type: none"> 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ inch. 1 wrench, double end, milled openings, $\frac{3}{8}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
|---|--|

SPECIAL NOTE.—The tool roll listed above will be the same on all motorcycles.

Accessories:

- 1 brush cleaning.
- 1 box (5) inner-tube valve insides.
- 2 connecting links, offset, $\frac{3}{4}$ by $\frac{3}{4}$ inch pitch.
- 2 connecting links, $\frac{3}{4}$ by $\frac{3}{4}$ inch pitch.
- 2 connecting-link springs.
- 1 double repair link, $\frac{3}{4}$ by $\frac{3}{4}$ inch pitch.
- 12 fillister head screws, assorted sizes.
- 1 friction tape, $\frac{3}{4}$ -inch (1 roll).
- 12 lock washers, assorted sizes.
- * 2 nuts, front wheel axle.

Accessories—Continued.

- * 2 nuts, rear wheel axle.
- 6 patches, cementless, assorted sizes.
- 1 patch, 28 by 3 inches, inside blow-out.
- 2 plugs, spark, $\frac{3}{4}$ -inch.
- 1 sandpaper or emery cloth, 4 by 4 inches (1 piece).
- 1 tire talc or powdered chalk (small can).
- $\frac{1}{2}$ waste ($\frac{1}{2}$ pound).
- * 1 exhaust valve.

SPECIAL NOTE.—Items marked (*) differ on each type of motorcycle. Proper size and type will be furnished for the particular motorcycle for which supplies are required.

Unit passenger-car equipment as follows:

- | | |
|--|---|
| <p>1 canvas tool roll assembled with the following tools:</p> <ul style="list-style-type: none"> 1 chisel, cold, $\frac{3}{4}$-inch flat. 1 extractor, cotter pin. 1 file, 10-inch, flat, smooth, with handle. 1 gun, grease. 1 hammer, machinist's, 2-pound ball pein. * 1 hub-cap wrench. 1 jack, 1-ton capacity. 1 punch, solid, $\frac{3}{4}$-inch solid taper. 1 pliers, combination, 6-inch. * 1 rim brace socket wrench. 1 screw driver, 8-inch, perfect handle. 1 screw driver, 12-inch, perfect handle. 1 tire iron (set of 2). 1 tire foot pump. 1 tire pressure gauge. * 1 valve tappet wrenches (set). 1 wrench, monkey, 14-inch, knife handle. | <p>1 canvas tool roll assembled with the following tools—Continued.</p> <ul style="list-style-type: none"> 1 wrench, adjustable, 8-inch, crescent. 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ inch. 1 wrench, double end, milled openings, $\frac{3}{8}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch. 1 wrench, spark plug, $\frac{7}{8}$ inch, 15 thread, $\frac{1}{2}$-inch pipe thread. |
|--|---|

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type of tools will be supplied for the particular vehicle for which tool roll is required.

Accessories:

- 1 brush, engine cleaning.
- 1 bucket, canvas, collapsible.
- * 1 casing.
- 50 cotter pins, assorted.
- 1 extinguisher, fire, with bracket.
- 1 emery cloth or sandpaper (sheet).
- * 3 fuses.
- 1 friction tape, $\frac{3}{4}$ -inch (1 roll).
- * 2 headlight bulbs.
- 1 lock and chain for spare tire.
- * 2 plugs, spark.
- 2 patches, cement (inner tube).
- 2 patches, cementless (inner tube).

Accessories—Continued.

- * 1 patch, shoe, inside blow-out.
- * 1 rim, tire.
- 1 sponge.
- * 2 side-light bulbs.
- * 2 skid chains (1 pair).
- 1 towing cable.
- * 1 tall-light bulb.
- * 2 tubes, inner.
- 1 tire talc or powdered chalk (1 can).
- 1 tube cement (inner tube patching).
- $\frac{1}{2}$ waste ($\frac{1}{2}$ pound).
- 1 box (5) inner tube valves inside.
- * 1 exhaust valve.

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type will be furnished for the particular vehicle for which supplies are required.

Unit truck equipment as follows:

1 canvas tool roll assembled with the following tools:

- 1 chisel, cold, $\frac{3}{4}$ -inch flat.
- 1 extractor, cotter pin.
- 1 file, 10-inch flat, smooth, with handle.
- 1 gun, grease.
- 1 hammer, machinist's, 2-pound, ball pein.
- * 1 hub cap wrench.
- 1 jack, 5-ton capacity.
- 1 punch, solid, $\frac{3}{4}$ -inch solid taper.
- 1 pliers, combination, 6-inch.
- 1 screw driver, 8-inch, perfect handle.
- 1 screw driver, 12-inch, perfect handle.
- * 1 valve tappet wrenches (set).
- 1 wrench, spark plug, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, adjustable, 8-inch crescent.
- 1 wrench, monkey, 14-inch knife handle.
- 1 wrench, double end, milled openings, $\frac{1}{8}$ and $\frac{1}{4}$ inch.

1 canvas tool roll assembled with the following tools—Continued.

- 1 wrench, double end, milled openings, $\frac{3}{8}$ and $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{7}{8}$ and $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ and 1 inch.
- 1 wrench, double end, milled openings, 1 $\frac{1}{4}$ and 1 $\frac{3}{4}$ inches.
- 1 wrench, double end, milled openings, 1 $\frac{1}{8}$ and 1 $\frac{3}{8}$ inches.

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type of tools will be supplied for the particular vehicle for which tools are required.

Accessories:

- 1 brush, engine cleaning.
- 1 brush, washing.
- 1 brush, wire.
- 1 bucket, canvas, collapsible.
- * 10 chains, tire, cross (skid).
- 50 cotter pins, assorted.
- 1 extinguisher, fire, with bracket.
- 1 friction tape, $\frac{3}{4}$ -inch (1 roll).
- 12 lock washers, assorted.

Accessories—Continued.

- 12 nuts and bolts, assorted.
- * 2 plugs, spark.
- 1 pickax.
- 1 rope, lash, manila, 75 feet long, $\frac{3}{4}$ or $\frac{1}{2}$ inch.
- 1 shovel.
- 1 towing cable, complete.
- 1 waste (1 pound).
- * 1 exhaust valve.

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type will be furnished for the particular vehicle for which supplies are required.

Unit light repair truck equipment as follows:

- 1 chest of tools consisting of the following:
- 1 air pump, 2-cylinder, with hose and couplings.
 - 1 blow torch, 1-quart capacity.
 - 1 block, single-steel, 1-inch, with becket and safety link hook.
 - 1 block, double-steel, 1-inch, with becket and safety link hook.
 - 12 blades, hacksaw, 12-inch, 16 P.
 - 12 blades, hacksaw, 12-inch, 24 P.
 - 1 bar, pinch, $\frac{3}{4}$ by 18 inches, with claw.
 - 2 crowbars, 12 pounds.
 - 1 C-clamps, medium service, 4-inch.
 - 1 C-clamps, medium service, 8-inch.
 - 1 caliper, 6-inch inside.
 - 1 caliper, 6-inch outside.
 - 1 drill, breast, chuck capacity 0 to $\frac{1}{2}$ inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{8}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{8}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{4}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{4}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{4}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{4}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{3}{4}$ -inch.
 - 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 - 1 dividers, 6-inch.
 - 1 frame, hack saw adj., 8 to 12 inches (sliding end post type).
 - 1 file, 12-inch, flat, second cut.
 - 1 file, 12-inch, flat, bastard.
 - 1 file, 10-inch, flat, bastard.
 - 1 file, 10-inch, flat, smooth.
 - 1 file, 10-inch, half round, bastard.
 - 1 file, 10-inch, half round, second cut.
 - 1 file, 10-inch, round, bastard.
 - 1 file, 8-inch, round, second cut.
 - 1 file, 8-inch, half round, bastard.
 - 1 file, 8-inch, flat, bastard.
 - 1 file, card, wire.
 - 3 flashlights, with batteries.
 - 1 geared hand grinder, 6-inch wheel.
 - 1 gauge, thickness, 9 leaves, viz, 0.0015, 0.002, 0.003, 0.004, 0.006, 0.008, 0.010, 0.012, 0.015.
 - 1 hydrometer, battery.
- 1 chest of tools consisting of the following—Continued.
- 1 hammer, machinist's, 1 pound, ball pein.
 - 1 hammer, machinist's, 2 pound, ball pein.
 - 1 hammer, copper, 1 pound.
 - 1 hammer, machinist's riveting, 1 $\frac{1}{2}$ pound.
 - 1 hatchet, claw, 4-inch bite.
 - 1 iron, soldering, 2 pounds.
 - 1 iron, soldering, 4 pounds.
 - 1 jack, 15-ton capacity, double action with 12 $\frac{1}{2}$ -inch lift, 21 $\frac{1}{2}$ -inch height, simplex emergency No. 310, or equal.
 - 1 knife, notched 1-inch blade, 4 inches long, for tires.
 - 1 pliers, 6-inch combination.
 - 1 pliers, 8-inch side cutting.
 - 300-foot rope, manilla, 1-inch (300 feet).
 - 1 rule, steel, 3-foot, 3-fold.
 - 1 screw-plate set, $\frac{1}{4}$ to $\frac{3}{4}$ -inch by 16lbs, U. S. S.
 - 1 snips, tinner's, 12-inch compound lever.
 - 1 saw, hand, crosscut, 26-inch (8 teeth per inch).
 - 1 screw driver, 8-inch, perfect handle.
 - 1 screw driver, 12-inch, perfect handle.
 - 1 screw driver, offset 6 inches.
 - 1 set scrapers, curved bearing (3 to set).
 - 1 set scrapers, carbon (3 to set).
 - 1 scale, 6-inch, graduated in 8ths, 16ths, 32ds, and 64ths.
 - 1 sledge, blacksmith's, 10 pounds, straight pein with two handles.
 - 1 vulcanizer (small Shaler), 5 minute, gasoline operated.
 - 1 vise, machinist's, 4 $\frac{1}{2}$ -inch jaws, swivel base.
 - 1 wrench, 8-inch, Stillson.
 - 1 wrench, 14-inch, Stillson.
 - 1 wrench, monkey, 14-inch, steel handle.
- 3 chassis repair mechanic's tool kits, consisting of the following:
- 1 bag, tool, waterproof, canvas, 18-inch.
 - 1 bar, pinch, $\frac{3}{4}$ by 18 inches, with claw.
 - 12 blades, hacksaw, 12-inch, 24 P.
 - 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
 - 1 chisel, cold, $\frac{3}{4}$ -inch, flat.
 - 1 chisel, cold, $\frac{3}{4}$ -inch, flat.
 - 1 chisel, cold, $\frac{3}{4}$ -inch, diamond point.
 - 1 chisel, cold, $\frac{1}{2}$ -inch, cape.
 - 1 drift, brass, 1 by 8 inches.
 - 1 extractor, cotter pin.
 - 1 file, 8-inch round bastard, with handle.
 - 1 file, 8-inch half round bastard, with handle.
 - 1 file, 10-inch, flat smooth, with handle.
 - 1 file, 12-inch, flat second cut, with handle.

3 chassis repair mechanic's tool kits, consisting of the following—Continued.

- 1 file, 12-inch, flat bastard, with handle.
- 1 file, card, wire.
- 1 frame, hacksaw, adjustable, 8 to 12 inches (sliding end, post type).
- 2 handles for double end tubular socket wrenches.
- 1 hammer, machinist's ball pein, 1-pound, with handle.
- 1 hammer, machinist's ball pein, 2-pound, with handle.
- 1 hammer, copper, 1-pound, with handle.
- 1 knife, putty, 1½-inch flexible blade.
- 1 oil can, 6-inch straight spout, ½-pint capacity.
- 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1 inch.
- 1 punch, ½-inch, solid taper.
- 1 punch, ¾-inch, solid taper.
- 1 punch, 1-inch, solid taper.
- 1 punch, center, round knurled, 7/8-inch body, 4 inches long.
- 1 pliers, 6-inch combination.
- 1 pliers, 8-inch combination.
- 1 pliers, 8-inch side cutting.
- 1 rule, steel, 3 foot, 3-fold.
- 1 scale, 6-inch steel, graduated in 8ths, 16ths, 32ds, and 64ths.
- 1 screw driver offset, ¾ by 5 inches.
- 1 screw driver, offset, 7/8 by 8 inches.
- 1 screw driver, 6-inch, perfect handle.
- 1 screw driver, 10-inch, perfect handle.
- 1 screw driver, 12-inch, perfect handle.
- 1 screw driver, 6-inch, perfect handle, bulldog.
- 1 wrench, hexagon double end tubular socket, broached openings, 1½ and 1¾ inch.
- 1 wrench, hexagon double end tubular socket, broached openings and 1½ inch.
- 1 wrench, hexagon double end tubular socket, broached openings 1½ and 1¾ inches.
- 1 wrench, hexagon double end tubular socket, broached openings 1½ and 1¾ inches.
- 1 wrench, hexagon double end tubular socket, broached openings and 1½ and 1¾ inches.
- 1 wrench, 8-inch, adjustable crescent.
- 1 wrench, double end milled openings 7/8 and 1 inch.
- 1 wrench, double end milled openings 1½ and 1¾ inch.
- 1 wrench, double end milled openings 7/8 and 1 inch.
- 1 wrench, double end milled openings 1½ and 1¾ inch.
- 1 wrench, double end milled openings 1½ and 1¾ inch.
- 1 wrench, double end milled openings 1½ and 1¾ inch.
- 1 wrench, double end milled openings, 1½ and 1¾ inch.

3 chassis repair mechanic's tool kits, consisting of the following—Continued.

- 1 wrench, double end milled openings, 1½ and 1¾ inch.
- 1 wrench, double end milled openings, 1½ and 1¾ inch.
- 1 wrench, double end milled openings, 1½ and 1¾ inch.
- 1 wrench, double end milled openings, 1½ and 1¾ inch.
- 1 wrench, 8-inch, Stillson.
- 1 wrench, 14-inch, Stillson.
- 1 wrench, 14-inch, autoadjustable.
- 1 wrench, 4½-inch pocket adjustable (bicycle type).
- 1 wrench, hexagon, speed, broached openings, 1 inch.
- 1 wrench, hexagon, speed, broached openings, 1½ inch.
- 1 wrench, hexagon, speed, broached openings, 1 inch.
- 1 wrench, hexagon, Tee-handle socket broached openings, 1½ inch.
- 1 wrench, hexagon, Tee-handle socket broached openings, 1½ inch.
- 1 wrench, hexagon, Tee handle socket broached openings, 1½ inch.
- 1 box containing the following accessories and supplies:
 - 25 assorted carriage bolts with nuts.
 - 25 assorted machine bolts with nuts.
 - 3 batteries for flashlights.
 - 3 bulbs for flashlight.
 - 100 cap screws (U. S. and S. A. E.) with castle nuts.
 - 25-foot high-tension cable (25 feet).
 - 10-foot low-tension cable (10 feet).
 - 12 sheets emery cloth, No. 00.
 - 12 sheets emery cloth, No. 1.
 - 1 box valve grinding compound.
 - 3 clamps, water hose, 1 to 2 inch.
 - 3 clamps, water hose, 2-inch up.
 - 12 grease and oil cups (assorted sizes).
 - 6 gaskets, spark plug, 7/8-inch.
 - 6 exhaust gaskets (assorted sizes).
 - 6 intake gaskets (assorted sizes).
 - 12 assorted gas line fittings.
 - 6-foot hose for radiator (6 feet).
 - 6-foot rubber tubing, 7/8-inch (6 feet).
 - 1 pound red lead.
 - 10 pounds assorted nails.
 - 5 yards of packing, tallow wicking for pump packing.
 - 100 assorted cotter pins.
 - 12 assorted yoke and rod end pins.
 - 12 spark plugs (assorted sizes).
 - 12 assorted No. 10-32, No. 10-24, and No. 8-32 machine screws and nuts.
 - 50 assorted wood screws.
 - 5 pounds wire solder.
 - 3 rolls friction tape.
 - 200 assorted lock washers.
 - 5 pounds wire, No. 14, B gauge (soft steel).
 - 1 bucket, canvas, collapsible.
 - 1 extinguisher, fire, with bracket.

- 1 box containing the following accessories and supplies—Continued.
- 25 patches, cement (inner tube).
 - 25 patches, cementless (inner tube).
 - 6 shoe patches, inside blow-out (assorted sizes).
 - 6 tubes cement (inner tube patching).
 - 3 tire talc or powdered chalk (3 cans).
 - 3 boxes (5 to box) inner-tube valve insides.

- 1 box containing the following accessories and supplies—Continued.
- 1 towing cable, complete.
 - 3 pounds waste.
 - 10-foot brake lining, 2 by $\frac{7}{8}$ inch (10 feet).
 - 10-foot brake lining, 2½ by $\frac{7}{8}$ inch (10 feet).
 - 25-foot brake lining, 2½ by $\frac{1}{2}$ inch (25 feet).

ANIMAL-DRAWN TRANSPORTATION.

Cart, medical, model 1917, complete.

This cart to be replaced by medical wagon (4-mule) when available.

Component parts:

- 1 cart, complete, includes:
- 1 axle, hind (E. W.).
 - Bolts, required for completely assembling or setting up ready for use.
 - 2 boards, partition (1 cross, 1 inside).
 - 1 board, front end.
 - 1 board, foot, with blocks (medical, ration, or water cart).
 - 1 board, seat, hinged.
 - 1 bottom (floor).
 - 1 box, litter carrier, made of 7 long boards.
 - 2 braces, body.
 - 3 bows.
 - 2 brackets, axle, and clamps for securing axle to body.
 - 1 cover, canvas.
 - 1 door, rear drop, and 3 irons extending across underneath and up sides of box, attaching same to bottom.
 - 1 end, front.
 - 2 handles, seat.
 - 2 props and hooks.
 - 1 ratchet, brake and lever, with attachments for securing to body side and connecting brake lever and roller bar.
 - 1 ridge pole.
 - 1 rod, body.
 - 1 roller, brake and clips with 2 iron shoes and clips for same.
 - 1 side, left.
 - 1 side, right.
 - 1 side hitch, complete (medical, ration, or water cart).
 - 1 shaft, left (medical, ration, or water cart).
 - 1 shaft, right (medical, ration, or water cart).
 - 1 tailgate.
 - 2 wheels, hind (E. W.).
 - 1 wrench, axle (E. W.).

Set of extra parts and accessories (not to be issued with new type medical wagon):

Vehicle parts:

- 2 bolts, carriage, $\frac{1}{2}$ by 1½ inches.
- 2 bolts, carriage, $\frac{3}{8}$ by 1½ inches.
- 2 bolts, carriage, $\frac{1}{4}$ by 2½ inches.

Cart, medical, model 1917, etc.—Continued.

1 cart, complete, includes—Continued.

Set of extra parts and accessories—Continued.

Vehicle parts—Continued.

- 2 bolts, carriage, $\frac{1}{2}$ by 3 inches.
- 1 bolt, carriage, $\frac{3}{8}$ by 2 inches.
- 1 bolt, carriage, $\frac{1}{4}$ by 4½ inches.
- 4 bolts, carriage, $\frac{1}{2}$ by 8½ inches.
- 2 bolts, tire, $\frac{3}{4}$ by 2½ inches.
- 2 bolts, tire, $\frac{1}{2}$ by 3 inches.
- 2 links, open, $\frac{1}{4}$ inch.
- 2 links, open, $\frac{1}{2}$ -inch.
- 1 nut, axle, left (E. W.).
- 1 nut, axle, right (E. W.).
- 3 pins, cotter, $\frac{1}{2}$ by 1 inch.
- 3 pins, cotter, $\frac{1}{4}$ by 2 inches.
- 3 rivets, iron, F. H., $\frac{1}{4}$ by 1½ inches.
- 3 rivets, iron, F. H., $\frac{1}{2}$ by 2 inches.

Vehicle accessories:

- 1 ax and handle.
- 2 bags, feed (4 issued with new type wagon).
- 1 brush, horse.
- 1 bucket, canvas.
- 1 currycomb.
- 3 pounds grease, axle.
- 2 halters, with shank (4 issued with new type wagon).
- 1 hatchet and handle.
- 2 lanterns, complete with wicks and globes.
- 1 pickax and handle.
- 1 pair pliers, 8-inch (W. C.).
- 12 pounds rope, manila, $\frac{1}{2}$ -inch.
- 1 spade, short handle.
- 1 whipstock with lash.
- 1 whipsocket, malacca japanned, for wood dash.
- 1 spool wire, stovepipe.
- 1 wrench, monkey, 10-inch.

Harness, medical, single, set, consisting of:

When the new medical wagon is issued the cart harness and harness parts and accessories as listed here will be replaced by the escort wagon harness, parts, and accessories (see escort wagon).

- 1 bridle—
 - 1 crown.
 - 2 rosettes, United States.

Cart, medical, model 1917, etc.—Continued.

1 cart, complete, includes—Continued.

Harness, medical, single, set, consisting of—Continued.

- 1 bridle—Continued.
 - 1 brow band.
 - 2 rein straps.
 - 1 throat latch.
 - 2 check straps.
 - 2 blinds.
 - 2 blind stays.
 - 1 nose band.
 - 1 bridle rein, long.
 - 1 bridle rein, short.
 - 2 driving lines.
- 1 collar.
- 1 saddle—
 - 1 saddle, billet.
 - 1 wear leather saddle.
 - 1 saddle bellyband.
 - 1 shaft bellyband.
- 1 pair hames—
 - 1 strap hame, lower.
 - 1 strap hame, upper.
- 1 breeching—
 - 4 breeching hip tugs.
 - 1 kidney strap.
 - 1 turn back.
 - 1 layer.
 - 1 billet.
 - 4 hip straps.
- 2 traces.

Harness parts and accessories:

- 1 buckle, harness, B. R., japanned, $\frac{3}{4}$ -inch.
- 1 buckle, harness, B. R., japanned, $\frac{3}{4}$ -inch.
- 1 buckle, harness, B. R., japanned, 1-inch.
- 1 buckle, harness, B. R., japanned, 2-inch.
- 1 pair hames, cart harness, dump.
- $\frac{1}{2}$ gallon oil, neat's foot.
- 1 ring, harness, japanned, $\frac{3}{4}$ -inch.
- 1 ring, harness, japanned, 1-inch.
- 1 ring, harness, japanned, 1 $\frac{1}{2}$ -inch.
- 1 ring, harness, japanned, 2-inch.
- 1 snap, harness, 1-inch.
- 1 snap, harness, 1 $\frac{1}{2}$ -inch.
- 1 snap, harness, 2-inch.
- 1 cake soap, harness.
- 1 sponge, coarse.
- 1 strap, hame, dump, lower.
- 1 strap, hame, dump, upper.
- 1 ball twine, cable laid.

NOTE.—All carried in box under driver's seat, except whip, which is carried in socket.

Cart, ration, 2-mule, model 1918, complete.

This cart is to be remodeled, and when completed will be equipped with an escort wagon pole and 2 s. s. sets of wheel escort

wagon harness, with parts and accessories in lieu of cart harness and accessories.

Component parts:

- 1 cart, complete, includes:
 - 1 axle, hind (E. W.).
 - 1 board, partition.
 - 1 board, seat, driver's.
 - 1 board, foot, with blocks (medical, ration, or water cart).
 - Bolts, for completely assembling or setting up ready for use.
 - 1 bottom (floor).
 - 2 clamps, axle, and blocks for securing axle to body.
 - 1 front end.
 - 2 props and hooks (ration or water cart).
 - 1 ratchet, brake and lever, with attachments for securing to body side and connecting brake lever and roller bar.
 - 1 rod, box.
 - 1 rod, tail gate.
 - 1 roller, brake and clips, with 2 iron shoes and clips for same.
 - 1 shaft, left (medical, ration, or water cart); not issued with new cart.
 - 1 shaft, right (medical, ration, or water cart); not issued with new cart.
 - 1 side hitch, complete (medical, ration, or water cart); not issued with new cart.
 - 1 side, left.
 - 1 side, right.
 - 1 tail gate.
 - 2 wheels, hind (E. W.).
 - 1 wrench, axle (E. W.).

Set of extra parts and accessories:

- 2 bolts, carriage, $\frac{1}{2}$ by 1 $\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{3}{8}$ by 1 $\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{3}{8}$ by 2 $\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{3}{8}$ by 3 inches.
- 1 bolt, carriage $\frac{3}{8}$ by 2 inches.
- 1 bolt, carriage, $\frac{3}{8}$ by 4 $\frac{1}{2}$ inches.
- 4 bolts, carriage, $\frac{1}{2}$ by 8 $\frac{1}{2}$ inches.
- 2 bolts, tire, $\frac{1}{2}$ by 2 $\frac{1}{2}$ inches.
- 2 bolts, tire, $\frac{3}{8}$ by 3 inches.
- 2 links, open, $\frac{3}{8}$ -inch.
- 2 links, open, $\frac{1}{2}$ -inch.
- 1 nut, axle, left (E. W.).
- 1 nut, axle, right (E. W.).
- 3 pins, cotter, $\frac{1}{8}$ by 1 inch.
- 3 pins, cotter, $\frac{3}{8}$ by 2 inches.
- 3 rivets, iron, F. II., $\frac{3}{8}$ by 1 $\frac{1}{2}$ inches.
- 3 rivets, iron, F. II., $\frac{1}{2}$ by 2 inches.

Vehicle accessories:

- 1 ax and handle.
- 2 bags, feed.
- 1 brush, horse.

Cart, ration, 2-mule, model 1918—Continued.

1 cart, complete, includes—Continued.

*Set of extra parts and accessories—Continued.**Vehicle accessories—Continued.*

- 1 bucket, canvas.
- 1 currycomb.
- 3 pounds grease, axle.
- 2 halters, with strap.
- 1 hatchet, and handle.
- 2 lanterns, complete, with wicks and globes.
- 1 pickax, and handle.
- 1 pair pliers, 8-inch (W. C.).
- 12 pounds rope, manila, $\frac{1}{2}$ -inch.
- 1 spade, short-handled.
- 1 whipstock, with lash.
- 1 whip socket, malacca japanned, for wood dash.
- 1 spool wire, stovepipe.
- 1 wrench, monkey, 10-inch.

Harness, cart, set, consists of:

- 1 bridle—
 - 1 crown.
 - 2 rosettes.
 - 1 brow band.
 - 2 rein straps.
 - 1 throat latch.
 - 2 check straps.
 - 2 blinds.
 - 2 blind stays.
 - 1 nose band.
 - 1 bridle rein, long.
 - 1 bridle rein, short.
 - 2 driving lines.
- 1 collar.
- 1 saddle—
 - 1 saddle, billet.
 - 1 wear leather saddle.
 - 1 saddle bellyband.
 - 1 shaft bellyband.
- 1 pair hames—
 - 1 strap hame, lower.
 - 1 strap hame, upper.
- 1 breeching—
 - 4 breeching hip tugs.
 - 1 kidney strap.
 - 1 turn back.
 - 1 layer.
 - 1 billet.
 - 4 hip straps.
- 2 traces.

Harness parts and accessories:

When remodeled cart is issued the harness parts and accessories of escort wagon harness will be supplied.

- 1 buckle, harness, B. R., japanned, $\frac{1}{2}$ -inch.
- 1 buckle, harness, B. R., japanned, $\frac{1}{2}$ -inch.
- 1 buckle, harness, B. R., japanned, 1-inch.
- 1 buckle, harness, B. R., japanned, 2-inch.

Cart, ration, 2-mule, model 1918—Continued.

1 cart, complete, includes—Continued.

Harness parts and accessories—Continued.

- 1 pair hames, cart harness, dump.
- $\frac{1}{2}$ gallon oil, neat's-foot.
- 1 ring, harness, japanned, $\frac{1}{2}$ -inch.
- 1 ring, harness, japanned, 1-inch.
- 1 ring, harness, japanned, $1\frac{1}{2}$ -inch.
- 1 ring, harness, japanned, 2-inch.
- 1 snap, harness, 1-inch.
- 1 snap, harness, $1\frac{1}{2}$ -inch.
- 1 snap, harness, $1\frac{1}{2}$ -inch.
- 1 cake soap, harness.
- 1 sponge, coarse.
- 1 strap, hame, dump, lower.
- 1 strap, hame, dump, upper.
- 1 ball twine, cable laid.

NOTE.—All carried in box under driver's seat, except whip, which is carried in socket.

1 cart, complete, includes:

- 1 axle, hind (E. W.).
- Bolts, for completely assembling or settling up ready for use.
- 1 board, foot (medical, ration, or water cart).
- 1 bottom, or tank frame.
- 2 clamps, axle, and blocks for securing axle to body.
- 1 pipe, discharge, includes:
 - 15 faucets, brass, $\frac{1}{2}$ -inch.
 - 1 faucet, brass, $1\frac{1}{2}$ -inch.
- 2 props, and hooks (ration or water cart).
- 1 pump, hand power, with 20 feet suction hose.
- 1 ratchet, brake and lever, with attachments, for securing to seat box, and connecting brake lever to roller bar.
- 1 roller, brake, and clip with 2 iron shoes and clips for same.
- 1 seat and box, driver's.
- 1 side hitch, complete (medical, ration, or water cart).
- 1 tank, 150 gallons, with manhole cover.
- 2 wheels, hind (E. W.).
- 1 wrench, axle (E. W.).
- 1 shaft, left (medical, ration, or water cart); not issued with new cart.
- 1 shaft, right (medical, ration, or water cart); not issued with new cart.

*Set of extra parts and accessories:**Vehicle parts:*

- 4 bibs, brass, $\frac{1}{2}$ -inch.
- 2 bolts, carriage, $\frac{1}{2}$ by $1\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{1}{2}$ by $1\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{1}{2}$ by $2\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{1}{2}$ by 3 inches.
- 1 bolt, carriage, $\frac{1}{2}$ by 2 inches.
- 1 bolt, carriage, $\frac{1}{2}$ by $4\frac{1}{2}$ inches.
- 4 bolts, carriage, $\frac{1}{2}$ by $8\frac{1}{2}$ inches.

Cart, ration, 2-mule, model 1918—Continued.

1 cart, complete, includes—Continued.

*Set of extra parts and accessories—Continued.**Vehicle parts—Continued.*

- 2 bolts, tire, $\frac{3}{8}$ by 2 $\frac{1}{2}$ inches.
- 2 bolts, tire, $\frac{7}{8}$ by 3 inches.
- 1 nut, axle, left (E. W.).
- 1 nut, axle, right (E. W.).
- 1 pickaxe and handle.
- 3 pins, cotter, $\frac{1}{2}$ by 1 inch.
- 3 pins, cotter, $\frac{7}{8}$ by 2 inches.
- 3 rivets, iron, F. H., $\frac{7}{8}$ by 1 $\frac{1}{2}$ inches.
- 3 rivets, iron, F. H., $\frac{3}{4}$ by 2 inches.

Vehicle accessories:

- 1 ax and handle.
- 2 bags, feed.
- 1 brush, horse.
- 1 bucket, canvas.
- 1 currycomb.
- 3 pounds grease, axle.
- 2 halters, with shank.
- 1 hatchet and handle.
- 1 lantern, complete, with wick and globe.
- 2 links, open, $\frac{1}{2}$ -inch.
- 2 links, open, $\frac{3}{4}$ -inch.
- $\frac{3}{4}$ gallon oil, neat's-foot.
- 1 pair pliers, 8-inch.
- 12 pounds rope, manila, $\frac{3}{4}$ -inch.
- 1 spade, short handle.
- 1 whipstock, with lash.
- 1 whip socket, malacca japanned, for wood dash.
- 1 spool wire, stovepipe.
- 1 wrench, monkey, 10-inch.

Harness, cart, set, consists of:

- 1 bridle—
 - 1 crown.
 - 2 rosettes.
 - 1 brow band.
 - 2 rein straps.
 - 1 throat latch.
 - 2 check straps.
 - 2 blinds.
 - 2 hind stays.
 - 1 nose band.
 - 1 bridle rein, long.
 - 1 bridle rein, short.
 - 2 driving lines.
- 1 collar.
- 1 saddle—
 - 1 saddle billet.
 - 1 wear leather saddle.
 - 1 saddle bellyband.
 - 1 shaft bellyband.
- 1 pair hames—
 - 1 strap, hame, lower.
 - 1 strap, hame, upper.
- 1 breeching—
 - 4 breeching hip tugs.
 - 1 kidney strap.
 - 1 turn back.
 - 1 layer.

Cart, ration, 2-mule, model 1918—Continued.

1 cart, complete, includes—Continued.

Harness, cart, set, consists of—Con.

1 breeching—Continued.

- 1 billet.
- 4 hip straps.
- 2 traces.

Harness parts and accessories:

When remodeled cart is issued the harness parts and accessories for escort wagon harness will be supplied.

- 1 buckle, harness, B. R., japanned, $\frac{3}{4}$ -inch.
- 1 buckle, harness, B. R., japanned, $\frac{3}{4}$ -inch.
- 1 buckle, harness, B. R., japanned, 1-inch.
- 1 buckle, harness, B. R., japanned, 2-inch.
- 1 pair hames, cart harness, dump.
- 1 ring, harness, japanned, $\frac{3}{4}$ -inch.
- 1 ring, harness, japanned, 1-inch.
- 1 ring, harness, japanned, 1 $\frac{1}{2}$ -inch.
- 1 ring, harness, japanned, 2-inch.
- 1 snap, harness, 1-inch.
- 1 snap, harness, 1 $\frac{1}{2}$ -inch.
- 1 snap, harness, 2-inch.
- 1 cake soap, harness.
- 1 sponge, coarse.
- 1 strap, hame, dump, lower.
- 1 strap, hame, dump, upper.
- 1 ball twine, cable laid.

NOTE.—All carried in box under driver's seat, except whip, which is carried in socket.

The water cart is to be remodeled and when completed will be equipped with an escort wagon tongue and two single sets of wheel escort wagon harness, with parts and accessories in lieu of the cart harness and accessories.

*Kitchen, field, Liberty rolling (250 men).**TRAILER.**Component parts and utensils:*

- 1 ax, single bit, Kelley.
- 2 bake pans.
- 1 board, cutting, with hinges.
- 1 body, limber.
- 4 boxes, bread.
- 4 buckets, galvanized iron.
- 4 carriers, kettle.
- 1 chassis, complete, with 2 autotruck wheels, mud guards, springs, fenders, and axle.
- 1 chest, cook's.
- 1 cleaver.
- 4 covers, dust.
- 2 dippers, 1-quart.
- 1 dipper, French, 2-quart.
- 1 egg whip, French, hotel style.
- 4 fireless cookers.
- 2 forks, cook's.

Kitchen, field, Liberty rolling—Continued.

TRAILER—continued.

Component parts and utensils—Continued.

- 2 forks, meat.
- 3 handles, ax.
- 2 hooks, pan.
- 8 kettles.
- 2 kettle inserts.
- 2 knives, boning or skinners.
- 2 knives, bread.
- 2 knives, butcher.
- 4 knives, potato peeling.
- 1 ladle, hotel, 2½-inch bowl.
- 1 ladle, hotel, 8¾-inch bowl.
- 2 lanterns.
- 1 meat grinder.
- 1 padlock, chain, and hasp.
- 1 poker.
- 2 potato mashers, 3½-inches diameter, 18 inches over all.
- 1 saucepan, hotel, 4½ inches high, 5 inches diameter.
- 1 saucepan, hotel, 5½ inches high, 5 inches diameter.
- 1 saw, meat.
- 1 shovel.
- 1 skimmer, hotel.
- 2 spatulas.
- 4 spoons, basting.
- 1 steel, butcher's.
- 1 stove.

*Wagon, escort, complete.**Component parts:*

- 1 body, complete, includes:
 - 1 bottom (floor).
 - 5 bows.
 - 4 braces, 2 for each side.
 - 2 chains, antispread.
 - 2 chains, lock, attached to sides.
 - 1 front end (headboard).
 - 1 lever, brake (attached to bottom with forked plates).
 - 1 ratchet, brake, attached to right side.
 - 1 ridgepole.
 - 2 rods (1 body and 1 tailgate).
 - 1 rod, connecting.
 - 1 seat, driver's, with 2 seat springs.
 - 2 sideboards, extension, with brackets.
 - 1 side, left.
 - 1 side, right.
 - 1 tailgate.
- Running gear, complete, includes:
 - 1 bar, hound
 - 1 beam, brake.
 - 2 blocks, brake.
 - 1 bolt, tongue.
 - 2 chains, stay.
 - 1 doubletree.
 - 1 gear, front, including:
 - 1 bolster, loose or front.
 - 1 bolt, king.
 - 1 gear, hind, with roller bar attached.

*Wagon, escort, complete—Continued.**Component parts—Continued.**Running gear, complete, includes—Con.*

- 1 hammer, doubletree.
- 2 hangers, brake.
- 4 lap links.
- 1 pin, coupling.
- 1 pole, coupling.
- 2 rods, fulcrum draw.
- 4 singletrees.
- 1 tongue.
- 4 wheels (2 front, 2 hind).
- 1 wrench, axle, and all bolts required to completely assemble or set up ready for use.

*Set of extra parts and accessories**Vehicle parts, and where carried:*

- 2 blocks, brake, in tool box.
- 2 bolts, carriage, ¾ by 1½ inches, in tool box.
- 2 bolts, carriage, ½ by 1½ inches, in tool box.
- 2 bolts, carriage, ½ by 2½ inches, in tool box.
- 2 bolts, carriage, ¾ by 3 inches, in tool box.
- 1 bolt, carriage, ¾ by 2 inches, in tool box.
- 1 bolt, carriage, ¾ by 11 inches, in tool box.
- 4 bolts, hub, ¾ by 3½ inches, in tool box.
- 1 bolt, tire, ¾ by 2½ inches, in tool box.
- 5 bolts, tire, ¾ by 3 inches, in tool box.
- 1 cover, escort wagon, over bows.
- 1 doubletree, bolted to coupling pole in gear.
- 1 kingbolt, escort wagon, in tool box.
- 1 pole, coupling, left side of body.
- 6 rivets, iron, F. H., ¾ by 1½ inches, in tool box.
- 4 rivets, iron, F. H., ¾ by 1½ inches, in tool box.
- 1 singletree, escort wagon, in tool box.
- 1 tongue, escort wagon, left side of body.

Vehicle accessories, and where carried:

- 1 ax and handle, in tool box.
- 4 bags, feed, in tool box.
- 1 brush, horse, in tool box.
- 1 bucket, canvas, in tool box.
- 1 currycomb, in tool box.
- 3 pounds grease, axle, in tool box.
- 1 jack, wagon, in tool box.
- 4 halters, with chain shank, in tool box.
- 1 lantern, complete with globe and wick, in tool box.
- 3 links, open, ¾-inch, in tool box.
- 1 padlock and keys, in tool box staple.
- 1 pickax and handle, in tool box.
- 12 pounds rope, manilla, ¾-inch, in tool box.
- 1 cake soap, harness, in tool box.
- 1 spade, short handle, in tool box.
- 1 whipstock, with lash, in socket.
- 1 whipssocket, malacca japanned, for wood dash, right side of body.
- 1 spool wire, stovepipe, in tool box.
- 1 wrench, monkey, in tool box.

*Wagon, escort, complete—Continued.**Harness:*

- 2 single sets, wheel, escort wagon type.
- 2 single sets, lead, escort wagon type.
- (For components see Vol. II, Manual Quartermaster Corps.)
- Harness parts and accessories and where carried:*
- 1 buckle, harness, B. R., japanned, $\frac{3}{4}$ -inch, in tool box.
- 1 buckle, harness, B. R., japanned, $\frac{3}{4}$ -inch, in tool box.
- 1 buckle, harness, B. R., japanned, 1-inch, in tool box.
- 1 buckle, harness, B. R., japanned, 2-inch, in tool box.
- $\frac{3}{4}$ gallon oil, neat's-foot, in tool box.
- 1 ring, harness, japanned, $\frac{3}{4}$ -inch, in tool box.
- 1 ring, harness, japanned, 1-inch, in tool box.
- 1 ring, harness, japanned, 1 $\frac{1}{2}$ -inch, in tool box.
- 1 ring, harness, japanned, 2-inch, in tool box.
- 1 snap, harness, 1-inch, in tool box.
- 1 snap, harness, 1 $\frac{1}{2}$ -inch, in tool box.
- 1 snap, harness, 2-inch, in tool box.
- 1 sponge, coarse, in tool box.
- 2 straps, hame, lower, in tool box.
- 1 strap, hame, upper, in tool box.
- 1 ball twine, cable laid, in tool box.

*Wagon, limbered combat, complete.**Component parts:*

- 1 limber, front, or calsson, includes:
 - 1 bar, lead (E. W.).
 - 2 chains, stay (E. W.).
 - 1 cushion and 2 straps.
 - 1 doubletree (E. W.).
 - 1 hammer, doubletree (E. W.).
 - 4 links, lap, $\frac{3}{4}$ -inch (E. W.).
 - 1 neckyoke.
 - 4 singletrees (E. W.).
 - 1 tongue.
 - 2 wheels (E. W. fropts).
 - 1 wrench, axle (E. W.).
- 1 limber, rear, includes:
 - 2 blocks, brake (E. W.).
 - 1 cover, canvas.
 - 4 ropes.
 - 2 wheels (E. W. front).

*Set of extra parts and accessories.**Wagon parts, and where carried:*

- 2 blocks, brake (E. W.), rear unit.
- 3 bolts, carriage, $\frac{3}{8}$ by 1 $\frac{1}{2}$ -inch, front unit.
- 3 bolts, carriage, $\frac{3}{8}$ by 2-inch, front unit.
- 3 bolts, carriage, $\frac{3}{8}$ by 2 $\frac{1}{2}$ -inch, front unit.
- 3 bolts, carriage, $\frac{3}{8}$ by 2 $\frac{1}{2}$ -inch, front unit.
- 3 bolts, carriage, $\frac{3}{8}$ by 3-inch, front unit.
- 3 bolts, carriage, $\frac{3}{8}$ by 4-inch, front unit.
- 2 bolts, tire, $\frac{3}{8}$ by 2 $\frac{1}{2}$ -inch, front unit.
- 2 bolts, tire, $\frac{3}{8}$ by 3-inch, front unit.
- 1 cover, canvas, combat wagon, rear unit.
- 1 doubletree (E. W.) rear unit.

*Wagon, limbered combat, complete—Contd.**Set of extra parts and accessories—Continued.**Wagon parts, and where carried—Continued.*

- 3 links, open, $\frac{3}{8}$ -inch, front unit.
- 3 links, open, $\frac{3}{8}$ -inch, front unit.
- 3 links, open, $\frac{3}{8}$ -inch, front unit.
- 1 nut, axle (E. W.), right, rear unit.
- 1 nut, axle (E. W.), left, rear unit.
- 6 rivets, iron, F. II., $\frac{3}{8}$ by 1 $\frac{1}{2}$ inch, front unit.
- 4 rivets, iron, F. II., $\frac{3}{8}$ by 2 inch, front unit.
- 2 singletrees (E. W.), rear unit.

Wagon accessories, and where carried:

- 16 axes and handles, rear unit.
- 4 bags, feed, front unit.
- 1 brush, horse, front unit.
- 2 buckets, canvas, front unit.
- 1 currycomb, front unit.
- 4 pounds grease, axle, front unit.
- 4 halters, complete with chain shank, front unit.
- 1 hatchet and handle, front unit.
- 1 jack, ratchet lever, 2-ton, cap, 18 or 20 inches high when closed, front unit.
- 2 lanterns, complete, with globes and wicks, front unit.
- 16 picks, railroad, and handles, rear unit.
- 1 pair pliers, 8-inch, front unit.
- 12 pounds rope, manilla, $\frac{3}{8}$ -inch, rear unit.
- 16 shovels, short handle, rear unit.
- 1 spool wire, stovepipe, front unit.
- 1 wrench, monkey, 10-inch, front unit.

Harness:

- 2 single sets, wheel, escort wagon type.
- 2 single sets, lead, escort wagon type.
- (For components see Vol. II, Manual Quartermaster Corps.)

Harness parts and accessories, and where carried:

- 1 buckle, B. R., japanned, $\frac{3}{4}$ -inch, front unit.
- 1 buckle, B. R., japanned, $\frac{3}{4}$ -inch, front unit.
- 1 buckle, B. R., japanned, 1-inch, front unit.
- 1 buckle, B. R., japanned, 1 $\frac{1}{2}$ -inch, front unit.
- 1 can oil, neat's-foot ($\frac{3}{4}$ gallon in can), front unit.
- 1 ring, bar, japanned, $\frac{3}{4}$ -inch, front unit.
- 1 ring, bar, japanned, 1-inch, front unit.
- 1 ring, bar, japanned, 1 $\frac{1}{2}$ -inch, front unit.
- 1 ring, bar, japanned, 2-inch, front unit.
- 1 snap, harness, 1 inch, front unit.
- 1 snap, harness, 1 $\frac{1}{2}$ -inch, front unit.
- 1 snap, harness, 1 $\frac{1}{2}$ -inch, front unit.
- 1 cake soap, harness, front unit.
- 1 sponge, coarse, front unit.

*Wagon, lumbered combat, complete—Contd.**Harness—Continued.**Harness parts and accessories, and where carried—Continued.*

- 1 strap, hame, lower, front unit.
- 1 strap, hame, upper, front unit.
- 1 ball twine, cable laid (1-pound), front unit.
- 1 whipstock, with lash, front unit.
- 1 whipsocket, malacca japanned, wood dash, front unit.

*Wagon, spring, complete, model 1918.**Component parts:*

- 1 body, complete, includes:
 - 1 bar, roller, with 2 brake blocks attached.
 - 2 cushions.
 - 1 dashboard, with 3 standards attached.
 - 1 lever, brake.
 - 1 ratchet.
 - 1 rod, connecting.
 - 2 seats, with lazy backs.
 - 6 standards, top.
 - 1 top, with curtains attached.
- 1 running gear, complete, includes:
 - Bolts, required to completely assemble or set up ready for use.
 - 1 neckyoke.
 - 1 pole, tongue, with 1 doubletree and 2 singletrees attached.
 - 4 wheels (2 front, 2 hind).

Vehicle parts:

- 2 bolts, carriage, $\frac{1}{2}$ by $1\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{3}{8}$ by $1\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{3}{8}$ by $2\frac{1}{2}$ inches.
- 2 bolts, carriage, $\frac{1}{2}$ by 3 inches.
- 2 bolts, carriage, $\frac{3}{8}$ by 2 inches.
- 4 bolts, tire, $\frac{1}{2}$ by $2\frac{1}{2}$ inches.
- 1 kingbolt.
- 1 nut, axle, left.
- 1 nut, axle, right.
- 3 rivets, iron, F. H., $\frac{3}{8}$ by $1\frac{1}{2}$ inches.
- 3 rivets, iron, F. H., $\frac{1}{2}$ by 2 inches.
- 1 singletree.

Vehicle accessories:

- 1 ax and handle.
- 2 bags, feed.
- 1 brush, horse.
- 1 bucket, canvas.
- 1 currycomb.
- 3 pounds grease, axle.
- 2 halters, complete, with chain shank.
- 1 batchet and handle.
- 1 lantern, complete, with globe and wick.
- 3 links, open, $\frac{1}{2}$ -inch.

*Wagon, spring, complete, model 22—Com.**Component parts—Continued.**Vehicle accessories—Continued.*

- 1 pickax and handle.
- 1 pair pliers, 8-inch.
- 12 pounds rope, manilla, $\frac{1}{2}$ -inch.
- 1 spade, short handle.
- 2 straps, halter.
- 1 whip.
- 1 spool wire, stovepipe.
- 1 wrench, monkey, 10-inch.

Harness:

- 2 single sets, wheel, escort wagon type. (See Escort wagon.)

Harness parts and accessories:

- 1 buckle, harness, B. R., japanned, $\frac{1}{2}$ -inch.
- 1 buckle, harness, B. R., japanned, $\frac{1}{2}$ -inch.
- 1 buckle, harness, B. R., japanned, 1-inch.
- 1 buckle, harness, B. R., japanned, 2-inch.
- $\frac{1}{2}$ gallon oil, neat's-foot.
- 1 ring, harness, japanned, $\frac{1}{2}$ -inch.
- 1 ring, harness, japanned, 1-inch.
- 1 ring, harness, japanned, $1\frac{1}{2}$ -inch.
- 1 ring, harness, japanned, 2-inch.
- 1 snap, harness, 1-inch.
- 1 snap, harness, $1\frac{1}{2}$ -inch.
- 1 snap, harness, $1\frac{1}{2}$ -inch.
- 1 cake soap, harness.
- 1 sponge, coarse.
- 1 strap, hame, ambulance, lower.
- 1 strap, hame, ambulance, upper.
- 1 ball twine, cable laid.

NOTE.—This wagon has no tool or accessory box under seats; it will therefore be necessary to provide a box of sufficient size to carry above equipment, taking into consideration that the space under seats in the clear is approximately 12 inches high and 3 feet 4 inches wide.

Pack outfit for cargo mule.

- 1 aparejo, complete, with accessories, includes:
 - 1 blanket, pack.
 - 1 body, aparejo.
 - 1 cincha, aparejo.
 - 1 corona, or saddle pad.
 - 1 crupper.
 - 2 covers, pack, or mantas.
 - 2 ropes, lair (each about 30 feet long, size $\frac{3}{4}$ inch, with loop or eye at one end).
 - 1 rope, lash (about 50 feet long, size $\frac{1}{2}$ inch, with cincha and hook).
 - 1 rope, sling (about 30 feet long, size $\frac{3}{4}$ inch).
 - 1 sobejalmo.

NOTE 31.—Cleaning and preserving material.

The following table prescribes the maximum allowance and preserving material for a six-months' period. Material issued will be regulated by commanding officers in accordance with the actual requirements of service. Department and corps area commanders and independent commanders in the field are authorized to increase or decrease these allowances, and to approve requisitions for materials actually necessary for the proper care and preservation of United States property.

Article.	100 pistols.	100 rifles.	8 automatic rifles.	2 A. A. machine guns.	16 machine guns.	3 guns, 37 mm., 6-pounder tank guns.	4 guns or howitzers, F. A.	100 sets harness, double.	100 sets mess and personal equipment.	100 sets riding equipment, horse or mule.	1 bicycle.	1 motor cycle.	1 passenger car.	1 truck, 2-ton or less.	1 truck, over 2-ton.	1 trailer, cargo.	1 trailer, kitchen.	1 truck, machine shop.	1 ambulance.	1 airplane.	4-wheel animal-drawn vehicle.	2-wheel animal-drawn vehicle.	
Brushes:																							
Camel's hair brush, No. 1.....						1	1				1	1	1	1	1	1	1	1	1		1	1	
Casting steel wire.....																							
Hand scrubbing.....																							
Motor (similar to gasoline brush).																							
Paint, turpentine.....						3	4	1															
Paint, flat, black, 1-inch.....						6																	
Paint, flat, black, 3/4-inch.....						6																	
Paint, white, 1-inch diameter.....																							
Paint, white, 3/4-inch diameter.....																							
Sash, No. 3.....		1	4	2	2	2	2																
Sash, No. 5.....						2	2																
Varnish, No. 1-0.....																							
Varnish, No. 5-0.....				1		2	3																
Cloth:																							
Cotton flannel, 1 foot square.....	10	20				2	2					1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	20	1 1/2	1 1/2	
Crosses, quires 1.....																							
Emery, quires 2.....																							
No. 0.....																							
No. 1.....																							
No. 2.....																							
No. 3, medium.....																							
No. 5, coarse.....																							
Compound:																							
Cleaning (sal soda)..... pounds.....																							
Slushing..... gallons.....																							
Cork, rubber, for closing chamber.....		100																					
Cosmic, No. 80, soft..... quarts.....	1	2	1	1	1	1	2																

1 For 100 single sets or for 100 pack animals one-half the allowance is issued.

2 Allowance to be doubled in case of water wagons and water carts.

NOTE 31.—Cleaning and preserving material—Continued.

Article.	100 pistols.	100 rifles.	8 automatic rifles.	2 A. A. machine guns.	16 machine guns.	3 guns, 37 mm., 6 pound tank guns.	4 guns or howitzers, F. A.	100 sets harness, double.	100 sets mess and personal equipment.	100 sets riding equipment, horse or mule.	1 bicycle.	1 motorcycle.	1 passenger car.	1 truck, 2-ton or less.	1 truck, over 2-ton.	1 trailer, cargo.	1 trailer, kitchen.	1 truck, machine shop.	1 ambulance.	1 ultralight.	4-wheel animal-drawn vehicle.	2-wheel animal-drawn vehicle.			
Dressing, auto top, for leather or artificial leather, pounds.																									
Dressing, truck top, for canvas, do.																									
Dry-dip.																									
Span, brown, gallons.																									
Vanish, pounds.																									
Lye, powdered, do.																									
Mercaptan solution.																									
Aluminaum persulphate, bottles (233 tablets).		23	8	4	16																				
Sodium hydroxide, bottle; (233 tablets).		5	2	1	4																				
Naphthalene, flake, pounds.																									
Oil.																									
Clock, ounces.																									
Gun, parts.		2	8	10	2	32																			
Lined, hollow, gallons.																									
Lined, raw, pints.																									
Lubricating, engine, No. 1, gallons.																									
Neat-foot, gallons.																									
Recoil cylinder, Ordnance Department, gallons.																									
Shampoo, light, do.																									
Paint.																									
Aluminum, pints.																									
Camouflage—																									
Black, gallons.																									
Flack, do.																									
Green, do.																									
Yellow, do.																									
Heat-resisting, do.																									
O. D., standard, do.																									
O. D., standard, ready mixed, gallons.																									

Metal, reinforced rod lead, 7 gal- lons																				
Rubberine Special quick drying, O.D. do.					3															
Tire and rim do.												1								
Paper, cleaning, for optical instru- ments, Ordnance Department, reams																				
Patches, cut do.					1															
Petrolatum, 54 ounces do.	5	10	6	1 1/2	8															
Powder, scouring do.					5															
Primer, brown, enamel do.					10															
Sanipaper														3						
No. 00 do.										1										
No. 1 do.										1										
No. 1 1/2 do.										1										
No. 2 do.										1										
No. 2 1/2 do.										1										
SKUs, chains, 13 by 17 inches					1	1	4												4	1
Soup																				
Automobile																				
Saddle, Ordnance Standard Specification FN-272-0												1	2							
Soda ash, Ordnance Specification FN-313-0														300						
Soft do.						10	10													
White, Ordnance Standard Specification FN-313-0														300						
Soda ash, Ordnance Specification FN-313-0						35	10							150	10	30				
Sponges, 4-inch, Ordnance Specification FN-311-0																				
Sponges, coarse, large do.																				
Tubing, rubber, 2-inch section, Ord- nance Specification FN-238-0																				
Turpentine, Ordnance Specification FN-338-0																				
Varnish, coach do.						2	8													
Waste, cotton do.																				
Waste, rag do.																				
Waste, white cotton do.																				

1 Issued in time of war only.

2 Allowance to be doubled in case of water wagons and water carts.

Note 31.—Cleaning and preserving material—Continued.

Article.	For 1 A. A. gun, 3-inch or 75-mm.	For one 6-inch gun, 135-mm.	For one 8-inch howitzer.	For one 9.2-inch or 240-mm. howitzer.	For 1 railway gun, 6 to 10 inch, inclusive.	For 1 railway gun, howitzer, or mortar, 12 to 16 inch, inclusive.	For 1 railway carriage.	For 1 sea-coast gun, fixed including saluting gun.	For 1 sea-coast gun, fixed armament, 6 to 8 inch, inclusive.	For 1 sea-coast gun, 10 or 12 inch mortar, fixed armament.	For fixed armament, 12-inch sea-coast gun.	For 1 sea-coast gun, 14 to 16 inch, inclusive, fixed armament.	For 1 optical instrument for fire-control or other purposes.	For 1 plotting range, or deflection board.	For 1 submarine mine casemate.	For 1 submarine mine storehouse.	For 1 caterpillar tractor.
Alcohol, denatured..... gallons.																	
Brushes:																	
Camel's hair, round, No. 1.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Casting, steel wire.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hand scrubbing.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Motor (similar to gasoline brush).	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paint, flat chisel, 1-inch.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paint, flat chisel, 1-inch.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Varnish, No. 4-0.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Varnish, No. 5-0.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Slushing-sash tool, No. 6.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paint, No. 6-0.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paint, camel's hair, flat, 1-inch.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paint, camel's hair, flat, 1-inch.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dust, painter's, No. 2.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Brooms, whisk.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Burlap, 48 inches wide..... yards.	9	20	35	40	40	80	1	9	20	35	40	45	1	1	1	1	1
Chalk, white..... gross.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cloth:																	
Crocus quires.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Emery.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Compound:																	
New Era..... gallons.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Slushing..... quarts.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cocemic, No. 80, soft..... do.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Crayons, marking..... pounds.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dressing, truck top (for canvas)..... gallons.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Drier, varnish..... pounds.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fiber, vulcanized, sheet, 1-inch..... square feet.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Vulcanized, sheet, 1/2-inch..... do.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Graphite, flake..... pounds.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note 31.—Cleaning and preserving material—Continued.

Article.	For 1 A. A. gun, 3-inch or 75-mm.	For one 6-inch gun, 15-mm. gun, or 2-inch howitzer.	For one 9 1/2-inch or 240-mm. howitzer.	For 1 railway gun, 6 to 10 inch, inclusive.	For 1 railway gun, howitzer, or mortar, 12 to 16 inch, inclusive.	For 1 railway carriage.	For 1 seacoast gun, fixed armament, 3-inch, including saluting gun.	For 1 seacoast gun, fixed armament, 6 to 8 inch, inclusive.	For 1 seacoast gun, 10 or 12 inch mortar, fixed armament.	For 1 seacoast gun, 12-inch, fixed armament.	For 1 seacoast gun, 14 to 16 inch, inclusive, fixed armament.	For 1 optical instrument for fire-control or other purposes.	For 1 plotting range, or deflection board.	For 1 submarine mine casemate.	For 1 submarine mine storehouse.	For 1 caterpillar tractor.
Paint—Continued.																
Superior graphite, Spec. RM-440, stirode 508 gallons.	1 1/2			12	14		1 1/2	6	5	6	9					
Transparent lacquer do.								4	4	4	4					
White enamel finish ounces.				8	8											
White lead in oil pounds.											135					
Zinc, white do.																
Paint remover gallons.	1 1/2			2	2	2	1 1/2	1	1	1	1					1
Paint remover, for sewing do.	1 1/2			1	1											
Paper, cleaning, for optical instruments, reams, Ordnance Department quires																
Paper, emery quires																
Patches, canvas, for repairing breech and sight covers do.	3	3	3	3	3		3	3	3	3	3					
Polish, brass pints.																
Pots, paint (1-gallon) number.	1	1	1	1	1	1	1	1	1	1	1					
Powder, scouring pounds.	1	1	1	2	4		1	1	2	2	2					
Putz pomade do.	1	1	1	2	4		1	1	2	2	2					
Pumice stone do.																
Putty do.				2	2	1	1	1	1	1	1					
Sal soda do.	9	20	25	20	40		3	5	7	10	15					
Sandpaper quires	1	1	1	1	2		1	1	1	1	1					
Soap scouring cakes																
Sieve (for oil and paints) number																
Skins, chamods, 13 by 17 inches do.																
Soap:																
Castile pounds.																
Mechanic's hand do.																
Saddle, Ordnance Specification EN272-0 pounds.	1	3	3				5									6
Salt do.	2	3	3													
Soda ash, Ordnance Specification EN213-0 pounds.	1	2	2												24	3

Sponges, 5-inch, Ordnance Specification EN311-0.....	4	5	5	5	5	5														2	
Sponges, coarse, large.....	2	4	4	2	4	2	2	2	8												20
Turpentine, stand, spec.....	4	1	1	1	2	2	4	4		4	1	1	1	1	1	1	1	1	1		
Twine, fax.....	4	1	1	2	2	2	4	4													
Varnish, asphaltum.....	4	1	1	1	2	2	4	4													
Varnish, spar and coach.....	4	4	4	1	2	2	4	4		4	1	1	1	1	1	1	1	1	1		
Vaseline (6.5-ounce cans).....	12	4	4	4	4	4	4	4		12	30	30	30	50	70	70	50	50	50		
Waste, cotton.....					70	60	100	100													
Waste, rags.....																					
Waste, white cotton.....																					
Waste, wool (journal-box packing)....do.....							13	38								5					

* Saluting gun only.

NOTE 32.—Each desk, field, company, is equipped with index division cards as follows: 12 cards, January–December (yellow); 31 date cards, 1–31 (pink); 25 cards, A–Z (blue), and 14 miscellaneous cards (pink) with headings as follows: Noncommissioned officers; mechanics; privates, 1 cl. privates; returns; clothing; horses; target record; memoranda; first year; second year; third year; fourth year; and fifth year, all with celluloid tabs.

NOTE 33.—Each desk, field, regimental, is equipped with 1 typewriter (portable), ten (10) miscellaneous guide cards, of gray pressboard, $8\frac{1}{2}$ inches by $11\frac{1}{2}$ inches, with headings as follows: 1st Battalion; 2d Battalion; 3d Battalion Hq., Sup., Ord., MG Co., M. D.; Report of Changes; Roster; Document; Returns; Blank Forms; and Summary Court, all with celluloid tabs.

NOTE 34.—Mimeograph set, complete, comprises the following:

<i>Equipment.</i>	<i>Supplies.</i>
1 container, mimeograph.	6 brushes, varnish, with rubber stoppers, No. 262.
1 fountain, ink, complete (mounted on cradle).	6 brushes, Dermax, No. 856.
1 mimeograph, printing surface, $7\frac{1}{4}$ by 14 inches, Edlson-Dick, No. 78, or equivalent.	100 covers, cylinder protection for No. 78 mimeograph, No. 758.
1 outfit, signature writing, as follows:	10 bottles Dermax, No. 855.
1 stylus, writing No. 410 S.	10 pounds ink, mimeograph, No. 767.
1 stylus, ruling, No. 405.	6 pads, ink, No. 781, for No. 78 mimeograph.
	2 reams paper, mimeograph, 8 by $10\frac{1}{2}$ inches.
	6 quires paper, stencil, dermatype, No. 860.
	1 plate, flexible, signature, No. 552.
	6 bottles varnish, mimeograph, No. 260, 2-ounce.

NOTE 35.—Typewriter tools, set.

a. Underwood typewriter tools, 1 each.
 Hammer, T-1.
 Combination screw driver complete, T-2.
 Screw driver:
 $6\frac{1}{2}$ by $\frac{1}{4}$ inch blade, T-3.
 $4\frac{1}{2}$ by $\frac{3}{8}$ inch blade, T-4.
 6 by $\frac{1}{4}$ inch blade, T-5.
 5 by $\frac{3}{8}$ inch blade, T-6.
 Type-cutting pliers, T-7.
 Type-bar peeling pliers, T-9.
 Side aligning pliers, T-10.
 Wire nippers, T-12.
 Long flat nose pliers, T-13.
 Parallel pliers, $4\frac{1}{2}$ -inch, T-14.
 Three prong pliers, 6-inch, T-15.
 Universal bar twister, T-19.
 Type bar twister, T-20.
 Oil can, T-21.
 Dowel pin punches (set of 5), T-23.
 Center punch, T-24.
 Cylinder end counterbore, T-25.
 Soldering gauge, T-26.
 Steel anvil block, T-28.

a. Underwood typewriter tools—Continued.
 Hand vise, T-29.
 Rotary trip wrench, T-30.
 Aligning wrench, T-34.
 Soldering lamp, T-35.
 Cleaning brush, T-37.
 Tool bag, T-42.
 Pillar file, 6 by $\frac{1}{4}$ inch, T-47.
 Round file, 6-inch, T-48.
 Square file, 6-inch, T-49.
 Tweezers, T-62.
 Spring hook and scriber, T-110.
 Back spacer wrench, T-115.

b. Remington tools.

1 No. 9031 wiring pliers.
 1 No. 96500 wrench for pull ad. screw.
 1 No. 96508 socket aligning wrench.
 1 No. 96522 stubb screw driver.
 1 No. 9047 aligning screw driver.
 1 No. 96531 type inserting pliers.
 1 No. 96540 nine prongs, wide jaws.
 1 No. 96561 ribbon carrier stop twisted.

NOTE 36.—Alaskan clothing:

The following articles of Alaskan clothing and special Alaskan equipment will be issued to officers and men stationed in extremely cold regions when necessary and approved by the commanding officer. The commanding officer

authorizing such issues will certify that they are necessary on account of weather conditions which would otherwise jeopardize life or limb by freezing:

Boots, rubber, short, pair.
 Boots, water, muck-lucks, pair.
 Boots, winter, muck-lucks, pair.
 Cap, fur.
 Cover, tent, sled.
 Drawers, wool, knit.
 Gauntlets, horsehide, pair.
 Gloves, horsehide, pair.
 Gloves, Scotch wool, pair.
 Hat, Sou'wester.
 Headnet, bobinet.
 Insoles, felt, pair.
 Mittens, duck, pair.
 Mittens, fur, pair.
 Mittens, horsehide, pair.
 Mittens, Siwash, pair.
 Moccasins, mooshide, pair.

Overcoat, fur; or canvas lined.
 Parka, duck.
 Parka, fur.
 Parka, fur-trimmed.
 Pea jacket.
 Robe, skin.
 Shoes, felt, pair.
 Shoe pacs, pair.
 Skis, pair.
 Slicker, oilskin.
 Snowshoes, pair.
 Socks, rope.
 Socks, arctic.
 Sweater, worsted.
 Toque, worsted.
 Trousers, duck.
 Undershirt, wool, knit.

The following articles may be issued until supply is exhausted:

Mackinaw coats.
 Oilskin coats.
 Fleece-lined gloves.
 Buckskin mittens.
 Old pattern toque.

Kersey-lined trousers.
 Mackinaw trousers.
 Oilskin trousers.
 Fleece-lined undershirts.

NOTE 37.—Nurses' clothing.

a. To each member of the Army Nurse Corps a single initial outfit is authorized for issue upon entry into service. Thereafter nurses are required to maintain it, without expense to the United States.

2 pairs shoes, tan.
 1 Norfolk suit.
 6 white uniforms for ward duty.
 1 overcoat.
 1 raincoat.
 1 cape, lined with maroon.
 4 waists, cotton, white.
 1 waist, flannel.

1 shirt waist, silk, white.
 1 hat, silk beaver, for winter.
 1 hat, straw, for summer.
 1 pair kid gloves.
 1 trunk locker.
 2 sets insignia, United States.
 2 pairs insignia, badge of corps.

b. To each member of the Army Nurse Corps assigned to field or oversea service the following additional articles when in the opinion of the Surgeon General such additional issue is appropriate:

6 uniforms (cotton crêpe).
 1 woolen sweater.
 1 woolen muffler.
 1 blanket for use on transport.

1 bedding roll.
 1 pair olive-drab arctic (high).
 1 pair olive-drab woolen gloves.

c. The following articles will be issued to each nurse on duty in Alaska or similar climate:

1 coat, moleskin, lined with sheepskin.
 1 fur cap.

1 pair fur gloves.

Present navy blue woolen and gray cotton materials on hand will be issued. When new purchases of these articles are necessary they will be olive-drab in color, of the same color and approximately the same materials as the officers' clothing.

NOTE 38.—Polo equipment, set, comprises:

1 polo bridle, new model.	|	1 saddle, training, model 1916.
1 polo martingale, new model.		1 pair polo boots, new model.

An annual allowance of 150 pounds rim steel for polo shoes to each organization having polo equipment.

Issued in Equipment B at the rate of 8 per troop, 8 per battery in horsed artillery regiment, 8 per regiment of infantry and engineers (headquarters company), 12 per motorized field artillery regiment (headquarters company).

NOTE 39.—Equipment, chaplain's, sets, will be issued at the rate of 1 per organization to which a chaplain is assigned. Additional outfits will be issued as authorized by the commanding officer, not to exceed 1 per chaplain.

Set consists of the following:

1 field desk, regimental.	|	Chests, as container of books, according to number of song books issued.
1 folding organ.		
Song books, religious and patriotic, with appendix containing Scripture readings, according to needs, but not exceeding 300 per chaplain.		

NOTE 40.—A set of hoof branding irons consists of the numerals 0 to 9, inclusive, except 6, and the letters necessary to identify the company and arm of the service to which the organization belongs.

[400.345, A.G.O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
Major General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

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Arm chest, rifle	25	Candles	30
Articles charged against the soldier	5	Candles, lantern	30
Articles of clothing, enlisted men	8	Caulster, gas, extra	47
Axes, hand, intrenching	20	Canteen	10
Axes, with helves	25	Cap, fur	75
Bag, barrack	10	Cap, service	8
Bag, musette	13	Cap, white, cooks'	8
Bag, water sterilizing	25	Cap, winter	8
Baggage, allowance for officers	11	Cape, army nurses'	75
Band instruments, allowance of	32	Carpenters' tools, kit	28
Bandoleer, Browning automatic	20	Carrier, grenade	20
Bar, mosquito	10	Carrier, guidon or standard	20
Basin, folding	13	Carrier, intrenching	20
Baton	32	Carrier, pack	10
Battalion officers' mess equipment	55	Carrier, pick-mattock	20
Bayonet	20	Carrier, rifle grenade discharger	20
Bayonet scabbard	20	Carrier, shovel	20
Bedding roll for officers	13	Cartridges, caliber .30	20
Belt, cartridge, cal. 30, dismounted	10	Cartridges, pistol	20
Belt, cartridge, cal. 30, mounted	10	Cartridges, shot gun	20
Belt, cartridge, for pistol	10	Carts	60
Belt, magazine, for Browning automatic	20	Cases, Browning automatic	20
Belt, Sam Browne	13	Cases, dental technicians'	20
Belt, waist	8	Cases, metal, dental officers'	13
Belt, web, Hospital Corps	20	Cases, oiler and thong	21
Belt, web, medical officers'	13	Cases, pillow	13
Blacksmiths' tools	28	Cases, spare parts	21
Blankets, o. d.	10	Cavesson and longe	25
Box, for officers	12	Chairs, folding	25
Book, field message	13-20	Chaplains' equipment	25
Book, note	13	Chests, arm repair	25
Boots, for Alaskan service	74	Chests, chaplain's, for books	76
Boots, officers'	8	Chests, commissary	25
Boots, rubber, hip	8	Chests, for medical equipment	48 to 54
Boots, rubber, knee	8	Chests, tool	41 to 44
Brassards	8	Chevrons	8
Breeches	8	Chloride of lime	47
Breeches, kersey-lined	8	Cleaning materials	67
Brooms, corn	30	Clothing, Alaskan	74
		Clothing, allowances for enlisted men	8
		Clothing for recruits	19
		Clothing for warrant officers, Mine Planter Service	17

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Clothing issue to officers	5	Gloves, horsehide and Scotch wool	75
Clothing, nurses'	75	Gloves, leather	8
Clothing, officers'	13	Gloves, riding	9
Clothing roll, officers'	13	Gloves, woolen	9
Coal, smithing	25	Glycerin, gas equipment	47
Coats, fatigue	8	Goggles	9
Coats, mackinaw	8	Guidons	26
Coats, oilskin	8	Gun sling	21
Coats, service	8	Gun sling, automatic rifle	21
Coats, service, officers'	13	Handcuffs	26
Cobblers' tools, kit	29	Handkerchiefs	9
Collars, stock, white	8	Harness	26, 60
Colors	25	Hats, fatigue	9
Comb	10	Hats, nurses'	75
Comforter	10	Hats, oilskin	9
Compass, prismatic	21	Hats, service	9
Compass, watch	21	Haversack, infantry	11
Condiment can	11	Hay	30
Cords, hat	8	Head net	11
Cot	13	Helmet, steel	21
Cover, canteen	11, 13	Helmet, woolen	9
Cover, front sight	21	Hobnails	9
Cover, horse	21	Holster, pistol	22
Cover, rifle, caliber .30	21	Horse equipment	22
Cover, tent, sled	75	Horseshoers' tools	42
Cravat	8	Housewife	22
Cup	11	Ice	30
Cutter, wire, and carrier	21	Insoles, felt	75
Dental dispensary equipment	26	Instruments, band	32
Dental equipment, enlisted men's	25	Irons, branding	26
Dental equipment, officers'	16	Jerkin, leather	9
Depressor, follower, United States rifle, caliber .30, Model 1917	21	Keepers, leather	14
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Desk, field, regimental	26	Kits, flag, combination	26
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Dispensary equipment	48	Knife, electricians'	22
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Dubbin	11	Lampblack	30
Field glasses	14, 21	Lantern	26
Field service equipment for officers	11	Lantern, folding	14
Filler, magazine, automatic rifle	21	Lanyard, pistol	22
First-aid packet	11	Lariat	14, 22
Flag, distinguishing	26	Leggins, all types	9
Flashlights	14, 21	Leggins, leather	14
Foot powder	11	Lime	30
Forage	30	Litters	26
Fork	11	Location of equipment	2
Fork, stable	26	Locker, trunk	11, 14
Fountain pen	14	Lye	30
Fuel	30	Mackinaws	8
Flight surgeons' equipment	51	Magazines, extra, for pistol	22
Gas equipment	47	Magazines, for automatic rifle	22
Gas masks	47	Matches, safety	30
Gasolene	30	Meat can	11
Gauntlets	14	Medical Department equipment	26
General officers, baggage allowance of	13	Mimeograph set	26
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		Mirror	10

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Mittens.....	9, 75	Rations, reserve.....	27
Moccasins.....	75	Razor.....	10
Mops.....	30	Reclaimed clothing, issue of.....	6
Mounted officers' equipment.....	17	Recruit equipment and clothing.....	19
Nails, horseshoe.....	26	Replacement of equipment and clothing.....	4
National Guard.....	2	Reserve equipment.....	3
Net, hay.....	22	Reserve equipment, hospitals.....	19
Nurses' clothing and equipment, allowances of.....	75	Respirator, horse and mule.....	47
Officers' equipment.....	11	Riding equipment.....	22
Officers' mess outfits.....	27, 55	Rifle, automatic, Browning.....	22
Oil, crude.....	30	Rifle, caliber .30.....	22
Oil, mineral.....	30	Robe, skin.....	75
Oilskin coats and trousers.....	8	Rod, cleaning, barrack.....	22
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Organ, folding.....	76	Saber and scabbard, cavalry.....	15, 23
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Ornaments.....	9	Saddle.....	23
Overcoat, blanket-lined.....	9	Saddle, training.....	76
Overcoat, nurses'.....	75	Saddlers' set.....	29
Overcoat, olive drab.....	9	Safes, field.....	27
Overshoes, arctic.....	9	Salt, rock.....	31
Outfits, cooking, Philippine Islands Scouts.....	26	Saws, crosscut.....	27
Outfits, marking, leather.....	27	Scabbard, bayonet.....	23
Outfits, marking, metal.....	27	Scabbard, Browning, automatic.....	23
Outfits, reloading.....	27	Scabbard, rifle.....	23
Outfits, shoe fitting.....	27	Scales, folding.....	27
Outfits, shoe repair.....	27	Screw driver, United States rifle.....	23
Pack outfits.....	27	Service schools.....	7
Paper, toilet.....	31	Sets, harness-mender.....	27
Parka.....	75	Shirts, cotton.....	9
Paulins, large.....	27	Shirts, olive-drab.....	9
Paulins, small.....	27	Shirt waist, nurses'.....	75
Pea jacket.....	75	Shoes.....	9
Pickaxes.....	27	Shoes, Alaskan clothing.....	75
Pick-mattock, intrenching.....	22	Shoes, gymnasium.....	10
Pigeon bags, antigas.....	47	Shoes, horse and mule.....	27
Pins, shelter, tent.....	11	Shoes, nurses'.....	75
Pins, tentage.....	28, 45	Shotguns, riot type.....	23
Pistol, automatic.....	22	Shotguns, sporting type.....	23
Pliers, side cutting.....	22	Shovels, intrenching.....	23
Pocket, magazine, leather.....	14	Shovels, short-handled.....	27
Pocket, magazine, web.....	22	Skis.....	75
Pole, shelter tent.....	11	Slicker, ollskin.....	75
Pole, tentage.....	28, 45	Slides, leather.....	15
Polish, shoe.....	31	Slings, color.....	27
Polo equipment.....	27	Slippers.....	15
Posts and camps, permanent.....	7	Soap.....	10, 15
Pots, marking.....	27	Soap, hand.....	10
Pouches, first-aid.....	11	Soap, issue and scouring.....	31
Pouch, music.....	22	Soda.....	31
Pouch, small articles.....	22	Snowshoes.....	75
Powder, lime.....	31	Spoon.....	11
Preserving materials.....	67	Spurs and straps.....	23
Pouch, web, for shotgun ammunition.....	22	Standards.....	27, 28
Raincoats.....	9	Sticks, breech, rifle.....	23
Rakes, steel.....	27	Stockings.....	10
Ranges, field.....	27	Storage tents.....	28
Rations, field, garrison, reserve.....	27	Stoves, tent.....	28
		Straw.....	31
		Stretchers.....	28
		Summer clothing.....	6
		Supplies, additional.....	4

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Supply branches.....	7	Trousers, fatigue.....	10
Supply of equipment.....	3	Trousers, oilskin.....	10
Suspenders, cartridge-belt.....	23	Trousers, service.....	10
Suspenders, clothing.....	10	Typewriters.....	29
Suspenders, web.....	23	Undershirts.....	10
Sweaters.....	75	Undershirts, Alaskan service.....	75
Tables, folding.....	28	Vehicles.....	29, 56
Tags, personal equipment.....	28	Veterinary dispensary.....	41
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Tent and tentage.....	28	Veterinary equipment, officers'.....	16
Tent patch.....	28	Vinegar.....	31
Tent, shelter.....	11	Wagons.....	29, 56
Thong, United States rifle.....	23	Waists, nurses'.....	75
Toque, worsted.....	75	Wallet, veterinary.....	23
Toilet set.....	10	Wallet, veterinary officers'.....	23
Tools, band repair.....	28	Wallets, farriers.....	23
Tools, blacksmiths'.....	28	War set clothing.....	4
Tools, carpenters'.....	28	War set equipment.....	4
Tools, cobblers'.....	29	Warrant officers' clothing and equip- ment.....	11, 17
Tools, electricians'.....	29	Washbasins.....	29
Tools, motor vehicles.....	56	Watches.....	15, 29
Tools, horseshoers'.....	29	Wedges.....	29
Tools, typewriter repair.....	29	Whistles.....	15, 23
Towels.....	10	Winter clothing.....	6
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CIRCULAR
No. 170.

WAR DEPARTMENT,
WASHINGTON, June 25, 1921.

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR ORDNANCE TROOPS—SUPPLEMENTAL TO CIRCULAR 169, WAR DEPARTMENT, 1921—RESCISSION OF CIRCULAR NO. 220, WAR DEPARTMENT, 1920.

Circular No. 220, War Department, 1920, is rescinded and the following substituted therefor. These tables with notes prescribe the basic allowances of individual and organization equipment special for ordnance troops.

TABLE IV-K.
INDIVIDUAL EQUIPMENT.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
O Pistols, automatic, caliber .45, model 1911.	1	.....	To each enlisted man above grade six.
O Rifle, U. S. caliber .30, model 1908...	1	.....	Enlisted men grades six and seven armed with rifle when deemed necessary by commanding officer for training and guard duty.
Q Tape, steel, 50-foot.....	1	.....	To each first sergeant or acting first sergeant.

ORGANIZATION EQUIPMENT, PEACE-STRENGTH COMPANIES.

Q Kitchen, rolling-trailer.....	(a)	.....	<ul style="list-style-type: none"> a 1 per ordnance company (maintenance). a 1 per ordnance company (maintenance) with cavalry division. a 1 per ordnance company (heavy maintenance). a 1 per ordnance company (ammunition). a 1 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Q Motorcycle with side car.....	(a)	.....	<ul style="list-style-type: none"> a 2 per ordnance company (maintenance). a 2 per ordnance company (maintenance) with cavalry division. a 5 per ordnance company (heavy maintenance). a 2 per ordnance company (ammunition). a 2 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Trailers:			
O 4-ton crane.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Shop equipment (formerly Baggage).	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Bar stock and hacksaw.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Drill press.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Generator.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Lathe.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Milling machine.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.
O Parts and stockroom.....	(a)	.....	a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Parts and stockroom bin.....	(a)	.....	a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Welding and forge.....	(a)	.....	a 1 per ordnance company (heavy maintenance). See handbook 1981.

TABLE IV-K—Continued.

ORGANIZATION EQUIPMENT, PEACE-STRENGTH COMPANIES—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Trucks:			
Q 1-ton.....	(a)		<ul style="list-style-type: none"> • 2 per ordnance company (maintenance). • 4 per ordnance company (maintenance) with cavalry division. • 3 per ordnance company (heavy maintenance). • 1 per ordnance company (ammunition). • 1 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Q 3-ton, cargo.....	(a)		<ul style="list-style-type: none"> • 4 per ordnance company (maintenance). • 2 per ordnance company (maintenance) with cavalry division. • 6 per ordnance company (heavy maintenance). • 2 per ordnance company (ammunition). • 2 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Q Gasoline tank.....	(a)		<ul style="list-style-type: none"> • 1 per ordnance company (maintenance). • 1 per ordnance company (heavy maintenance). See note 30, Cir. No. 169, W. D. 1921.
O Air compressor.....	(a)		<ul style="list-style-type: none"> • 1 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Artillery repair.....	(a)		<ul style="list-style-type: none"> • 3 per ordnance company (maintenance) assigned to an infantry division. • Issued to an ordnance company (maintenance) assigned to a brigade of motorized artillery on the basis of 1 per battalion of motorized artillery in the brigade. • 2 per ordnance company (maintenance) assigned to a small-arms repair center. • 9 per ordnance company (heavy maintenance). See handbook 1962 (body) and 1997 (chassis). See note 30, Cir. No. 169, W. D. 1921.
O Artillery supply, load D.....	(a)		<ul style="list-style-type: none"> • 3 per ordnance company (maintenance) assigned to an infantry division. • Issued to ordnance company (maintenance) assigned to a brigade of motorized artillery on the basis of 1 per battalion of motorized artillery in the brigade. • 2 per ordnance company (heavy maintenance). • 2 per ordnance company (maintenance) assigned to a small-arms repair center. See handbook 2004 (body) and 1997 (chassis). See note 30, Cir. No. 169, W. D. 1921.
O Artillery supply, load B.....	(a)		<ul style="list-style-type: none"> • 3 per ordnance company (maintenance) assigned to an infantry division. • Issued to an ordnance company (maintenance) assigned to a brigade of motorized artillery on the basis of 1 per battalion of motorized artillery to the brigade.

TABLE IV-K—Continued.
 ORGANIZATION EQUIPMENT, PEACE-STRENGTH COMPANIES—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Trucks—Continued.			
O Artillery supply, load B (contd.)			• 2 per ordnance company (maintenance) assigned to a small-arms repair unit.
O Shop equipment (formerly Baggage).	(e)		• 2 per ordnance company (heavy maintenance). See handbook 2004 (body) and 1907 (chassis). See note 30, Cir. No. 169, W. D. 1921.
O Light repair	(e)		• 1 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Office	(e)		• 2 per ordnance company (maintenance). • 2 per ordnance company (maintenance) with cavalry division.
O Power saw	(e)		• 2 per ordnance company (heavy maintenance). See handbook 2007. See note 30, Cir. No. 169, W. D. 1921.
O Small-arms repair (equipment repair).	(e)		• 1 per ordnance company (heavy maintenance). See handbook 1918. See note 30, Cir. No. 169, W. D. 1921.
O Spare parts	(e)		• 2 per ordnance company (maintenance) assigned to an infantry division.
O Tool room	(e)		• 3 per ordnance company (maintenance) with cavalry division.
O Carr:			• 1 per ordnance company (maintenance) assigned to a brigade of motorized artillery.
O Railway repair	(e)		• 4 per ordnance company (maintenance) assigned to a small-arms repair center.
O Railway shop supply	(e)		• 2 per ordnance company (heavy maintenance). See handbook 1963. See note 30, Cir. No. 169, W. D. 1921.
O Spare parts	(e)		• 6 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Tool room	(e)		• 6 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Railway repair	(e)		• 3 per ordnance company (maintenance) assigned to a regiment of railway artillery.
O Railway shop supply	(e)		• 3 per ordnance company (maintenance) assigned to a regiment of railway artillery.

ORGANIZATION EQUIPMENT, WAR-STRENGTH COMPANIES.

Q Kitchen, rolling-trailer	(a)		• 1 per ordnance company (maintenance).
			• 2 per ordnance company (heavy maintenance).
			• 1 per ordnance company (ammunition).
			• 1 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.

TABLE IV-K—Continued.

ORGANIZATION EQUIPMENT, WAR-STRENGTH COMPANIES—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Q Motorcycle with side car	(a)		a 4 per ordnance company (main- tenance). a 8 per ordnance company (heavy maintenance). a 4 per ordnance company (ammuni- tion). a 4 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Trailers:			
O 4-ton crane	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Shop equipment (formerly Bag- gage)	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Bar stock and hack saw	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Drill press	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Generator	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Lathe	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Milling machine	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981.
O Parts and stockroom	(a)		a 4 per ordnance company (heavy maintenance). See handbook 1981.
O Parts and stockroom bin	(a)		a 6 per ordnance company (heavy maintenance). See handbook 1981.
O Welding and forge	(a)		a 2 per ordnance company (heavy maintenance.) See handbook 1981.
Trucks:			
Q $\frac{1}{2}$ -ton	(a)		a 2 per ordnance company (main- tenance). a 4 per ordnance company (heavy maintenance). a 2 per ordnance company (ammuni- tion). a 2 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Q 3-ton cargo	(a)		a 3 per ordnance company (main- tenance). a 6 per ordnance company (heavy maintenance). a 4 per ordnance company (ammuni- tion). a 4 per ordnance company (depot). See note 30, Cir. No. 169, W. D. 1921.
Q Gasoline tank	(a)		a 1 per ordnance company (main- tenance). a 2 per ordnance company (heavy maintenance). See note 30, Cir. No. 169, W. D. 1921.
O Air compressor	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Office	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Power saw	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Small-arms repair (equipment repair)	(a)		a 2 per ordnance company (main- tenance) assigned to an infantry divi- sion. a 1 per ordnance company (main- tenance) assigned to a brigade of motorized artillery.

TABLE IV-K—Continued.

ORGANIZATION EQUIPMENT, WAR-STRENGTH COMPANIES—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Trucks—Continued.			
O Small-arms repair (continued).....			a 4 per ordnance company (maintenance) assigned to a small-arms repair center.
O Spare parts.....	(a)		a 4 per ordnance company (heavy maintenance). See handbook 1963. See note 30, Cir. No. 169, W. D. 1921.
O Tool room.....	(a)		a 12 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Artillery repair.....	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921.
O Artillery supply, load D.....	(a)		a 3 per ordnance company (maintenance) assigned to an infantry division. a Issued to ordnance company (maintenance) assigned to a brigade of motorized artillery on the basis of 1 per battalion of motorized artillery in the brigade. a 2 per ordnance company (maintenance) assigned to a small-arms repair center. a 9 per ordnance company (heavy maintenance). See handbook 1962 (body) and 1997 (chassis). See note 30, Cir. No. 169, W. D. 1921.
O Artillery supply, load B.....	(a)		a 3 per ordnance company (maintenance) assigned to an infantry division. a Issued to ordnance company (maintenance) assigned to a brigade of motorized artillery on the basis of 1 per battalion of motorized artillery in the brigade. a 2 per ordnance company (maintenance) assigned to a small-arms repair center. a 11 per ordnance company (heavy maintenance). See handbook 2004 (body) and 1997 (chassis). See note 30, Cir. No. 169, W. D. 1921.
O Shop equipment (formerly Baggage).	(a)		a 3 per ordnance company (maintenance) assigned to an infantry division. a Issued to ordnance company (maintenance) assigned to a brigade of motorized artillery on the basis of 1 per battalion of motorized artillery in the brigade. a 2 per ordnance company (maintenance) assigned to a small-arms repair center. a 9 per ordnance company (heavy maintenance). See handbook 2004 (body) and 1997 (chassis). See note 30, Cir. No. 169, W. D. 1921.
O Light repair.....	(a)		a 2 per ordnance company (heavy maintenance). See handbook 1981. See note 30, Cir. No. 169, W. D. 1921. a 2 per ordnance company (maintenance). See handbook 2007. See note 30, Cir. No. 169, W. D. 1921.

TABLE IV-K—Continued.

ORGANIZATION EQUIPMENT, WAR-STRENGTH COMPANIES—Continued.

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Cars:			
O Railway repair.....	(*)	a 3 per ordnance company (main- tenance) assigned to a regiment of railway artillery.
O Railway shop supply.....	(*)	a 3 per ordnance company (main- tenance) assigned to a regiment of railway artillery.

[400. 345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

PEYTON C. MARCH,
Major General, Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

(Cir. 179)

Circular
No. 179

WAR DEPARTMENT,
Washington, July 8, 1921.

ICE FOR THE FISCAL YEAR 1922.

The following, contained in Circular No. 169, War Department, 1921 (Tables of basic allowances), which is in course of publication and supersedes Circular No. 152, War Department, 1920, is published for the information and guidance of all concerned:

A B

ICE: :(b): b. One pound per man per day for organizations of enlisted men not exceeding 100 men; for organizations of enlisted men exceeding 100 men, not to exceed 100 pounds per day; for preservation of subsistence stores the minimum quantity actually necessary and authorized by the commanding officer. No issues will be made to offices or workshops. To troops stationed north of the thirty-seventh parallel of north latitude and where from any cause it is impracticable to cut and store ice for their use, the allowance will be for seven months only, beginning April 1 and ending October 31, except in the States of Washington, Oregon, and Idaho, where during the remainder of the year one-half of such allowance may be issued, and in the State of California, where the full allowance may be issued for the entire year. To troops stationed south of the thirty-seventh parallel of north latitude, the full allowance may be issued for the entire year. At posts where it is practicable during the cold season to cut and store ice required, no issues of ice will be allowed from funds of the Quartermaster Corps as long as such stored ice is available.

(465,A.G.O.)

By order of the Secretary of War:

Official ~~copy~~ ~~of~~ ~~the~~ ~~War~~ ~~Department~~ ~~July~~ ~~8~~ ~~1921~~
J. T. KERR,
Adjutant General.

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.



(Cir. 205)

Circular
No. 205.

WAR DEPARTMENT,
Washington, August 3, 1921.

EQUIPMENT TO BE KEPT AT THE STATION OF EACH
MOBILE UNIT OF THE REGULAR ARMY.

In Circular No. 169, War Department, 1921 (Tables of basic allowances-Rescission of Circular No. 152, War Department, 1920), which is too long to be mimeographed and is being printed, subparagraph a, paragraph 3, Circular No. 152, War Department, 1920 (Tables of basic allowances), as amended by Circular No. 52, War Department, 1921, will read as follows:

3. a. The following equipment will be kept at the station of each active mobile unit of the Regular Army:

Equipment A, Tables II, III and IV, less animals, for war strength (war set for field and garrison service).

Equipment A and B, Table I, and Equipment B, Tables II, III and IV, for peace strength, except that at the stations of organized divisions maintained at war strength there will be kept a supply of Equipment A, Table I (war set for field and garrison service), including equipment issued to troops, sufficient to equip the divisions at war strength.

Equipment not necessary for the proper supply of the strength actually present, will be stored at the station of regimental or separate battalion headquarters, provided that should storage facilities not exist at such station for any part of this equipment or other special reasons render storage there undesirable, it will be stored as directed by the department or corps area commander.

Equipment A, Tables I, II, III and IV, less animals, for war strength for inactive mobile units of the Regular Army will be held by the different supply branches responsible for its storage and issue at the nearest practicable point to its active associate organization.

This equipment for inactive mobile units will be kept complete at all times and in condition for immediate issue, segregated and tagged for the unit to which it pertains, and its active associate organization will be kept informed of its location.

Should an active associate organization responsible for an inactive unit and the inactive unit change station,

File

(Cir. 205)

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chiefs of supply branches will cancel the allocations of equipment in storage for the inactive unit when it is practicable to set up new allocations in storage for such equipment, nearer the new station of the active associate organization.

(400.345,A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

fm

CIRCULAR }
No. 276. }

WAR DEPARTMENT,
WASHINGTON, October 26, 1921.

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR INFANTRY.

Circular No. 80, War Department, 1920, as amended by Circular No. 167, War Department, 1920, is rescinded and Circular No. 169, War Department, 1921 (Tables of Basic Allowances), is supplemented by the following Table IV-A, with notes, prescribing the basic allowances of individual and organization equipment special to the Infantry. The allowances prescribed herein will govern in any conflict with other War Department publications.

TABLE IV-A.

SECTION I.—Armament and miscellaneous equipment.	SECTION V.—Signal and communication equipment.
SECTION II.—Engineering equipment.	SECTION VI.—Transportation (animal, pack, and vehicle).
SECTION III.—Fire-control equipment.	
SECTION IV.—Machine gun, 37-mm. gun, and 3-inch trench mortar equipment.	

SYMBOLS OF SUPPLY BRANCH.

A. G.—The Adjutant General of the Army.	M.—Medical.
A. S.—Air Service.	O.—Ordnance.
C.—Chemical Warfare.	Q.—Quartermaster.
E.—Engineer.	S.—Signal.

SECTION I.—ARMAMENT AND MISCELLANEOUS EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
O	Ammunition.....	(a)	.....	a See note 19.
O	Attachment (blank ammunition) for automatic rifle.....	(a)	.....	a 1 per automatic rifle.
O	Bayonet, with scabbard.....	(a)	.....	a As per Table II.
Q	Bodies, picket pin, complete, with eyes.....	(a)	.....	a 2 for every 25-foot section of picket rope issued.
O	Bolo, with scabbard.....	(a)	.....	a 3 per platoon of rifle company, 1 per squad of machine-gun company, 2 per communication platoon of regimental and battalion headquarters companies, 2 per section of howitzer company.
Q	Case:			
	Dispatch.....	(a)	.....	a 1 per master sergeant.
	Record.....	(a)	.....	a 1 per first sergeant, technical sergeant, and staff sergeant.
O	Case, carrying, automatic rifle.....	(a)	.....	a 1 per automatic rifle.
Q	Cutters, wire, heavy, with carrier.....	(a)	.....	a 3 per platoon in rifle, machine, gun, and howitzer companies. Carried in combat wagon.
O	Discharger, rifle grenade, with carrier.....	(a)	.....	a 1 per squad in rifle company; 1 per regimental headquarters company; battalion headquarters company; howitzer company and machine-gun company. Carried in combat train.

TABLE IV-A—Continued.

SECTION I.—ARMAMENT AND MISCELLANEOUS EQUIPMENT—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
O	Field glasses..... (War strength units.) ¹	(a)	.....	<p>a BRIGADE HEADQUARTERS COMPANY.</p> <p>1 per company headquarters. 4 per communication platoon. 1 per intelligence platoon.</p> <p>REGIMENTAL HEADQUARTERS COMPANY</p> <p>1 per company headquarters. 3 per communication platoon. 2 per intelligence platoon.</p> <p>BATTALION HEADQUARTERS COMPANY.</p> <p>1 per acting first sergeant. 2 per communication platoon. 6 per intelligence platoon.</p> <p>RIFLE COMPANY.</p> <p>1 per company headquarters. 1 per platoon.</p> <p>MACHINE-GUN COMPANY.</p> <p>3 per company headquarters. 3 per platoon.</p> <p>HOWITZER COMPANY.</p> <p>1 per company headquarters. 3 per platoon.</p>
Q	Flag, distinguishing.....	(a)	.....	a 1 per infantry brigade.
O	Glass, reading, 4½-inch, with case.	(a)	.....	a 1 per regimental and brigade headquarters; 1 per battalion headquarters.
O	Gun, machine, heavy.....	(a)	(b)	a 4 per machine gun platoon (extra spare guns will be carried in M. O. R. S.).
O	Gun, 37-mm.....	(a)	.....	b 4 per machine-gun platoon.
O	Magazine for automatic rifle...	(a)	.....	a 1 per 1-pounder section of howitzer company.
O	Mortar, trench, 3-inch, Stokes..	(a)	.....	<p>a 72 per automatic rifle; 50 carried in combat wagon; 10 carried by automatic riflemen; 2 carried by each other member of squad, except rifle grenadier. Automatic riflemen provided with old model 5 pocket magazine belt, carry 8 magazines in belt and 2 in bandoleer; when provided with assistant automatic rifleman's belt, carry 6 magazines in belt and 4 in bandoleer; when provided with new 6-pocket magazine belt, carry 10 magazines in belt. Spare parts case carried in belt.</p> <p>a 1 per light mortar section of howitzer company.</p>

¹ For peace strength organizations, allowance is 4 to brigade headquarters, 4 to regimental headquarters, 4 to battalion headquarters, 4 to rifle companies, 6 to machine-gun companies, and 6 to howitzer companies.

TABLE IV-A—Continued.

SECTION I.—ARMAMENT AND MISCELLANEOUS EQUIPMENT—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
O	Pistol..... (For allowances of pistols for headquarters and service company, howitzer and tank company, and machine-gun company of training center regiment, see note 26.)	(a)		* BRIGADE HEADQUARTERS COMPANY. 1 per enlisted man, except barber, cobbler, tailor, wagoner, and such messengers as are not motorcyclists or bicyclists. REGIMENTAL HEADQUARTERS COMPANY. 1 per enlisted man, except barber, cobbler, tailor, members of field force intelligence platoon, two members of visual section, and such messengers as are not motorcyclists or bicyclists. BATTALION HEADQUARTERS COMPANY. 1 per sergeant (all grades), cook, clerk, motorcyclist, bicyclist, and chauffeur. RIFLE COMPANY. 1 per first sergeant, platoon sergeant, mess sergeant, supply sergeant, company clerk, bugler, and cook. MACHINE-GUN COMPANY. 1 per enlisted man, except reconnaissance sergeant, signalmen, barber, cobbler, tailor, saddler, mechanic, and such messengers as are not motorcyclists or bicyclists. HOWITZER COMPANY. 1 per enlisted man, except barber, cobbler, tailor, mechanic, runners, and such agents as are not bicyclists. SERVICE COMPANY. 1 per member of band section, sergeant (all grades), wagon master, company clerk, cook, horseshoer, operator shoe-repair machine, storekeeper, and rated clerk.
O	Pocket, loop, for automatic rifle magazine.	(a)		* When issued, distribution same as now shown in Table II for bandoleer.
O	Rifle.....	(a)		* 1 per enlisted man, except those armed with automatic rifles or pistols.
O	Rifle, star-gauged, fitted for telescopic sight.	(a)		* 4 per rifle company in lieu of ordinary rifles for use with telescopic sights.
O	Rifle, automatic.....	(a)		* 1 per squad in rifle company.
Q	Rope, picket, 25-foot sections.	(a)		* 1 per 10 animals or fraction thereof.
Q	Rope, picket line, 1½-inch or cable.		(b)	* As ordered by local commanding officer.
O	Score hook (Soldiers' Hand Book of the Rifle).	(a)		* 1 per soldier per year firing range rifle practice.
O	Sight, front area, antiaircraft, for automatic rifle.	(a)		* 1 per each 3 automatic rifles or fraction thereof.
	Trench equipment.....	(a)		* See note 24.

TABLE IV-A—Continued.

SECTION II.—ENGINEERING EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
E	Carpenter equipment, field, Engineers.	(e)	.....	a 1 per pioneer platoon of headquarters company (see note 1).
E	Demolition equipment, field, Infantry.	(e)	.....	a 1 per pioneer platoon of headquarters company (see note 2).
E	Drafting equipment, company, Engineers.	(e)	.....	a 1 per brigade; 1 per regiment; normally issued to intelligence section (see note 3).
E	Intrenching equipment.	(e)	.....	a 2 per regiment, peace strength; 1 per battalion, war strength. When regiment is attached to and serving with division, the intrenching equipment (wagon and contents) will be assigned to Engineer regiment of division. When regiment is detached from division, and when necessary, intrenching equipment will be transferred to the commanding officer service company, Infantry (see note 4).
E	Pioneer equipment, field, Engineer.	(e)	.....	a 1 per pioneer platoon of headquarters company (see note 5).
E	Sketching outfit, complete.	(e)	.....	a 1 per battalion; 1 per headquarters company (see note 6).
			(b)	b 1 per rifle, howitzer, and machine-gun company.

SECTION III.—FIRE-CONTROL EQUIPMENT.

<i>a. Machine-gun company.</i>				
O	Box, night, firing, with battery, cable, and lamps, complete.	(e)	.....	a 1 per gun.
O	Clinometer, M. G., complete.	(e)	.....	Do.
O	Compass, lensatic, complete.	(e)	.....	a 1 per platoon and 1 additional per company.
O	Graph, trajectory.	(e)	.....	a 4 per gun.
O	Instrument, angle of site, complete.	(e)	.....	a 1 per platoon and 1 additional per company.
O	Protractor, alidade (lensatic, compass type).	(e)	.....	a 1 per gun and 1 additional per company.
O	Protractor, machine-gun (semicircular).	(e)	.....	a 1 per platoon and 1 additional per company.
O	Range finder, complete.	(e)	.....	Do.
O	Rule, zinc.	(e)	.....	Do.
O	Sights:			
	Luminous, front and rear.	(e)	.....	a 1 per gun.
	Machine-gun, panoramic, complete, with tripod.	(e)	.....	a 1 per gun and 1 additional per company.
	Front area, antiaircraft.	(e)	.....	a 1 to each 2 guns.
O	Squares, zinc.	(e)	.....	a 1 per platoon and 1 additional per company.
O	Stakes, aiming, luminous.	(e)	.....	a 1 per gun.
A. G.	Tables, indirect fire.	(e)	.....	a 4 per gun.
O	Tables, plane, 40-cm., square, complete.	(e)	.....	a 1 per platoon and 1 additional per company.
<i>b. Howitzer company.</i>				
O	Clinometer, light mortar.	(e)	.....	a 1 per light mortar.
O	Compass, lensatic, with case.	(e)	.....	a 1 per gun.
O	Protractor, alidade (lensatic, compass type).	(e)	.....	a 2 per platoon.
O	Protractor (semicircular).	(e)	.....	Do.
O	Range finder, complete.	(e)	.....	a 1 per company.
O	Rule, zinc, 40-cm.	(e)	.....	a 2 per platoon.

TABLE IV-A—Continued.

SECTION III.—FIRE-CONTROL EQUIPMENT—Continued.

Branch.	Articles of equipment.	A	B	Remarks and basis of issue.
	<i>b. Howitzer company—Con.</i>			
O	Sights: Quadrant, 37-mm., Infantry.	(a)	.....	a 1 per gun.
	Telescopic, 37-mm.....	(a)	.....	Do.
O	Squares, zinc.....	(a)	.....	a 1 per platoon and 1 additional per company.
A. G.	Tables: Fire-control, 37-mm.....	(a)	.....	a 2 per gun.
	Fire-control, light mortar.....	(a)	.....	a 2 per light mortar.
O	Tables, plane, 40-cm., square, complete.	(a)	.....	a 2 per platoon.
	<i>c. Rifle company.</i>			
O	Sights, telescopic musket, for rifle, caliber .30, complete, with case.	(a)	.....	a 4 per company.

SECTION IV.—MACHINE GUN, 37-MM. GUN AND LIGHT MORTAR EQUIPMENT.

	<i>a Machine-gun company.</i>			
O	Attachment (blank ammunition) for heavy machine gun.	(a)	.....	a 1 per gun.
O	Barrel, spare.....	(a)	.....	a 3 per gun (1 with gun and 2 in combat train).
O	Belt, filling machine, with box (each box contains 12 extra needles).	(a)	.....	a 1 per platoon and 1 in reserve, normally carried in combat train. May be issued to platoons when detached.
O	Belt, ammunition, 250 rounds.	(a)	.....	a 17 per gun carried on carts; 23 per gun carried in combat train.
O	Books, machine-gun (record).....	(a)	.....	a 1 per gun.
O	Boxes: Ammunition.....	(a)	.....	a 17 per gun carried on carts; 23 per gun carried in combat train.
	Spare parts.....	(a)	.....	a 1 per section of 2 guns (see note 7).
	Water.....	(a)	.....	a 4 per gun.
O	Covers: Canvas, machine-gun.....	(a)	.....	a 1 per gun.
	Spare barrel.....	(a)	.....	a 1 per spare barrel.
O	Device, steam-condensing.....	(a)	.....	a 1 per gun.
O	Flash hider.....	(a)	.....	Do.
O	Gunner's pouch.....	(a)	.....	Do.
A. G.	Handbook (Machine-Gun Service Regulations, sec. 22).	(a)	.....	Do.
O	Hatchets, broad.....	(a)	.....	a 1 per gun cart.
O	Mittens, asbestos, pair.....	(a)	.....	a 1 per gun.
O	Outfit, repair, machine-gun cart.	(a)	.....	a 1 per gun, carried on gun and ammunition cart (see note 9).
O	Paulin for cart.....	(a)	.....	a 1 per cart.
O	Pick mattock.....	(a)	.....	a 1 per gun cart.
O	Rod, cleaning.....	(a)	.....	a 1 per gun.
O	Ropes, emergency, for cart.....	(a)	.....	a 1 per cart.
O	Shaft, spare, for cart.....	(a)	.....	a 1 per ammunition cart.
O	Shovel, short-handled.....	(a)	.....	a 1 per gun cart.
O	Sling, ammunition, carrying web.	(a)	.....	a 7 per squad.
O	Tripod.....	(a)	.....	a 1 per gun.

TABLE IV-A—Continued.

SECTION IV.—MACHINE GUN, 37-MM. GUN AND LIGHT MORTAR EQUIPMENT—Contd.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
	<i>b. Howitzer company.</i>			
O.	Boxes, ammunition, 37-mm. gun.	(a)	.....	a 14 per gun.
O	Carriage, 37-mm. gun.....	(a)	.....	a 1 per gun.
O	Handbooks: 37-mm. gun.....	(a)	.....	a 2 per gun.
	Light mortar.....	(a)	.....	a 1 per light mortar.
O	Hatchets, broad.....	(a)	.....	a 1 per cart.
O	Outfits, repair, 37-mm. guns and light-mortar carts.	(a)	.....	a 1 per section (see note 8). Present machine-gun cart and harness to be issued for light mortar.
O	Pickaxes with helms.....	(a)	.....	a 1 per cart.
O	Ropes, emergency, for 37-mm. gun, light mortar and light- mortar ammunition cart.	(a)	.....	a 1 per cart. Present machine-gun cart and harness to be issued for light mortar and light-mortar ammunition carts.
O	Shovels, short-handled.....	(a)	.....	a 1 per cart.
O	Spare parts and accessories, sets: For 37-mm. gun.....	(a)	.....	a 1 per gun (see note 10).
	For light mortar.....	(a)	.....	a 1 per light mortar (see note 11).

SECTION V.—SIGNAL COMMUNICATION EQUIPMENT.

S	Bag, tool-service, complete....	(a)	.....	a 1 per communication platoon, bri- gade, regiment, and battalion (see note 12).
Q	Bar, crow and digging.....	(a)	.....	a 1 per communication platoon of each brigade and regiment.
S	Batteries: Type BA-1.....	(a)	.....	a 2 per telephone, type EE-4 (1 spare); 2 per monocoed switchboard opera- tor's set (1 spare); 2 per Universal test set (1 spare); 4 per service buzzer (2 spares); 4 per buzzer phone (2 spare).
	Type BA-2.....	(a)	.....	a 10 per U. W. loop radio set, type SCR-77; 10 per U. W. radio telegraph set, type SCR-130; 5 per low-fre- quency amplifier set, type SCR-121 (all spare).
	Type BA-9.....	(a)	.....	a 3 per telephone, type EE-5 (2 spare).
	Type BA-11.....	(a)	.....	a 4 per signal lamp, type EE-6; 8 per signal lamp, type EE-7 (all spare).
S	Blank forms, message center: Register.....	(a)	.....	a 100 per communication platoon, bri- gade, regiment, and battalion.
	Delivery sheet.....	(a)	.....	a 500 per communication platoon, bri- gade, and regiment; 200 per commu- nication platoon battalion.
S	Buzzers, service.....	(a)	.....	a 4 per communication platoon brigade; 3 per communication platoon regi- ment; 1 per communication platoon battalion.
S	Buzzer phones.....	(a)	.....	a 3 per communication platoon brigade; 5 per communication platoon regi- ment.
S	Cases, battery, type CS-8.....	(a)	.....	a 1 per communication platoon, bri- gade and regiment.
S	Chests, type BC-5.....	(a)	.....	a 3 per communication platoon, each brigade and regiment; 1 per commu- nication platoon, each battalion.
S	Cipher device.....	(a)	.....	a 2 per communication platoon, each brigade and regiment; 1 per commu- nication platoon, each battalion.

TABLE IV-A—Continued.

SECTION V.—SIGNAL COMMUNICATION EQUIPMENT—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
S	Clips, testing Frankel.....	(a)	.....	a 2 per telephone, type EE-5, Universal test set and telephone switchboard; 4 per wire cart, 2-horse; 6 per radio set.
S	Envelopes, field message.....	(a)	.....	a 500 per communication platoon, brigade and regiment; 200 per communication platoon battalion.
S	Fuses, 1-ampere, monocord....	(a)	.....	a 8 per switchboard, 4 lines; 24 per switchboard, 12 lines.
S	Grips, Buffalo, with pulleys, complete, pairs.....	(a)	.....	a 1 per communication platoon, brigade and regiment.
S	Ground rods, type GP-16.....	(a)	.....	a 8 per communication platoon brigade; 6 per communication platoon regiment; 4 per communication platoon battalion.
O	Holster, Very pistol.....	(a)	.....	a 1 per Very pistol.
Q	Hook, brush.....	(a)	.....	a 1 per communication platoon, brigade, regiment, and battalion.
S	Hydrometer.....	(a)	.....	a 1 per communication platoon, brigade, regiment, and battalion.
S	Kits, inspector pocket.....	(a)	.....	a 1 per wire cart, radio set, and telephone switchboard (see note 21).
S	Kits, soldering, complete.....	(a)	.....	a 1 per communication platoon, brigade and regiment (see note 13).
S	Lineman's equipment, complete.....	(a)	.....	a 2 per communication platoon, brigade and regiment; 1 per communication platoon battalion (see note 14).
S	Panels:			
	Infantry brigade set.....	(a)	.....	a 1 per communication platoon brigade.
	Infantry regiment set.....	(a)	.....	a 1 per communication platoon regiment.
	Infantry battalion set.....	(a)	.....	a 1 per communication platoon battalion.
	Infantry marking.....	(a)	.....	a 3 per squad, rifle company (see note 15).
S	Pike, wire.....	(a)	.....	a 3 per wire cart, 2-horse.
O	Pyrotechnics.....	(a)	.....	a See note 23.
S	Reel carts, hand, pack.....	(a)	.....	a 2 per communication platoon brigade; 3 per communication platoon regiment; 1 per communication platoon battalion.
Q	Saws, hand, cross-cut, 8-point, 26 inches.....	(a)	.....	a 1 per communication platoon, brigade, regiment, and battalion.
S	Set, monocord operators.....	(a)	.....	a 2 per communication platoon, brigade and regiment; 1 per communication platoon battalion.
S	Set test, Universal.....	(a)	.....	a 2 per communication platoon, brigade and regiment.
S	Set box, type BC-101..... (Set low-frequency, amplifier, type SCR-121, to be issued until supply is exhausted.)	(a)	.....	a 1 per radio telegraph set, type SCR-105.
S	Set, radiotelegraph, type SCR-105.....	(a)	(b)	a 1 per communication platoon, brigade and regiment. b 1 per communication platoon, brigade and regiment, where two sets in the opinion of the commanding officer can not otherwise be made available for training purposes.
S	Set, U. W. loop, radiotelegraph, type SCR-77.....	(a)	(b)	a 2 per communication platoon regiment; 1 per communication platoon battalion. b 1 per communication platoon battalion when two sets in the opinion of the commanding officer can not otherwise be made available for training purposes.

TABLE IV-A—Continued.

SECTION V.—SIGNAL COMMUNICATION EQUIPMENT—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
S	Set, U. W., radiotelegraph, type SCR-130.	(e)	(b)	a 1 per communication platoon brigade. b 1 per communication platoon brigade when two sets in the opinion of the commanding officer can not otherwise be made available for training purposes.
S	Signal lamp, type EE-6.....	(e)	.....	a 1 per communication platoon battalion, 2 per rifle company, 2 per machine-gun company (see note 16).
S	Signal lamp, type EE-7.....	(e)	.....	a 1 per communication platoon, brigade and battalion; 2 per communication platoon regiment; 1 per howitzer company.
S	Strips, terminal, 5 pair.....	(e)	.....	a 10 per communication platoon brigade; 8 per communication platoon regiment; 4 per communication platoon battalion.
S	Switchboard, monocord, telephone, 4-line.	(e)	.....	a 2 per communication platoon, brigade, regiment, and battalion.
S	Switchboard, monocord, telephone, 12-line.	(e)	.....	a 2 per communication platoon, brigade and regiment.
S	Switchboard unit, monocord, telephone.	(e)	.....	a 2 per communication platoon, brigade, regiment, and battalion.
Q	Tape, friction, pounds.....	(e)	.....	a 10 per communication platoon, brigade, and regiment; 6 per communication platoon battalion; 1 per howitzer and machine-gun companies.
Q	Tape, rubber, pounds.....	(e)	.....	a 4 per communication platoon, brigade, and regiment; 2 per communication platoon battalion.
S	Telephone, type EE-4.....	(e)	.....	a 7 per communication platoon, brigade, and regiment; 4 per communication platoon battalion.
S	Telephone, type EE-5.....	(e)	.....	a 4 per communication platoon, brigade, and regiment; 1 per communication platoon battalion; 2 per howitzer and machine-gun companies.
S	Tube, vacuum, type VT-1....	(e)	.....	a 20 per communication platoon, brigade, and regiment; 10 per communication platoon battalion.
S	Tube, vacuum, type VT-2....	(a)	.....	a 10 per communication platoon brigade.
O	Very pistol.....	(a)	.....	a 2 per communication platoon, brigade, regiment, and battalion; 1 per headquarters and each platoon in rifle company (carried by runners).
S	Voltmeter, battery, 0-35 amperes, 0-11 volts.	(e)	.....	a 1 per communication platoon, brigade, regiment, and battalion.
S	Wavemeter, type SCR-125....	(e)	.....	a 1 per communication platoon, brigade, and regiment.
S	Wire, outpost, twisted pair, miles.	(e)	.....	a 25 per communication platoon brigade; 15 per communication platoon regiment; 5 per communication platoon battalion; 1 (on 3-mile spools) per machine-gun and howitzer companies.

TABLE IV-A—Continued.
SECTION VI.—TRANSPORTATION.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks and basis of issue.
Q	Animal: Horses, riding (For allowances of transport- ation for training center regiment, see note 26.)			<p>• BRIGADE HEADQUARTERS.</p> <p>1 per officer, 1 per master sergeant, courier section chief, all attached medical department personnel, and 2 mounted messengers in courier section, 2 per wire cart pikemen.</p> <p>REGIMENTAL AND BATTALION HEAD- QUARTERS COMPANIES.</p> <p>1 per field and staff officer, 1 per com- mander of regimental headquarters company, platoon commander of communication platoon of regiment and battalion, master sergeant, staff sergeant, technical sergeant, signal electrician, in courier section 1 per noncommissioned officer and mounted messenger and to one- fourth of attached medical depart- ment personnel. (For fraction of one-half or more, add 1 horse.)</p> <p>SERVICE COMPANY.</p> <p>1 per officer, supply sergeant, first ser- geant, master sergeant, except in staff section.</p> <p>MACHINE-GUN COMPANY.</p> <p>1 per officer, first sergeant, and bugler.</p> <p>HOWITZER COMPANY.</p> <p>1 per officer, first sergeant, platoon ser- geant, and bugler.</p> <p>• 2 per wire cart.</p> <p>• 1 per machine-gun cart, 37-mm. gun cart, light mortar cart, light mortar ammunition cart, 2 per ration cart or water cart, 4 per combat wagon and medical wagon, ration and baggage wagon, rolling kitchen and escort wagon (see note 25).</p> <p>• BRIGADE HEADQUARTERS.</p> <p>1 per section chief transportation sec- tion.</p> <p>SERVICE COMPANY.</p> <p>1 per wagon master, assistant wagon master, stable sergeant, and corporals of transportation platoon.</p> <p>MACHINE-GUN COMPANY.</p> <p>1 per stable sergeant.</p> <p>HOWITZER COMPANY.</p> <p>1 per supply sergeant and transport corporals.</p> <p>• 1 per draft animal of combat train (see note 17).</p>
	Horses, draft	(a)		
	Mules, draft	(a)		
	Mules, riding	(a)		
	Pack, pannier	(a)		

TABLE IV-A—Continued.

SECTION VI.—TRANSPORTATION—Continued.

Branch.	Articles of equipment.	A	B	Remarks and basis of issue.
				Additional for use at posts and camps or stations of a relatively permanent nature.
Q	Vehicles:			
	Bicycles.....	(e)	.....	• 1 per bicyclist.
O	Carts—			
	Machine-gun, ammunition, with harness, 1-mule.	(e)	.....	• 1 per gun (see note 18).
	Machine-gun, gun, with harness, 1-mule.	(e)	.....	Do.
	37-mm., with harness, 1-mule.	(e)	.....	Do.
	Light mortar, ammunition, with harness, 1-mule.	(e)	.....	• 1 per gun (see note 18). Present machine-gun cart and harness to be issued.
	Light mortar, gun, with harness, 1-mule.	(e)	.....	Do.
S	Wire, 2-horse, complete, with harness and equipment.	(e)	.....	• 1 per communication platoon, brigade (see note 22).
Q	Ration, 2-mule.....	(e)	.....	• At peace strength—1 per brigade headquarters company, 2 per service company; 1 per animal-drawn rolling kitchen when at war strength.
	Water, 2-mule.....	(e)	.....	• 1 per animal-drawn rolling kitchen.
Q	Kitchens, rolling, complete, with oil burner, tongue, and towing bar.	(e)	.....	• 1 per company, except brigade and battalion headquarters companies in time of peace. Not issued to Philippine regiments.
Q	Wagons:			
	Ration and baggage, 4-mule, escort.	(e)	.....	• 1 per brigade headquarters company, for each company at rate of 1 per 200 men or fraction thereof, except battalion headquarters company. Add 1 per battalion headquarters company when at war strength. Add to service company at rate of 1 per 100 animals or fraction thereof in time of war. 1 per set of engineer trenching equipment for regiments not forming part of a division, in time of war.
Q	Combat, 4-mule.....	(e)	.....	• 3 per battalion at peace strength; add 2 when at war strength. 1 per howitzer company at peace strength; add 2 when at war strength. Escort wagons will be issued in lieu until satisfactory type has been developed.
M	Medical, 4-mule.....	(e)	.....	• 1 per battalion; 1 per regiment. Not issued to training center regiments.
Q	Escort, 4-mule.....	(e)	.....	• 1 per battalion headquarters for baggage and signal equipment. Not issued to training center regiments.
Q	Vehicles, motor:			
	Motor cycles with side cars	(e)	.....	• 1 per motor cyclist.
	Cars, 5-passenger.....	(e)	.....	• 1 per each brigade and regimental headquarters. For war strength add 1 per brigade headquarters.
	Trucks, motor, 1-ton.....	(e)	.....	• 1 per brigade headquarters company; 2 per service company (1 to carry parts of regimental headquarters equipment).
	Trucks, motor, 1½-ton.....	(e)	.....	• 1 per communication platoon of each brigade and regimental headquarters company for signal equipment.
Q	Motor equipment for regiment on duty with the infantry school.	(e)	.....	• See note 20.

NOTE 1.

CARPENTER EQUIPMENT, FIELD, ENGINEER.

<i>Equipment.</i>		<i>Equipment—Continued.</i>	
	Number.		Number.
Augers, ship, ring, handled:		Oiler, rectangular, reversible spout, compact, $\frac{1}{2}$ -pint.....	1
$\frac{1}{4}$ -inch.....	1	Oilstone, combination, 8 by 2 by 1 inch, mounted.....	1
$\frac{1}{2}$ -inch.....	1	Plumb bob, iron, $9\frac{1}{2}$ ounces.....	1
$\frac{1}{2}$ -inch.....	1	Rules, boxwood, 2-foot, fourfold.....	4
Bits:		Saws:	
Auger, $\frac{1}{2}$ to 1 inch by 8ths, set of 7, in roll.	1	Crosscut, hand, 26-inch, 6-point.....	5
Expansion (one cutter $\frac{1}{2}$ to $\frac{1}{2}$ inches, and one cutter $\frac{1}{2}$ to 3 inches).....	1	Rip, hand, 26-inch, 6-point.....	1
Screw driver, $\frac{1}{2}$ -inch.....	1	Screw driver, 5-inch blade.....	1
Screw driver, $\frac{1}{2}$ -inch.....	1	Set, saw.....	1
Brace, ratchet, 10-inch sweep.....	1	Squares, steel, carpenter's, 24 by 16 inch.....	3
Chest, carpenter, field, Engineer.....	1	Tape metallic, 50 foot, graduated foot and inches.....	3
Chisels:		<i>Supplies.</i>	
Cold, $\frac{1}{2}$ -inch octagon by 7 inches long....	1	Chalk, carpenter's, pound.....	$\frac{1}{2}$
Framing, $1\frac{1}{2}$ inches, handled.....	1	Lines, chalk, 100-foot balls.....	2
Framing, 1-inch, handled.....	1	Oil, machine, in pint can.....	1
Files, taper, saw, 6-inch.....	6	Pencils, carpenter's, dozen.....	1
Hammers, claw, 1-pound head, handled.....	1		
Hatchets, broad, 5-inch, double bevel, handled.....	1		
Level, carpenter's, wood, 24-inch.....	1		
Mallet, carpenter's, $5\frac{1}{2}$ by $3\frac{1}{2}$ inch in diameter, handled.....	1		

NOTE 2.

DEMOLITION EQUIPMENT, FIELD, INFANTRY.

<i>Equipment.</i>		<i>Supplies—Continued.</i>	
	Number.		Number.
Boxes:		Explosive, T. N. T., rectangular, pounds..	100
Cap, Engineer.....	3	Fuse:	
Match, tin.....	1	Time, feet.....	100
Chest, demolition, field, Engineer.....	1	Instantaneous, feet.....	200
Crimpers, cap, with fuse cutter, combination.	2	Lighters, fuse.....	100
Drills, cordeau, handle.....	2	Matches, safety, boxes.....	6
Pliers, side-cutting, 8-inch.....	1	Tape, friction, $\frac{1}{2}$ inch wide, insulating, in $\frac{1}{2}$ -pound rolls.....	1
Slitters, cordeau.....	2	Twine, hemp, 2-ounce ball.....	1
<i>Supplies.</i>		Unions, special, detonating cord.....	50
Caps, blasting, tetryl, nonelectric.....	150		
Cords, detonating, 6-mm., 20-yard spools.....	2		

NOTE 3.

DRAFTING EQUIPMENT, COMPANY, ENGINEERS.

<i>Equipment.</i>		<i>Equipment—Continued.</i>	
	Number.		Number.
Board, drawing, 23 by 31 inches, with trestle..	1	Slab, ink, slate, rectangular, $8\frac{1}{2}$ by 2 inches, with plate glass top.....	1
Books, record, I. P. No. 103, with fillers and indexes.....	3	T-square, steel, 24 inches, with protractor head.....	1
Chest, drafting, company, Engineer.....	1	Triangles, Xylonite, transparent:	
Eraser, steel.....	1	30°-60°, 10-inch.....	1
Instruments, drawing, office set.....	1	45°, 8-inch.....	1
Measurer, map.....	1	Tubes, tin, 39 inches long by 4 inches diameter	3
Protractor, G. S., semicircular, 6-inch.....	1	<i>Supplies.</i>	
Scales:		Cloth, tracing, 30-inch, 24-yard roll.....	1
Architect's triangular, 12-inch, with sheath.....	1	Erasers:	
Engineer's triangular, 12-inch, with sheath.....	1	Rubber, pencil.....	2
Map, metric, flat, 30-cm. graduated		Rubber, ink.....	1
1:10,000 and 1:20,000 with sheath.....	1	Fillers, book, I. P. No. 103, sets of 50 sheets....	6
Shield, erasing.....	1		

NOTE 3—Continued.

DRAFTING EQUIPMENT, COMPANY, ENGINEERS—continued.

<i>Supplies—Continued.</i>		<i>Supplies—Continued.</i>	
<i>Ink:</i>	<i>Number.</i>	<i>Pencils:</i>	<i>Number.</i>
Drawing, black, ¼-ounce bottles.....	2	Drawing H.....	6
Drawing, blue, ¼-ounce bottle.....	1	Drawing 3-H.....	6
Drawing, carmine, ¼-ounce bottle.....	1	Drawing 5-H.....	6
India, stick.....	1	<i>Pens:</i>	
<i>Pads:</i>		Crow-quill, dozen on card, with holder...	1
Pencil pointing, 1½ by 4 inches.....	1	Drawing, 5 points, assorted, gross.....	1
Scratch, 6 by 9 inches.....	2	Mapping, dozen on card, with holder.....	1
<i>Paper:</i>		Pins, cone.....	1
Blotting, 3½ by 9½ inches, dozen.....	1	Tacks, thumb, gross.....	2
Drawing, sheets, 22 by 30 inches, gross...	1	Tape, adhesive, transparent, ¼ inch, 12-yard rolls.....	2
Paper, profile tracing, 20-inch, 50-yard roll...	1	Twine, hemp, 2-ounce ball.....	1

NOTE 4.

INTRENCHING EQUIPMENT, INFANTRY.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment—Continued.</i>	<i>Number.</i>
Axes, 4-pound head, single-bit, double-bevel, 36-inch handles.....	26	Set, saw.....	1
Bars, pinch, 4 feet 8 inches long, 12 pounds....	4	Shovel, D-handled, round point.....	250
<i>Boxes:</i>		Tape, metallic, 50-foot, graduated in feet and inches.....	1
AX.....	2	Tool, crosscut saw.....	1
Saw, hand, 26-inch.....	1	<i>Supplies.</i>	
Saw, crosscut, one-man, 36-inch.....	1	Bags, sand, with binders.....	500
Tool grinder, etc.....	1	<i>Handles:</i>	
<i>Files:</i>		AX, single bit, 36-inch.....	3
Crosscut saw, blunt, 8-inch.....	3	Mattock, pick, large, 36-inch.....	10
Taper, saw, 6-inch.....	6	<i>Nails:</i>	
Grinder, tool, bench, 6 by 1½ inch wheel.....	1	Wire, common, 10d, kegs.....	1
Mattocks, pick, large, handled.....	125	Wire, common, spikes, 40d, kegs.....	1
Maul, wood, handled, 36-inch.....	1	Tape, tracing, white cotton, feet.....	3,000
<i>Saws:</i>			
Crosscut, hand, 26-inch, 6-point.....	13		
Crosscut, one-man, 36-inch, with supplemental handles.....	13		

NOTE 5.

PIONEER EQUIPMENT, FIELD, ENGINEER.

<i>Equipment.</i>	<i>Number.</i>	<i>Equipment—Continued.</i>	<i>Number.</i>
Adzes, handled, 32-inch.....	2	<i>Drills:</i>	
Auger, carth, 2-4 inch, sectional shank, handled	1	Stone, hand, single-bit, 1 by 18 inches, 1½-inch bit.....	1
Axes, 4-pound head, single-bit, double-bevel, handled, 36-inch.....	13	Stone, hand, single-bit, 1 by 30 inches, 1½-inch bit.....	1
<i>Bars:</i>		Stone, hand, single-bit, 1 by 48 inches, 1½-inch bit.....	1
Pinch, 4 feet 8 inches long, 12-pound.....	1	Frame, saw, hack, extension, 12-inch.....	1
Wrecking, claw and gooseneck, 30-inch...	1	Grinder, tool, 6 by 1½ inch wheel.....	1
Wrecking, claw and pinch point, 30-inch.....	1	Hammers, mason's, 3-pound, handled.....	2
<i>Blocks, steel:</i>		Machetes, with sheaths.....	6
Double, 8-inch.....	2	Mattocks, pick, large, handled.....	3
Snatch, 8-inch.....	1	Mauls, wood, handled, 36-inch.....	2
<i>Boxes:</i>		Oiler, with reversible spout, rectangular, compact, ¼-pint.....	1
AX.....	2	<i>Picks:</i>	
Tool grinder, etc.....	1	Drifting, handled.....	2
Chain, log, 14-foot, ½-inch iron.....	1	Railroad, handled.....	15
Chest, tool, pioneer, Engineer.....	1	Pliers, side-cutting, 8-inch.....	9
Climbers, lineman's, complete, pair.....	1	Saws, crosscut, two-man, handled, 5-foot.....	2
Comealongs.....	2		
Cutters, wire, ½-inch capacity.....	3		

NOTE 5—Continued.

PIONEER EQUIPMENT, FIELD, ENGINEER—continued.

<i>Equipment—Continued.</i>		<i>Supplies—Continued.</i>	
	Number.		Number.
Shovels:			
D-handled, round point.....	25	Handles:	
Long-handled, round point.....	6	Pick, drifting, 36-inch.....	2
Sledge, 8-pound, handled.....	2	Pick, railroad, 36-inch.....	6
Spoon, miner's, 56 inches long.....	1	Saw, two-man, pair.....	2
Tool, crosscut saw.....	1	Sledge, 36-inch.....	4
Trowel, mason's, 10-inch blade.....	1	Marlin, 10-pound coils.....	1
Wrenches:			
Monkey, 8-inch.....	1	Nails:	
Monkey, 12-inch.....	3	Wire, common, spike, 60d, pounds.....	50
Monkey, 18-inch.....	1	Wire, common, spike, 30d, pounds.....	25
Stillsou, 18-inch.....	2	Wire, common, 10d, pounds.....	25
		Wire, common, 8d, pounds.....	10
		Oil, machine, in pint can.....	1
		Rope, manila:	
		1-inch diameter, 250-foot coil.....	1
		$\frac{1}{2}$ -inch diameter, 50-foot lashings.....	6
		$\frac{1}{4}$ -inch diameter, 18-foot lashings.....	25
		Tape, tracing, white, rolls of 500 feet.....	3
Supplies.			
Blades, hacksaw, 12-inch, 14 teeth, dozen.....	1		
Bolts, drift, $\frac{1}{2}$ by 16 inches.....	40		
Crayons, lumber, blue, gross.....	$\frac{1}{2}$		
Crayons, lumber, red, gross.....	$\frac{1}{2}$		

NOTE 6.

SKETCHING OUTFIT.

<i>Equipment.</i>		<i>Supplies.</i>	
	Number.		Number.
Alidade, triangular, boxwood, 8 $\frac{1}{2}$ -inches.....	1	Celluloid sheets, 12 $\frac{1}{2}$ by 13 $\frac{1}{2}$ inches.....	12
Board, sketching, with W. P. covers.....	1	Erasers, rubber, pencil.....	4
Chest, sketching outfit.....	1	Paper, sketching, gross.....	$\frac{1}{2}$
Clinometers, service, in case.....	1	Pencils:	
Compass, prismatic, luminous dial, with case.....	1	Blue.....	4
Strap, wrist.....	1	Drawing, H.....	16
Tally, pace.....	1	Green.....	4
Tripod, wood, folding.....	1	Red.....	4
		Protectors, pencil point.....	4
		Tape, adhesive, transparent, $\frac{1}{4}$ inch, 12-yard rolls.....	3

NOTE 7.

BOX, SPARE PARTS, FOR BROWNING MACHINE GUN, CALIBER .30.

(Complete with contents.)

<i>Equipment.</i>		<i>Equipment—Continued.</i>	
	Number.		Number.
Accelerator.....	1	 Pins—Continued.	
Bolt (assembled).....	1	Trigger.....	1
Disks, buffer.....	2	Pivot, belt feed lever (assembled).....	1
Ejector.....	1	Plug, water (assembled).....	1
Extension, barrel (assembled).....	1	Sear.....	1
Extractor (assembled).....	1	Slide, belt feed (assembled).....	1
Handle, bolt.....	1	Springs, barrel locking.....	2
Lever, belt feed.....	1	 Spring:	
Packing, asbestos, yards (for front and rear packing).....	3	Barrel plunger.....	1
 Pins:		Belt-holding pawl.....	1
Belt-holding pawl, split.....	2	Cover extractor.....	1
Breech lock.....	2	Driving.....	1
Ejector.....	3	Trigger pin.....	1
Firing (assembled).....	1	Breech lock pin.....	12
Firing-pin spring.....	2	Sear, assembled.....	3
		Trigger.....	1

NOTE 7—Continued.

BOX, SPARE PARTS, FOR BROWNING MACHINE GUN, CALIBER .30—continued.

(Accessories and tools contained in above cases.)

Number.	Number.
Brush, chamber-cleaning, for Browning machine gun, caliber .30.....	1
Can, oil.....	1
Cup, filling (assembled).....	1
Drift:	
Large.....	1
Medium.....	1
Small.....	1
Envelopes, fabric, spare parts.....	2
Extractors, ruptured cartridge.....	2
Hider, flash, assembled.....	1
Pliers, Bernard, 5-inch, side-cutting, pair.....	1
Fabric:	
Spare parts, roll.....	1
Tool, roll.....	1
Tin, small parts.....	1
Tool, combination.....	1

NOTE 8.

OUTFITS, REPAIR, FOR 37-MM. GUN LIMBER, COMPLETE.

Number.	Number.
A. Set of field spare parts:	
Pins, lynch and rings, lock, assorted..	4
Washers, outer, for axle.....	4
Pins, with rings, chains, and eyes attached, set.....	1
B. Miscellaneous repair materials:	
Sheet iron, 30-gauge, 4 by 48 inch, roll.	1
Can axle grease, pound.....	1
Oilstone, for oil or water, mounted in box.....	1
Pins, cotter.....	12
Bolts, set.....	1
Screws, wood, set.....	1
Rivets, set.....	1
Wire, tinned, annealed steel, No. 16, pound spool.....	1
C. Tool kit and tools for 37-mm. gun limber carrier in canvas roll:	
Awl and tool set.....	1
Bit, roamer.....	1
Bit, screw driver.....	1
C. Tool kit and tools for 37-mm. gun limber carrier in canvas roll—Continued.	
Bits, wood, set.....	1
Brace, bit.....	1
Chisel, cold.....	1
Chisel, framing (0.75-inch).....	1
File, bastard, flat.....	1
File, bastard, round.....	1
File, taper, saw, regular.....	1
Hammer, claw.....	1
Handles, files.....	2
Handwheel, elevating, aluminum.....	1
Knife, drawing.....	1
Pliers.....	1
Punch.....	1
Punch, leather.....	1
Rasp, wood, flat.....	1
Saw.....	1
Screw driver.....	1
Vise, hand.....	1
Wrench.....	1

NOTE 9.

OUTFIT, REPAIR, MACHINE-GUN CART, COMPLETE.

Number.	Number.
A. Set of field spare parts for carts carried in metal tool boxes on gun cart and in tool chest on ammunition cart, consisting of—	
Bolts, nuts, and washers, assorted set.	1
Pins, cotter, 0.125 by 1 inch.....	12
Pins, lynch and rings, lock.....	4
Pins, with chains attached, set.....	1
Rivets, for carts, set.....	1
Screws, wood, assorted, set.....	1
Washers, outer, for axles.....	4
B. Set of miscellaneous repair material carried in metal tool box on gun cart and in tool chest on ammunition cart, consisting of—	
Grease, axle, pound can.....	1
Oilstone, for oil or water, mounted in box.....	1
Sheet iron (30-gauge, 4 by 48 inches), roll.....	1
Wire, annealed steel, tinned, No. 16, pound spool.....	1
C. Tool kit and tools for machine-gun carts consisting of a canvas roll with pockets carried in one of the tool chests on the ammunition cart, consisting of—	
Bit, roamer.....	1
Awl and tool set.....	1
Bit, screw driver.....	1
Bit, wood, sets.....	1
Brace, bit.....	1
Chisel, cold.....	1
Chisel, framing (0.75-inch).....	1
File:	
Bastard, flat.....	1
Bastard, round.....	1
Taper, saw, regular.....	1
Handle, file.....	1
Knife, drawing.....	1
Plier.....	1
Punch:	
$\frac{1}{4}$ by 6 inch.....	1
$\frac{3}{8}$ by 6 inch.....	1
Leather.....	1
Rasp, wood (flat).....	1
Saw, 18-inch, detachable handle.....	1
Vise, hand.....	1
Wrench.....	1

NOTE 10.

SPARE PARTS AND ACCESSORIES FOR 37-MM GUN, CARRIED ON THE GUN LIMBER.

<i>Spare parts.</i>		<i>Spare parts—Continued.</i>	
	Number.		Number.
Bolt, safety	1	Rocker	1
Extractor	1	Spring, firing-pin	1
Strap, rull	1	Washer, axle, outer	1
Striker, complete	1		
Gasket, piston, drain plug	1	<i>Accessories.</i>	
Guard, shoulder, complete	1	Boxes, ammunition	14
Key, piston, crosshead, complete	1	Brush, grease	1
Lanyard, axle stay hook	1	Can, oil	1
Lanyard, coupling pin	1	Case:	
Lever, breech, complete	1	Spare parts	1
Pin:		Tool	1
Axle coupling, complete	1	Cover, gun	1
Extractor, complete	1	Drift, bronze	1
Firing	1	Extractor, hand, cartridge	1
Front leg shackle, complete	1	Gun, oil	1
Rocker	1	Harness, shoulder	8
Split, shoulder guard, complete	1	Rule, B. C.	1
Pins, lynch, complete	2	Sight:	
Plugs:		Bore, breech	1
Filler	1	Bore, muzzle	1
Piston, drain	1	Sponge, oiling	1
Plunger, rocker	1	Staff, sponge	1

NOTE 11.

SPARE PARTS AND ACCESSORIES FOR 3-INCH STOKES MORTAR.

<i>Spare parts.</i>		<i>Spare parts—Continued.</i>	
	Number.		Number.
Bolt, cross stay, center	1	Washers:	
Cap, base	1	0.062 ($\frac{1}{16}$) inch thick	1
Nuts:		Elevating screw	1
Center cross stay bolt	1	For ring	1
Cross stay bolt	1	Bevel pinion stud	1
Elevating screw	1	Cross stay bolt	1
For ring	1	Center cross stay bolt	1
$\frac{1}{2}$ -inch, for bevel pinion stud	1		
Pillar, anvil	1	<i>Accessories.</i>	
Pins:		Bar, Tommy	1
For yoke	1	Box, tool	1
Taper, No. 1, 1.25 inches long	1	Brush, stripping	1
Taper, No. 2, 1 inch long	1	Can, oil (1-pint, with long, bent spout)	1
Split, 0.187 ($\frac{3}{16}$) by 1.5 inch	1	Cap, muzzle	1
Split, 0.125 by 1 inch	1	Jackets, shell-carrier	4
Split, 0.187 ($\frac{3}{16}$) by 2 inches	1	Rod, cleaning	1
Screw, cap, $\frac{1}{8}$ inch, for bevel-gear cover	1	Spanner, combination	1
Ring, key, yoke pin	1	Can, quart, of engine oil No. 1	1
		$\frac{1}{4}$ th pint can of luminous paint	1
		$\frac{1}{4}$ th pint can of paint (zinc, neutral base)	1
		Pounds cotton waste	2

NOTE 12

BAG, TOOL, SERVICE, COMPLETE

(The bag is made of canvas; approximate dimensions 17 inches long, 7 inches wide at the base, and 8 inches high.)

<i>Equipment.</i>		<i>Equipment—Continued.</i>	
	Number.		Number.
Try-square, steel, 4-inch blade	1	Level, pocket spirit, 3-inch	1
Chisel, cold, $\frac{1}{2}$ -inch	1	Plane, block, 6-inch	1
Chisel, wood, $\frac{1}{2}$ -inch socket blade, iron, ring-topped handle	1	Pliers, pair, 6-inch, side cutting	1
Hammer, claw, 16-ounce	1	Pliers, pair, 8-inch, side cutting	1
Handle with tools	1	4-foot rule, folding, boxwood, 8 parts	1
Knife	1	Saw, back, 10-inch	1

NOTE 12—Continued.

BAG, TOOL, SERVICE, COMPLETE—continued.

Equipment—Continued.		Equipment—Continued.	
	Number.		Number.
Screw drivers:		Ratchet brace, 8-inch throw.....	1
6-inch.....	1	Auger bits:	
10-inch.....	1	1/4-inch.....	1
Solder, resin core, pound.....	1	3/8-inch.....	1
Wrenches:		1/2-inch.....	1
Screw, forged 6-inch monkey wrench....	1	3/4-inch.....	1
Socket, for telephone apparatus, 4-inch,		1-inch.....	1
drawing paragraph 2 (A).....	1	Polarity indicator.....	1

NOTE 13.

KIT, SOLDERING, COMPLETE.

	Number.		Number.
Blow torch, pint size.....	1	Sheets of sandpaper, No. 1.....	4
Oak containing case, 10 1/2 by 8 1/2 by 11 inches..	1	Spools of resin core solder, 5 pounds each.....	2
Soldering copper, 1/2-pound, with handle.....	1		

NOTE 14.

LINEMAN'S EQUIPMENT, TYPE EE-21.

	Number.		Number.
Ax, hand, lineman, 4-pound.....	1	Pliers, side cutting, 8-inch.....	1
Belt, lineman, and safety straps.....	1	Screw driver, 13-inch blade.....	1
Clamp, splicing, combination, 10 1/4-inch.....	1		
Pair or set of climbers, lineman, with straps			
pads (not over 16 1/2 inches).....	1		

NOTE 15.

PANELS.

All panels are of light, portable deep orange and white cotton cloth for aerial signal communication.

(Infantry brigade, set, type AP-22.)

This set consists of:

1 case, type CS-18.

1 panel, type AL-82 (Infantry brigade identifying, superimposed circle, one side of which is an 8-foot deep orange circle on a 12-foot white circle, and vice versa).

10 panels, type AL-85 (4 distinguishing and 6 code, rectangles, 8 by 1 1/2 feet, deep orange on one side and white on the other).

(Infantry regiment, set, type AP-23.)

This set consists of:

1 case, type CS-18.

1 panel, type AL-83 (Infantry regiment identifying, equilateral triangle, 12-foot sides, deep orange on one side and white on the other).

10 panels, type AL-86 (4 distinguishing and 6 code, rectangles, 8 by 1 1/2 feet, deep orange on one side and white on the other).

(Infantry battalion, set, type AP-24.)

This set consists of:

1 case, type CS-18.

1 panel, type AL-84 (Infantry battalion identifying, circle, 12 feet in diameter, deep orange on one side and white on the other).

10 panels, type AL-86 (4 distinguishing and 6 code, rectangles, 8 by 1 1/2 feet, deep orange on one side and white on the other).

(Infantry marking.)

Type AL-87, square, 18-inch sides, deep orange on one side and white on the other.

NOTE 16.

SIGNAL LAMP, TYPE EE-6. (14-CM.)

	Number.
Lamp, signal, 14 cm., cord and plug.....	1
Case, leather, battery, with strap, containing 4 cells, dry, 4-0 reserve.....	1
Cotton, medicated, package, 1-ounce.....	1
Cells, dry, 4-0 reserve (spare).....	4
Bulbs (3 clear, 1 ruby) (spare).....	4

NOTE 17.

PANNIER PACK.

The present pannier pack is of olive drab, cotton duck, 24 by 91.25 inches, narrow in the center and having a 4-inch ring fastened in chape at each end. A flap with one 2.375-inch and two 4-inch rings fastened in chapes is sewed to center of top side. Two side bars and side-bar connection, equipped with 2 quarter straps, 2 quarter-strap safes, 2 cincha straps, and a McClellan saddle cincha are attached to bottom side and used with crupper, which is fastened to rear of body, to hold pannier pack in place on animal's back.

NOTE 18.

HARNESS, CART, MACHINE GUN, COMPLETE SET.

	Number.		Number.
Backstrap, with hip straps, harness, cart....	1	Reins, check, short, harness, cart.....	1
Backband, with shaft tugs, harness, cart.....	1	Rope, halter, tie.....	1
Bellyband, assembled, harness, cart.....	1	Saddle, harness, cart.....	1
Bit, snaffle, with bit snaps, harness, cart.....	1	Straps, breeching, harness, cart.....	2
Breeching, harness, cart.....	1	Strap, neck, harness, cart.....	1
Collar, breast, harness, cart.....	1	Straps, trace-carrying, harness, cart.....	2
Headstall, halter, bridle.....	1	Traces, harness.....	2
Reins, check, long, harness, cart.....	1		

NOTE 19.

AMMUNITION.¹

(See remarks as to amounts carried in division trains.)

Ball cartridges, caliber .50.

Riflemen.—50 to each section leader, squad leader and guide, members of visual section armed with rifle, and to each runner carrying Very pistol; 75 to each scout. 95 to each runner, except to runner in platoon and company headquarters carrying Very pistol; extra private and remaining men armed with rifles. 105 rounds per rifle will be carried in combat train.

Automatic riflemen.—420 per squad; 960 per automatic rifle will be carried in combat train.

Machine gun.—4,000 per gun; 5,250 per gun will be carried in combat train.

Tracer cartridges, caliber .50.

Riflemen.—25 red and 25 white to each section leader, squad leader and guide; 25 white to each scout; 4 red and 6 white per rifle will be carried in combat train.

Automatic riflemen.—4 rounds white per automatic rifle; 20 rounds white per automatic rifle will be carried in combat train.

Machine gun.—50 rounds white per gun; 100 rounds white per gun will be carried in combat train.

Armor-piercing cartridges, caliber .50.

Riflemen.—5 to each runner, extra private and men who carry 95 ball cartridges; 5 rounds per rifle will be carried in combat train.

Automatic riflemen.—16 rounds per automatic rifle; 20 rounds per automatic rifle will be carried in combat train.

Machine gun.—200 rounds per gun; 400 rounds per gun in combat train.

¹ The amount of ammunition carried in division train for automatic rifle, machine gun, 37-mm., trench mortars, Infantry howitzer, and grenades will be 50 per cent (one-half) of the quantity carried in combat train, for the rifle, caliber .30, 60 rounds per rifle (divided 54 ball, 3 A. P., 1.8 white tracer, and 1.2 red tracer) and for the pistol, 21 rounds per pistol.

NOTE 19—Continued.

Pistol ball cartridge, caliber .45.

As per Table II, Tables of Basic Allowances; 21 rounds per pistol will be carried in combat train.

	With gun.	Combat train	Division train.
<i>57-mm. gun.</i>			
High-explosive (per gun)..... (Low-explosive shell will be substituted until stocks are exhausted.)	224	224	112
<i>5-inch trench mortar.</i>			
High-explosive (per mortar).....	66	106	53
Smoke (per mortar).....	9	15	8
<i>Grenades.</i>			
Hand grenades (per rifle company):			
Fragmentation.....		288	144
Smoke.....		24	12
Rifle grenades (per rifle company):			
High-explosive.....		216	106
Smoke.....		36	18

NOTE 20.

MOTOR EQUIPMENT FOR REGIMENT ON DUTY WITH THE INFANTRY SCHOOL.

Motor equipment for experimental purposes as authorized by the War Department.

NOTE 21.

KIT, INSPECTOR'S POCKET, COMPLETE.

	Number.		Number.
Case, carrying, inspector's pocket kit.....	1	Tweezers, 4½-inch, pair.....	1
Screw driver and skinning knife combined with safety spring.....	1	Screw driver, 2-inch.....	1
File, half-round, bastard, with handle, 3-inch	1	Rule, 2-foot, fourfold, narrow boxwood.....	1

NOTE 22.

CART, WIRE, 2-HORSE.

A 2-wheel reel cart for the rapid laying and recovering of telephone and telegraph lines in the field. It is completely equipped with two reels, mechanically rotated and controlled, one chest with wire-laying equipment, a driver's seat, and appropriate parts and fittings especially designed for and used only on this cart; designed to carry 5 miles of standard field wire. Specification 596-O, drawing 100-3, comprises the following detachable parts and tools:

	Number.		Number.
Cart, proper.....	1	Harness, breast collar, for 2-horse Signal Corps wire cart, comprises:	
Axle, extra.....	1	Backbands.....	2
Bands, brake.....	2	Bellybands.....	2
Bearings, extra, for reel.....	2	Bits, snaffle, M-1911.....	2
Bucket, canvas, water.....	1	Breaching, complete.....	2
Can, oil, steel, pint size.....	1	Collars, breast, wheel, complete.....	2
One canvas roll provided with the following tools:		Headstalls—	
Chisel, cold, ½-inch.....	1	Artillery, bridge, M-1913.....	2
Screw driver, 5-inch.....	1	Halter, M-1904.....	2
Screw driver, 10-inch.....	1	Martingales, with cincha strap (assembled)	2
Pliers, side-cutting, 8-inch.....	1	Rein checks.....	2
Hammer claw, 1602.....	1	Reins—	
Wrenches—		Long bearing.....	2
Monkey, 8-inch.....	1	Long driving—	
S, ½-inch and ¾-inch flats.....	1	Buckle parts.....	1
Alligator, 9-inch.....	1	Plain parts.....	1
S, ½-inch and ¾-inch flats.....	1	Short bearing.....	2

NOTE 22—Continued

CART, WIRE, 2-HORSE—Continued.

	Number.		Number
Harness, breast collar, for 2-horse Signal Corps wire cart, comprises—Continued.		Pads, hand, leather.....	2
Reins—Continued.		Paulin.....	1
Ropes, halter tie, M-1912.....	2	Singletrees.....	2
Spreaders.....	2	Tongue.....	1
Traces, wheel, M-1908, 56.88-inch.....	4	Wheel, extra (issued to Organized Militia only).....	1
Chain for tongue support.....	1	Wrenches:	
Crank, reel.....	1	Wheel.....	1
Doubletree.....	1	Socket, for axle bracket nuts.....	1
Insulators, strain, electric, for traces.....	4	Yoke, neck.....	1

NOTE 23.

PYROTECHNICS—ORDNANCE.

Article.	On soldier.	In combat train.	In division train.
Cartridges, Very pistol, assorted.	15 per pistol (issued from combat train after communication plan has been published).	15 per pistol.....	15 per pistol.
Cartridges, V. B., pyrotechnic, assorted.		24 per discharger, rifle grenade, carried in regiment or battalion headquarters companies.	24 per regimental and battalion headquarters company.
		24 per regimental headquarters company; battalion headquarters company; howitzer company and machine-gun company.	24 per regimental headquarters company; battalion headquarters company; howitzer company and machine-gun company.
Rockets, assorted.....		15 per brigade, regimental and battalion headquarters company.	15 per brigade, regimental and battalion headquarters company.

NOTE 24.

TRENCH EQUIPMENT FOR INFANTRY ORGANIZATIONS.

(To be issued only during active service in trenches, in addition to the prescribed mobile equipment, on orders from division or higher commanders.)

QUARTERMASTER PROPERTY.

Alcohol, solidified, in boxes, one can per man.
 Bags, water, one for each 100 men.
 Basins, metal, one for each 8 men.
 Blankets, O. D., wool, quantity to depend upon climate.
 Boots, rubber, hip, one pair per man.
 Brassards, arm, blue, green, O. D., red, white, yellow, one for each agent, signalman, runner.
 Braziers, one for each 50 men.
 Containers, food, squad (in place of marmites), one per squad.
 Grease, foot, one can per each eight men.
 Jerkins, leather, one per man.
 Mattress covers or bedsacks, one per man.
 Milk cans (for water storage and supply), 10-gallon, one per each 50 men.
 Rations, reserve, two days per man.
 Stoves, trench, with pipe; quantity depends upon condition.
 Batteries, flashlight, one extra per flashlight.
 Bulbs, flashlight, one extra per flashlight.
 Flashlight, complete, one per each 20 men.
 Knife, pocket, folding, one for each man.
 Oil, rifle, 1 gallon per each 100 men.

ORDNANCE PROPERTY.

Ammunition, as issued.
 Shot guns, riot type, issued as required.
 Periscope, simple, one per each 50 men.
 Periscope, magnifying, one per each 50 men.
 Periscope, rifle, one per each 25 men.
 Sniperscope, one per each 25 men.
 Pyrotechnics, as issued.

NOTE 24—Continued.

CHEMICAL WARFARE SERVICE PROPERTY.

Alarms, gas, one per each 50 men.
 Canisters, spare, one per each 8 men.
 Chloride of lime, quantity to depend upon conditions.
 Blankets, gas-proof, for dugouts, quantity to depend upon conditions.
 Respirators, S. B., six per battalion headquarters.
 Transmitters, telephone gas mask, six per battalion headquarters.
 Tubes, anti-dim, spare, six per battalion.
 Technical supplies:
 Bottles.
 Windvanes.
 Various other supplies, as required.

ENGINEER PROPERTY.

Axes, one per each 25 men.
 Crowbars, one per each 25 men.
 Cutters, wire, large, 12 per 200 men.
 Nails, as required.
 Pick mattocks, same as mobile equipment.
 Pliers, wire-cutting, same as mobile equipment.
 Saws, hand, one per each 50 men.
 Shovels, short-handled, sharp-pointed, one per squad.

NOTE.—The following engineer property will be obtained as needed from the Regimental and Divisional stores:

Blocks, 8-inch (single, double, snatch, triple); burlap, climbers, lineman's; containers for saws and edged tools; crowbars; saw files; hacksaw frames; hacksaw blades; hammers, sledge, 6-pound; hammers, sledge, 12-pound; knives, gabion; machetes, with sheath; rope, 2-inch; saws, crosscut; saw sets; saw tools; shovels, long-handled; tapes, steel; wrenches, Stillson; steel drills; corrugated iron; lumber and timber mauls; sledges; nails; paint; iron pickets; wood pickets; sand bags; spikes; trench flooring; barbed wire; smooth wire; wire netting; white tape; trench pumps; etc.

NOTE 25.

(When authorized by the War Department.)

One aparajo, complete (until new type of pack is available), will be kept on hand for each draft animal of Infantry regiments serving in Panama for issue when, in the opinion of the commanding general, Panama Canal Department, such issue is necessary.

NOTE 26.

ALLOWANCES FOR TRAINING CENTER REGIMENT.

Allowances in cases not covered by this note remain the same as in the body of this table.

HEADQUARTERS AND SERVICE COMPANY.	
Pistol.....	1 per noncommissioned officer, cook, horseshoer, operator shoe-repair machine, storekeeper, rated clerk, chauffeur, messengers, and enlisted men in band section.
	HOWITZER AND TANK COMPANY.
	1 per enlisted man, except mechanics and agents.
	MACHINE-GUN COMPANY.
	1 per enlisted man, except saddler and mechanic.
	HEADQUARTERS AND SERVICE COMPANY.
Horses, riding.....	1 per each field and staff officer, and 3 for company officers; 1 per master sergeant and first sergeant; 4 for miscellaneous privates used as mounted orderlies.
	BATTALION HEADQUARTERS AND HEADQUARTERS COMPANY.
	1 per each field and staff officer, staff sergeant, signal electrician, courier corporal, and mounted courier.
	HOWITZER AND TANK COMPANY.
	1 per officer, first sergeant, platoon sergeant, and bugler, except in tank platoon.

NOTE 23--Continued.

ALLOWANCES FOR TRAINING CENTER REGIMENT--continued.

	MACHINE-GUN COMPANY.
Horses, riding	1 per officer, first sergeant, and bugler.
	HEADQUARTERS AND SERVICE COMPANY.
Mules, riding	1 per wagonmaster, assistant wagonmaster, and stable sergeant.
	MACHINE-GUN COMPANY.
	1 per stable sergeant.
	HOWITZER AND TANK COMPANY. (Howitzer platoon.)
Carts, ration	1 per supply sergeant; 1 per transport corporal.
Wagon, R. & B.	1 per animal-drawn rolling kitchen.
Wagon, combat	1 per company, except battalion headquarters company; 2 per headquarters and service company.
Trucks, 1-ton	1 per battalion; 1 per howitzer and tank company.
	1 per howitzer and tank company.

[400, 34, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

J. G. HARBORD,
Major General, Acting Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.



CIRCULAR]
No. 289.]

WAR DEPARTMENT,
WASHINGTON, November 7, 1921.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR THE MEDICAL DEPARTMENT,
TABLE IV-M—SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT,
1921.**

The following table with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribes the allowances of equipment for Medical Department units:

TABLE IV-M.—MEDICAL REGIMENT.

Section I.—Medical, dental, veterinary, and miscellaneous equipment.

Section II.—Transportation.

Section III.—Notes.

(No additional allowance (Equipment B) of the articles in this table is prescribed.)

SECTION I.—Medical, dental, veterinary, and miscellaneous equipment.

Branch.	Articles of equipment.	A War set.	Remarks and basis for issue.
	Drugs, chemicals, and reagents:		
M	Set, collecting station.....	1	Per Sanitary Company. See Note 1a.
M	Set, hospital station.....	1	Per Hospital Company. See Note 3a.
M	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6a.
	Surgical dressings:		
M	Kit, ambulance.....	1	Per each ambulance. See Note 2d.
M	Set, collecting station.....	1	Per Sanitary Company. See Note 1b.
M	Set, hospital station.....	1	Per Hospital Company. See Note 3b.
M	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6b.
	Surgical instruments and appliances:		
M	Kit, ambulance.....	1	Per each ambulance. See Note 2a.
M	Set, ambulance station.....	1	Per Ambulance Company. See Note 2a.
M	Set, collecting station.....	1	Per Sanitary Company. See Note 1c.
M	Set, hospital station.....	1	Per Hospital Company. See Note 3c.
M	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6c.
	Laboratory apparatus and supplies:		
M	Chest No. 1, chemical pathology, "A" (glassware and reagents).....	1	Per Medical Laboratory Section. See Note 5a.
M	Chest No. 2, chemical pathology, "B" (apparatus).....	1	Per Medical Laboratory Section. See Note 5b.
M	Chest No. 3, chemical pathology, "C" (stationary and miscellaneous).....	1	Per Medical Laboratory Section. See Note 5c.
M	Chest No. 4, bacteriology "A" (incubator).....	1	Per Medical Laboratory Section. See Note 5d.
M	Chest No. 5, bacteriology "B" (autoclave).....	1	Per Medical Laboratory Section. See Note 5e.
M	Chest No. 6, bacteriology "C" (hot air sterilizer).....	1	Per Medical Laboratory Section. See Note 5f.
M	Chest No. 7, bacteriology "D" (fuel).....	1	Per Medical Laboratory Section. See Note 5g.
M	Chest No. 8, bacteriology "E" (apparatus).....	1	Per Medical Laboratory Section. See Note 5h.
M	Chest No. 9, bacteriology "F" (reagents).....	1	Per Medical Laboratory Section. See Note 5i.
M	Chest No. 10, bacteriology "G" (glassware).....	1	Per Medical Laboratory Section. See Note 5k.
M	Chest No. 19, laboratory table.....	1	Per Medical Laboratory Section. See Note 5l.
M	Chest No. 14, clinical microscopy.....	1	Per Hospital Company. See Note 3f.
	Dental instruments, appliances, and supplies:		
M	Set, dental laboratory.....	1	Per Hospital Company. See Note 3g.
M	Set, dental operating.....	1	Per Hospital Company. See Note 3h.

SECTION I.—*Medical, dental, veterinary, and miscellaneous equipment*—Continued.

Branch.	Articles of equipment.	A War set.	Remarks and basis for issue.
	Hospital furniture and supplies:		
M	Kit, ambulance.....	1	Per each ambulance. See Note 2d.
M	Set, ambulance station.....	1	Per Ambulance Company. See Note 2b.
M	Set, collecting station.....	1	Per Sanitary Company. See Note 1d.
M	Set, hospital station.....	1	Per Hospital Company. See Note 3d.
M	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6d.
	Veterinary appliances and veterinary hospital supplies:		
M	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6e.
	Field equipment and supplies:		
M	Kit, ambulance.....	1	Per each ambulance. See Note 2d.
M	Set, ambulance station.....	1	Per Ambulance Company. See Note 2c.
M	Set, collecting station.....	1	Per Sanitary Company. See Note 1e.
M	Set, hospital station.....	1	Per Hospital Company. See Note 3e.
M	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6f.
	Food supplies:		
Q	Set, collecting station.....	1	Per Sanitary Company. See Note 1f.
Q	Set, hospital station.....	1	Per Hospital Company. See Note 3i.
	Miscellaneous supplies and equipment:		
	Set, collecting station.....	1	Per Sanitary Company. See Note 1g.
	Set, hospital station.....	1	Per Hospital Company. See Note 3k.
	Set, Medical Supply Section.....	1	Per Medical Supply Section. See Note 4.
	Set, veterinary collecting station.....	1	Per Veterinary Company. See Note 6g.

SECTION II.—*Transportation.*

See change.

Q	Ambulances, motor.....	(a)	20 per Ambulance Company, motor.
Q	Ambulances, animal.....	(a)	20 per Ambulance Company, animal drawn.
Q	Bicycles.....	(a)	1 per Service Company; Headquarters Sanitary Battalion; Headquarters Ambulance Battalion; Headquarters Hospital Battalion; Hospital Company; Medical Supply Section; Medical Laboratory Section; Veterinary Company; 4 per Sanitary Company.
Q	Cars, motor, 5-passenger.....	(a)	1 per Service Company; Headquarters Ambulance Battalion; Ambulance Company, motor; Headquarters Hospital Battalion; Hospital Company.
Q	Horses, draft.....	10	Per Veterinary Company.
Q	Horses, riding.....	(a)	8 per Regimental Headquarters; 12 per Service Company; 3 per Headquarters Sanitary Battalion; 10 per Sanitary Company; 14 per Ambulance Company, animal drawn; 2 per Laboratory Section; 17 per Veterinary Company.
Q	Motorcycles, with side car.....	(a)	2 per Service Company and Hospital Company; 1 per Headquarters Sanitary Battalion; Sanitary Company; Ambulance Company; Medical Supply Section and Medical Laboratory Section.
Q	Mules, draft.....	(a)	93 per Ambulance Company, animal drawn; 8 per Veterinary Company.
Q	Trailers, kitchen.....	1	Per Service Company; Sanitary Company; Ambulance Company, motor; Hospital Company; Veterinary Company.
Q	Trailers, spare part (Med.).....	1	Per Ambulance Company, motor.
Q	Trailers, tank 180 gallons.....	1	Per Service Company; Sanitary Company; Ambulance Company, motor; Hospital Company; Veterinary Company.
Q	Trucks, 7-ton, cargo.....	(a)	5 per Service Company; Ambulance Company, motor; Medical Supply Section; 4 per Sanitary Company; 2 per Hospital Company.
Q	Trucks, 1 1/2 to 2-ton, cargo.....	(a)	20 per Hospital Company; 2 per Veterinary Company.
Q	Wagons, cement, 4-wheeled.....	2	Per Ambulance Company, animal drawn, and Veterinary Company.
Q	Wagons, spring.....	1	Per Ambulance Company, animal drawn.

CIRCULAR }
No. 62. }

WAR DEPARTMENT,
WASHINGTON, March 10, 1922.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR THE MEDICAL DEPARTMENT—
AMENDMENT TO CIRCULAR NO. 289, WAR DEPARTMENT, 1921.**

Circular No. 289, War Department, 1921 (Basic allowances of equipment special for the Medical Department, Table IV-M), is amended as follows:

1. Change Section II to read as follows:

SECTION II.—Transportation.

Q	Ambulances, motor.....	20	Per Ambulance Company, motor.
Q	Ambulances, animal.....	20	Per Ambulance Company, animal-drawn.
Q	Ambulances, Veterinary, 2-mule.....	1	Per Veterinary Company.
Q	Bicycles.....	(e)	a 1 per Service Company; Headquarters Sanitary Battalion; Headquarters Ambulance Battalion; Ambulance Company; Headquarters Hospital Battalion; Hospital Company; Medical Supply Section; Medical Laboratory Section; Veterinary Company; 4 per Sanitary Company.
Q	Cars, motor, 5-passenger.....	1	Per Service Company; Headquarters Ambulance Battalion; Ambulance Company, motor; Headquarters Hospital Battalion; Hospital Company.
Q	Horses, draft.....	16	Per Veterinary Company.
Q	Horses, riding.....	(e)	a 8 per Regimental Headquarters; 12 per Service Company; 3 per Headquarters Sanitary Battalion; 10 per Sanitary Company; 14 per Ambulance Company, animal-drawn; 2 per Laboratory Section; 16 per Veterinary Company.
Q	Motorcycles, with side car.....	(e)	a 2 per Service Company and Hospital Company; 1 per Headquarters Sanitary Battalion; Sanitary Company; Ambulance Company; Medical Supply Section and Medical Laboratory Section.
Q	Mules, draft.....	(e)	a 94 per Ambulance Company, animal-drawn; 10 per Veterinary Company.
Q	Trailers, kitchen.....	1	Per Service Company; Sanitary Company; Ambulance Company, motor; Hospital Company; Veterinary Company.
Q	Trailers, spare parts (Med.).....	1	Per Ambulance Company, motor.
Q	Trailers, tank, 180 gallons.....	1	Per Service Company; Sanitary Company; Ambulance Company, motor; Hospital Company; Veterinary Company.
Q	Trucks, $\frac{1}{2}$ -ton, cargo.....	(e)	a 5 per Service Company; Ambulance Company, motor; Medical Supply Section; 4 per Sanitary Company; 2 per Laboratory Section.
Q	Trucks, 1 $\frac{1}{2}$ to 2 ton, cargo.....	(e)	a 20 per Hospital Company; 2 per Veterinary Company.
Q	Wagons, escort, 4-mule.....	2	Per Ambulance Company, animal-drawn, and Veterinary Company.
Q	Wagons, spring.....	1	Per Ambulance Company, animal-drawn.

2. In (b) of Note 5, page 26, change the item "Case, post-mortem (par. 924, M. M. D.)," to read as follows:

Case, post-mortem (par. 924, M. M. D.), empty.

[A. G. 400.345 (3-3-22).]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

94309*—22

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1922

SECTION III.—Notes.

NOTE 1.—Sanitary Company:

(a) *Drugs, chemicals, and reagents.*

	Number.
Acid, acetylsalicylic, 324-milligram tablet, 500 in bottle.....	bottles.. 1
Alcohol, ethyl, 1 quart in bottle.....	do.... 2
Antitetanic serum, as required.	
Atropine sulphate, U. S. P., 0.65-milligram hypodermic tablet, 20 in tube, tubes.....	8
Camphor in oil, 2 c. c. ampules, 0.195-milligram camphor in pure olive oil, 12 ampules in box.....	boxes.. 6
Epinephrine hydrochloride, 1-milligram tablet, 20 in tube.....	tubes.. 6
Ether, U. S. P., $\frac{1}{4}$ pound in sealed tin.....	tins.. 24
Ethyl chloride, 3 ounces in metal tube.....	tubes.. 5
Foot powder, $\frac{1}{4}$ pound in tin (par. 902, M. M. D.).....	tins.. 6
Iodine and potassium iodide, in tubes, M. D. S.....	tubes.. 100
Iodine swabs, 6 in box, M. D. S.....	boxes.. 50
Liquor cresol solution, compound, U. S. P., 1 quart in bottle.....	bottles.. 6
Magnesium sulphate, U. S. P., 4 pounds in tin.....	tin.. 2
Mercuric chloride tablet, antiseptic, 250 in bottle (par. 902, M. M. D.) bottles.....	4
Mercurous chloride, U. S. P., 32-milligram tablet, 500 in bottle....	bottles.. 2
Mercurous chloride ointment (calomel ointment) 30 per cent, 1 pound in bottle.....	bottles.. 1
Morphine sulphate, U. S. P., 8-milligram hypodermic tablet, 20 in tube, tubes.....	50
Nitroglycerin, U. S. P., 6.5-milligram hypodermic tablet, 20 in tube..	tubes.. 3
Normal saline solution tablet, 100 in bottle.....	bottles.. 1
Oil, castor, 1 gallon in tin.....	tins.. 1
Petrolatum, U. S. P., 1 pound in tin.....	do.... 1
Paraffin wax, similar to ambrine (for treatment of burns) (M. D. S.)..	pounds.. 6
Phenol, U. S. P., crystals, $\frac{1}{4}$ pound in bottle.....	bottles.. 1
Pill cathartic compound, U. S. P., or tablet, 500 in bottle.....	do.... 2
Procaine, N. N. R., 50-milligram hypodermic tablet, 20 in tube....	tubes.. 12
Protargol, or equivalent, 1 ounce in bottle.....	bottles.. 3
Silver nucleinate (argyrol equivalent), 1 ounce in bottle.....	do.... 1
Soap, green, U. S. P., 1 pound in jar.....	jars.. 4
Strychnine sulphate, U. S. P., 1-milligram hypodermic tablet, 20 in tube, tubes.....	24
Troches of ammonium chloride, U. S. P., 250 in bottle.....	bottles.. 4
Zinc oxide ointment, U. S. P., 1 pound in jar.....	jars.. 1
Ammonia, aromatic spirits of, U. S. P., 1 pound in bottle.....	bottles.. 4
Apomorphine hydrochloride, U. S. P., 6 milligram hypodermic tablet, 20 in tube.....	tubes.. 2
Caffeine sodio benzoate, U. S. P., 65-milligram tablet, 500 in bottle..	bottles.. 1
Collodion, U. S. P., 1 ounce in bottle.....	do.... 2

(b) *Surgical dressings.*

Bandages, flannel, 3-inch, extra heavy	dozen.. 4
Bandages, gauze, compressed, 3 sizes, 1 gross in box.....	boxes.. 12
Bandages, muslin, 4 inches by 5 yards.....	dozen.. 24
Bandages, plaster of paris, 3-inch, in individual packet.....	do.... 1

	Number.
Bandages, suspensory.....dozen..	2
Bandages, triangular, for slings.....do....	24
Cotton, absorbent, 1 ounce in package.....packages..	48
Cotton, absorbent, 1 pound in roll.....rolls..	24
Cotton, batting, 1 pound in roll.....do....	24
First-aid packet (par. 944, M. M. D.).....each..	200
Front-line packet, No. 1, red label.....do....	300
Front-line packet, No. 2, white label.....do....	500
Front-line packet, No. 3, blue label.....do....	200
Gauze, plain, sterilized, 2 half-yard lengths in package.....packages..	150
Individual dressing packets (par. 949, M. M. D.).....each..	150
Plaster, adhesive, 1 inch by 5 yards, on spool, zinc oxide.....spools..	48
Plaster, adhesive, 12 inches by 5 yards, in roll.....rolls..	6
Wadding, sheet, 5 inches by 5 yards, in roll.....do....	6

(c) *Surgical instruments and appliances.*

Bandage, rubber, Martin.....each..	6
Case, emergency (par. 913, M. M. D.).....do....	1
Case, forceps, hemostatic (par. 915, M. M. D.).....do....	2
Case, operating, small (par. 922, M. M. D.).....do....	2
Catheter, urethral, gum linen, 14F and 18F, Coude, boilable (2 of each size).....each..	4
Catheter, urethral, rubber, 14F and 18F, hollow tip, Nelatin (3 of each size).....each..	6
Clipper, hair, B. & S. No. 1.....do....	3
Gag, mouth, Denhart.....do....	1
Inhaler, metal, Yankauer, mask.....do....	2
Mirror, head, diameter 3½ inches with ½-inch opening.....do....	1
Needle, Mayo, standard No. 1, round point, half curve.....do....	12
Needle, surgeon's regular, size 8, plain eye, full curved.....do....	24
Needle, surgeon's regular, size 10, plain eye, full curved.....do....	24
Scissors, bandage, 7½ inches, screw lock.....do....	3
Splint, Cabot, posterior, wire, figure 26, M. S. & A., 1918.....do....	50
Splint, coaptation, 5 in set.....sets..	50
Splint, foot support, wire, figure 47, M. S. & A., 1918.....each..	50
Splint, hand and wrist, figure 40, M. S. & A., 1918.....do....	20
Splint, hinged modification of Thomas arm, figure 9 M. S. & A., 1918.....do....	12
Splint, hinged half ring modification of Thomas leg, figure 15, M. S. & A., 1918.....each..	12
Splint, wire gauze for, 1 yard in roll.....rolls..	25
Splint, wire ladder, figure 26, M. S. & A., 1918.....each..	100
Splint, wood, 3-foot and 4-foot length, Yucca wood.....feet..	50
Stethoscope.....each..	2
Stretcher bar, figure 46, M. S. & A., 1918.....do....	25
Sutures, catgut, chromicized, sizes 1, 2, 3, 18 inches long, 1 suture to tube (12 of each size).....tubes..	48
Sutures, catgut, chromicized, 3 sizes in package, sizes 1, 2, 3, 18-inch lengths.....packages..	24
Sutures, catgut, plain, sizes 0, 1, 2, 3, 18 inches long, 1 suture to tube (12 of each size).....tubes..	48
Sutures, catgut, plain, 3 sizes in package, sizes 1, 2, 3, 18-inch lengths, packages.....	24

	Number.
Sutures, horsehair, 100 in coil.....coils..	3
Sutures, silk, 3 sizes in package, sizes 4, 7, 10, 18-inch lengths...packages..	3
Sutures, silk, braided, size 14, on card.....cards..	3
Sutures, silkworm gut, 100 in coil.....coils..	1
Syringe, hypodermic, complete (par. 956, M. M. D.).....each..	2
Syringe, hypodermic, needles for, $\frac{1}{4}$ -inch canula, 25 gauge (par. 956, M. M. D.).....each..	24
Syringe, hypodermic, wires for, 1 dozen in bundle (par. 956, M. M. D.) bundles.....	1
Syringe, luer, 2 c. c., graduated to $\frac{1}{8}$ c. c.....each..	2
Syringe needle, canula, $\frac{1}{4}$ inch long, No. 23, B. & S. gauge.....do....	12
Syringe needle, canula, 1 inch long, No. 23, B. & S. gauge.....do....	12
Syringe needle wire, in bundles, for No. 23, B. & S. gauge.....bundles..	2
Syringe, urethral, 15 c. c. Chetwood.....each..	2
Tongue depressor, Bosworth.....do....	2
Tubes, drainage, rubber, in yard lengths, 3 sizes.....yards..	3
Tube, rectal.....each..	2
Tube, stomach.....do....	2

(d) Hospital furniture and equipment.

Applicator, wooden, in box.....boxes..	1
Apron, rubber.....each..	2
Atomizer, paraffin base.....do....	2
Bag, rubber, hot water and syringe.....do....	12
Basin, hand, w. e., 2 $\frac{1}{4}$ -quart.....do....	6
Basin, pus.....do....	6
Boiler, instrument, 20 by 8 by 6 inches.....do....	1
Box, folding for tablets.....dozen..	12
Box, ointment, impervious, 3 in nest.....do....	4
Box, soap, metal.....each..	2
Brush, hand, fiber, M. D. S.....do....	24
Brush, shaving.....do....	3
Cabinet, food.....do....	4
Cup, spit, paper.....do....	250
Cup, spit, metal frame for.....do....	50
Cushion, rubber, open center.....do....	4
Cushion, rubber, small.....do....	4
Gloves, heavy, sizes 7 $\frac{1}{2}$ and 8, rubber (6 of each size).....pairs..	12
Gloves, medium, sizes 7 $\frac{1}{2}$ and 8, rubber (6 of each size).....do....	12
Graduate, w. e., 500 c. c., M. D. S.....each..	2
Irrigator, w. e., 2-quart, seamless, half round.....do....	3
Labels for vials.....do....	100
Labels, poison, assorted.....do....	50
Lamp, alcohol, capitol, No. 21, S. S. W. type.....do....	2
Lamp, alcohol, wicks for.....do....	2
Litter, with slings.....do....	50
Medicine glass.....do....	6
Pad, prescription.....do....	5
Pencil, hair, 1 dozen in vial, M. D. S.....vials..	1
Pin, safety, assorted.....dozen..	18
Pitcher, 1-pint, w. e., M. D. S.....each..	2
Pitcher, 4-quart, w. e., M. D. S.....do....	4

	Number.
Razor, metal handle.....	each..... 2
Razor, hone for.....	do..... 1
Razor, strop for.....	do..... 1
Sightfeed glass.....	do..... 5
Spoon, table, silver plated, M. D. S.....	do..... 12
Sprinkler, powder, h. r.....	do..... 6
Stoves, 2-burner, kerosene, blue flame.....	do..... 2
Stove, wicks for.....	do..... 6
Strap and buckle, 3 feet by 1½ inches, webbing.....	do..... 12
Strap and buckle, 6 feet by 1½ inches, webbing.....	do..... 12
Syringe, penis, h. r.....	do..... 6
Table, folding, bedside.....	do..... 6
Tape, cotton, 1 inch, 72 yards in roll.....	rolls..... 2
Thermometer, clinical.....	each..... 10
Tongue depressor, wood.....	gross..... 4
Towels, hand, M. D. S.....	dozen..... 10
Vial, 1-ounce.....	do..... 4
Vial, 2-ounce.....	do..... 4

(e) *Field equipment and supplies.*

Basin, rubber, hand.....	each..... 6
Blanket, gray, M. D. S.....	do..... 150
Blanket, rubber, M. D. S.....	do..... 30
Book, note, manifolding, binder for, 4 by 6 inches.....	do..... 6
Book, note, manifolding, filler for, 4 by 6 inches.....	do..... 6
Bowl, soup, w. e., M. D. S.....	do..... 25
Bucket, w. e., M. D. S., 3 in nest, 8-quart, 10-quart, 12-quart.....	nests..... 2
Carrier, field, for litters.....	each..... 2
Cases, bedding, large, empty.....	do..... 8
Cases, bedding, small, empty.....	do..... 2
Chair, field, folding, M. D. S.....	do..... 3
Chest, medical and surgical (par. 932, M. M. D.).....	do..... 1
Corkscrews, folding.....	do..... 2
Cup, w. e., M. D. S.....	do..... 12
Lantern, globes for, green.....	do..... 1
Pill tile, h. r.....	do..... 1
Table, operating, field, folding.....	do..... 1
Tags, emergency, medical.....	books..... 24
Venereal prophylactic unit.....	do..... 1

(f) *Food supplies.*

Q Can opener.....	each..... 1
Q Cocoa, 8-ounce tins.....	tins..... 8
Q Coffee extract, 4 ounces in can.....	cans..... 24
Q Milk, evaporated, 1 pound in can.....	do..... 48
Q Soup, concentrated, assorted, 1 pound in can.....	do..... 48
Q Sugar, white, 4 pounds in screw cap tin.....	tins..... 12

(g) *Miscellaneous supplies and equipment.*

Q Axe, short handle.....	each..... 4
Q Carborundum wheel, with fixtures.....	do..... 1
Q Flash lights, with bulb and battery complete.....	do..... 12
Q Flash lights, batteries for.....	do..... 48

	Number.
Q Lanterns, complete with globes and wicks.....	each.. 16
Q Lanterns, extra globe for.....	do... 16
Q Lanterns, extra wicks for.....	do... 16
Q Nails, wire, assorted.....	pounds.. 10
Q Paulins, small.....	each... 2
Q Rope, manila, $\frac{3}{4}$ -inch.....	feet... 50
Q Rope, manila, $\frac{3}{4}$ -inch.....	do... 100
Q Screens, latrine.....	each... 2
Q Tents, ward, complete with poles and pins.....	do... 2
Q Twine, coarse.....	balls... 4

NOTE 2.—Ambulance Company:

(a) *Surgical instruments and appliances.*

Splint, hinged modification of Thomas arm, figure 9, M. S. & A., 1918.....	each.. 20
Splint, hinged half-ring modification of Thomas leg, figure 15, M. S. & A., 1918.....	each.. 20
Splint, wire, ladder, figure 28, M. S. & A., 1918.....	do... 20
Stretcher bar, figure 46, M. S. & A., 1918.....	do... 20

(b) *Hospital furniture and equipment.*

Litter with slings.....	each.. 40
Pins, safety, assorted.....	dozen.. 20

(c) *Field equipment and supplies.*

Blanket, gray, M. D. S.....	each.. 80
Blanket, rubber, M. D. S.....	do... 20
Book, note, manifolding, binder for, 4 by 6 inches.....	do... 4
Book, note, manifolding, filler for, 4 by 6 inches.....	do... 4
Carrier, field, for litters.....	do... 2
Case, bedding, large, empty.....	do... 4
Chair, field, folding.....	do... 2
Corkscrew, folding.....	do... 1
Lantern, globe for, green.....	do... 1
Tag, emergency medical.....	books.. 10
Venereal prophylactic unit.....	each... 1

(d) *Ambulance kit.*

Ammonia, aromatic spirits of, 1 pound in bottle.....	bottles.. 1
Bag, rubber, hot water and syringe.....	each... 2
Bandages, gauze, compressed, 3 sizes, 1 gross in box.....	boxes... 1
Bandages, muslin, 4 inches by 5 yards.....	dozen.. 2
Bandages, triangular, for slings.....	do... 1
Blanket, gray, M. D. S.....	each.. 8
Blanket, rubber, M. D. S.....	do... 1
Cotton, absorbent, 1 ounce in package.....	packages.. 12
*CWS Masks, gas, 1919, with 1920 carrier.....	each... 4
First aid packet, (par. 944, M. M. D.).....	each... 12
Q Flash light, batteries for.....	do... 4
Q Flash light, with bulb and battery, complete.....	do... 1
Front line packet, No. 1, red label.....	each... 4

* Issued only in time of war.

	Number.
Front line packet, No. 2, white label	each.. 6
Front line packet, No. 3, blue label.....	do.... 2
Gauze, plain, sterilized, 2 half-yard lengths in package.....	packages.. 6
Individual dressing packet (par. 949, M. M. D.).....	each.. 12
Litter, with slings.....	do.... 4
Pins, safety, assorted.....	dozen.. 2
Plaster adhesive, 1 inch by 5 yards, on spool, zinc oxide.....	spools.. 6
Splint, hinged modification of Thomas arm, figure 9, M. S. & A., 1918.....	each.. 2
Splint, hinged half-ring modification of Thomas leg, figure 15, M. S. & A., 1918.....	each.. 2
Splint, wire gauze for, 1 yard in roll.....	rolls.. 2
Splint, wire ladder, figure 26, M. S. & A., 1918.....	each.. 2
Stretcher bar, figure 46, M. S. & A., 1918.....	do.... 2

NOTE 3.—Hospital Company:

(a) *Drugs, chemicals, and reagents.*

Acetphenetidin, U. S. P., 324-milligram tablet, 500 in bottle.....	bottles.. 2
Acid, acetylsalicylic, 324-milligram tablet, 500 in bottle.....	do.... 6
Acid, boric, U. S. P., 324-milligram tablet, 500 in bottle.....	do.... 6
Acid, salicylic, $\frac{1}{4}$ pound in bottle.....	do.... 1
Acid, tannic, 324-milligram tablet, 500 in bottle.....	do.... 1
Alcohol, ethyl, U. S. P., 1 quart in bottle.....	do.... 12
Alcohol, ethyl, U. S. P., 5 gallons in carboy.....	carboys.. 1
Alcohol, ethyl, denatured, 1 quart in bottle.....	bottles.. 4
Ammonia, aromatic spirits of, U. S. P., 1 pound in bottle.....	do.... 6
Antitetanic serum, as required.	
Apomorphine hydrochloride, U. S. P., 6-milligram hypodermic tablet, 20 in tube.....	tubes.. 12
Atropine sulphate, U. S. P., 0.65-milligram hypodermic tablet, 20 in tubes.....	tubes.. 6
Barbitol (veronal equivalent) 324-milligram tablet, 500 in bottle.....	bottles.. 1
Belladonna plaster, U. S. P., 6 inches by 2 yards, in tin.....	tins.. 2
Bismuth subcarbonate, U. S. P., 324-milligram tablet, 500 in bottle.....	bottles.. 1
Caffeine sodio benzoate, U. S. P., 65-milligram tablet, 500 in bottle.....	do.... 2
Camphor, U. S. P., powder, 1 pound in bottle.....	do.... 3
Camphor in oil, 2 c. c. ampules, 0.195-milligram camphor in pure olive oil, 12 ampules in box.....	boxes.. 6
Cantharides plaster, U. S. P., 6 inches by 1 yard, in tin.....	tins.. 1
Chloral hydrate, U. S. P., 324-milligram tablet, 500 in bottle.....	bottles.. 1
Chloroform, for anesthesia, $\frac{1}{4}$ pound in sealed tin.....	tins.. 10
Codeine sulphate, U. S. P., 32-milligram tablet, 500 in bottle.....	bottles.. 1
Collodion, U. S. P., 1 ounce in bottle.....	do.... 6
Digitan, 90-milligram tablet, 12 in tube.....	tubes.. 2
Epinephrine hydrochloride, 1-milligram tablet, 20 in tube.....	do.... 12
Ether, U. S. P., $\frac{1}{4}$ pound in sealed tin.....	tins.. 100
Ethyl chloride, U. S. P., 3 ounces in metal tube.....	tubes.. 5
Extract of cascara sagrada, U. S. P., 130-milligram tablet, 500 in bottle.....	bottles.. 4
Foot powder, $\frac{1}{4}$ pound in tin (par. 902, M. M. D.).....	tins.. 100
Hexamethylenamine, U. S. P., 324-milligram tablet, 500 in bottle.....	bottles.. 2
Iodine, U. S. P., crystals, $\frac{1}{4}$ pound in bottle.....	do.... 12
Iodine and potassium iodide, in tubes (M. D. S.).....	tubes.. 200

	Number.
Iodine swabs, 6 in box (M. D. S.).....boxes..	50
Ipecac and opium powder, U. S. P., 324-milligram tablet, 500 in bottle.....bottles..	1
Ichthyol (or equivalent), $\frac{1}{4}$ pound in tin.....tins..	4
Licorice, compound, mixture of, tablet, 500 in bottle.....bottles..	6
Liquor cresol solution, compound, U. S. P., 5 gallons in tin.....tins..	2
Magnesium sulphate, U. S. P., 4 pounds in tin.....do....	10
Mercurial ointment, 10 per cent mercury, 1 pound in bottle.....bottles..	2
Mercuric chloride tablets, antiseptic, 250 in bottle (par. 902, M. M. D.)..do....	12
Mercurous chloride, U. S. P., 32-milligram tablet, 500 in bottle.....do....	6
Mercurous chloride ointment (calomel ointment), 30 per cent, 1 pound in bottle.....bottles..	6
Mercury, ammoniated, ointment, 5 per cent, U. S. P., 1 pound in bottle, bottles.....	1
Morphine sulphate, U. S. P., 8-milligram hypodermic tablet, 20 in tubes.....tubes..	150
Nitroglycerin, U. S. P., 0.65-milligram tablet, 10 in tube.....do....	6
Neosarsphenamine (neosalvarsan equivalent), 9 milligram in ampules. ampules.....	24
Normal saline solution tablet, 100 in bottle (par. 902, M. M. D.)....bottles..	6
Oil, castor, U. S. P., 1 gallon in tin.....tins..	2
Oil of chenopodium, U. S. P., 200-milligram in globule, 100 in box..boxes..	1
Oil, cottonseed, U. S. P., 1 gallon in tin.....tins..	1
Oil of theobroma, U. S. P., $\frac{1}{4}$ pound in tin.....do....	2
Petrolatum, U. S. P., 1 pound in tin.....do....	12
Petrolatum, liquid, U. S. P., heavy, 1 pound in bottle.....bottles..	3
Paraffin wax, similar to ambrine, for treatment of burns (M. D. S.)..pounds..	24
Phenol, U. S. P., crystals, $\frac{1}{4}$ pound in bottle.....bottles..	8
Phenyl salicylate, U. S. P., 324-milligram tablet, 500 in bottle.....do....	2
Pill, aloin compound, or tablet, 500 in bottle (par. 902, M. M. D.).....do....	4
Pill, camphor and opium, or tablet, 500 in bottle (par. 902, M. M. D.)..do....	1
Pill, cathartic compound, U. S. P., or tablet, 500 in bottle.....do....	3
Pilocarpine hydrochloride, U. S. P., 32-milligram hypodermic tablet, 10 in tube.....tubes..	1
Potassium iodide, U. S. P., 324-milligram tablet, 500 in bottle.....bottles..	3
Potassium permanganate, U. S. P., 324-milligram tablet, 500 in bottle.do....	1
Procaine, N. N. R., 50-milligram hypodermic tablet, 20 in tube.....tubes..	36
Protargol or equivalent, 1 ounce in bottle.....bottles..	12
Quinine dihydrochloride, U. S. P., 32-milligram hypodermic tablet, 20 in tube.....tubes..	10
Quinine sulphate, U. S. P., 20-milligram tablet, 500 in bottle.....bottles..	6
Rubefacient liniment tablet, 250 in bottle (par. 902, M. M. D.).....do....	1
Silver nitrate, U. S. P., crystals, 1 ounce in bottle.....do....	2
Silver nitrate, fused, U. S. P., 1 ounce in bottle.....do....	1
Silver nucleinate (argyrol equivalent), 1 ounce in bottle.....do....	3
Soap, green, U. S. P., 1 pound in jar.....jars..	12
*Sodium bicarbonate, U. S. P., 1 pound in bottle.....bottles..	32
Sodium bicarbonate and peppermint, tablet, 500 in bottle (par. 902, M. M. D.).....bottles..	2
Sodium bromide, U. S. P., 324-milligram tablet, 500 in bottle.....do....	2

* Includes 20 bottles issued only in time of war for treatment of gassed cases.

	Number.
Sodium carbonate, monohydrated, U. S. P., 1 pound in bottle.....	bottles.. 6
Sodium salicylate, U. S. P., 324-milligram tablet, 500 in bottle.....	do.... 1
Strophanthin, U. S. P., 0.5-milligram hypodermic tablet, 20 in tube.....	tubes.. 1
Strychnine sulphate, U. S. P., 1-milligram hypodermic tablet, 20 in tube.....	tubes.. 24
Sulphur, washed, U. S. P., 1 pound in bottle.....	bottles.. 6
Tincture of benzoin compound, U. S. P., 1 pound in bottle.....	do.... 1
Troches of ammonium chloride, U. S. P., 250 in bottle.....	do.... 12
Zinc oxide, U. S. P., 1 pound in bottle.....	do.... 1
Zinc oxide, ointment, U. S. P., 1 pound in jar.....	jars.. 2

(b) *Surgical dressings.*

Bandages, flannel, 3 inches by 5 yards, extra heavy.....	dozen.. 4
Bandages, gauze, compressed, 3 sizes, 1 gross in box.....	boxes.. 18
Bandages, muslin, 4 inches by 5 yards.....	dozen.. 24
Bandages, plaster of Paris, 3-inch, in individual packets.....	do.... 6
Bandages, suspensory.....	do.... 6
Bandages, triangular, for slings.....	do.... 24
Cotton, absorbent, 1 pound in roll.....	rolls.. 50
Cotton, batting, 1 pound in roll.....	do.... 12
First-aid packet (par. 944, M. M. D.).....	each.. 200
Front line packet, No. 1, red label.....	do.... 100
Front line packet, No. 2, white label.....	do.... 150
Front line packet, No. 3, blue label.....	do.... 100
Gauze, plain, 5 yards in roll.....	yards.. 500
Gauze, plain, sterilized, 2 half-yard lengths in package.....	packages.. 100
Individual dressing packet (par. 949, M. M. D.).....	each.. 250
Jackinette.....	yards.. 5
Muslin, unbleached.....	do.... 25
Plaster, adhesive, 1 inch by 5 yards, on spool, zinc oxide.....	spools.. 150
Plaster, adhesive, 12 inches by 5 yards, in roll.....	rolls.. 6
Stockinette, No. 1, 3 inches wide, in 25-yard rolls.....	yards.. 25
Stockinette, No. 2, 6 inches wide, in 25-yard rolls.....	do.... 25
Stockinette, No. 3, 9 inches wide, in 25-yard rolls.....	do.... 25
Wadding, sheet, 5 inches by 5 yards, in roll.....	rolls.. 25

(c) *Surgical instruments and appliances.*

Apparatus, salvarsan, administration, includes 2 graduated reservoirs, metal hanger, cut-off, rubber tubing of best quality and steel needle with slip connections in strong hinged lock-cornered box.....	each.. 1
Bandage, rubber, Martin.....	each.. 6
Bougie, urethral, Nos. 11F, 13F, 15F, 17F, 20F, 22F, flexible (2 of each), each.....	12
Canula, infusion, curved.....	each.. 2
Case, ear, nose and throat (par. 912 (c), M. M. D.).....	cases.. 1
Case, emergency (par. 913, M. M. D.).....	each.. 1
Case, eye (par. 914 (a), M. M. D.).....	cases.. 1
Case, forceps, hemostatic (par. 915 (a), M. M. D.).....	each.. 6
Case, general operating (par. 916 (a), M. M. D.).....	do.... 1
Case, genito-urinary (par. 917 (a), M. M. D.).....	do.... 1
Case, ward dressing, Moncrief.....	do.... 3

	Number.
Catheter, urethral, gum linen 14F and 18F, Coude, boilable (6 of each), each.....	12
Catheter, urethral, rubber, 14F and 18F, hollow tip, Nelaton (3 of each), each.....	6
Clipper, hair, B. & S. No. 1.....	1
Coupler, or adapter for connecting urethral catheters with Luer syringe. do....	2
Director, grooved, 5½-inch, plated.....	4
Ear hook and spoon.....	1
Forceps, hemostatic, Halstead, Army, straight, 5½-inch screw lock... do....	12
Forceps, hemostatic, Kocher, straight, 5½-inch screw lock..... do....	12
Forceps, hemostatic, Ochsner, heavy, straight, 7¼-inch screw lock... do....	12
Gag, mouth, Denhart's.....	1
Headlight, electric, metal band, with dry cell battery.....	2
Headlight, electric, batteries for.....	4
Headlight, electric, lamps for.....	6
Holder, needle, Hegar.....	1
Holder sponge, oval blades, 9¼-inch screw lock.....	12
Inhaler, gas-ether, Bennett.....	1
Inhaler, metal, Yankauer mask.....	4
Intubation set, O'Dwyer.....	1
Irrigation apparatus, irrigator metal, with rubber tubing and tips, Valentine modification.....	1
Irrigation apparatus, tubing clip for.....	1
Irrigator, urethral, nozzle for.....	1
Knife, operating, 1½-inch blade, M. O.....	4
Knife, operating, 2-inch blade, M. O.....	2
Knife, plaster, wooden handle, riveted.....	1
Knife, thin, with long handle for peritonsillar abscess.....	1
Mandarin, metal, with retaining spring handle, Coude beak.....	1
Mirror, head, diameter 3½-inch with ¼-inch opening.....	1
Needle, lumbar puncture, steel, to fit standard Luer syringe.....	2
Needle, intestinal, half circle, sizes 2, 3, and 4, taper point, plain eye (6 of each).....	18
Needle, intestinal, straight, sizes 2, 3, 4, 5, and 6, taper point, Mayo (6 of each).....	30
Needle, Mayo, standard No. 1, round point, half curved.....	12
Needle, Mayo, sizes 1, 2, 3, and 4, round point, half circle (12 of each). do....	48
Needle, surgeon's regular, size 2, plain eye, full curved.....	12
Needle, surgeon's regular, size 4, plain eye, full curved.....	12
Needle, surgeon's regular, size 6, plain eye, full curved.....	12
Needle, surgeon's regular, size 8, plain eye, full curved.....	12
Needle, surgeon's regular, size 10, plain eye, full curved.....	24
Needle, surgeon's regular, size 12, plain eye, full curved.....	12
Needle, surgeon's regular, size 14, plain eye, full curved.....	6
Needle, surgeon's regular, size 16, plain eye, full curved.....	3
Needle, surgeon's regular, size 18, plain eye, full curved.....	3
Needle, surgeon's regular, size 20, plain eye, full curved.....	3
Ophthalmoscope, electric.....	1
Ophthalmoscope, electric, lamps for.....	2
Ophthalmoscope, Loring.....	1
Probe, 8-inch, straight, with eye, silver plated.....	4
Probe, pliable sopper, unplated, 8 by ½-inch diameter.....	1

	Number.
Proctoscope, diameter 22 mm., length 20 cm., Kelly.....	each.. 1
Retractor, double ended, combination of Richardson and Eastman, two sizes nested, blades $\frac{3}{4}$ by 2 inches and 2 by $2\frac{1}{2}$ inches.....	nests.. 1
Scissors, bandage, $7\frac{1}{4}$ -inch screw lock.....	each.. 4
Scissors, dissecting, curved, $5\frac{1}{2}$ -inch, screw lock, Mayo.....	do... 4
Scissors, dissecting, straight, $5\frac{1}{2}$ -inch, screw lock, Mayo.....	do... 4
Scissors, double sharp, $5\frac{1}{2}$ -inch, straight, screw lock.....	do... 2
Scissors, 1 point sharp, $5\frac{1}{2}$ -inch, straight, screw lock.....	do... 1
Speculum, rectal, bivalve, wrought metal, Sims.....	do... 1
Splint, Cabot, posterior, wire, figure 26, M. S. & A., 1918.....	do... 50
Splint, coaptation, 5 in set.....	sets.. 30
Splint, foot support, wire, figure 47, M. S. & A., 1918.....	each.. 50
Splint, hand and wrist, figure 40, M. S. & A., 1918.....	do... 20
Splint, hinged modification of Thomas arm, figure 9, M. S. & A., 1918.....	do... 30
Splint, hinged half ring modification of Thomas leg, figure 15, M. S. & A., 1918.....	each.. 30
Splint, Jones cockup, crab, figure 13, M. S. & A., 1918.....	do... 20
Splint, wire gauze for, 1 yard in roll.....	rolls.. 50
Splint, wire ladder, figure 28, M. S. & A., 1918.....	each.. 100
Splint, wood, 3 feet and 4 feet length, Yucca wood.....	feet.. 24
Sphygmomanometer, aneroid type.....	each.. 2
Stethoscope.....	do... 6
Stether bar, figure 46, M. S. & A., 1918.....	do... 36
Sutures, catgut, chromicized, sizes 0, 1, 2, 3, and 4, 18 inches long, 1 suture to tube (100 tubes of each size).....	tubes.. 500
Sutures, catgut, chromicized, 3 sizes, in package, sizes 1, 2, 3, 18-inch lengths.....	packages.. 100
Sutures, catgut, plain, sizes 0, 1, 2, 3, 4, 18 inches long, 1 suture to tube (100 tubes of each size).....	tubes.. 500
Sutures, catgut, plain, 3 sizes in package, sizes 1, 2, 3, 18-inch lengths, packages.....	packages.. 100
Sutures, horsehair, 100 in coil.....	coils.. 6
Sutures, kangaroo tendon, sterilized, 1 suture in tube.....	tubes.. 12
Sutures, silk, 3 sizes in package, sizes 4, 7, 10, 18-inch lengths.....	packages.. 6
Sutures, silk, braided, size 14, on card.....	cards.. 20
Sutures, silkworm gut, 100 in coil.....	coils.. 12
Sutures, silver wire, in yard lengths.....	yards.. 12
Syringe, aspirating, 60 c. c. in metal case, with 4 needles, Dieulafoy.....	each.. 2
Syringe, hypodermic, complete (par. 956, M. M. D.).....	do... 12
Syringe, hypodermic, needles for, $\frac{3}{4}$ -inch canula, 25-gauge (par. 956, M. M. D.), each.....	72
Syringe, hypodermic, wires for, 1 dozen in bundle.....	bundles.. 12
Syringe, Luer, 2 c. c. graduated to $\frac{1}{10}$ c. c.....	each.. 6
Syringe, Luer, 10 c. c. graduated to $\frac{1}{2}$ c. c.....	do... 6
Syringe, Luer, 20 c. c. graduated to 1 c. c.....	do... 4
Syringe, Luer, 20 c. c. graduated to 1 c. c.....	do... 2
Syringe needle, canula, $\frac{1}{2}$ inch long, No. 23, B. & S. gauge.....	do... 36
Syringe needle, canula, 1 inch long, No. 23, B. & S. gauge.....	do... 36
Syringe needle, canula, $1\frac{1}{2}$ inches long, No. 19, B. & S. gauge.....	do... 36
Syringe needle, canula, $2\frac{1}{2}$ inches long, No. 17, B. & S. gauge.....	do... 24
Syringe needle, canula, 3 inches long, No. 15, B. & S. gauge.....	do... 12
Syringe needle wire, in bundles, for 23 B. & S. gauge.....	bundles.. 6

	Number.
Syringe needle wire, in bundles, for 19 B. & S. gauge.....	bundles.. 3
Syringe needle wire, in bundles, for 17 and 15 B. & S. gauge (2 bundles of each).....	bundles.. 2
Syringe, urethral, 12 c. c. glass, Chetwood.....	each.. 2
Thread, heavy linen, No. 25, 200 yards on spool.....	spools.. 2
Tubes, drainage, rubber, in yard lengths, 3 sizes.....	yards.. 15
Tube, rectal.....	each.. 2
Tube, stomach.....	do.... 2
Tube, trachea, sizes 2, 3, 4, 5, 6 (1 of each size).....	do.... 5

(d) Hospital furniture and equipment.

Applicator, wooden, in box.....	boxes.. 1
Apron, rubber.....	each.. 6
Atomizer, hand.....	do.... 4
Atomizer, paraffin base.....	do.... 2
Bag, rubber, hot water.....	do.... 12
Bag, rubber, hot water and syringe.....	do.... 24
Basin, for sponges.....	do.... 12
Basin, hand, w. e., 2½-quart.....	do.... 24
Basin, pus.....	do.... 12
Binder, loose leaf, for medical history of post (par. 844, M. M. D.)....	do.... 1
Boiler, instrument, 20 by 8 by 6 inches.....	do.... 3
Box, folding, for tablets.....	dozen.. 24
Box, ointment, impervious, 3 in nest.....	do.... 12
Box, powder, 3 in nest.....	do.... 24
Box, soap, metal.....	do.... 6
Brush, hair, counter.....	each.. 6
Brush, hand, fiber, M. D. S.....	do.... 60
Brush, shaving.....	do.... 6
Cabinet, food.....	do.... 4
Can, oil, 1-ounce, with spout and screw cap.....	do.... 1
Cap, operating.....	do.... 36
Cement, rubber, 1-ounce, in collapsible tube.....	do.... 5
Cork extractor.....	do.... 1
Cork presser.....	do.... 1
Cot, finger, thin rubber.....	do.... 100
Crutches.....	pairs.. 20
Crutch, No. 16, ¼-inch rubber tips for.....	each.. 20
Crutch, No. 18, ¼-inch rubber tips for.....	do.... 20
Crutch, No. 19, ¼-inch rubber tips for.....	do.... 20
Cup, feeding, delf.....	do.... 6
Cup, spit, paper.....	do.... 7,500
Cup, spit, metal frame for.....	do.... 250
Cushion, rubber, open center.....	do.... 4
Cushion, rubber, small.....	do.... 4
Cushion, surgical, Kelly.....	do.... 2
Cylinder, oxygen, 80-gallon.....	do.... 1
Drum, 9-inch, small, for sterilizing dressings.....	do.... 6
Eye shade, single.....	do.... 24
File, Shannon, small, 4½ by 10½ inches.....	do.... 12
Funnel, 6-inch, w. e.....	do.... 4
Gloves, heavy, sizes 7, 7½, 8½, rubber (12 pairs of each size).....	pairs.. 36

	Number.
Gloves, medium, sizes 7, 7½, 8½, rubber (12 pairs of each size).....	pairs.. 36
Gown, operating.....	each.. 36
Graduate, 10 c. c., glass.....	do... 3
Graduate, 500 c. c., glass.....	do... 3
Graduate, 1,000 c. c., glass.....	do... 3
Graduate, w. e., 500 c. c., M. D. S.....	do... 2
Hone, oil, Arkansas stone, in hinged wooden box, M. D. S.....	do... 1
Inhaler, gas-ether, Bennett.....	do... 1
Ink, plates, for finger prints.....	do... 1
Ink, printing, for finger prints.....	tubes.. 1
Irrigator, w. e., 2-quart, seamless, half round.....	each.. 6
Jar, small, glass, covered for sutures, etc.....	do... 4
Kettle, croup.....	do... 3
Labels, for vials.....	do... 500
Labels, poison, assorted.....	do... 100
Lamp, alcohol, Capitol, No. 21, S. S. W. type.....	do... 6
Lamp, alcohol, wicks for.....	do... 6
Litter, with slings.....	do... 100
Medicine droppers.....	dozen.. 4
Medicine glasses.....	each.. 24
Mortar and pestle, 20 cm., Wedgewood.....	do... 1
Pad, prescription.....	do... 10
Pail, commode.....	do... 6
Pajama coats, winter or summer as required.....	do... 300
Pajama trousers, winter or summer as required.....	do... 300
Paper, filtering, round, 10-inch.....	packages.. 6
Paper, blue, wrapping, 24 by 36 inches, 25 pounds.....	quires.. 2
Paper, white, wrapping, 24 by 36 inches, 25 pounds.....	do... 2
Pencil, hair, 1 dozen in vials, M. D. S.....	vials.. 1
Pencil, wax, blue, for writing on glass.....	each.. 3
Pencil, wax, red, for writing on glass.....	do... 3
Pillowcase, cotton, M. D. S.....	do... 300
Pillow, hair, M. D. S.....	do... 150
Pill tile, 5 by 10 inches, porcelain.....	do... 1
Pins, safety, assorted sizes.....	dozen.. 24
Pitcher, 1-pint, w. e., M. D. S.....	each.. 3
Pitcher, 4-quart, w. e., M. D. S.....	do... 6
Rack, for urinals and bedpans.....	do... 3
Razor, metal handle.....	do... 2
Razor, hone for.....	do... 1
Razor, strop for.....	do... 1
Rod, glass, assorted, 10 ounces in package.....	packages.. 2
Roller, handle for.....	each.. 1
Roller, winter, fingerprint.....	do... 1
Scale and weights, apothecary's, metric system.....	do... 1
Sheet cotton, M. D. S.....	do... 300
Sheeting, rubber.....	yards.. 25
Shirt, cotton.....	each.. 50
Sightfeed glass, for proctoclysis.....	do... 5
Spatula, 3-inch.....	do... 2
Spatula, 6-inch.....	do... 2
Sprinkler, powder, h. r.....	do... 10

	Number.
Sterilizer, National, medium.....	each.. 1
Stool, revolving, w. e.....	do... 1
Stove, 1-burner, kerosene, blue flame.....	do... 3
Stove, 2-burner, kerosene, blue flame.....	do... 1
Strap and buckle, 3 feet by 1½ inches, webbing.....	do... 24
Strap and buckle, 6 feet by 1½ inches, webbing.....	do... 24
Syringe, ring handle, 6½-inch nozzle.....	do... 2
Syringe, penis, h. r.....	do... 12
Table, folding, bedside.....	do... 12
Table, instrument.....	do... 2
Tape, cotton, 1-inch, 72 yards in roll.....	rolls.. 2
Thermometer, bath.....	each.. 2
Thermometer, clinical.....	do... 50
Thermometer, ward.....	do... 3
Thread, cotton, assorted No. 40, 3-cord.....	spools.. 12
Thread, linen, No. 25 and No. 30, unbleached, 200 yards on spool (6 of each).....	spools.. 12
Tongue depressor, wood.....	gross.. 4
Towel, bath, M. D. S.....	dozen.. 10
Towel, dish.....	do... 5
Towel, hand, M. D. S.....	do... 15
Tray, instrument, w. e.....	each.. 6
Tubing, ¼-inch, rubber.....	yards.. 12
Tubing, ½-inch, rubber, heavy wall, white.....	do... 10
Tubing, glass, assorted.....	pounds.. 5
Vials, 1-ounce.....	dozen.. 8
Vial, 2-ounce.....	do... 8
Vial, 8-ounce.....	each.. 50
Vision test set (par. 959, M. M. D.).....	do... 1
Wire, ¼-inch, g. i., on spool.....	spools.. 3

(e) Field equipment and supplies.

Bedpan, box of (includes 9 bedpans and 12 urinals, w. e).....	each.. 1
Blanket, gray, M. D. S.....	do... 500
Blanket, rubber, M. D. S.....	do... 150
Book, note, manifolding, binder for, 4 by 6 inches.....	do... 24
Book, note, manifolding, filler for, 4 by 6 inches.....	do... 48
Bucket, w. e., 3 in nest.....	nests.. 6
Carrier, field, for litters.....	each.. 2
Carrier, wheeled, for litters.....	do... 4
Case, bedding, large, empty.....	do... 25
Case, bedding, small, empty.....	do... 15
Chair, field, folding, M. D. S.....	do... 12
Chest, medical and surgical (par. 932, M. M. D.).....	do... 1
Chest, mess (par. 934, M. M. D.).....	do... 1
Chest, tableware (par. 936, M. M. D.).....	do... 2
Corks, assorted, 300 in bag.....	bags.. 3
Corkscrew, folding.....	each.. 4
Cot, Gold Medal, M. D. S.....	do... 150
Cups, w. e.....	do... 200
Delco generator, M. D. S.....	do... 1
Lantern, globe for, green.....	do... 1

	Number.
Lighting outfit, electric, complete, M. D. S.....	each.. 1
Pill tile, h. r.....	do... 2
Table, field operating.....	do... 2
Tags, emergency medical.....	books.. 30
Venereal prophylactic unit (par. 958, M. M. D.).....	each.. 1
<i>(f) Laboratory apparatus and supplies.</i>	
Blood lancet, automatic.....	each.. 1
Bottle, dropping, T. K., 50.....	do... 8
Brush, test tube, length 9 inches, bristles part 3 by 1½ inches.....	do... 2
Cork, No. 2, for test tube, 75 by 10 mm.....	do... 24
Cork, No. 4, for vial, 2-dram.....	do... 12
Cover glasses, 22 mm. square, No. 1 glass, ½ ounce, in box.....	boxes.. 2
Cup, enamel ware, 250 c. c., tumbler shape, 2 in set.....	each.. 2
Cylinder, 25 c. c., glass, graduated, with spout, on foot, delivering 25 c. c.....	each.. 1
Q File, triangular, 4-inch.....	each.. 1
Forceps, tissue, 5-inch, post-mortem, Stone.....	do... 1
Funnel, glass, 50 mm. outside diameter with accurate 60° angle, with rim ground and oblique point.....	each.. 2
Hemacytometer, complete, American standard, with Levy counting chamber with double Zappert-Neubauer ruling, diluting pipettes for both red and white corpuscles, and coverslips.....	each.. 1
Hemoglobinometer, Tallqvist scale.....	do... 1
Lamp, alcohol, Capitol, No. 21, S. S. W. type.....	do... 1
Lamp, alcohol, wicks for.....	do... 3
Microscope, folding, in metal case, with side adjustment, Abba condenser, iris diaphragm, triple nose piece, objectives 16 mm., 4 mm., and 1.8 mm., oculars 6X and 10X, with vial of immersion oil, and mechanical stage.....	each.. 1
Needle holder, Kolle form, to take platinum or nichrome wire from No. 22 to 26, B. & S. gauge.....	each.. 1
Paper, filter, qualitative, 125 mm. diameter, American white....	packages.. 2
Paraffin, hard, melting point 52° to 55° C., 1 pound in cake.....	cakes.. 1
Paper, lens, Japanese, in package of 100 sheets.....	packages.. 1
Pencil, wax, red, for writing on glass.....	each.. 2
Pipette, serological, 1 c. c. graduated to 1/100 c. c.....	do... 3
Pipette, serological, 10 c. c. graduated to 1/10 c. c., Mohr's shape....	do... 2
Slides, micro., 75 by 25 mm., 50 in carton.....	cartons.. 2
Syringe, Luer, 10 c. c. graduated to 1/2 c. c.....	each.. 1
*Swab and one wood tongue depressor in sterile package.....	do... 12
Syringe needle, canula, 1½ inches long, No. 19, B. & S. gauge.....	do... 6
Test glass, ungraduated, 200 c. c., conical form with foot and spout....	do... 1
Test tube, 75 by 10 mm., for Wassermann test, packed 6 in mailing case..	cases.. 30
Test tube 150 by 16 mm., thin, wall with lip for chemical work....	each.. 36
Urinometer, Squibb.....	do... 1
*Vial, 2-dram, with spoon, for forwarding specimen of feces.....	do... 12
Wire, platinum, No. 24, B. & S. gauge, weight approximately 1.33 gms. per foot.....	feet.. 1/4
Wright's stain powder, 0.2 gm. in ampule.....	ampules.. 4
Xylene, U. S. P., reagent, 30 c. c., in bottle.....	bottles.. 1
Acid, acetic, S. M., 99-5 per cent, 60 c. c., in bottle.....	do... 1
Alcohol, ethyl, U. S. P., 120 c. c. in bottle.....	do... 2

	Number.
Alcohol, methyl, S. M., 60 c. c. in bottle.....	bottles.. 2
**Benedict's solution, ingredients of, copper sulphate, 1.7 gms. in sealed ampule.....	ampules.. 2
Cedarwood oil (immersion), 1 ounce in bottle.....	bottles.. 1
**Distilled water, 120 c. c. in bottle.....	do.... 4
**Fuchsin, basic, 0.17 gm. in sealed ampule, each ampule sufficient to make 50 c. c. carbol-fuchsin stain.....	ampules.. 2
**Gentian violet, 0.35 gm. in sealed ampule, each ampule sufficient to make 50 c. c. caobol-gentian violet stain.....	ampules.. 2
**Gram's solution of iodine, ingredients of: Iodine, 0.17 gm. and potassium iodide, 0.34 gm. combined in sealed ampule, each ampule to make 50 c. c.....	ampules.. 3
Litmus paper, blue, sensitive neutral, 100 strips in vial.....	vials.. 2
Litmus paper, red, sensitive neutral, 100 strips in vial.....	do.... 1
Medical War Manual No. 6 (laboratory methods, U. S. Army).....	copies.. 1
**Methylene blue, 1.5 gm. in sealed ampule, each ampule sufficient to make 50 c. c. Loeffler's methylene blue.....	ampules.. 3
Normal saline solution tablet, 12 in vial (par. 902, M. M. D.).....	vials.. 1
**Phenol, 5 per cent aqueous solution, 120 c. c. in bottle.....	bottles.. 2
**Potassium hydroxide, 4 per cent aqueous solution, 30 c. c. in bottle.....	do.... 1
**Sodium citrate, 17 gm. and sodium carbonate, anhydrous, 10 gms. combined in 30 gm. bottle.....	bottles.. 2
**Tincture of iodine, ingredients of: Iodine 1.4 gms. and potassium iodide 1 gm. combined in sealed ampule, each ampule sufficient to make 20 c. c.....	ampules.. 2
**Safranin, water soluble, 1 gm. in sealed ampule, each ampule sufficient to make 50 c. c. saturated solution.....	ampules.. 2
Instruction for preparation of reagents and stains, pasted in chest.....	copies.. 1

For economy of space and weight and when the need for the larger amount does not exist, certain drugs, chemicals, and reagents are issued in this chest in smaller containers than those listed on the list of standard medical supply items. Replacement of these items will, however, be made in standard size containers.

(g) *Set, dental, operating.*

Drugs, chemicals and reagents:

Alcohol, ethyl, U. S. P., 1 quart in bottle.....	bottles.. 1
Acid, chromic, U. S. P., 1 ounce in bottle.....	do.... 1
Eugenol, 1 ounce in bottle.....	do.... 1
Iodine, U. S. P., crystals, $\frac{1}{4}$ pound in bottle.....	do.... 1
Mercury, U. S. P., redistilled, $\frac{1}{4}$ pound in jug.....	jugs.. 1
Phenol, U. S. P., crystals, $\frac{1}{4}$ pound in bottle.....	bottles.. 1
Procaine-suprarenin, tablet ("E"), 20 in tube.....	tubes.. 20
Pumice, powdered, fine; flour, 1 pound in tin.....	tins.. 1
Ringer solution, tablet for, 20 in tube, Metz type.....	tubes.. 20
Silver nitrate, U. S. P., crystals, 1 ounce in bottle.....	bottles.. 1
Silver nitrate and formalin ampules, 5 ampules with 2 applicators in box.....	boxes.. 1

Dental instruments, appliances and supplies:

Alloy, balanced, to compare with Black's physical standards, 1 ounce in bottle.....	bottles.. 2
Band, fracture, Angle's 4 bicuspids and 2 molars, in set.....	sets.. 1

Items marked ** not to be stored at depot, but will be added prior to shipment.

Dental instruments, appliances and supplies—Continued.	Number.
Band, fracture, single end wrench for, Angle's.....each..	1
Blower, chip, and hot air syringe, No. 38, S. S. W. type.....do....	1
Boiler, instrument, small, approximately 12 by 6 by 4 inches.....do....	1
Bottle, medicine, ½-ounce, square with glass stopper, No. 1, S. S. W. type.....each..	3
Broach, smooth, pathfinder, T. C. type, 6 in package.....packages..	2
Brush, scratch, wire, for cleaning burs.....each..	1
Brush, tooth polishing, straight, mounted, for H. P. No. 7, 12 in box.....boxes..	2
Burs, No. 557, No. 558, No. 559, for H. P. No. 7, fissure dentate, 6 each size.....each..	18
Burs, No. 557, No. 558, No. 559, for H. P. "M," fissure dentate, 6 each size.....each..	18
Burs, No. 34, No. 37, No. 41, for H. P. No. 7, inverted cone, 6 of each size.....each..	18
Burs, No. 34, No. 37, No. 41, for H. P. "M," inverted cone, 6 of each size.....each..	18
Burs, No. 2, No. 4, No. 6, No. 8, for H. P. No. 7, round, 6 of each size.....each..	24
Burs, No. 2, No. 4, No. 6, No. 8, for H. P. "M," round, 6 of each size.....each..	24
Cavity lining, 1 ounce in bottle.....bottles..	1
Cement, germicidal, black copper.....boxes..	1
Cement, pearl gray, oxyphosphate, crown and bridge.....do....	2
Cement, temporary.....do....	1
Chair, portable, dental, metal frame; chest, S. S. W. type.....each..	1
Chest, field, dental, empty.....do....	1
Chisel, L. H., No. 43, No. 44, No. 48, 1 of each.....do....	3
Cleaners, No. 0, No. 2, No. 4, root canal, S. S. W., of Donaldson type, 12 in package, 1 package of each size.....packages..	3
Cotton rolls, 6 by ½ inch, absorbent, 100 in box.....boxes..	1
Cuspidor, aluminum, 3 inches deep, Weber.....each..	1
Disk, bristle, round, stiff, small, mounted, for H. P. No. 7, 6 in box.....boxes..	2
Disk, bristle, cup shaped, stiff, mounted, for H. P. No. 7, 6 in box.....boxes..	2
Disk, paper, assorted grits and sizes, 525 in box.....do....	1
Elevator, Winter No. 137, metal handle.....each..	1
Elevator, Winter's Nos. 122 and 123, metal handle, Cleve-Dent type, 1 of each.....each..	2
Engine, dental, all-cord, with K 4 attachment for H. P. No. 7 (less chest).....each..	1
Engine, dental, all-cord, cords for, 15 feet 6 inches.....do....	2
Engine, dental, handpiece No. 7, straight, for slip joint No. 2.....do....	1
Engine, dental, handpiece "M," contra-angle, for slip joint No. 2.....do....	1
Engine, dental, oil for, 1 ounce in bottle.....bottles..	1
Excavator, L. H., Nos. 8, 15, 23, 46, 65, 66, 69, 70, 83, Black's cutting instrument, 1 of each number.....each..	9
Explorers, L. H., Nos. 5, 6, 11, 12, S. S. W. type, 1 of each number.....do....	4
File, gold, flat, 6 inches.....do....	1
File, root canal, "B," No. 3, Kerr, 6 in package.....packages..	1
File, root canal, "D," No. 3, Kerr, 6 in package.....do....	1
Floss, silk, flat, waxed, 24 yards on spool.....spools..	2

Dental instruments, appliances and supplies—Continued.		Number.
Forceps, tooth extracting, No. 15, No. 18-R, No. 18-L, No. 27, C. D. M. Co. type, No. 65, No. 103, No. 210, 1 of each number.....	each..	7
Gutta percha, temporary, stopping, assorted pink and white sticks, 1 ounce in box.....	boxes..	1
Holder for cotton, Methot.....	each..	1
Holder for mercury, No. 2, S. S. W. type, ebony or boxwood.....	do....	1
Holder for nerve broach, No. 2, S. S. W. type.....	do....	2
Knife, scalpel type.....	do....	1
Lancet, exact, No. 1, curved, metal handle, Cleve-Dent type.....	do....	1
Lancet, aseptic, No. 2, straight, metal handle, Volland, Cleve-Dent type, each.....	.....	1
Mandrel, Morgan-Maxfield, for H. P. No. 7.....	each..	1
Mandrel, Morgan-Maxfield, for H. P. "M".....	do....	1
Mandrel, No. 303, for H. P. No. 7.....	do....	1
Mandrel, No. 303, for H. P. "M".....	do....	3
Mechanical dam, automaton.....	do....	1
Mirror, mouth, No. 52, plain, metal handle, S. S. W. type.....	do....	1
Mirror, mouth, No. 53, magnifying, metal handle, S. S. W. type.....	do....	1
Mirror, mouth, plain, glasses for, No. 52, S. S. W. type.....	do....	2
Mirror, mouth, magnifying, glasses for, No. 53, S. S. W. type.....	do....	2
Mortar and pestle, glass, Caulk.....	do....	1
Napkin , dental, aseptic, 6 by 6 inches, J. & J., 100 in box.....	boxes..	2
Nippers , dressing, No. 2.....	each..	2
Pliers , Gordon, No. 137, contouring.....	do....	1
Pliers , office, smooth beak, No. 122.....	do....	1
Plugger , Woodson, No. 1, No. 2, No. 3, amalgam. 1 of each number.....	do....	3
Plugger , Ladmore, No. 3, plastic, double end.....	do....	1
Plugger , root canal, No. 1 and No. 7, Kerr, 1 of each number.....	do....	2
Points , aseptic, absorbent, J. & J., 100 in box.....	boxes..	3
Points , No. 183, No. 186, No. 189, No. 226, No. 234, for H. P. No. 7 carborundum, medium grit, mounted, L. S. S. type, 1 of each number, each.....	.....	5
Points , No. 183, No. 186, No. 189, No. 226, No. 234, for H. P. "M," carborundum, medium grit, mounted, L. S. S. type, 1 of each number, each.....	.....	5
Points , root canal, No. 6 and No. 8, gutta percha, pink, round, S. S. W. type, 1 of each number.....	each..	2
Pot, Dappen, green, medicine, glass.....	do....	1
Pot, Dappen, white, medicine, glass.....	do....	1
Probe, silver, telescoping, in metal case, S. S. W. type.....	do....	1
Retainer, matrix, ivory, No. 1.....	do....	1
Retainer, matrix, bicuspid bands for, ivory No. 1, 12 in package, packages.....	.....	1
Retainer, matrix, molar bands for, ivory No. 1, 12 in package, packages.....	.....	1
Rubber, red, for pressure anesthesia, vulcanite.....	sheets..	1
Saw, ribbon, $\frac{3}{4}$ -inch wide, thin.....	.....	1
Scalers, L. H. No. 3, No. 6, No. 30, No. 33, No. 34, No. 59, 1 of each number.....	each..	6
Screw driver, small, swivel end, for engine and handpieces, No. 5, S. S. W. type.....	each..	1
Silicate cement, Caulk's synthetic porcelain, or Smith's enamel, 10 color box.....	boxes..	1

Dental instruments, appliances and supplies—Continued.	Number.
Silicate cement, Caulk's synthetic porcelain, or Smith's enamel, 10 color box, extra varnish for.....	1
Silicate cement, Caulk's synthetic porcelain, or Smith's enamel, 10 color box, shade guide for.....	1
Slab, glass, square, mixing, 2 by 2 inches.....	1
Spatula, agate or stelite, single end for silicate cement.....	1
Spatula, cement, No. 24, steel handle, S. S. W. type.....	1
Splint, adjustable or open bite, Gunning.....	6
Strips, polishing, medium grit, assorted widths.....	1
Strips, celluloid, thin, 100 in box.....	1
Syringe, hypodermic, Fischer type, complete in metal case.....	1
Syringe, hypodermic, needles for, curved, standard thread, 24 gauge, ¼-inch length.....	12
Syringe, hypodermic, needles for, straight, standard thread, 24 gauge, ¼-inch length.....	12
Syringe, hypodermic, long hubs for, for Shimmel needles.....	3
Syringe, hypodermic, short hubs for, for Shimmel needles.....	3
Syringe, hypodermic, Shimmel needles for, 26 gauge, 1-inch and 1½ inches, for conductive anesthesia, iridium platinum, 2 of each size, each.....	4
Syringe, water, Moffat, No. 21A.....	1
Syringe, water, rubber bulbs for, Moffat, No. 21A.....	1
Wheels, carborundum, Nos. 302, 305, 307, engine, medium grit, square edge, 2 of each number.....	6
Wire, ligature, Angle's, No. 187.....	1
Wood, orange sticks, medium, 25 in bundle.....	1
Burnisher, Tantalum, double end, Caulk type.....	1
Disk, vulcarbo, ½ inch separating, thin, safe side.....	6
Fracture appliance, Usona outfit No. 3, Meyer Manufacturing Co. do....	1

(h) *Set, dental, laboratory.*

Drugs, chemicals, and reagents:

Acid, sulphuric, U. S. P., ¼ pound in bottle.....	1
Alcohol, ethyl, U. S. P., 1 quart in bottle.....	1
Chalk, prepared, U. S. P., 1 pound in bottle.....	1
Lycopodium, U. S. P., ¼ pound in bottle.....	1
Pumice, powdered, medium coarse, 4 pounds in tin.....	1

Dental instruments, appliances, and supplies:

Aluminum, for casting, in approximately 2-ounce ingots.....	6
Anvil, cast base, small.....	1
Appliance, soldering, pad with clamps, Melotte, S. S. W. type.....	1
Articulator, crown and bridge, No. 5, S. S. W. type.....	2
Articulator outfit, Gysi Simplex, complete.....	1
Bar, lingual, base metal, gold plates for vulcanite, 3-inch lengths, 12 in box.....	1
Base plate, Perfection, Kerr's, for trial dentures.....	1
Bellows, foot, Fletcher, 9A, with rubber disk and netting.....	1
Borax, in sticks, 2 ounces in box.....	1
Bowl, A-small, plaster, rubber, S. S. W. type.....	1
Bowl, B-medium, plaster, rubber, S. S. W. type.....	1
Brush, laboratory, plain, stiff bristle, ¾ inch wide.....	1
Calcar, molding sand, 2 quarts in tin.....	1

Dental instruments, appliances and supplier—Continued.	Number.
Casting machine, centrifugal.....	each.. 1
Composition, modeling, $\frac{1}{2}$ pound in box, Kerr type.....	boxes.. 4
Cone, No. 6, felt, large, blunt, S. S. W. type.....	each.. 1
Cone, No. 3, felt, large, pointed, S. S. W. type.....	do.... 1
Dentimeter, metal handle, Kirk.....	do.... 1
Dentimeter, metal handle, Kirk, wire for.....	spools.. 1
File, gold, flat, half-round and round 6-inch, 1 of each.....	each.. 3
File, vulcanite, round, 8-inch.....	do.... 1
File, vulcanite, double end, half-round, 8-inch.....	do.... 1
Finisher, Kingsley No. 2 and No. 4, vulcanite, 1 of each number.....	do.... 2
Frame, heating, wire net, No. 4, S. S. W. type.....	do.... 1
Hammer, riveting, "B" medium, S. S. W. type.....	do.... 1
Hammer, swaging, fiber faced, $\frac{1}{2}$ -pound.....	do.... 1
Holder for crown, ivory.....	do.... 1
Investment compound, crown and bridge, 4 pounds in tin.....	tins.. 1
Investment compound, inlay, 4 pounds in tin.....	do.... 1
Knife, plaster, No. 6, S. S. W. type.....	each.. 1
Ladle, melting, No. 5 and No. 6, S. S. W. type, 1 of each.....	do.... 2
Ladle, melting, handle for, No. 5 or No. 6, S. S. W. type.....	do.... 1
Ladle, melting, No. 8, S. S. W. type.....	do.... 1
Ladle, pickling, copper, No. 397, B. D. M. Co. type.....	do.... 1
Lamp, alcohol, large, Purdy.....	do.... 1
Lamp, alcohol, large, wicks for, Purdy.....	do.... 1
Lathe, cone journal, hand and foot, complete, S. S. W. type.....	do.... 1
Lead, $\frac{1}{2}$ pound in ingot.....	ingots.. 10
Mallet, swaging, horn, S. S. W. type.....	each.. 1
Metal, fusible, Melotte's, in ingot.....	ingots.. 6
Moldine, Melotte's, 1 pound in tin.....	tins.. 1
Moldine outfit, rubber rings for, Melotte's.....	each.. 1
Plaster of Paris, for impressions, 4 pounds in tin.....	tins.. 2
Plaster of Paris, for models, 4 pounds in tin.....	do.... 2
Plate, liberty silver, 36 gauge 6 by 6 inches.....	pieces.. 6
Pliers, Gordon, No. 137, contouring.....	each.. 1
Pliers, Goslee, No. 136, contouring.....	do.... 1
Pliers, Johnson, No. 114, contouring.....	do.... 1
Pliers, laboratory, Universal, R. & R. type.....	do.... 1
Pliers, round nose, No. 107.....	do.... 1
Rings, molding, Bailey, 2 in set.....	sets.. 1
Rouge in sticks.....	sticks.. 1
Rubber, pink, vulcanite, $\frac{1}{2}$ pound in box.....	boxes.. 1
Rubber, red, vulcanite, $\frac{1}{2}$ pound in box.....	do.... 1
Sandarac varnish, 2 ounces in bottle.....	bottles.. 1
Sandpaper, grit No. 00, No. 0, No. $\frac{1}{2}$, No. 1, 2 sheets of each number, sheets.....	8
Saw, frame, mechanical.....	each.. 1
Saw, frame, mechanical, flat blades for, 12 in bundle.....	bundles.. 1
Shears, crown, curved, Beebee, No. 11, S. S. W. type.....	each.. 1
Shears, crown, straight, Lane, No. 10, S. S. W. type.....	do.... 1
Shears, plate, full cut, straight, No. 8, S. S. W. type.....	do.... 1
Shellac, gum, 2 ounces in carton.....	cartons.. 1
Solder, silver, 5 pennyweight in piece.....	pieces.. 1
Solder, soft, wire form, $\frac{1}{2}$ pound in coil.....	coils.. 1

Dental instruments, appliances and supplies—Continued.	Number.
Soldering iron, copper, 2-ounce.....	each.. 1
Spatula, plaster, rubber, 4-inch.....	do.... 1
Spatula, wax, No. 7 and No. 31, S. S. W. type, 1 of each number.....	do.... 2
Teeth, shade guide for, twentieth century.....	do.... 1
Teeth, U. S. Army assortment No. 1, vulcanite, Trubyte type, modified without container.....	sets.. 1
Tin foil, thin, in roll.....	rolls.. 1
Tongs, flask, 13-inch, B. D. M. Co. type.....	each.. 1
Tongs, soldering, No. 4, S. S. W. type.....	do.... 1
Torch (blowpipe), Prest-O-Lite, style "D".....	do.... 1
Torch, attachment for, with bunsen burner, Prest-O-Lite.....	do.... 1
Torch, style "B" tank for, Prest-O-Lite.....	do.... 1
Torch, 5-pound automatic reducing valve for, Prest-O-Lite.....	do.... 1
Tray, crown and bridge, No. 43, S. S. W. type.....	do.... 2
Tray, bite, impression.....	do.... 1
Tray, lower, Nos. 1, 3, 5, 15, 17, 22, 26, 30, impression, S. S. W. type, 1 of each number.....	each.. 8
Tray, upper, Nos. 1, 3, 5, 12, 14, 18, 22, impression, S. S. W. type, 1 of each number.....	each.. 7
Tray, split, hinge, Roach, 4 in set.....	sets.. 1
Trimmer, Pearson, Nos. 25, 26, 27, vulcanite, S. S. W. type, 1 of each number.....	each.. 3
Tweezers, "B," "D," "E," "G," "K," "L," soldering, 1 of each.....	do.... 6
Vise, bench, jeweler's, side lever, 1½-inch jaws.....	do.... 1
Vise, pin, hand, Lowell.....	do.... 1
Vulcanizer, Lewis (with 2 flasks for, Whitney type).....	do.... 1
Wax, base plate, pink, ½ pound in box.....	boxes.. 2
Wax, casting, sheets, Kerr, 28-gauge, 20 in box.....	do.... 1
Wax, crown, sticky, in sticks.....	do.... 1
Wax, impression, yellow, in cakes, ½ pound in box.....	do.... 2
Wax, inlay, Taggart or Kerr type.....	do.... 1
Wheels, brush, Nos. 3, 5, 6, 16, 24, 26, laboratory, lathe, 1 of each number.....	each.. 6
Wheels, carborundum, medium grit, $\frac{3}{16}$ by 2 inches, lathe, square edge.....	each.. 1
Wheels, carborundum, coarse grit, $\frac{3}{16}$ by 2 inches, lathe, square edge.....	each.. 1
Wheel, chamois, 3-inch.....	do.... 2
Wheel, felt, No. 2, knife edge.....	do.... 1
Wheel, felt, No. 3, square edge.....	do.... 1
Wheel, felt, No. 4, round edge.....	do.... 1
Wire cutter, safe edge, No. 3.....	do.... 1
Wire, nickel silver, 16-gauge, in 4-foot lengths.....	lengths.. 1
Q Whetstone, carborundum, 5-inch.....	each.. 1
Zinc, ½ pound in ingot.....	ingots.. 10

(i) *Food supplies.*

Q Can opener.....	each.. 1
Q Cocoa, 8-ounce tins.....	tins.. 8
Q Coffee extract, 4 ounces in can.....	cans.. 48
Q Milk, evaporated, 1 pound in can.....	do.... 96
Q Soup, concentrated, assorted, 1 pound in can.....	do.... 96
Q Sugar, white, 4 pounds in screw-cap tin.....	tins.. 24

(k) Miscellaneous supplies and equipment.

(Additional to allowances in Tables II and III—Tables of Basic Allowances.)

	Number.
Q Axes, with helves.....	each.. 8
Q Axes, short handle.....	do... 6
Q Brooms, corn.....	do... 12
Q Carborundum wheel, with fixtures.....	do... 1
*CWS Gloves, protective, 5-finger.....	pairs.. 4
*CWS Masks, gas, 1919 with 1920 carrier.....	each.. 50
*CWS Suits, protective.....	each.. 2
Q Desk, field, regimental (in lieu of desk, field company).....	do... 1
Q Field range, No. 1.....	do... 1
Equipment for field range No. 1:	
Q Boiler and cover, Nos. 48, 49, 50, 51, 52, 53, 54, of each.....	do... 1
Q Cleaver.....	do... 1
Q Dipper, 2-quart, No. 55.....	do... 1
Q Dipper.....	do... 1
Q Fork, small.....	do... 2
Q Grinder, meat.....	do... 1
Q Knife, butcher, 8-inch.....	do... 3
Q Pans, bake.....	do... 2
Q Saw, meat.....	do... 1
Q Skimmer, large.....	do... 1
Q Spoon, large.....	do... 2
Q Steel, butcher.....	do... 1
Q Flash light with bulb and battery, complete.....	do... 24
Q Flash light, extra batteries for.....	do... 48
Q Ground cloths for tents.....	do... 36
Q Lanterns, complete with globes and wicks.....	do... 36
Q Lanterns, extra globes for.....	do... 36
Q Lanterns, extra wicks for.....	do... 36
Q Nails, wire, assorted.....	pounds.. 25
Q Outfit, officer's mess.....	each.. 1
Q Paulins, large.....	do... 4
Q Paulins, small.....	do... 4
Q Rope, manila, 3-inch.....	feet.. 200
Q Screens, latrine.....	each.. 3
Q Spades.....	do... 4
Q Soap, hand.....	cakes.. 144
Q Stoves, tent, complete.....	each.. 36
Q Tools, carpenter's, set.....	do... 1
Q Mattress, cot.....	do... 150
Q Tents, ward, complete with poles and pins.....	do... 20
Q Twine, fine.....	balls.. 6
Q Twine, coarse.....	do... 6

NOTE 4.—Medical Supply Section:

Miscellaneous supplies and equipment.

Q Axe, with helve.....	each.. 2
Q Axe, short handle.....	do... 4
Q Axe, short handle, handle for.....	do... 6
Q Brushes, marking.....	do... 12

* Issued only in time of war for treatment of gassed cases.

	Number.
Q Burlap, 36 inches wide, in roll.....rolls..	1
Q Desk, field, regimental.....each..	1
Q Glue, $\frac{1}{4}$ pound in tin.....tins..	12
Q Hammer, claw.....each..	6
Q Lampblack, in oil, 1 pound in compression top tin.....tins..	12
Q Lantern, complete with globe and wick.....each..	3
Q Lantern, extra globe for.....do....	3
Q Lantern, extra wick for.....do....	3
M Litter, braces and legs for.....do....	20
M Litter, canvas for.....do....	50
M Litter, rings for.....do....	50
M Litter, slings for.....do....	50
M Litter, straps for.....do....	50
M Litter, studs for.....packages..	3
M Litter, tacks for, 75 in package.....do....	25
Q Machine, gum tape.....each..	1
Q Machine, gum tape, tape for, $\frac{1}{4}$ -inch wide, in roll.....rolls..	50
Q Nails, 4d, 6d, 8d (50 pounds of each).....pounds..	150
Q Nail puller.....each..	4
Q Needle, sailmaker's.....do....	12
Q Paper, corrugated, 36 inches wide, in roll.....rolls..	3
Q Paper, wrapping, brown, in sheets.....quires..	48
Q Paulins, small.....each..	2
Q Pot, marking.....do....	3
Q Stencil, brush, fountain.....do....	6
Q Stencil, ink, 1 pint in tin.....tins..	12
Q Tags, shipping.....each..	5,000
Q Tent, storage, complete with poles and pins.....do....	2
Q Tools, carpenter's, set.....do....	1
Q Twine, coarse.....balls..	24

NOTE 5.—Medical Laboratory Section:

LABORATORY SUPPLIES AND EQUIPMENT.

For economy of space and weight and when the need for the larger amount does not exist, certain drugs, chemicals and reagents are issued in these chests in smaller containers than those listed on the list of standard medical supply items. Replacements of these items will, however, be made in standard size containers.

[Items marked * to be prepared or assembled at depot. Items marked ** not to be stored at depot, but will be added to chest prior to shipment.]

(a) Chest No. 1, clinical pathology "A" (glassware and reagents).

	Number.
Bottle, balsam, 45 c. c. with glass cap.....each..	1
Bottle, wide mouth, 50 c. c. without cork, for specimens.....do....	12
Bottle, narrow mouth, 120 c. c. flint glass, with mushroom glass stopper.....do....	12
Bottle, dropping, TK, 50 c. c.....do....	12
Burette, 25 c. c., graduated to $\frac{1}{10}$ c. c. with 3-way stopcock.....do....	2
Color comparison tubes, 50 c. c. Nessler, with 50 c. c. mark 210 mm. high.....each..	24
Cork, size 2, for test tube, 75 by 10 mm.....do....	60
Cork, size 4, for vial, 2 dram.....do....	12
Cover glasses, 22 mm. square, No. 1 glass, $\frac{1}{2}$ ounce in box.....boxes..	4

	Number.
Cylinder, 25 c. c. glass, graduated, with spout, on foot.....	2
Cylinder, 100 c. c. glass, graduated, with spout, on foot.....	2
Cylinder, 250 c. c. glass, graduated, with spout, on foot.....	2
Dish, evaporating, porcelain, 250 c. c., 100 mm. diameter.....	2
Dish, Stender, 30 mm. high by 50 mm. diameter.....	1
Funnel, glass, 50 mm. outside diameter, with accurate 60° angle, with rim ground and with oblique point.....	2
Funnel, glass, 90 mm. outside diameter, with accurate 60° angle, with rim ground and with oblique point.....	2
*Glass rod, 6 mm., 250 mm. long, 12 in package.....	½
*Glass tubing, 6 mm. outside diameter, stout walls, soft, for bending in laboratory.....	2
Pipette, serological, 1 c. c. graduated to $\frac{1}{10}$ c. c. to tip.....	12
Pipette, serological, 10 c. c. graduated to $\frac{1}{10}$ c. c., Mohr's shape.....	2
Pipette, serological, 25 c. c.....	6
Pipette, volume or transfer, 10 c. c. with bulb in middle of tube.....	6
Pipette box, 2½ inches diameter by 12 inches high.....	1
Slides, micro.....	do
Test tube, 150 by 16 mm., heavy wall without lip, for cultures.....	72
Test tube, 150 by 16 mm., thin wall with lip, for chemical work.....	72
Rubber stopper, No. 5, for color comparison tube.....	24
Test tube, 75 by 10 mm., medium thick wall, without lip, to be used for Dunham fermentation method inside of 100 by 12 mm. tubes.....	60
*Vials, 2 dram, with spoon for forwarding specimens of feces.....	12
Loeffler's blood serum, medium, in culture tubes.....	12
Bile medium, in 16 c. c. wide mouth glass stoppered bottle.....	12
Human blood serum, types II and III, in 15 c. c. glass stoppered bottle, for grouping donors and recipients in blood transfusion, of each type.....	1
Acid, acetic, S. M., 99-5 per cent, 120 c. c. in bottle.....	1
Acid, hydrochloric, S. M., 120 c. c. in bottle.....	1
Acid, sulphuric, S. M., 120 c. c. in bottle.....	1
Acid, tannic, U. S. P., 10 gms. in bottle.....	1
Alcohol, ethyl, U. S. P., 1,500 c. c. in tin.....	1
Alcohol, ethyl, absolute, S. M., 250 c. c. in bottle.....	2
Alcohol, ethyl, denatured, 3,000 c. c. in tin.....	2
Alcohol, methyl, S. M., 250 c. c. in bottle.....	2
Ammonium hydroxide, 28 per cent NH ₃ , S. M., 30 c. c. in bottle.....	1
Ammonium sulphate, special, purity for nitrogen standard, 10 gms. in vial.....	1
Aniline, S. M., water white for microscopic use, 1 ounce in bottle.....	1
Balsam, Canada, in Xylol, 1 ounce in bottle.....	1
Bismark, brown, pure, 10 gms. in vial.....	1
Cedarwood oil (immersion) 1 ounce in bottle.....	1
Copper sulphate, U. S. P., crystals, 120 gms. in bottle.....	1
Ferric chloride, S. M., sublimed anhydrous, 10 gms. in vial.....	1
Formaldehyde solution, 40 per cent, U. S. P., special for preparing colloidal gold solution, 1 pound in bottle.....	1
Fuchsin, basic, U. S. P., reagent, 10 gms. in vial.....	1
Gentian violet, commercial grade for methyl violet, 10 gms. in vial.....	1
Glycerin, U. S. P., 250 c. c. in bottle.....	1
Guaiaac (resin), U. S. P., 30 gms. in bottle.....	1
Hydrogen peroxide solution, U. S. P., 120 c. c. in bottle.....	1
Iodine, U. S. P., crystals, 30 gms. in bottle.....	1

	Number.
Litmus paper, blue, sensitive neutral, 100 strips in vial.....	vials.. 8
Litmus paper, red, sensitive neutral, 100 strips in vial.....	do... 2
Mercuric chloride, S. M., $\frac{1}{4}$ pound in bottle.....	bottles.. 1
Methyl orange, S. M., 10 gms. in vial.....	vials.. 1
Methylene blue, S. M. bacteriologic, 10 gms. in vial.....	do... 2
Orthotolidine, recrystallized, 10 grs. in vial.....	do... 1
Petrolatum, U. S. P., 30 gms. in jar.....	jars... 1
Phenol, U. S. P., crystals, 120 gms. in bottle.....	bottles.. 1
Phenolphthalein, U. S. P., 10 gms. in vial.....	vials.. 1
Potassium dichromate, S. M. 120 gms. in bottle.....	bottles.. 1
Potassium hydroxide, S. M., pure by baryta, 30 gms. in bottle.....	do... 1
Potassium iodide, U. S. P., 30 gms. in bottle.....	do... 1
Procaine, N. N. R., 50-milligram hypodermic tablet, 20 in tube.....	tubes.. 1
Safranin, water soluble, 10 gms. in vial.....	vials.. 1
Silver nitrate, U. S. P., crystals, 1 ounce in bottle.....	bottles.. 1
Sodium carbonate, S. M., anhydrous, $\frac{1}{4}$ pound in bottle.....	do... 1
Sodium chloride, S. M., 1 pound in bottle.....	do... 1
Sodium citrate, U. S. P., crystals, 1 pound in bottle.....	do... 1
Sodium hydroxide, S. M., 94 per cent, 120 gms. in bottle.....	do... 1
Sodium nitroferrocyanide, S. M., 10 gms. in vial.....	vials.. 1
Sodium sulphate, S. M., crystals, 30 gms., in bottle.....	bottles.. 1
Wright's stain powder, 0.2 gm. in ampule.....	ampules.. 6
Xylene, U. S. P., reagent, $\frac{1}{4}$ pound in bottle.....	bottles.. 1

(b) Chest No. 2, clinical pathology "B" (apparatus).

Balance, laboratory weights for, 1 milligram to 100 gms. larger pieces of lacquered brass and fractionals of aluminum.....	sets... 1
Balance, prescription, brass on wooden base, for portable laboratories each..	1
*Block, wood, 1 $\frac{1}{2}$ by 1 $\frac{1}{2}$ by 8 inches, with 2 holes for staining rack.....	do... 2
Blood lancet, automatic.....	do... 2
Brush, test tube, length 9 inches, bristles part 3 by 1 $\frac{1}{2}$ inches.....	do... 6
Buckets, galvanized iron, square, for portable laboratories only.....	sets... 1
Burner, alcohol, bunsen type, with reservoir and metallic tubing.....	each.. 1
Case, post-mortem (par. 924, M. M. D.).....	do... 1
Catheter, posterior, urethral silver, to fit standard Luer syringe.....	do... 1
Costotome, heavy.....	do... 1
Director, grooved, 5 $\frac{1}{2}$ inches, plated.....	do... 1
Director, probe pointed, 5 inches, silver, Arnott.....	do... 1
Enterotome.....	do... 1
Forceps, bone cutting, straight, 8 $\frac{1}{2}$ -inch, screw-lock, Liston.....	do... 1
Forceps, dressing, straight, 10-inch, without catch, screw-lock.....	do... 2
Forceps, hemostatic, Jones, 5-inch, straight, with 1 $\frac{1}{2}$ -inch jaw, screw-lock each.....	2
Forceps, tissue, 5-inch, post-mortem, Stone.....	each.. 1
Forceps, tissue, spring, 6-inch, mouse-toothed, 1 by 2 extra heavy.....	do... 1
Gouge, bone, post-mortem, Andrew.....	do... 1
Knife, amputating, 6-inch blade.....	do... 1
Knife, amputating, 6 $\frac{1}{2}$ -inch blade.....	do... 1
Knife, cartilage, 5-inch, all steel blade and handle, post-mortem.....	do... 2
Needle, post-mortem, Berbecker & Rowland.....	do... 1
Probe, 8-inch, straight, with eye, silver or plated.....	do... 2
Rachiotome.....	do... 1

	Number.
Saw, amputating, 8-inch, Satterlee.....	each.. 1
Saw, rachiotomy, with double blade and guide handle, adjustable.....	do.... 1
Scissors, double blunt, 6½-inch, straight, screw-lock.....	do.... 1
Sound, steel, 18F nickeled, Otis short beak.....	do.... 1
Sound, steel, 22F nickeled, Otis short beak.....	do.... 1
Sound, steel, 30F nickeled, Otis short beak.....	do.... 1
Tenaculum, uterine, steel, curved and right angle.....	do.... 1
Thread, linen, No. 25, unbleached, 200 yards on spool.....	spools.. 2
Centrifuge, hand, single speed complete, two-arm head, with two aluminum shields and one each plain and graduated 15 c. c. glass tubes.....	each.. 1
Centrifuge tube, graduated, 15 c. c.....	do.... 4
Centrifuge tube, ungraduated, 15 c. c.....	do.... 12
Clamp, adjustable, for burettes, etc.....	do.... 2
Clamp, universal, extension, 8 inches long, for use with clamp holder, or clamp holder, adjustable.....	each.. 1
Clamp holder, iron, for supports, with rod up to ½ inch diameter.....	do.... 1
Counter chamber, Levy, with Fuchs-Rosenthal ruling with 2 cover glasses.....	each.. 1
File triangular, 4-inch.....	do.... 2
Forceps, cover glass, Novy, 115 mm. long with flat lower blade and curved pointed upper blade.....	each.. 3
Forceps tissue, 5-inch, post-mortem, Stone.....	do.... 2
Glass rod, 10 mm. diameter by 300 mm. long for staining rack.....	do.... 2
Gloves, autopsy, rubber.....	pairs.. 1
Gloves, medium, size 8½, rubber.....	do.... 2
Hemocytometer, complete, American standard, with Levy counting chamber with double Zappert-Neubauer ruling diluting pipettes for both red and white corpuscles, and coverslips.....	each.. 2
Hemocytometer, coverslip for, 20 by 25 mm.....	do.... 4
Hemocytometer, red corpuscle pipette for.....	do.... 3
Hemocytometer, white corpuscle pipette for.....	do.... 6
Hemoglobinometer, Talqvist scale.....	do.... 1
Irrigator, w. c., 2-quart, seamless, half round.....	do.... 1
Knife, operating, 1½-inch blade.....	do.... 2
Lamp, alcohol, Capitol, No. 21, S. S. W. type.....	do.... 1
Lamp, alcohol, wicks for.....	do.... 6
Microscope, dark field apparatus for, portable type, consisting of hemispherical condenser, funnel stop, miniature substage, electric lamp, with 6 extra bulbs and hand generator, complete in case.....	each.. 1
Microscope, folding, in metal case, with side fine adjustment, Abbe condenser, iris diaphragm, triple nose piece, objectives 16 mm., 4 mm., and 1.8 mm., oculars 6X and 10X, with immersion oil and mechanical stage.....	each.. 1
Needle, spinal puncture, O'Brien.....	do.... 2
Needle holder, Kolle form, to take platinum or nichrome wire from No. 22 to 26, B. & S. gauge.....	each.. 3
Oil, lubricating, in 3-ounce patent oil can.....	do.... 1
Ring support, 2½ inches outside diameter with screw clamp.....	do.... 2
Ring support, 4½ inches outside diameter with screw clamp.....	do.... 2
Rubber bulb, 5 c. c. for use on dropping pipettes.....	do.... 12
Rubber bulb, 1½ inches diameter by 3½ inches long, for large pipettes, etc.....	each.. 2

	Number.
Rubber tubing, for staining basin..... feet..	3
Rubber tubing, 3 mm. inside diameter, 1 mm. wall, pure gum, for hema- cytometer..... feet..	3
Spatula, 3-inch..... each..	1
Sponge, large bath, for autopsy work..... do....	2
Staining basin, rectangular, copper..... do....	12
Sterilizer, collapsible, 9 $\frac{1}{2}$ by 3 $\frac{1}{2}$ inches, with spirit lamp..... do....	1
Support stands, 5 $\frac{1}{2}$ by 9 inch base, 24-inch rod, for burettes, etc..... do....	2
Syringe, Luer, 2 c. c. graduated to $\frac{1}{10}$ c. c..... do....	2
Syringe, Luer, 10 c. c. graduated to $\frac{1}{2}$ c. c..... do....	2
Tongue depressor, wood..... gross..	1
Urinometer, Squibb..... each..	1
Wire, unenameled iron, 18 gauge, cut in 10-inch lengths, flattened at one end for swabs..... feet..	80
Wire, gauze, 15 by 150 mm., tinned iron wire, with asbestos center. each..	2
Wire, platinum, No. 24, B. & S. gauge, weight approximately 1.33 gm. per foot..... feet..	$\frac{1}{2}$

(c) *Chest No. 3, clinical pathology "C" (stationary and miscellaneous).*

Cork borer, hard brass, 12 in set..... sets..	1
Q Corkscrew..... each..	1
Q Hammer, claw..... do....	1
Labels, $\frac{1}{2}$ by 1 $\frac{1}{2}$ inches, white with red border, gummed, 75 in box... boxes..	2
Q Monkey wrench, 5-inch..... each..	1
Q Nails, screw hooks, screw eyes and tacks, assorted..... boxes..	1
Q Oil stone, 3 inches long, for sharpening needles..... each..	1
Paper, filter, qualitative, 100 mm. diameter, American, white... packages..	1
Paper, filter, soft, lintless, for blotting micro slides, in sheets 20 by 20 inches..... sheets..	24
Paper, lens, Japanese, in package of 100 sheets..... packages..	3
Q Paper, wrapping, brown..... quires..	2
Pencil, wax, blue, for writing on glass..... each..	3
Pencil, wax, red, for writing on glass..... do....	3
Plaster, adhesive, 2 $\frac{1}{2}$ inches by 5 yards on spool. zinc oxide..... spools..	2
Q Pliers, steel, flat nose and cutting device, 6-inch..... each..	1
Q Saw, hand, small..... do....	1
Screw driver, combination tool, M. D. model..... do....	1
Shears, laboratory, with short stout blades for cutting sheet metal... do....	1
Q Soap, ivory..... cakes..	2
Q Tags, cardboard, white, 1 $\frac{1}{2}$ by 1 inch with cord..... each..	100
Q Tags, shipping..... do....	100
Q Tape measure, steel, metric, 2 meters long..... do....	1
Q Twine, fine and coarse, of each..... balls..	1
Towels, dish..... dozen..	1
Q Typewriter, Corona, in case with one extra ribbon..... each..	1
Blank forms, Medical Department:	
No. 35, requisition, special..... do....	50
No. 55q, clinical record, report on Wassermann test..... do....	200
No. 55u, clinical record, miscellaneous report..... do....	3, 000
No. 95, report of bacteriological examination of water..... do....	200
No. 97, Wassermann card..... do....	100
Q Bands, elastic, assorted..... gross..	6

	Number.
Q Books, blank, crown (cap) 250 pages..... each..	1
Book, note, manifolding, binder for, 4 by 6 inches..... do....	2
Book, note, manifolding, filler for, 4 by 6 inches..... do....	6
Q Envelopes, official, letter..... do....	500
Q Ink, black, powder or tablets..... boxes..	1
Q Paper, blotting..... sheets.....	6
Q Paper, carbon, letter, 100 sheets in box..... boxes..	1
Q Paper, manifolding, letter, 500 sheets in package..... packages..	2
Q Paper, typewriting, letter, 500 sheets in package..... do....	1
Q Paper, writing, note, 100 sheets in pad..... pads..	6
Q Pencils, lead..... dozen..	1
Q Penholders..... each.....	3
Q Pens, steel, assorted..... dozen..	2
Q Stamp, penalty, rubber, with pad..... each..	1
Clinical laboratory diagnosis, a standard book on..... copies..	1
Laboratory methods, United States Army..... do....	1

(d) *Chest No. 4, bacteriology "A" (incubator).*

Basket, 4 by 5 inches, 5½ inches high, galvanized wire, for culture tubes..... each..	12
Incubator, oil-heated, complete with lamp, incubator space 16 by 16 by 16 inches, United States Army model..... each..	1
Test tube, 120 by 16 mm., heavy wall, without lip, for cultures..... do....	432
Thermometer, incubator, 0° to 50° C., with 37½° point indicated by red line length 250 mm..... each..	2

(e) *Chest No. 5, bacteriology "B" (autoclave).*

Autoclave, aluminum, pressure cooker type, space 10 by 12 inches..... each..	1
Burner, kerosene, Khotal, with stand and grid top, 8½ inches diameter..... do....	1
Condenser, Liebig type, separate condensing tube and metal jacket, 400 mm. long..... each..	1
Cotton, absorbent, 1 pound in roll..... rolls..	4
Rubber tubing for condenser, Liebig type..... yards..	2

(f) *Chest No. 6, bacteriology "C" (hot-air sterilizer).*

Basket, 4 by 5 by 5½ inches high, galvanized wire, for culture tubes..... each..	12
Burner, kerosene, Khotal, with stand and grid top, 8½ inches diameter..... do....	1
Cotton batting, 1 pound in roll..... rolls..	6
Q Matches, safety..... boxes..	24
Sterilizer, hot air, 12 inches high, 18 inches wide, 9 inches deep, inside dimensions, new United States Army, M. D..... each..	1
Test tube 150 by 16 mm., heavy wall, without lip, for cultures..... do....	432
Thermometer, chemical, 0° to 200°, graduated to 1°..... do....	2
Cork, No. 10, perforated for thermometer, to fit sterilizer..... do....	2

(g) *Chest No. 7, bacteriology "D" (fuel).*

Alcohol, ethyl, denatured, 5 gallons in tin..... tins..	1
Q Mineral oil (kerosene) in 5-gallon, screw cap, g. i. can..... cans..	1

(h) *Chest No. 8, bacteriology "E" (apparatus).*

Burner, alcohol, Bunsen type, with reservoir and metallic tubing..... each..	2
Carrier, copper, water jacketed for transporting plate cultures..... do....	1
Clamp, Hoffman, ½-inch, with open jaw, for rubber tubing..... do....	2

	Number.
Clamp, Mohr's pinchcock, spring wire, length 2½ inches, for rubber tubing, each.....	6
Forceps, hemostatic, Halstead, Army, straight, 5½-inch, screw-lock... each..	2
Gasometer scale, celluloid, for reading percentage of gas..... do....	1
Magnifier, hand, triple aplanat, 10X, in folding nickel-plated pocket case, each.....	1
Needle holder, Kolle form, to take platinum or nichrome wire from No. 22 to 26, B. & S. gauge..... each..	6
Pipette, serological, 1 c. c. graduated to $\frac{1}{10}$ c. c. to tip..... do....	50
Pipette, serological, 10 c. c. graduated to $\frac{1}{10}$ c. c., Mohr's shape..... do....	12
Pipette, box, 2½ inches diameter by 16 inches high..... do....	4
Sternberg field outfit, complete..... do....	1
Syringe, Luer, 1 c. c. graduated in $\frac{1}{10}$ c. c., tuberculin, Luer, for intradermic injections..... each..	2
Syringe, Luer, 10 c. c. graduated to $\frac{1}{2}$ c. c..... do....	3
Syringe, Luer, 20 c. c. graduated to 1 c. c..... do....	3
Syringe, needle, canula, $\frac{3}{4}$ inch long, No. 25, B. & S. gauge..... do....	12
Syringe, needle, canula, 1½ inches long, No. 19, B. & S. gauge..... do....	12
Syringe, needle, canula, 2½ inches long, No. 17, B. & S. gauge..... do....	12
Thermometer, chemical, 0° to 100° C., graduated to 1°..... do....	2
Thermometer, chemical, 0° to 200° C., graduated to 1°..... do....	1
Tripod, iron, 8 inches outside diameter of ring, height 9 inches..... do....	1
Trocar, horse, large reversible, with 5-inch canula, Ball type..... do....	1
Water bath, serological, 37½°, 1920 field model, oil-heated, with lamp, thermo-regulator and capsule, to maintain a temperature of 37½° C., eight copper test tube racks and paraffin bath..... each..	1
Water bath, serological, 56° same as above except fitted to maintain a temperature of 56°..... each..	1
Q Wire, copper, 20 gauge, $\frac{1}{2}$ pound on spool..... spools..	1
Q *Wire, iron, heavy, 10-inch lengths, flattened at one end, for swabs..... feet..	160
Wire, platinum, No. 26, B. & S. gauge, weight approximately 0.75 gms. per foot..... feet..	1½
Bacteriology, a standard book on..... copies..	1

(i) Chest No. 9, bacteriology "F" (reagents).

Bottle, dropping, TK, 50 c. c..... each..	6
Centrifuge, hand, high speed..... do....	1
Gauze, plain 5 yards in roll..... rolls..	4
Glass beads, hollow, 5 to 6 mm. long by 4 to 5 mm. diameter..... pounds..	½
*Glass rods, 6 by 250 mm. for making spreaders..... do....	1
Muslin, unbleached..... yards..	5
Mortar and pestle, 10 cm., glass..... each..	1
Paper, filter, folded, 480 mm. diameter, 100 filters in package, for filtering agar..... packages..	1
Paper, filter, soft, lintless, for blotting micro slides, in sheets 20 by 20 inches, sheets.....	24
Paper, lens, Japanese, in package of 100 sheets..... packages..	1
Q Pins, common..... papers..	1
Pins, safety..... dozen..	6
Rubber tubing, American pure gum, 6 mm. inside diameter, 1.6 mm. wall..... feet..	12
Tongue depressor, wood..... gross..	3

	Number.
Tubing apparatus, for media, consisting of one funnel, 1,000 c. c., w. e., 1 meter rubber tubing, 18 mm. diameter, 1 clamp, Mohr's type, and 1 medicine dropper, straight, for glass tip.....each..	1
Vial, serum, 10 c. c., amber, with rubber stopper.....do....	12
Preventive Medicine and Hygiene, a standard book on.....copies..	1
Acid pyrogallic, U. S. P., resublimed, 1-ounce in friction top tin.... tins..	4
Agar-agar, S. M., 1 pound in carton.....cartons..	2
Alcohol, ethyl, U. S. P., 3 pints in tin.....tins..	1
Alcohol, ethyl, absolute, S. M., 99.46 per cent, 250 c.c. in bottle.... bottles..	2
Alcohol, methyl, S. M., 250 c. c. in bottle.....do....	1
Beef extract, special for culture media, $\frac{1}{4}$ pound in jar.....jars..	2
Bile, prepared for culture media, 250 gm. in bottle.....bottles..	2
Calcium carbonate (calcite), S. M., 120 gm. in bottle.....do....	1
Dextrose, U. S. P., anhydrous, $\frac{1}{4}$ pound in bottle.....do....	2
Dipotassium phosphate, C. P., granular, 120 gm. in bottle.....do....	1
Eosin, pure, water soluble, 10 gm. in vial.....vials..	1
Fuchsin, acid, U. S. P., reagent, for Andrade indicator, 10 gm. in vial. do....	2
Fuchsin, basic, U. S. P., reagent, 10 gm. in vial.....do....	2
Gentian violet, commercial grade, for methyl violet, 10 gm. in vial. do....	2
Gelatin, U. S. P., sheets for culture media, 120 gm. in carton.....cartons..	4
Hydrogen-ion standards, for titration of culture media.....sets..	1
Inulin, 10 gm. in vial.....vials..	1
Lactose, pure, powder, 250 gm. in bottle.....bottles..	1
Lead acetate, S. M., granular, 10 gm. in bottle.....do....	1
Litmus, S. M., powder, 1 ounce in bottle.....do....	2
Mannite, $\frac{1}{4}$ pound in bottle.....do....	1
Methyl red, standard of Krauch, 0.1 gm. in vial.....vials..	1
Methylene blue, S. M., bacteriologic, 10 gm. in vial.....do....	1
Neutral red, pure, 10-gm. in vial.....do....	1
Paraffin, hard, melting point 52° to 55°, 1 pound in cake.....cakes..	1
Peptone, U. S. P., reagent, $\frac{1}{4}$ pound in bottle.....bottles..	4
Petrolatum, liquid, U. S. P., heavy, 1 pound in bottle.....do....	1
Safranine, M. D. S., water soluble, 10 gm. in vial.....vials..	1
Salicin, 10 gm. in vial.....do....	1
Sodium chloride, S. M., 500 gm. in bottle.....bottles..	1
Sodium citrate, U. S. P., crystals, 1 pound in bottle.....do....	1
Sodium hydroxide, S. M., 94 per cent, 120 gm. in bottle.....do....	2
Sodium nitrate, S. M., crystals, 10 gm. in vial.....vials..	1
Sodium sulphate, S. M., crystals, 30 gm. in bottle.....bottles..	4
Starch, soluble, pure, $\frac{1}{4}$ pound in bottle.....do....	2
Thionin, pure, 10 gm. in vial.....vials..	1
Vanillin, refined, U. S. P., 1 ounce in bottle.....bottles..	1
Wright's stain powder, 0.2 gm. in ampule.....ampules..	6
**Bacillus diphtheria toxin, for Schick tests, 35 tests in package.....	10
**Sera, agglutinating, in 5 c. c. rubber stoppered ampule, as follows:	
B. typhosus.....ampules..	1
B. paratyphosus A.....do....	1
B. paratyphosus B.....do....	1
B. dysenteriae, Shiga.....do....	1
B. dysenteriae, Flexner.....do....	1
B. dysenteriae, Hiss-Russell.....do....	1
B. dysenteriae, polyvalent.....do....	1
Vibrio Cholerae.....do....	1

Sera, agglutinating, etc.—Continued.

	Number.
Meningococcus, normal.....ampules..	1
Meningococcus, para.....do....	1
Meningococcus, polyvalent.....do....	1
Micrococcus melitensis.....do....	1
Pneumococcus, Group I.....do....	1
Pneumococcus, Group II.....do....	1
Pneumococcus, Group III.....do....	2

(k) Chest No. 10, bacteriology "G" (glassware).

Bottle, water sample, 350 c. c. with automatic stopper.....each..	34
Centrifuge tube, graduated, 15 c. c., glass, will fit all centrifuge metal tubes, each.....	24
Centrifuge tube, ungraduated, 15 c. c., glass, will fit all centrifuge metal tubes.....each..	12
Cover glasses, 22 mm. square, No. 1 glass, $\frac{1}{2}$ ounce in box.....boxes..	4
Dish, Petri, 100 by 15 mm., glass fitted in pairs.....each..	150
*Glass tubing, 6 mm. outside diameter, soft, with stout walls.....pounds..	3
Pipette, volume or transfer, 50 c. c., with bulb in middle of tube.....each..	2
Rubber stopper, No. 5, for bottle, w. m., 120 c. c.....do....	24
Slides, micro, 75 by 25 mm., 50 in carton.....cartons..	10
Slides, micro, 75 by 25 mm., with one spherical concavity.....each..	12
Test tube, 75 by 10 mm., medium thick wall, without lip, to be used for Dunham fermentation method inside of 100 by 12 mm. tubes.....each..	50
Test tube, 100 by 12 mm., medium thick wall, without lip, to be used for Dunham fermentation method, generally used as Wassermann tube.....each..	300
Test tube, 200 by 27 mm., heavy wall, without lip, for cultures, for use in Buchner's method for the cultivation of anaerobes.....each..	74

(l) Chest No. 19 (laboratory table).

Table, laboratory, 90 by 24 inches, with folding legs.....each..	2
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NOTE 6.—Veterinary Company:

(a) Drugs, chemicals, and reagents.

Alcohol, ethyl, denatured, 1 quart in c. s. bottle.....bottles..	8
Cocaine hydrochloride, U. S. P., 130 milligram hypodermic tablet, 10 in tube, tubes.....	2
Ethyl chloride, U. S. P., 3-ounce metal tubes.....tubes..	6
Iodine swabs, 6 in box, M. D. S.....boxes..	10
Lead acetate compound, compressed tablet, 10 in cardboard tube...tubes..	10
Mercuric oxide ointment (yellow oxide), 2 per cent, $\frac{1}{4}$ ounce in compressible tube.....tubes..	2
Morphine sulphate, U. S. P., 130 milligram, hypodermic tablet, veterinary, 10 in tube.....tubes..	2
Nitroglycerin, U. S. P., 6.5 milligram, tablet, 10 in tube.....do....	2
Potassium nitrate, U. S. P., 4-gram compressed tablet, 100 in c. s. bottle, bottles.....	1
Potassium permanganate, U. S. P., 324 milligram, tablet, 500 in c. s. bottle, bottles.....	1
Rubefacient liniment tablet, 250 in c. s. bottle (par. 902, M. M. D.).....bottles..	1
* Sodium bicarbonate, U. S. P., 1-lb. in bottle.....bottles..	100
Zinc oxide ointment, U. S. P., 1 pound in jar.....jars..	1

* Issued only in time of war for treatment of gassed cases.

(b) Surgical dressings.

	Number.
Bandages, cotton flannel, 5 yards by 3 inches.....dozen..	2
Bandages, muslin, 3 inches by 5 yards.....do.....	5
Bandages, muslin, 4 inches by 5 yards, cut on bias.....do.....	1
Bandages, muslin, 5 inches by 5 yards, cut on bias.....do.....	1
Bandages, muslin, 6 inches by 5 yards, cut on bias.....do.....	1
Cotton batting, 1 pound in roll.....pounds..	5
Gauze, plain, 5 yards in roll.....yards.....	10
Gauze, plain, sterilized, 2 half-yard lengths in package.....packages..	25
Oakum, 2 ounces in package, surgical, compressed.....do.....	25
Plaster, adhesive, 2½ inches by 5 yards on spool, zinc oxide.....spools..	5

(c) Surgical instruments and appliances.

Speculum, eye, large.....each.....	1
Sutures, linen, No. 16, 2 ounces on spool.....spools..	1
Sutures, linen, No. 20, 2 ounces on spool.....do.....	1
Sutures, linen tape, merzon, in skein.....skeins..	5
Sutures, silk, 3 sizes in package, sizes 4, 7, and 10, 18-inch lengths, packages.....	10
Sutures, silk, heavy twisted, size 13.....spools..	1
Sutures, silk, heavy twisted, size 14.....do.....	1
Sutures, silk, size 13, braided in spool.....do.....	1
Sutures, silk, size 14, braided in spool.....do.....	1
Sutures, silk, size 15, braided in spool.....do.....	1
Sutures, tape, sterilized, 18 inches, 2 pieces in package.....packages..	10
Syringe, ear, 60 c. c., all metal, with metal shield, issued with one extra dose nozzle for veterinary use, Pomeroy.....each..	6

(d) Hospital furniture and equipment.

Applicator, wooden, in box.....boxes..	1
Boiler, instrument, 20 by 8 by 6 inches.....each..	1
Brush, hand, fiber, M. D. S.....do.....	6
Capsule, ¼-ounce, No. 11, gelatin.....do.....	50
Capsule, 1-ounce, No. 10, gelatin.....do.....	50
Disinfectant, hand-spray, knapsack type.....do.....	4
Graduate, w. e., 500 c. c., M. D. S.....do.....	2
Irrigator, w. e., 2-quart, seamless, half-round.....do.....	2
Labels for vials.....do.....	100
Labels, poison, assorted.....do.....	50
Lamp, alcohol, Capitol, No. 21, S. S. W. type.....do.....	2
Lamp, alcohol, wicks for.....do.....	2
Medicine dropper.....do.....	12
Mortar and pestle, 7 cm., porcelain.....do.....	1
Pad, prescription.....do.....	5
Pencil, hair, 1 dozen in vial, M. D. S.....vials..	1
Pill tile, 4-inch, metal.....each.....	1
Spatula, 6-inch.....do.....	1
Sprinkler, powder, h. r.....do.....	4
Vial, 1-ounce.....do.....	1
Vial, 2-ounce.....do.....	1

(e) *Veterinary appliances and veterinary hospital supplies.*

	Number.
Balling iron, standard pattern.....	each.. 1
Box, surgical dressings, veterinary.....	do... 4
Case, foot, veterinary, in canvas roll.....	do... 1
Case, mallein test.....	do... 1
Case, meat and dairy inspection.....	do... 1
Case, post-mortem, veterinary, in canvas roll.....	do... 1
Case, stomach and rectal, veterinary, in canvas roll.....	do... 1
Catheter, mare, metal.....	do... 1
Chest, clipping.....	do... 1
Chest, field, veterinary officer's.....	do... 4
Chest, medical and surgical, veterinary.....	do... 8
Chest, restraint, veterinary.....	do... 1
Comb, curry, "Reform".....	do... 5
Comb, mane, rubber.....	do... 2
Gun, balling.....	do... 1
Knife, hoof, set of 3 blades and iron handle in canvas roll.....	sets.. 2
Leading apparatus, complete.....	do... 4
Needles, surgical, cutting points, Ferguson, assorted, sizes 1, 2, 3 and 4 packages.....	1
Needles, surgical, taper points, Ferguson, assorted, sizes 1, 2, 3 and 4 packages.....	1
Needles, surgical, 6 in paraffined envelope.....	packages.. 1
Rubbers, stable, linen.....	each.. 5
Tags, diagnosis, veterinary.....	books.. 10
Tube, trachea, self-retaining, 1-inch diameter, plain.....	each.. 2

(f) *Field equipment and supplies.*

Chairs, folding, M. D. S.....	each.. 4
Corkscrew, folding.....	do... 1

(g) *Miscellaneous supplies and equipment.*

(Additional to Tables II and III—Tables of basic allowances.)

Q Axe, short handle.....	each.. 4
Q Bags, feed.....	do... 12
Q Brooms, corn.....	do... 2
Q Brooms, stable.....	do... 6
Q Brushes, Dandy.....	do... 10
Q Brush, horse.....	do... 24
Q Buckets, canvas folding.....	do... 24
Q Buckets, galvanized iron.....	do... 5
* CWS masks, gas, horse.....	each.. 100
Q Lantern, candle, folding.....	do... 18
Q Carborundum wheel, with fixtures.....	do... 1
Q Comb, curry.....	do... 24
M Desk, field regimental (par. 940), M. M. D., contents special for veterinary service).....	each.. 1
Q Flash lights, with bulb and battery, complete.....	do... 10
Q Flash light, batteries for.....	do... 20
Q Flash light, lamps for.....	do... 20

* Issued in time of war only.

	Number.
Q Forks, stable.....	each.. 6
Q Halter and tie rope.....	do... 50
Q Lantern, complete with globe and wicks.....	do... 3
Q Leather, harness, black.....	pounds.. 30
Q Nails, assorted.....	do... 75
Q Nails, horseshoe.....	do... 20
Q Needles, harness, assorted, papers.....	each.. 7
Q Oil, sperm.....	pints.. 1
Q Paulin, large.....	each.. 1
Q Pickaxes, with helves.....	do... 4
Q Rakes, steel.....	do... 2
Q Razors, safety.....	do... 2
Q Razor, safety, blades for.....	do... 24
Q Rivets and burrs, copper, assorted.....	pounds.. 3
Q Rope, picket line, 1 inch.....	feet... 400
Q Rope, 3/4-inch, cotton.....	do... 300
Q Shoes, horse and mule, extra:	
Horses.....	pounds.. 30
Mules.....	do... 15
Q Spades.....	each.. 4
Q Stencil outfit.....	do... 1
Q Tentage, heavy:	
Canvas, latrine screen.....	do... 1
Fly, wall tent, large, with ropes.....	do... 1
Tent pins, small, extra.....	do... 12
Q Thread, saddler's assorted.....	pounds.. 4
Q Tools, carpenter's and wheelwright's set and kit.....	each.. 1
Q Twine, coarse.....	pounds.. 1
Q Typewriter, record ribbon for.....	each.. 2
Q Wax, saddler's.....	pounds.. 4
Q Wire cutters.....	each.. 2

[110335 A.G.O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
*General of the Armies,
 Chief of Staff.*

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR
No. 290.

WAR DEPARTMENT,
WASHINGTON, November 7, 1921.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR CAVALRY, TABLE IV-B—
SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921—RESCIS-
SION OF CIRCULAR NO. 134, WAR DEPARTMENT, 1920.**

Circular No. 134, War Department, 1920, is rescinded and the following table with notes substituted therefor. This table with notes prescribes the basic allowances of equipment special for organizations of Cavalry up to and including brigade, in addition to the equipment authorized in Circular No. 169, War Department, 1921 (Tables of basic allowances). Abbreviations for use in this circular are authorized as follows:

Cavalry brigade.....	Brig
Cavalry regiment.....	Regt
Cavalry squadron (including Cavalry training squadron)....	Sq
Cavalry machine-gun squadron.....	MG Sq
Cavalry brigade headquarters troop.....	Brig Hq Tr
Cavalry regimental headquarters troop.....	Regt Hq Tr
Both the brigade and regimental headquarters troop.....	Hq Tr
Cavalry service troop.....	Serv Tr
Cavalry troop (including Cavalry training center troop and special troop).....	Tr
Cavalry machine-gun troop (including Cavalry separate machine-gun troop).....	MG Tr
Machine gun.....	MG
Machine rifle (automatic rifle).....	MR
Sergeant.....	Sgt
Training center.....	TC
Platoon.....	Plat

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921.

<p>SECTION I. Armament. II. Engineer equipment. III. Fire-control equipment. IV. Machine-gun equipment. V. Miscellaneous equipment. VI. Signaling equipment.</p>	<p>SECTION VII. Transportation equipment: Animal. Pack. Vehicle. VIII. Notes.</p>
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SECTION I.—ARMAMENT.

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks.
O	Ammunition.....			<p><i>For training purposes.</i></p> <p>For annual allowances of cartridges, rifle, cal. .30 (ball, tracer, armor-piercing, blank, range dummy, dummy, and gallery practice), shotgun, sporting type, and pistol cal. .45 (ball, blank, and range dummy) for training purposes see Special Regulations. Until cartridges, blank cal. .45 are available for issue, cartridges, blank cal. .38 will be issued in lieu thereof at an annual allowance of 1,000 rounds per Tr and MG Tr.</p>

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION I.—ARMAMENT—Continued.

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks.
O	Ammunition (contd.).....			<i>For combat.</i>
	Cartridges, ball cal. .30.....	(a)		<p>Ammunition for combat is carried on the person or horse, in combat wagons, and in the ammunition train. Allowances for this purpose are indicated below. Ammunition is issued to individuals only when ordered by CO.</p> <p><i>a On person or pack horse.</i></p> <p>90 per EM armed with a rifle; 600 per MR (carried by gunner, asst gunner and carrier). (Where cartridges, tracer and armor-piercing are issued, deduct an equal number of cartridges, ball, from the above allowance.) 1,000 per MR and 4,875 per MG carried on pack horses.</p> <p><i>In combat train.</i></p> <p>110 per rifle (60 rounds loaded in Cav bandoleer), 2,360 per MR and 5,525 per MG (includes 22½ loaded belts) for all units equipped with combat wagons.</p> <p><i>In ammunition train.</i></p> <p>60 per rifle, 1,200 per MR, and 6,000 per MG.</p>
	Tracer (red and white), cal. .30.....	(a)		<p><i>a On person or pack horse.</i></p> <p>40 per scout, 40 per Plat in Tr (carried by Plat Sgt), 120 per rifle squad (carried by squad leader, squad scout and alternate), 5 per gunner MR and 50 per MG (carried on pack horse).</p> <p><i>In combat train.</i></p> <p>10 per rifle, 20 per MR, and 100 per MG.</p> <p><i>In ammunition train.</i></p> <p>5 per rifle, 10 per MR, and 100 per MG.</p>
	Armor piercing, cal. .30.....	(a)		<p><i>a On person or pack horse.</i></p> <p>20 per MR (carried by gunner and asst gunner) and 200 per MG (carried on pack horse).</p> <p><i>In combat train.</i></p> <p>20 per MR and 400 per MG.</p> <p><i>In ammunition train.</i></p> <p>10 per MR and 400 per MG.</p>
	Pistol, cal. .45.....	(a)		<p><i>a On person.</i></p> <p>21 per pistol.</p> <p><i>In combat train.</i></p> <p>21 per pistol.</p>

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION I.—ARMAMENT—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks.
				<i>In ammunition train.</i>
O	Bolo.....	(a)	.....	a 21 per pistol.
O	Guns, machine, Browning.....	(a)	.....	a 2 per MG Squad.
O	Pistols:			a 1 per MG Squad.
	Automatic, cal. .45.....	(a)	.....	a 1 per O, WO, and EM.
	Very, 25-mm.....	(a)	.....	a 2 per Plat in Tr, 2 per MG in Tr, and 2 per Hq Tr. (Until available for issue Very pistols, 10 gauge, will be issued.)
O	Pyrotechnics.....	(a)	.....	a As ordered and directed by CO.
O	Revolvers, cal. .38.....	(a)	.....	a 8 per Tr, Hq Tr, Serv Tr, and MG Tr (Issued only until device for firing blank ammunition with pistol cal. .45 is available for issue.)
O	Rifles:			
	Caliber .30.....	(a)	.....	a 1 to each EM except the following: NCO of grades 1 to 3 incl., buglers (all grades), cooks, 3 men for each MR (gunner, asst gunner, and carrier), bandsman. In Brig Hq Tr the following EM are also excepted: Sgts (message center and radio sections), clerks (troop Hq and message center section), and Pvts, Misc (Troop Hq). In MG units only the following EM are armed with rifles: Sgts (mess and supply), Corporals (Troop clerk), messengers, orderlies, scouts, 5 Pvts per MG Squad (horse leaders), motorcyclists, Pvt Misc (Tr Hq), and all EM of communication and transportation sections of Squadron Hq, and wagoners.
O	Machine (Browning automatic rifle).	(a)	.....	a 2 per MR Squad. (Browning automatic rifle issued until machine rifles are available.)
O	Star gauged (fitted for musketry telescopic sight).	(a)	.....	a 4 per Tr.
O	Sabers, Cavalry.....	(a)	.....	a 1 to each O, WO, and to each EM, except the following: Buglers (all grades), cooks, wagoners, chauffeurs, motorcyclists, all of MR Plat, all of radio, wire, pioneer, and demolition, and radio and panel sections, and Pvts Misc Sq Hq. In TC units except also mess Sgt, horseshoer, saddler, and EM of MR and MG Plat. In Serv Tr no EM carry sabers, except those of personnel and supply sections, 1st Sgt and orderly (Troop Hq). In MG units no EM carry sabers except staff Sgts and supply Sgts.
O	Shotguns, riot type.....		(b)	b 12 per Regt issued only when directed by department or corps area commander.

SECTION II.—ENGINEERING EQUIPMENT.

E	Demolition outfit.....	(a)	.....	a Issued to Regt Hq Tr at rate of 1 per Squadron. Supplies to be kept on hand at all times as far as possible in the quantities indicated. (See note 1.)
E	Drafting equipment, company....	(a)	.....	a 1 per Hq Tr normally issued to intelligence sections. (See note 2.)

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION II.—ENGINEERING EQUIPMENT—Continued.

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks.
E	Glass, reading, 4½-inch, with case..	(a)	.....	a 1 per Hq Tr Sq and MG Sq.
E	Entrenching equipment, set.....	(a)	.....	a 1 per Regt. NOTE.—When Regt is attached to and serving with a division, the entrenching tool wagon and contents will be transferred to the CO of the Engineer battalion of the division. When the battalion is permanently detached from the division, the entrenching tool wagon will be returned to the Regt. (See note 3.)
E	Pioneer outfit.....	(a)	.....	a Issued to Regt Hq Tr at rate of 2 per Squadron. (See note 4.)
E	Sketching equipment.....	(a)	.....	a 1 per Hq Tr, Sq, and Tr. (See note 5.)

SECTION III.—FIRE CONTROL EQUIPMENT.

O	Alidade protractor.....	(a)	.....	a 1 per MG Sq, MG Tr, and MG Plat. To TC units at the rate of 1 per MG.
O	Angle of site instrument, with case.	(a)	.....	a 1 per MG Tr, and MG Plat. To TC units at rate of 1 per MG.
O	Boxes, night-firing, or night-firing device.	(a)	.....	a 1 per MG.
O	Clinometer, machine gun, with case.	(a)	.....	a 1 per MG.
O	Compass, lensatic, with case.....	(a)	.....	a 1 per MG Sq, and MG Tr. To TC units at rate of 1 per MG.
O	Protractor, semicircular, Model 1918.	(a)	.....	a 1 per MG Sq, MG Tr, and MG Plat. To TC units at rate of 1 per MG.
O	Range finder, 80-cm. base, with case and tripods.	(a)	.....	a 1 per Sq and MG Tr.
O	Rules:			
	Musketry.....	(a)	.....	a 1 per NCO in Tr and MG Tr not issued field glasses.
	Zinc.....	(a)	.....	a 1 per MG Sq, MG Tr, and MG Plat. To TC units at rate of 1 per MG.
O	Sights:			
	Front area, antiaircraft machine rifle.	(a)	.....	a 1 per 2 MR.
	Front area, antiaircraft machine gun.	(a)	.....	a 1 per 2 MG.
	Luminous, front and rear machine gun.	(a)	.....	a 1 per MG.
	Machine gun, panoramic, complete.	(a)	.....	a 1 per MG Tr, TC Special Troop, and MG.
	Musketry, telescopic, with case.	(a)	.....	a 4 per Tr.
O	Squares, zinc.....	(i)	.....	a 1 per MG Sq, MG Tr, and MG Plat. To TC units at rate of 1 per MG.
O	Stakes, aiming.....	(a)	.....	a 1 per MG.
AO	Tables of fire for Browning machine gun.	(a)	.....	a 1 per MG, 2 per MG Sq and 1 per officer in MG Tr and MG Plat TC units.
O	Tables, plane, 40-cm. square with declinator attached and tripod.	(a)	.....	a 1 per MG Sq, MG Tr and MG Plat. To TC units at rate of 1 per MG.

SECTION IV.—MACHINE-GUN EQUIPMENT.

O	Barrels, spare, for Browning machine gun.	(a)	.....	a 1 per MG.
O	Belts, ammunition, 250 rounds....	(a)	.....	a 43 per MG.
	Belt, filling machine, with box and spare parts.	(a)	.....	a 2 per MG Plat (1 in reserve, normally carried on combat wagon, but may be carried by platoons when detached). Each box carries 12 extra needles.

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.**SECTION IV.—MACHINE-GUN EQUIPMENT—Continued.**

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks.
O	Boxes:			
	Ammunition.....	(a)	.....	a 1 per ammunition belt, 250 rounds.
	Spare parts.....	(a)	.....	a 1 per MG. (See note 6.)
	Water.....	(a)	.....	a 4 per MG.
O	Cases, spare parts, or gunners pouch.	(a)	.....	a 1 per MG. (See note 7.)
O	Covers:			
	Canvas, machine gun.....	(a)	.....	a 1 per MG.
	Canvas, spare barrel.....	(a)	.....	a 1 per spare barrel.
O	Devices, steam condensing.....	(a)	.....	a 1 per MG.
O	Devices for firing blank ammuni- tion.	(a)	.....	a 1 per MG.
O	Flash hider.....	(a)	.....	a 1 per MG.
O	Gun Book, machine gun.....	(a)	.....	a 1 per MG.
AG	Handbook, machine gun.....	(a)	.....	a 1 per MG.
O	Hanger:			
	Ammunition for machine gun.....	(a)	.....	a 4 per MG when available for issue.
	Machine gun.....	(a)	.....	a 1 per MG when available for issue.
	Tripod.....	(a)	.....	a 1 per tripod when available for issue.
O	Mittens, asbestos, pair.....	(a)	.....	a 1 per MG.
O	Pick mattocks, large.....	(a)	.....	a 1 per MG.
O	Rods, cleaning for Browning ma- chine gun.....	(a)	.....	a 1 per MG.
O	Shovels, short handled.....	(a)	.....	a 1 per MG.
O	Tripods, gun, M 1918.....	(a)	.....	a 1 per MG.

SECTION V.—MISCELLANEOUS EQUIPMENT.

Q	Bags, feed.....	(a)	.....	a 1 per pack horse, and extra draft mule.
Q	Bags, water, canvas, pair.....	(a)	.....	a 1 per Hq Tr, Serv Tr, Tr, and MG Tr.
Q	Bandoleers, Cavalry.....	(a)	.....	a 1 per EM armed with the rifle, in Regt except Serv Tr and in MG Tr in Squadron. Normally carried in combat wagons and issued to troops when separated from them or when engagement is pending.
O	Belt, magazine for machine rifle- man.....	(a)	.....	a 3 per MR (for gunner, asst gunner and carrier).
Q	Blades, machine clipping extra (upper and lower).....	.....	(b)	b 12 upper and 12 lower per clipping ma- chine.
Q	Bodies, picket pin, M 1910 with eyes.....	(a)	.....	a 2 per field picket line and 1 per every 100 feet of length of line or major fraction thereof.
Q	Bridle, halter M 1910.....	(a)	.....	a 1 per pack horse.
Q	Brushes, white wash.....	.....	(b)	b 1 per 25 animals or major fraction thereof.
Q	Buckets, watering, canvas.....	(a)	.....	a 1 per 8 riding or pack animals or major fraction thereof.
Q	Cans, galvanized iron.....	(a)	.....	a 4 per Hq Tr, Serv Tr, Tr, and MG Tr (2 large and 2 small carried nested in spring wagon).
Q	Cases:			
	Map or dispatch.....	(a)	.....	a 1 per Sgt (intelligence section) and duty Sgt.
	Record, noncommissioned officers.....	(a)	.....	a 1 per 1st Sgt, master Sgt, staff & supply Sgts of Sq and of MG SQ Hq and all Sgts except mess, stable, and supply of Brig Hq Tr.
Q	Container, saddle soap, size 2 ounce	(a)	.....	a 1 per mounted EM.
Q	Cooking outfit, pack type.....	(a)	.....	a 1 per Hq Tr, Tr, and MG Tr. (Until new type is available, cooking outfit, Mountain Artillery, will be issued in lieu thereof. (See note 8.)
Q	Covers, canvas, rigging.....	(a)	.....	a 1 per MG in equipment A and 1 per Tr for MR equipment.
O	Devices for firing blank ammuni- tion with machine rifle.....	(a)	.....	a 1 per MR (when available for issue).
O	Devices for firing blank ammuni- tion with pistol cal. 45.....	(a)	.....	a 1 per pistol cal. 45. (When available for issue.)

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION V.—MISCELLANEOUS EQUIPMENT—Continued.

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks.
O	Glasses, field, type EE.....	(a)	.....	a Issued in war to O, master Sgts (except Serv Tr), 1st Sgts (except Serv Tr), Sgts (intelligence, message center, radio, demolition and pioneer, and radio and panel sections), duty Sgts, and to scouts as follows: 1 per scout, in Brig Hq Tr and in MG Sq and 1 per 2 scouts in Regt Hq Tr and in Sq. Issued in peace to 1st Sgts in Tr and in MG Tr, Sgts (intelligence, message center, radio, pioneer and demolition, and radio and panel sections), 1 per Plat in Tr and in MG Tr and to scouts at rate of 1 per 2 scouts or fraction thereof in Hq Tr and in Sq and to MG Sq at rate of 1 per scout.
Q	Halters, complete.....	(a)	.....	a 1 per pack horse and extra draft mule.
Q	Hammers, sledge.....	(a)	.....	a 1 per field picket line.
Q	Hanger, ammunition for machine rifle.....	(a)	.....	a 1 per MR when available for issue.
O	Hanger, machine rifle.....	(a)	.....	a 1 per MR when available for issue.
O	Holster, pistol, Very.....	(a)	.....	a 1 per Very pistol.
Q	Lariat, with stimp.....	(a)	.....	a 1 per KM mounted on horse.
Q	Machine, clipping.....	(a)	.....	a 1 per Hq Tr, Serv Tr, Tr, and MG Tr.
Q	Machines, sharpening for clipping blades.....	.....	(b)	b 1 per Serv Tr, MG Sq, and TC Sq.
O	Magazines, extra pistol.....	(a)	.....	a 2 per pistol.
O	Magazines, for machine rifle.....	(a)	.....	a 80 per MR.
Q	Padlocks, with keys, hasp and chain.....	(a)	.....	a 2 per Hq Tr, Tr, MG Tr, and 4 per Serv Tr.
Q	Rope: Picket line, field, feet.....	(a)	.....	a Issued at the rate of 2½ feet per animal.
	Picket line, 1½-inch or cable with necessary posts.....	.....	(b)	b As directed by CO.
	Tie, halter, extra.....	(a)	.....	a 1 per 8 animals or major fraction thereof.
	Tie, halter, white.....	.....	(b)	b 1 per animal for ceremonies. (Only one issued for officers' mounts, none for extra mules.)
Q	Sacks, supply (Nos. 1 and 2).....	(a)	.....	a 1 each of No. 1 and No. 2 per Hq Tr, Serv Tr, Tr, and MG Tr (for leather and saddlers supplies).
Q	Saddlers supplies.....	(a)	.....	a See note 9.
Q	Saddle, McClellan (extra).....	(a)	.....	a 1 per officers' second mount.
AG	Scorebook (Soldiers' Handbook of the Rifle).....	(a)	.....	a 1 per O, WO, and EM per year firing range rifle practice.
Q	Shovels, scoop.....	.....	(b)	b 1 per Hq Tr, Serv Tr, Sq Tr, MG Sq, and MG Tr.
Q	Sponges, 4-inch.....	(a)	.....	a 1 per mounted EM.
Q	Tanks, water, canvas, M 1912.....	(a)	.....	a 1 per Hq Tr, Tr, MG Tr, and MG Sq, and 2 per Serv Tr.
Q	Tape, metallic, 50-foot.....	(a)	.....	a 1 per Hq Tr, Serv Tr, Tr, and MG Tr.
O	Telescope, observation, triple power (French), complete with tripod.....	(a)	.....	a 2 per Brig Hq Tr and 3 per Regt Hq Tr.

SECTION VI.—SIGNALING EQUIPMENT.

S	Bags, tool, service.....	(a)	.....	a 1 per Hq Tr, and MG Sq for use with telephone detail. (See note 10.)
S	Batteries: Type BA-1.....	(a)	.....	a 2 per operators: monocoord set, type 64; Universal test set, type EE-65; and telephone, type EE-4; and 4 per service buzzer. (Includes 1 spare for each, except buzzer which is 2).
	Type BA-2.....	(a)	.....	a 10 per SCR-127 set and SCR-130 set (all spare), 4 per Universal test set (2 spare).
	Type BA-9.....	(a)	.....	a 3 per telephone, type EE-5 (2 spare).
	Type BA-10.....	(a)	.....	a 4 per call bell (2 spare).

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION VI.—SIGNALING EQUIPMENT—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks.
SC	Bells, vibrating, 4-ohm.....	(a)	.....	a 2 per Hq Tr and 1 per MG Sq.
	Blank forms, delivery sheets.....	(a)	.....	a 500 per Hq Tr, and 200 per Sq, and MG Sq.
SC	Register sheets.....	(a)	.....	a 100 per Hq Tr, Sq, and MG Sq.
	Buttons, push.....	(a)	.....	a 1 per call bell.
SC	Buzzers, service.....	(a)	.....	a 6 per Brig Hq Tr, 4 per Regt Hq Tr (normally used as follows: 1 for communicating with brigade or division, 1 with squadrons, 1 for testing purposes and 1 spare), 2 per Sq.
	Cart, wire, complete, with harness and equipment.....	(a)	.....	a 1 per Brig Hq Tr. (See Transportation.)
S	Chosts, type BC-5.....	(a)	.....	a 2 per Hq Tr and 1 per MG Sq. for use with telephone and radio systems.
S	Cipher device.....	(a)	.....	a 2 per Brig Hq Tr, 3 per Regt (2 for Headquarters, 1 for train) 1 per Sq. and MG Sq.
S	Clips, Frankel, testing.....	(a)	.....	a 2 per telephone EE-5, 2 per Universa test set, 6 per SCR-127 set, and 12 per SCR-130 set.
S	Envelopes, field message.....	(a)	.....	a 500 per Hq Tr.
S	Fuses, monocord.....	(a)	.....	a 2 per telephone line (for switchboards).
S	Grips, buffalo, with pulleys complete, pairs.....	(a)	.....	a 1 per Hq Tr (for use of telephone detail).
S	Ground rods, type GP-16.....	(a)	.....	a 2 per switchboard.
S	Hydrometer, type HY-2.....	(a)	.....	a 1 per Brig Hq Tr.
S	Kits:			
	Inspectors' pocket.....	(a)	.....	a 1 per telephone switchboard, wire cart, SCR-127 set, and SCR-130 set. (See note 11.)
Q	Soldering, complete.....	(a)	.....	a 1 per Hq Tr. (See note 12.)
	Knives, brush cutting.....	(a)	.....	a 1 per SCR-127 set, SCR-130 set, and wire cart.
S	Lineman's equipment, type TE-21.....	(a)	.....	a 3 per Brig Hq Tr, 2 per Regt Hq Tr. (See note 13.)
S	Panels:			
	Cavalry.....	(a)	.....	a (See note 14.)
	Brigade set, type AP-27.....	(a)	.....	a 1 per Brig Hq Tr.
	Regimental set, type AP-28.....	(a)	.....	a 1 per Regt Hq Tr.
	Squadron set, type AP-29.....	(a)	.....	a 1 per Sq and MG Sq.
	Troop, set, type AP-30.....	(a)	.....	a 1 per Tr and MG Tr.
	Marking, type AL-97.....	(a)	.....	a 4 per Squad in Tr.
S	Pikes, wire.....	(a)	.....	a 3 per wire cart, 2 per Regt.
S	Reels, type RL-9.....	(a)	.....	a 3 per Brig Hq Tr, 1 per Regt Hq Tr, Sq, and MG Sq.
S	Sets:			
	Battery charging, type SCR-82.....	(a)	.....	a 1 per Brig Hq Tr. (See note 15 and note 23.)
	Low frequency amplifier type SCR-121.....	(a)	.....	a 1 per Brig Hq Tr. (See note 16 and note 23.)
	Monocord, operator's type EE-61.....	(a)	.....	a 1 per monocord switchboard.
	Radio, receiving, type SCR-54-A.....	(a)	.....	a 1 per Hq Tr. (See note 17 and note 23.)
	U. W. radiotelegraph, pack type SCR-127.....	(a)	.....	a 1 per Brig Hq Tr, 2 per Regt Hq Tr (1 for use of train), and 1 per Sq. (Until this set is available for issue, substitute SCR-49-A set.) (See note 18.)
	U. W. radiotelegraph, type SCR-130.....	(a)	.....	a 1 per Brig Hq Tr. (Until this set is available for issue, substitute SCR-79 set.) (See note 19 and note 23.)
Test, Universal, type EE-65.....	(a)	.....	a 2 per Brig Hq Tr and 1 per Regt Hq Tr. (When available for issue.)	
S	Signs, location.....	(a)	.....	a 1 per Hq Tr, Sq, and MG Sq.
S	Strips, terminal, 5 pair.....	(a)	.....	a 4 per Brig Hq Tr, 2 per Regt Hq Tr, and MG Sq.
S	Switchboard:			
	Monocord telephono 4 line, type BD-9.....	(a)	.....	a 1 per Brig Hq Tr, 2 per Regt Hq Tr, and 1 per MG Sq.
	Monocord telephono 12 line, type BD-11.....	(a)	.....	a 1 per Brig Hq Tr.

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION VI.—SIGNALING EQUIPMENT—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks.
B	Switchboard unit, monocoed tele- phone, type EE-2.	(a)	.....	a 1 per Hq Tr and MG Sq.
Q	Tape:			
	Friction, pounds.....	(a)	.....	a 6 per Brig Hq Tr, 4 per Regt Hq Tr, 2 per Sq and MG Sq, and 1 per MG Tr.
	Rubber, pounds.....	(a)	.....	a 3 per Brig Hq Tr, 2 per Regt Hq Tr, 1 per Sq and MG Sq.
B	Telephone:			
	Type EE-4.....	(a)	.....	a 5 per Brig Hq Tr.
	Type EE-5.....	(a)	.....	a 3 per Hq Tr, 1 per Sq, 2 per MG Sq, and 1 per MG Tr.
Q	Tent, wall, small, complete.....	(a)	.....	a 2 per Hq Tr (1 for message center and 1 for telephone exchange), 1 per Sq (for message center) and 1 per MG Sq for telephone exchange).
B	Trucks, radio, divisional, type SCR-124.	(a)	.....	a See Transportation.
B	Tubes:			
	Type VT-1.....	(a)	.....	a 5 per low frequency amplifier set and SCR-130 set.
	Type VT-2.....	(a)	.....	a 5 per SCR-127 set and SCR-130 set.
	Type VT-5.....	(a)	.....	a 5 per SCR-127 set.
B	Voltmeter, battery, 0-35 amperes, 0-11 volts.	(a)	.....	a 1 per Hq Tr, Sq, and MG Sq.
B	Wire:			
	Field, 11-strand, miles.....	(a)	.....	a 25 per Brig Hq Tr.
	Outpost, single.....	(a)	.....	a 15 miles per Regt Hq Tr, 2 miles per MG Sq, 1,000 feet per Sq and MG Tr.
	Outpost, twisted pair, miles....	(a)	.....	a 3 per Brig Hq Tr.

SECTION VII.—TRANSPORTATION.

	Animal.			
Q	Horses:			
	Draft.....	(a)	.....	a 2 per wire cart and 2 per spring wagon.
	Pack.....	(a)	.....	a 3 per Hq Tr, Tr, and MG Tr (for troop pack outfits, 1 per MR, 5 per MG in equipment A, 1 per Sq (1 extra for war strength), MG Sq (for signal sup- plies), pioneer outfit, and demolition outfit, and 3 per SCR-127 set.
	Riding.....	(a)	.....	a 2 per O, 1 per WO, and 1 per EM, except the following: Drivers of motor ve- hicles, wagon masters, asst wagon masters, wagoners, and operators (switchboard). In Serv Tr the fol- lowing EM are also excepted: Sgts (stable, mess, and supply), cobblers, cooks, mechanics, horseshoers, sad- dlers, and Pvts. (Misc). In Brig Hq Tr the following EM are also excepted: All in radio section and cor- porals and operators (wire section).
Q	Mules:			
	Draft.....	(a)	.....	a 4 per combat wagon, ration and baggage wagon, and forage and pioneer wagon; 10 extra per Regt; and 4 extra per MG Sq.
	Riding.....	(a)	.....	a The following EM of MG Sq Hq are mounted on mules: Horseshoers, Sgts (wagon master). The following EM of Serv Tr are mounted on mules: Sgts (mess, stable, supply, and wagon master), regimental cobbler, mechan- ics, Pvts (Misc, Troop Hq), horse- shoers, saddlers, and epls (asst wagon master).

TABLE IV-B.—Basic allowances of equipment special for Cavalry, in addition to the equipment authorized in Circular No. 169, War Department, 1921—Continued.

SECTION VII.—TRANSPORTATION—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks.
	Pack.			
Q	Packs, pannier.....	(a)	.....	a 1 per draft animal for combat wagons. (See note 20.)
Q	Pack, saddles.....	(a)	.....	a Until new type is available aparejos will be issued. (See note 21.)
				Troop packs. 3 per Hq Tr, Tr, and MG Tr (1 for picket line, 1 for rations, and 1 for cooking outfit). McClellan saddles may be used.
				Machine rifle. 1 per MR (for hanger equipment, see Section V, Miscellaneous Equipment). McClellan saddles may be used.
				Machine gun. 5 per MG (for hanger equipment, see Section IV, MG equipment).
				Signal supplies. 1 per Sq (1 extra for war strength) and MG Sq.
				SCR-127 set. 3 per SCR-127 set. (For hanger equipment, see note 18.)
				Demolition outfit. 1 per demolition outfit. (For hanger equipment, see note 1.)
				Pioneer outfit. 1 per pioneer outfit. (For hanger equipment, see note 4.)
Q	Vehicle:	*		
	Accessories, tools, etc., for vehicles.	(a)	.....	a For accessories, tools, spare parts, harness, etc., see note 30, Cir. No. 169, WD. 1921.
S	Cars, motor, 5-passenger.....	(a)	.....	a 1 per Brig and Regt.
	Cart, wire, complete with harness and equipment.	(a)	.....	a 1 per Brig. (See note 22.)
Q	Motor cycles with side-cars....	(a)	.....	a 3 per Brig Hq Tr, 4 per Regt Hq Tr, 1 per Sq, and 1 per MG Sq.
Q	Trucks:			
	Cargo 1½-T.....	(a)	.....	a 1 per Brig Hq Tr for signal equipment.
S	Radio, divisional.....	(a)	.....	a 1 per Brig Hq Tr. (See note 23.) Until til this truck is available for issue trucks 1½-ton cargo will be issued in lieu thereof.
Q	Wagons:			
	Combat, (escort), 4-mule...	(a)	.....	a 1 per Regt Hq Tr, 4 per Squadron in Regt, and 2 per MG Tr.
	Forage and pioneer, (escort) 4-mule.	(a)	.....	c 10 per Regt (9 for forage and blacksmith's supplies and 1 for pioneer supplies) and 4 per MG Sq.
	Ration and baggage (escort) 4-mule.	(a)	.....	a 2 per Hq Tr, 1 per Serv Tr, Sq, Tr, MG Sq, and MG Tr.
	Spring.....	(a)	.....	a 1 per Brig Hq Tr, 3 per Regt Hq Tr, 1 per Serv Tr, Sq, Tr, MG Sq, and MG Tr. Accessories and harness are the same as those authorized for spring wagon, complete, Model 1918.

SECTION VIII.—NOTES.

Note 1. Demolition outfit.

Equipment.	Supplies.
12 boxes, Cap, Cav.	12 bands, rubber $\frac{1}{4}$ in. by 2 in., oz.
12 boxes, metal, with leather case.	168 caps, detonating, petryl, nonelectric.
2 boxes, pack, demolition Cav.	75 explosive, TNT, rectangular, pounds.
1 cincha, pack, Eng.	440 fuze, Bickford, feet.
12 crimpers.	168 lighters, fuze, Bickford.
1 saddle, pack, Engineer (hanger equipment).	

Note 2. Drafting equipment, Company, Engineer.

Equipment.	Supplies.
1 board, drawing, 23 by 31 inches, with trestle.	3 books, record, I. P., No. 103, with fillers.
1 chest drafting, company, Engineer.	1 cloth, tracing, 30-inch, 24-yard roll.
1 eraser, steel.	Erasers:
1 instrument, drawing, office set.	2 rubber, pencil.
1 measurer, map.	1 rubber, ink.
1 protractor, G. S. semicircular, 6-inch.	6 fillers, book, I. P., No. 103, sets of 50 sheets.
Scales:	Ink:
1 architect's, 12-inch, with sheath.	2 drawing, black, bottles.
1 engineer's, 12-inch, with sheath.	1 drawing, blue, bottles.
1 map, metric, 30 cm.	1 drawing, carmine, bottles.
1 shield, erasing.	1 India, stick.
1 slab, ink.	Pads:
1 T square, 24 inches.	1 pencil pointing, $1\frac{1}{4}$ by 4 inches.
Triangles:	2 scratch, 6 by 9 inches.
1 30-60°, 10-inch.	Paper:
1 45°, 8-inch.	1 blotting, $3\frac{1}{2}$ by $9\frac{1}{4}$ inches, dozen.
3 tubes, tin.	1 drawing, 22 by 30 inches, gross.
	1 profile, tracing, 20 inches, 50-yard roll.
	Pencils:
	6 drawing, H.
	6 drawing, 3H.
	6 drawing, 5H.
	Pens:
	1 crow-quill, dozen, with holder.
	1 drawing, Gillott, assorted, gross.
	1 mapping, dozen, with holder.
	1 pins, cone.
	2 tacks, thumb, gross.
	2 tape, adhesive, rolls.
	1 twine, hemp, 2-cunce ball.

Note 3. Intrenching equipment.

Equipment.	Supplies.
13 axes, handled, 36-inch.	Handles:
2 bars, pinch, large.	2 ax, 36-inch.
Boxes:	6 pick-mattock, large.
1 ax.	Nails:
1 saw, crosscut, one-man, 36-inch.	1 wire, 10d, keg.
1 tool grinder, etc.	1 wire, spikes, 40d, keg.
Files:	500 sand bags, with binders.
1 crosscut saw, blunt, 8-inch.	3,000 tape, tracing, feet.
3 taper, saw, 6-inch.	
1 grinder, tool.	
1 maul, wood, handled.	
65 pick-mattock, large, handled.	
Saws:	
6 crosscut, hand; 26-inch.	
7 crosscut, one-man, 36-inch; with supplemental handles.	
1 set, saw.	
130 shovels, D-handled, round point.	
1 tape, metallic, 50-foot.	
1 tool, crosscut saw.	

Note 4. Pioneer outfits.

Equipment.	Supplies.
2 axes, 36-inch, handled.	1 hammer, sledge, 8-pound, handled.
2 boxes, pack.	4 pick-mattock, ED mining.
1 cincha, pack engineer.	1 saddle, pack, engineer (hanger equipment).
1 drill, stone, single bit, 1 by 18 inches (1½-inch bit).	1 saw, hand, crosscut, 26-inch.
	6 shovels, ED mining.

Note 5. Sketching outfit.

Equipment.	Supplies.
1 alidade, boxwood.	12 celluloid sheets, 12½ by 13½ inches.
1 board, sketching, with W. P. covers.	4 erasers, rubber, pencil.
1 chest, sketching outfit.	¼ paper, sketching, gross.
1 clinometer, service, illuminated dial, with case.	Pencils:
1 compass, prismatic.	4 blue.
1 pace tally.	16 drawing, H.
1 strap, writ.	4 green.
1 tripod, wood, folding.	4 red.
	4 protectors, pencil point.
	3 tape, adhesive, rolls.

Note 6. Boxes, spare parts and contents, for Browning machine gun, M. 1917, cal. .30, water-cooled.

SPARE PARTS BOX.**CONTAINS:**

- 1 barrel extension (assembled complete).
- 1 bolt (assembled complete).
- 1 filling cup.
- 1 chamber cleansing brush.
- 1 oil can.
- 1 tool roll (with contents).
- 1 spare parts roll (with contents).
- 1 W. D. Document No. 856.

SPARE PARTS ROLL.**CONTAINS:**

- 2 spare parts envelopes (with contents).
- 1 extractor (assembled complete).
- 1 accelerator.
- 1 spare parts tin (with contents).
- 1 belt feed lever.
- 1 belt feed slide (assembled complete).
- 1 trigger.
- 1 firing pin (assembled complete).
- 1 barrel plunger spring.
- 1 cover extractor spring.
- 3 yards asbestos packing.
- 1 driving spring.

SPARE PARTS TIN.**CONTAINS:**

- 2 firing pin spring pins.
- 1 ejector.
- 2 ejector pins.
- 2 extractor cam plunger pins. } Identical.
- 1 belt holding pawl spring.

SPARE PARTS TIN—continued.**CONTAINS—continued:**

- 1 trigger pin.
- 1 trigger pin spring.
- 12 locking springs for pins.
 - (a) Breech lock pin.
 - (b) Accelerator pin.
 - (c) Belt feed pawl pin.

FIRST SPARE PARTS ENVELOPE.**CONTAINS:**

- 1 water plug (assembled).
- 1 water plug and cork (assembled).
- 2 buffer disks.
- 1 bolt handle.

SECOND SPARE PARTS ENVELOPE.**CONTAINS:**

- 3 sear springs (assembled).
- 1 breech lock pin (assembled).
- 1 accelerator pin (assembled). } Identical.
- 1 sear.
- 1 belt feed lever pivot (assembled).
- 2 barrel locking springs.
- 1 belt holding pawl split pin.

TOOL ROLL.**CONTAINS:**

- 1 combination tool.
- 1 ruptured cartridge extractor, Mk III.
- 3 drifts (small, medium, large).
- 1 pair pliers (side cutting).

Note 7. Spare parts case or gunner's pouch.

Such articles as may be required are taken from the spare parts box and carried in this pouch.

Note 8. Cooking outfit, Mountain Artillery.

- 2 grates or fire jacks.
- 4 locking bars.
- 2 pans, bake, top.
- 2 pans, bake, bottom.
- 2 boilers and covers, MA-3.
- 2 boilers and covers, MA-4.
- 1 boiler and cover, MA-5.
- 2 buckets.
- 1 can, grease.
- 4 dippers, 2 quart.
- 1 cleaver.
- 1 fork, flesh.

- 1 kettle, stewing, and cover.
- 2 knives, butcher.
- 4 knives, paring.
- 1 saw, meat.
- 1 skimmer, large.
- 1 skillet.
- 1 handle, extension, for skillet.
- 2 spoons, large.
- 1 steel, butcher.
- 1 sheath, leather, for cleaver.
- 1 sheath, leather, for butcher knives.
- 1 sheath, leather, for paring knives.

Note 9. Saddlers' supplies.

Only such articles are provided in this table as are considered necessary for emergency repairs.

Articles.	Estimated 6 months' consumption, which is one-half of the maximum stock authorized to be on hand.			Minimum stock. ¹ (When in garrison the stock should not be permitted to fall below the amount stated herein. These quantities are to be retained for use when ordered into the field.)		
	100 sets of riding equipment.	100 sets of double harness.	50 pack outfits.	100 sets of riding equipment.	100 sets of double harness.	50 pack outfits.
Leather:						
Bridle, backs.....	4			2		
Collar, backs.....	4			2		
Harness, black..... pounds.....		400			100	
Harness, fair..... do.....	115		100	20		20
Latigo, sides.....	2		2	1		1
Rivets and burs, brass, pounds:						
$\frac{3}{8}$ -inch, No. 12.....	1			$\frac{1}{2}$		
$\frac{3}{8}$ -inch, No. 10.....	2			1		
1-inch oval head.....	2			1		
Rivets and burs, copper, pounds:						
No. 8, $\frac{3}{8}$ -inch.....	2		2			1
No. 8, $\frac{1}{2}$ -inch.....		4			2	
No. 9, $\frac{1}{2}$ -inch.....		4			2	
No. 9, 1-inch.....		4			2	
No. 12, $\frac{1}{2}$ -inch.....		4			2	
Thread, pounds:						
Carpet, No. 18, olive drab.....	1			$\frac{1}{2}$		
Saddlers', No. 3, brown.....	1	5		$\frac{1}{2}$	3	
Saddlers', No. 10.....	1	5	3	$\frac{1}{2}$	3	1
Wax, saddlers'..... pounds.....	2	4	3	1	2	1

¹ To prevent deterioration, the articles held in reserve will be replaced from time to time by similar articles received from the estimated 6 months' allowance.

Supplies not listed above ordinarily used for repairs made in garrison, such as buckles, buttons, fasteners, hooks, etc., will be issued as directed by the commanding officer, and requisitions for the same will be based on the existing supply and allowance tables, together with a knowledge of local conditions.

Note 10. Bag tool service, complete.

The bag is made of canvas, approximate dimensions 17 inches long, 7 inches wide at the base, and 8 inches high; the bag was formerly made of leather 15 $\frac{1}{2}$ inches long, 3 $\frac{1}{4}$ inches wide, and 12 inches high.

Equipment.	Equipment.
1 try-square, steel, 4-inch blade.	1 screw driver, 10-inch.
1 chisel, cold, $\frac{1}{2}$ -inch.	1 solder, resin core, pound.
1 chisel, wood, $\frac{1}{4}$ -inch socket blade, iron ring-topped handle.	1 wrench, screw, forged 6-inch monkey wrench.
1 hammer, claw, 16-ounce.	1 wrench, socket, for telephone apparatus, 4-inch, drawing paragraph 2 (A).
1 handle with tools.	1 ratchet brace, 8-inch throw.
1 knife.	Auger bits:
1 level, pocket, spirit, 3-inch.	1 $\frac{1}{4}$ -inch.
1 plane, block, 6-inch.	1 $\frac{3}{8}$ -inch.
1 pliers, pair, 6-inch, side-cutting.	1 $\frac{1}{2}$ -inch.
1 pliers, pair, 8-inch, side-cutting.	1 $\frac{5}{8}$ -inch.
1 4-foot rule, folding, boxwood, 8 parts.	1 1-inch.
1 saw, back, 10-inch.	1 polarity indicator.
1 screw driver, 6-inch.	

Note 11. Kit, inspector's pocket.

1 case, carrying, inspector's pocket kit.	1 file, half-round bastard, with handle, 3-inch.
1 screw driver and skinning knife combined, with safety spring.	1 tweezers, 4½-inch, pair.
1 scissors, electrician's, 5-inch.	1 screw driver, 2-inch.
1 pliers, side-cutting, 5-inch.	1 rule, 2-foot, 4-fold, narrow boxwood.

Note 12. Kit, soldering, complete.

1 blow torch, pint size.	2 spools of resin core solder, 5 pounds each.
1 soldering copper, ½ pound, with handle.	1 oak containing case, 10½ by 8½ by 11 inches.
4 sheets of sandpaper No. 1.	

Note 13. Lineman's equipment, type TE-21.

1 ax, hand, lineman, 4-pound.	1 pliers, side-cutting, 8 inch.
1 belt, lineman, and safety straps.	1 screw driver, 10-inch blade.
1 clamp, splicing, combination, 10½-inch.	
1 pair or set of climbers, lineman, with straps and pads, eastern (not over 16½ inches).	

Note 14. Cavalry panels.

All panels are of light, portable, deep orange and white cotton cloth for aerial signal communication.

Article.	Cavalry Brig. set, type AP-27.	Cavalry Regt. set, type AP-28.	Cavalry Sq., type AP-29.	Cavalry Troop, type AP-30.
Case type CS-18.....	1	1	1	1
Panel type AL-82.....	1			
Panel type AL-83.....		1		
Panel type AL-84.....			1	
Panel type AL-85.....	1	1	1	1
Panel type AL-86.....	10	10	10	6

AL-82: Brig. identification. Superimposed circles, 8 feet in diameter and 12 feet in diameter.

AL-83: Regt. identification. Equilateral triangle, 12-foot sides.

AL-84: Sq. identification. Circle, 12-foot diameter.

AL-85: Cavalry distinguishing and Troop identification. A "Y" made from 3 panels, type AL-86.

AL-86: Code and distinguishing rectangle, 1½ by 8 feet.

AL-87: Marking panel square, 18-inch sides

14 as distinguishing panels.

Note 15. Battery charging set.

Two kilowatt, 25 and 125 volt battery-charging set, complete with engine, direct-connected generator, switchboard, and accessories. Comprises:

1 gasoline engine, type GE-2, four cycle, air cooled, 1,200 revolutions per minute, 3 horsepower, complete with coupling, gasoline tank, muffler, piping, etc.	1 panel, type BD-4, charging, bakelite dilecto, 24 by 18 by ½ inches.
1 generator, type GN-9, direct connected, 25 and 115 volts, 2,000 watts.	1 panel, type BD-5, charging, three circuit, bakelite dilecto, 24 by 18 by ½ inches.

Note 16. Low-frequency amplifier set, type SCR-121.

1 equipment, type PE-10:

3 batteries, type BB-14 (1 in use; 2 spare), storage, lead, 2 cells, 4 volts, 90 ampere-hour, 15 plates, $8\frac{1}{2}$ by $7\frac{1}{2}$ by $14\frac{1}{8}$ inches; weight, 37 pounds; celluloid or hard-rubber jar, nonspill design.

1 equipment, type RC-11:

1 set, box BC-44 (2-stage amplifier).
 2 cords, CD-40 (extension cords—6 feet of 2 cords, No. 16 B. & S. camp cord, with appropriate terminals and plugs).
 1 cord, CD-56 3-foot extension with clips and plug.
 2 head sets, type P-11 (1 in use; 1 spare).
 4 batteries, type BA-2 (2 in use; 2 spare).
 4 tubes, type VT-1 (2 in use; 2 spare).

Note 17. Radio receiving set, type SCR-54-A.

1 equipment, type RC-1-A (radio receiving):

1 set, box type, BC-14-A, for receiving damped or modulated wave signals; wave length range, 200 to 600 meters; wooden box $8\frac{1}{2}$ by $12\frac{1}{2}$ by $4\frac{1}{2}$ inches, with hinged waterproof cover $3\frac{1}{4}$ inches deep; bakelite operating panel; box contains primary and secondary tuned circuits inductively coupled, and each comprising adjustable inductance and capacitance; coupling adjustable; secondary may be made aperiodic, and it comprises crystal detector and double telephone jack; calibration chart furnished with the box. Contains the following parts:

1 strap, ST-5 (carrying).
 2 head sets, P-11 (telephone receivers).
 6 crystals, DC-1. Spare. (Detectors.)
 2 batteries, BA-4. 1 in use. 1 spare (1.5 volt primary cells).
 1 screw driver, TL-2 (4-inch, Stanley).
 30 feet wire, W-20 (7-strand, rubber covered and silk braid).
 2 contact springs, M-14. Spare. (For crystal detector.)

1 equipment, type A-2-A or A-2-B (antenna):

6 mast sections, type MS-5 (bamboo, 14 feet, iron tips).
 6 insulators, type IN-6 (bakelite).
 6 pins, type FT-3 (metal for mounting insulation).
 750 feet wire, type W-1 (7-strand, No. 22 soft-tinned copper, bare).
 75 feet wire, type W-4 (single-conductor, 26-strand, insulated).
 2 pounds wire, type W-2 (No. 14, bare, soft copper).
 1 mat, type MT-2 (ground, copper mesh, 9 feet by 1 foot 8 inches).
 14 stakes, type GP-3 (ground, angle iron, $2\frac{1}{2}$ feet long).
 8 insulators, type IN-5 (strain-hard rubber).
 6 couplers, type FT-2 (cast iron, for masts).
 150 feet rope, type RP-1 ($\frac{1}{8}$ -inch manila).
 4 reels, type RL-3 (hand, for antenna).
 1 pliers, type TL-20 (combination, 8-inch).
 $\frac{1}{4}$ -pound tape, type TL-83 (friction, $\frac{3}{4}$ -inch).
 2 coils, Marlin, type RP-2, 42-foot lengths (tarred, $\frac{1}{8}$ -inch).
 1 chest, type BC-26 (carrying, wooden, for carrying set).

For further information, see Radio Pamphlet No. 3.

Note 18. U. W. radio telegraph pack set, type SCR-127.

3 cincha, type ST-7.

Equipment, type A-1-A:

1 adapter, set of (4 pieces).

1 antenna, type AN-4, six 75-foot lengths.

2 bags, type BG-36.

1 bag, type BG-7.

2 connectors, type M-6.

1 cord, type CD-89.

1 counterpoise, type CP-3, six 90-foot lengths wire.

2 hammers, two-faced, 2-pound.

1 insulator, type IN-4, electrose.

1 mast cap, type MP-4, complete with 50 feet of antenna lead-in wire.

1 mast section, type MS-1.

12 mast sections, type MS-12.

1 mast section, type MS-3.

13 reels, type RL-3.

6 stake, type GP-2.

Equipment, type LE-1:

1 insulating device, type IN-13.

2 ropes, type RP-9 (guy rope).

14 pins, type FT-25 (tent pins).

1 tent, type TN-1.

Equipment, type PE-28:

1 dry battery for receiving circuit.

1 generator, type GN-29.

1 stand, type GS-1.

Equipment, type RE-21:

1 set, box, type BC-1 and accessory articles of tubes, head set, cords, etc.

3 frames, type M-1.

6 straps, type ST-8.

6 straps, with snap hooks at each end.

For further information, see Radio Communication Pamphlet No. 26.

Note 19. Set, U. W. radiotelegraph, type SCR-130.

- 9 batteries, type BB-14; lead, storage, 4 volt (3 in use, 6 spare).
- 1 case, type, BC-25-A; containing 1 dynamotor, type DM-1.
- 1 set box, type BC-7 (including the following parts):
 4 type VT-2.
 3 type VT-1.
 (Tubes VT-3 or VT-5 may be used with dry batteries.)
- 1 Instruction pamphlet.
- 1 box, type BC-102 (including following parts):
 Cords:
 1 type CD-91, 350-volt leads, dynamotor to set box.
 1 type CD-92, 12-volt leads, dynamotor to set box.
 1 type CD-88, three-conductor, set box to dry batteries.
 1 type CD-90, 12-volt leads, set box to storage batteries.
 3 type CD-38, connecting storage batteries in series (1 spare).
- Tubes:
 4 type VT-1 (spare).
 5 type VT-2 (spare).
- 4 batteries, type BA-8 (2 spare).
- 2 head sets, type P-11.
- 1 bag, type BG-6 (including following parts):
 1 mast cap, type MP-4, complete with 50 feet of antenna lead-in wire.
 1 antenna, type AN-4, six 75-foot lengths antenna cord, complete, with insulators and guy ropes.
 1 counter poise, type CP-3, six 90-foot lengths counterpoise wire.
 13 reels, type RL-3, 6 for antenna, 6 for counterpoise, 1 for antenna lead-in.
 1 cord, type CD-89, set box to counterpoise, block type, BL-2, on one end.
 2 connectors, type M-6 (spares for antenna wires).
 1 insulator, type IN-4, electrose, mast bottom.
 1 bag, type BG-6 (including the following parts):
 1 bag, type BG-7. Containing:
 2 hammers, type HM-1.
 6 stakes, type GP-2.
 1 tent, type TN-1 (with following parts rolled up inside):
 1 insulating device, for tent.
 14 pins, wood, for tent.
 2 ropes, tent guys.
 1 plug, for tent adapter.
 1 voltmeter, type I-10.
 1 pliers, type TL-19.
 1 screw driver, type TL-21.
 2 wire, type W-7, pounds.
 1 tape, friction, $\frac{3}{4}$ -inch, pound.
- Mast sections:
 1 type MS-1.
 12 type MS-2.
 1 type MS-3.
- 1 ridgepole extension piece, for tent adapter.
 2 tent pole extension pieces, with spiko in end, for tent adapter.
 4 legs for set box, type BC-7.
 6 straps, type ST-5, for bundling mast sections.

For further information, see Radio Communication Pamphlet No. 26.

Note 20. Pack, outfits, pannier.

Pack, outfits, pannier, consist of: Olive-drab cotton duck, 24 by 91.25 inches, narrow in the center and having a 4-inch ring fastened in chape at each end. A flap with one 2.375-inch and two 4-inch rings fastened in chapes is sewed to center of top side. Two side bars and side bar connection, equipped with two quarter straps, two quarter strap safes, two cincha straps, and a McClellan saddle cincha, are attached to bottom side and used with crupper, which is fastened to rear of body to hold pannier pack in place on animal's back.

Note 21. Pack saddles.

Until new pack saddles are available for issue this equipment will consist of:

1 blanket, pack.	| 1 corona.
1 blind, pack.	| 1 crupper.
1 body, aparejo.	| 1 sobrejolma.
1 cincha, aparejo.	

And where special hangers are not now available and included in the special equipment to be carried on pack horses, the following articles will also be issued:

2 covers, pack, or mantas.	| 1 rope, lash.
2 ropes, lair.	| 1 rope, sling.

Note 22. Cart, wire, type K-1.

A 2-wheel reel cart for the rapid laying and recovering of telephone and telegraph lines in the field. It is completely equipped with two reels, mechanically rotated and controlled, one chest with wire-laying equipment, a driver's seat, and appropriate parts and fittings especially designed for and used only on this cart; designed to carry 5 miles of standard field wire. Comprises the following detachable parts and tools:

1 cart, proper.	| 1 chain for tongue support.
1 axle, extra.	| 1 crank, reel.
2 bands, brake.	| 1 doubletree.
2 bearings, extra, for reel.	| 4 insulators, strain, electrose, for traces.
1 bucket, canvas, water.	| 2 pads, hand, leather.
1 can, oil, steel, pint size.	| 1 paulin.
1 canvas roll provided with the following tools:	| 2 singletrees.
1 chisel, cold, $\frac{1}{2}$ -inch.	| 1 tongue.
1 screw driver, 5-inch.	| 1 wheel, extra (issued to Organized Militia only).
1 screw driver, 10-inch.	Wrenches:
1 hammer, claw, 16-ounce.	1 wheel.
1 pliers, side-cutting, 8-inch.	1 socket, for axle bracket nuts.
Wrenches:	1 yoke, neck.
1 monkey, 8-inch.	
1 S, $\frac{1}{4}$ -inch and $\frac{3}{8}$ -inch flats.	
1 S, $\frac{1}{2}$ -inch and $\frac{3}{4}$ -inch flats.	
1 alligator, 9-inch.	

Harness, breast collar, for 2-horse Signal Corps wire cart. Comprises:

<p>2 backbands. 2 bellybands. 2 bits, snaffle, M 1911. 2 breeching, complete. 2 collars, breast, wheel, complete. Headstalls: 2 artillery, bridle, M 1913. 2 halter, M 1904. 2 martingales, with cincha strap, assembled.</p>	<p>2 rein checks. Reins: 2 long bearing. Long driving: 1 buckle parts. 1 plain parts. 2 short bearing. 2 ropes, halter, tie, M 1912. 2 spreaders. 4 traces, wheel, M 1908, 56.88-inch.</p>
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The following accessories will be issued by the Quartermaster Corps for each cart supplied to Cavalry units:

<p>2 bags, feed. 1 brush, horse. 1 currycomb. 3 pounds grease, axle.</p>	<p>½ gallon oil, neat's-foot. 1 cake soap, harness. 1 sponge, coarse.</p>
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Note 23. Truck, radio, divisional, type SCR-124.

Consists of a 1½-ton White chassis, pneumatic tires, on which is mounted a fully inclosed body containing one SCR-130, one SCR-121, one SCR-54-A, and one battery charging set (SCR-82).

[400.34, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR
No. 295.

WAR DEPARTMENT,
WASHINGTON, November 10, 1921.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR ENGINEER ORGANIZATIONS,
TABLE IV-D—SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT,
1921—RESCISSION OF CIRCULAR NO. 445, WAR DEPARTMENT, 1919.**

Circular No. 445, War Department, 1919, is rescinded and the following tables with notes substituted therefor. These tables with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribe the basic allowances of equipment special for Engineer organizations.

TABLE IV-D.

[Section I, individual equipment; Section II, armament; Section III, signal equipment; Section IV, engineering equipment; Section V, transportation.]

A.—Combat Engineer regiments.

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A	B	Remarks.
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
O	Glasses, field, Type EE.....	(a)	.....	a In ratio of 1 per officer.
E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8-inch.....	1	.....	For each corporal.
E	Rules, folding, 4-foot.....	1	.....	For master sergeants, technical sergeants, staff sergeants, and sergeants.
E	Tape, metallic, 50-foot.....	1	.....	For master sergeants and technical sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers, noncommissioned officers above grade of corporal, bugler, all grades, enlisted bandsmen, and cooks, except officers and enlisted men of medical detachment and chaplain.
O	Rifles.....	1	.....	For corporals, except buglers: privates, 1st cl., and privates, except buglers, cooks, bandsmen, and enlisted men of medical detachment.
O	Rifles, automatic, complete.....	(a)	.....	a 4 per lettered company.

SECTION III.—SIGNAL EQUIPMENT.

S	Telephone equipment.....	(a)	a 1 per Hq. & Serv. Co. (See Note 32.)
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A.—*Combat Engineer regiments*—Continued.

SECTION IV.—ENGINEERING EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
E	Blacksmith's tools, machine, set.....	(a)	.....	1 per lettered company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	1 per lettered company. (See Note 3.)
	Field, set.....	(a)	.....	2 per lettered company and Hq. & Serv. Co. (See Note 4.)
E	Demolition equipment:			
	Company reserve, set.....	(a)	.....	1 per lettered company. (See Note 5.)
	Field, set.....	(a)	.....	2 per lettered company. (See Note 6.)
E	Drafting equipment:			
	Company.....	(a)	.....	1 per lettered company. (See Note 7.)
	Regimental.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 8.)
E	Electric lighting set:			
	Portable.....	(a)	.....	1 per Hq. & Serv. Co., for lighting division headquarters. (See Note 9.)
E	Footbridge, Lampert, portable.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 12.)
E	Illuminating equipment.....	(a)	.....	1 per lettered company, 2 per Hq. & Serv. Co. (See Note 13.)
E	Intrenching equipment, Infantry..	(a)	.....	1 per Infantry battalion within division (in time of war) or 2 per Infantry regiment (in time of peace), assigned to Hq. & Serv. Co. (See Note 15.)
E	Map reproduction equipment:			
	Blue printing.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 16.)
	Cyclostyle.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 17.)
	Duplicator.....	(a)	.....	1 per lettered company and Hq. & Serv. Co. (See Note 18.)
	Lithographic.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 19.)
E	Office equipment:			
	Company.....	(a)	.....	1 per lettered company. (See Note 20.)
	Regimental.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 21.)
E	Pack equipment, engineer.....	(a)	.....	2 per Hq. & Serv. Co. (See Note 22.)
E	Photographic equipment:			
	Company.....	(a)	.....	1 per lettered company. (See Note 23.)
	Regimental.....	(a)	.....	1 per regiment (Hq. & Serv. Co.) (See Note 24.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	1 per lettered company. (See Note 25.)
	Field, set.....	(a)	.....	2 per lettered company. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	1 per lettered company and Hq. & Serv. Co. (See Note 27.)
E	Sign-painting equipment, set.....	(a)	.....	1 per lettered company, 3 per Hq. & Serv. Co. (See Note 28.)
E	Sketching outfits.....	(a)	.....	4 per lettered company, 6 per Hq. & Serv. Co. (See Note 29.)
E	Supplementary equipment.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 36.)
E	Surveying equipment.....	(a)	.....	1 per Hq. & Serv. Co. (See Note 30.)
E	Tinsmith's equipment.....	(a)	.....	1 per lettered company. (See Note 33.)
E	Water supply equipment.....	(a)	.....	1 per Hq. & Serv. Co., for establishing divisional watering points. (See Note 34.)

SECTION V.—TRANSPORTATION.

Q	Animals:			
	Horses, riding.....	(a)	.....	1 per officer, including attached officers; 1 additional per lettered company (for stable Sgt.); 40 additional per Hq. & Serv. Co. (See Tables of Organization for distribution.)
	Mules, draft.....	(a)	.....	4 per 4-mule wagon and rolling kitchen, 2 per 2-mulecart.
	Mules, pack.....	(a)	.....	16 per Hq. & Serv. Co.
	Mules, riding.....	(a)	.....	10 per Hq. & Serv. Co. (See Tables of Organization for distribution.)

A.—*Combat Engineer regiments—Continued.*

SECTION V.—TRANSPORTATION—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
O	Aparejo, complete with accessories	(a)	.....	a 1 per pack mule.
O	Block, automobile pull-u-.....	(a)	.....	a 1 per motor truck.
O	Bicycles.....	(a)	.....	a 2 per lettered company, 3 per Hq. & Serv. Co.
O	Car, motor, 5-passenger.....	(a)	.....	a 1 per Hq. & Serv. Co.
O	Carts, water, 2-mule.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Co.
O	Kitchens, rolling, 4-mule.....	(a)	.....	Do.
O	Motorcycles, with side car.....	(a)	.....	a 2 per lettered company, 4 per Hq. & Serv. Co., 1 per medical detachment.
Q	Trucks, cargo 1 ton.....	(a)	.....	a 2 per Hq. & Serv. Co. (tool and material delivery trucks); and 1 for medical detachment.
Q	Trucks, cargo 1½ ton.....	(a)	.....	a 18 per Hq. & Serv. Co.; (1 for Engineer equipment of each lettered company, 1 for electric lighting sets, 2 for footbridge, 1 for map reproduction equipment, 1 for regimental headquarters tools and equipment, 1 for ammunition and explosives, 2 for water supply equipment, 4 for supplementary equipment).
Q	Wagons, escort, 4-mule, R. & B.....	(a)	.....	a 1 per lettered company, 5 per Hq. & Serv. Co. (for rations, baggage, and forage).
Q	Wagons, escort, 4-mule, tool.....	(a)	.....	a 2 per lettered company (platoon tools); 8 per Hq. & Serv. Co. (peace strength) or 12 per Hq. & Serv. Co. (war strength) (for Infantry intrenching equipment). To be issued in lieu of limber and caisson wagons pending development of satisfactory type.

B.—*Mounted Engineer battalions.*

SECTION I.—INDIVIDUAL EQUIPMENT.

O	Glasses, field, Type EE.....	(a)	.....	a In ratio of 1 per officer.
E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8-inch.....	1	.....	For each corporal.
E	Rules, folding, 4-foot.....	1	.....	For master sergeants, technical sergeants, staff sergeants and sergeants.
E	Tape, metallic, 50 foot.....	1	.....	For master sergeants and technical sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Pistols.....	1	.....	For officers; non-commissioned officers above grade of corporal; bugler, all grades; enlisted bandsmen; and cooks; except officers and enlisted men of medical detachment and chaplain.
O	Rifles, with scabbards.....	1	.....	For corporals, except buglers; privates, 1st cl., and privates except buglers, cooks, and enlisted men of medical detachment.
O	Rifles, automatic, complete.....	(a)	.....	a 2 per lettered company.

B.—*Mounted Engineer battalions*—Continued.

SECTION III.—SIGNAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
s	None.			

SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith tools, machine, set . . .	(a)	.....	a 1 per lettered company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set	(a)	.....	a 1 per lettered company. (See Note 3.)
	Field, set	(a)	.....	a 1 per lettered company. (See Note 4.)
E	Demolition equipment:			
	Company reserve, set	(a)	.....	a 1 per lettered company. (See Note 5.)
	Field, set	(a)	.....	a 1 per lettered company. (See Note 6.)
E	Drafting equipment, regimental . . .	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 8.)
E	Electric lighting set, mounted troops	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 11.)
E	Illuminating equipment	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 13.)
E	Intranching equipment, Cavalry . . .	(a)	.....	a 1 per Cavalry regiment within division Assigned to Hq. & Serv. Plat. (See Note 14.)
E	Map reproduction equipment— blueprinting, cyclostyle, dupli- cator	(a)	.....	a 1 per Hq. & Serv. Plat. (See Notes 1 17, and 18.)
E	Office equipment:			
	Company	(a)	.....	a 1 per lettered company. (See Note 20.)
	Regimental	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 21.)
E	Pack equipment, Engineer	(a)	.....	a 1 per lettered company. (See Note 22.)
E	Photographic equipment:			
	Company	(a)	.....	a 1 per lettered company. (See Note 23.)
	Regimental	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 24.)
E	Pioneer equipment:			
	Company reserve, set	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 25.)
	Field, set	(a)	.....	a 1 per lettered company. (See Note 26.)
E	Pipe fitting tools, set	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 27.)
E	Sign painting equipment	(a)	.....	a 2 per Hq. & Serv. Plat. (See Note 28.)
E	Sketching outfits, complete	(a)	.....	a 4 per lettered company; 3 per Hq. & Serv. Plat. (See Note 29.)
E	Surveying equipment, mounted troops	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 31.)
E	Tinsmith equipment	(a)	.....	a 1 per lettered company. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Animals:			
	Horses, riding	(a)	.....	a 1 per officer, including attached officers; 1 per enlisted personnel, except chauffeurs, motor cycle drivers, and wagoners.
	Mules, draft	(a)	.....	a 4 per 4-mule wagon, 2 per 2-mule wagon.
	Mules, pack	(a)	.....	a 8 per lettered company.
Q	Aperajo, complete with accessories . .	(a)	.....	a 1 per pack mule.
Q	Car, motor, 5-passenger	(a)	.....	a 1 per Hq. & Serv. Plat.
Q	Motorcycles, with side cars	(a)	.....	a 2 per lettered company and Hq. & Serv. Plat.
Q	Wagons, escort, 4-mule, R. & B. . . .	(a)	.....	a 2 per lettered company, 3 per Hq. & Serv. Plat. (for rations, baggage, and forage).
Q	Wagons, escort, 4-mule, tool	(a)	.....	a 2 per lettered company (company tools); 7 per Hq. & Serv. Plat. (3 for Engineer equipment and supplies, 4 for intranching equipment). To be issued in lieu of lim- ber and caisson wagons pending develop- ment of satisfactory type.
Q	Wagons, medical, 4-mule	(a)	.....	a 1 per battalion (medical detachment).
Q	Wagons, spring, 2-mule	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat.

C.—*Engineer regiments (general service).*

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively per- manent nature.	Remarks.
E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8-inch.....	1	.....	For each corporal.
E	Rules, folding, 4-foot.....	1	.....	For master sergeants, technical sergeants, staff sergeants and sergeants.
E	Tape, 50-foot, metallic.....	1	.....	For master sergeants and technical ser- geants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers; non-commissioned officers above grade of corporal; buglers, all grades; enlisted bandmen; and cooks, except officers and enlisted men of medical detachment, and chaplains.
O	Rifles.....	1	.....	For corporals, except buglers; privates, 1st cl., and privates, except buglers, cooks, enlisted bandmen, and enlisted men of medical detachment.

SECTION III.—SIGNAL EQUIPMENT.

S	Telephone equipment.....	(a)	a 1 per Hq. & Serv. Co. (See Note 32.)
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set...	(a)	a 1 per lettered company; 1 per Hq. & Serv. Co. (See Note 2.)
E	Carpentry equipment: Company reserve, set.....	(a)	.....	a 2 per lettered company; 1 per Hq. & Serv. Co. (See Note 3.)
	Field, set.....	(a)	.....	a 4 per lettered company; 1 per Hq. & Serv. Co. (See Note 4.)
E	Demolition equipment: Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 5.)
	Field, set.....	(a)	.....	a 2 per lettered company. (See Note 6.)
E	Drafting equipment: Company.....	(a)	.....	a 1 per lettered company. (See Note 7.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Co. (See Note 8.)
E	Illuminating equipment.....	(a)	.....	a 1 per lettered company, 2 per Hq. & Serv. Co. (See Note 13.)
E	Map reproduction equipment— blue print, cyclostyle, duplica- tor.....	(a)	.....	a 1 per Hq. & Serv. Co. (See Notes 16, 17, and 18.)
E	Office equipment: Company.....	(a)	.....	a 1 per lettered company. (See Note 20.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Co. (See Note 21.)
E	Photographic equipment: Company.....	(a)	.....	a 1 per lettered company. (See Note 23.)
	Regimental.....	(a)	.....	1 1 per Hq. & Serv. Co. (See Note 24.)
E	Pioneer equipment: Company reserve, set.....	(a)	.....	a 2 per lettered company. (See Note 25.)
	Field, set.....	(a)	.....	a 3 per lettered company. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	a 2 per lettered company, and Hq. & Serv. Co. (See Note 27.)
E	Sign-painting equipment, set.....	(a)	.....	a 1 per lettered company, 3 per Hq. & Serv. Co. (See Note 28.)
E	Sketching outfits.....	(a)	.....	a 2 per lettered company, 3 per Hq. & Serv. Co. (See Note 29.)

C.—*Engineer regiments (general service)*—Continued.

SECTION IV.—ENGINEERING EQUIPMENT—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
E	Supplementary equipment, general service:			
	Company.....	(a)	.....	a 1 per lettered company. (See Note 37.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Co. (See Note 38.)
E	Surveying equipment, regimental.	(a)	.....	a 1 per Hq. & Serv. Co. (See Note 30.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per lettered company. (See Note 33.)
E	Water-supply equipment, general service.	(a)	.....	a 1 per Hq. & Serv. Co. (See Note 35.)

SECTION V.—TRANSPORTATION.

Q	Animals:			
	Horses, riding.....	(a)	.....	a 1 per company and Hq. & Serv. Co. (captain); 2 per Bn. Hq.; 5 per Regtl. Hq.; 8 additional per Hq. & Serv. Co. (3 sergeants major, 1 supply sergeant, 1 stable sergeant, 1 asst. wagonmaster, 2 buglers); 4 for Med. Dept., 1 for chaplain.
	Mules, draft.....	(a)	.....	a 4 per 4-mule wagon.
E	Block, automobile pull-u-outs.....	(a)	.....	a 1 per motor truck.
Q	Bicycles.....	(a)	.....	a 2 per lettered company, 3 per Hq. & Serv. Co.
Q	Cars, motor, 5-passenger.....	(a)	.....	a 1 per Hq. & Serv. Co.
Q	Motorcycles, with side car.....	(a)	.....	a 2 per lettered company, 6 per Hq. & Serv. Co., 1 per medical detachment.
Q	Trailers, kitchen.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Co.
Q	Trailers, water, 180-gal.....	(a)	.....	Do.
Q	Trucks, cargo, 3-5 ton.....	(a)	.....	a 18 per Hq. & Serv. Co. (includes 1 per lettered company, 2 for organizational equipment, 2 for supplementary equipment, 1 for water-supply equipment, 7 for portable pile driver).
Q	Trucks, cargo, 1-ton.....	(a)	.....	a 3 per Hq. & Serv. Co. (tool and material delivery); 1 for medical detachment.
E	Truck, special, machine shop, 3-5 ton.	(a)	.....	a 1 per Hq. & Serv. Co.
Q	Wagons, escort, tool, 4-mule.....	(a)	.....	a 12 per Hq. & Serv. Co. (2 for each lettered company).

D.—*Engineer auxiliary battalions.*

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8 inches.....	1	.....	For each corporal.
E	Rules, folding, 4-foot.....	1	.....	For technical sergeants, staff sergeants, and sergeants.
E	Tape, 50-foot, metallic.....	1	.....	For technical sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers; noncommissioned officers above grade of corporal; buglers, all grades; and cooks, except officers and enlisted men of medical detachment.
O	Rifles.....	1	.....	For corporals, except buglers, privates 1st cl. and privates, except buglers, cooks, and enlisted men of medical detachment.

D.—*Engineer auxiliary battalions*—Continued.

SECTION III.—SIGNAL EQUIPMENT.

Branch.	Articles of equipment.	A	B	Remarks.
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
z	None.			

SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set...	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 3.)
	Field, set.....	(a)	.....	a 4 per lettered company. (See Note 4.)
E	Demolition equipment:			
	Company reserve, set.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 5.)
	Field, set.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 6.)
E	Drafting equipment, company.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 7.)
E	Illuminating equipment.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 13.)
E	Office equipment, regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 21.)
E	Photographic equipment, company.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 23.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 25.)
	Field, set.....	(a)	.....	a 4 per lettered company. (See Note 26.)
E	Pipe-fitting tools.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 3 per Hq. & Serv. Plat. (See Note 28.)
E	Sketching outfits.....	(a)	.....	a 2 per Hq. & Serv. Plat. (See Note 29.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per lettered company. (See Note 33.)

SECTION V.—TRANSPORTATION.

E	Blocks, automobile pull-u-outs....	(a)	.....	a 1 per motor truck.
Q	Motorcycles, with side car.....	(a)	.....	a 2 per lettered company, 2 per Hq. & Serv. Plat., 1 for medical detachment.
Q	Trailers, kitchen.....	(a)	.....	a 4 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Trailers, water, 190-gal.....	(a)	.....	Do.
Q	Trucks, cargo, 3-5 ton.....	(a)	.....	a 5 per Hq. & Serv. Plat. (includes 1 per lettered company and 1 per Hq. & Serv. Plat., for organizational equipment, rations, and baggage).
Q	Trucks, cargo, 1-ton.....	(a)	.....	a 4 per Hq. & Serv. Plat. (includes 1 per lettered company, for tool and material delivery); 1 per medical detachment.

E.—*Engineer bridge trains, light and heavy.*

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	.....	For all enlisted men.
E	Rules, folding, 4-foot.....	1	.....	For staff sergeants and sergeants.
E	Tape, metallic, 50-foot.....	1	.....	For staff sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers, noncommissioned officers above grade of corporal, buglers and cooks.
O	Rifles.....	1	.....	For corporals, privates 1st cl. and privates, except buglers and cooks.

E.—*Engineer bridge trains, light and heavy*—Continued.

SECTION III.—SIGNAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perman- ent nature.	Remarks.
8	None.			

SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set	(a)		a 1 per bridge train. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set	(a)		a 1 per bridge train. (See Note 3.)
	Field, set	(a)		a 1 per bridge train. (See Note 4.)
E	Demolition equipment, company reserve, set	(a)		a 1 per bridge train. (See Note 5.)
E	Footbridge, Lampert, portable	(a)		a 1 per light bridge train (war) to be held in bridge park for replacement purposes. (See Note 12.)
E	Office equipment, company	(a)		a 1 per bridge train. (See Note 20.)
E	Photographic equipment, company	(a)		a 1 per bridge train. (See Note 23.)
E	Pioneer equipment:			
	Company reserve, set	(a)		a 1 per bridge train. (See Note 25.)
	Field, set	(a)		a 1 per bridge train. (See Note 26.)
E	Pipe-fitting tools, set	(a)		a 1 per bridge train. (See Note 27.)
E	Ponton equipment, heavy	(a)		a 2 per heavy train (peace); 3 per heavy train (war). (See Note 40.)
E	Ponton equipment, light	(a)		a 2 per light train (peace); 3 per light train (war). (See Note 41.)
E	Sign-painting equipment	(a)		a 1 per bridge train. (See Note 28.)
E	Supplementary equipment	(a)		a 1 per bridge train. (See Note 39.)
E	Tinsmith equipment	(a)		a 1 per bridge train. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Animals:			
	Horses, riding	(a)		a 21 per heavy train; 19 per light train (peace); 29 per heavy train; 26 per light train (war). See T. of O. for distribution.
	Mules, draft	(a)		a 222 per heavy train, 170 per light train (peace); 328 per heavy train, 246 per light train (war). See T. of O. for distribution.
Q	Carts, water, 2-mule	(a)		a 1 per bridge train.
Q	Kitchens, rolling, 4-mule	(a)		a 1 per bridge train.
Q	Motorcycles, with side car	(a)		a 2 per bridge train.
E	Wagons, chess, 4-mule:			
	For chess	(a)		a 12 per heavy train, 6 per light train (peace); 18 per heavy train, 9 per light train (war).
	For pontons	(a)		a 24 per light train (peace); 36 per light train (war).
	For trestles	(a)		a 4 per light train (peace); 6 per light train (war).
Q	Wagons, escort, 4-mule:			
	For ponton supply	(a)		a 2 per heavy train (peace); 3 per heavy train (war).
	For ponton tools	(a)		a 2 per bridge train (peace); 3 per bridge train (war). To be issued in lieu of pon- ton tool wagon pending development of satisfactory type.
	For rations and baggage	(a)		a 5 per heavy train and light train (peace); 7 per heavy train (war); 6 per light train (war).
E	Wagons, ponton, 6-mule:			
	For pontons	(a)		a 18 per heavy train (peace); 27 per heavy train (war).
	For trestles	(a)		a 4 per heavy train (peace); 6 per heavy train (war).

F.—Engineer camouflage company (Army).

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A	B	Remarks.
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8-inch.....	1	.....	For each corporal.
E	Rules, folding, 4-foot.....	1	.....	For staff sergeants and sergeants.
E	Tape, 50-foot, metallic.....	1	.....	For staff sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers; noncommissioned officers above grade of corporal; buglers, and cooks.
O	Rifles.....	1	For corporals; privates, 1st cl., and privates, except buglers and cooks.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set.....	(a)	1 per company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	1 per company. (See Note 3.)
	Field, set.....	(a)	.....	2 per company. (See Note 4.)
E	Drafting equipment, company.....	(a)	.....	1 per company. (See Note 7.)
E	Illuminating equipment.....	(a)	.....	1 per company. (See Note 13.)
E	Map reproduction equipment—blue print, cyclostyle, duplicator.....	(a)	.....	1 per company. (See Notes 16, 17, and 18.)
E	Office equipment, company.....	(a)	.....	1 per company. (See Note 20.)
E	Photographic equipment, company.....	(a)	.....	1 per company. (See Note 23.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	1 per company. (See Note 25.)
	Field, set.....	(a)	.....	2 per company. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	1 per company. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	1 per company. (See Note 28.)
E	Sketching outfits.....	(a)	.....	2 per company. (See Note 29.)
E	Tinsmith's equipment.....	(a)	.....	1 per company. (See Note 33.)

SECTION V.—TRANSPORTATION.

E	Blocks, automobile pull-u-outs.....	(a)	.....	1 per motor truck.
C	Bicycles.....	(a)	.....	5 per company.
C	Car, motor, 5-passenger.....	(a)	.....	1 per company.
C	Motorcycles, with side car.....	(a)	.....	2 per company.
C	Trailer, kitchen.....	(a)	.....	1 per company.
C	Trailer, water, 140-gallon.....	(a)	.....	1 per company.
C	Trucks, cargo, 2-ton.....	(a)	.....	2 per company.
C	Trucks, cargo, 1½-2 ton.....	(a)	.....	2 per company.

G.—*Engineer camouflage battalions.*

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
FE	Knife, clasp.....	1	.....	For all enlisted men.
FE	Rules, folding, 4-foot.....	1	.....	For master sergeants, technical sergeants, staff sergeants, and sergeants.

SECTION II.—ARMAMENT.

O	Ammunition.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers; noncommissioned officers above grade of corporal; buglers, all grades; and cooks, except officers and enlisted men of medical detachment.
O	Rifles.....	1	For corporals, except buglers; privates, 1st cl., and privates, except buglers, cooks, and enlisted men of medical detachment.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEER EQUIPMENT.

E	Carpentry equipment: Company reserve, set.....	(a)	a 1 per lettered company. (See Note 3.)
	Field, set.....	(a)	.....	a 2 per lettered company. (See Note 4.)
E	Drafting equipment: Company.....	(a)	.....	a 1 per lettered company. (See Note 7.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 8.)
E	Illuminating equipment.....	(a)	.....	a 1 per lettered company, 2 per Hq. & Serv. Co. (See Note 13.)
E	Map reproduction equipment— blue print, cyclostyle, duplicator.	(a)	.....	a 1 per Hq. & Serv. Plat. (See Notes 16, 17, and 18.)
E	Office equipment, company.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 20.)
E	Photographic equipment: Company.....	(a)	.....	a 1 per lettered company. (See Note 23.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 24.)
E	Pioneer equipment: Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 25.)
	Field, set.....	(a)	.....	a 2 per lettered company. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 28.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per lettered company. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Ambulance, motor.....	(a)	.....	a 1 per medical detachment.
Q	Bicycles.....	(a)	.....	a 15 per Hq. & Serv. Plat. (includes 5 per lettered company).
E	Blocks, automobile pull-u-outs.....	(a)	.....	a 1 per motor truck.
Q	Cars, motor, 5-passenger.....	(a)	.....	a 4 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Motoreycles, with side car.....	(a)	.....	a 2 per lettered company, 3 per Hq. & Serv. Plat., 1 per medical detachment.
Q	Trailers, kitchen.....	(a)	.....	a 4 per Hq. & Serv. Plat. (includes 1 per lettered company).

G.—*Engineer camouflage battalions*—Continued.

SECTION V.—TRANSPORTATION—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively per- manent nature.	Remarks.
Q	Trailers, water, 180-gal.....	(a)	.....	a 4 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Trucks, cargo, $\frac{1}{2}$ -ton.....	(a)	.....	a 8 per Hq. & Serv. Plat. (includes 2 per lettered company).
Q	Trucks, cargo, 3-5 ton.....	(a)	.....	a 8 per Hq. & Serv. Plat. (includes 2 per lettered company). (For rations, baggage, and organizational equipment, and supply and delivery of camouflage material.)

H.—*Engineer dump truck trains*.

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	For all enlisted men.
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SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	a See Note 1.
O	Bayonets.....	1	Per rifle.
O	Pistols.....	1	.....	For officers; noncommissioned officers above grade of corporal; buglers, and cooks.
O	Rifles.....	1	For corporals, privates, 1st cl., and privates, except buglers and cooks.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set...	(a)	a 1 per train. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	a 1 per train. (See Note 3.)
	Field, set.....	(a)	.....	a 1 per train. (See Note 4.)
E	Office equipment, company.....	(a)	.....	a 1 per train. (See Note 20.)
E	Photographic equipment, company.	(a)	.....	a 1 per train. (See Note 23.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	a 1 per train. (See Note 25.)
	Field, set.....	(a)	.....	a 1 per train. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	a 1 per train. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 1 per train. (See Note 28.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per train. (See Note 33.)

SECTION V.—TRANSPORTATION.

F	Blocks, automobile pull-u-outs....	(a)	.....	a 1 per motor truck.
C	Cars, motor, 5-passenger.....	(a)	.....	a 1 per train.
C	Motorcycles, with side car.....	(a)	.....	a 2 per train.
C	Trailers, kitchen.....	(a)	.....	a 1 per train.
C	Trailer, water, 180-gal.....	(a)	.....	a 1 per train.
C	Trucks, cargo, $\frac{1}{2}$ -ton.....	(a)	.....	a 2 per train.
C	Trucks, dump, $1\frac{1}{2}$ -ton.....	(a)	.....	a 50 per train (war), 25 per train (peace).
C	Trucks, tank, gas, 750-gal.....	(a)	.....	a 2 per train (war), 1 per train (peace).

I.—Engineer lumber battalions.

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks
E	Knife, clasp.....	1	.....	For all enlisted men. For master sergeants, technical sergeants, staff sergeants, and sergeants.
E	Rules, folding, 4-foot.....	1	.....

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	a See Note 1. Per rifle. For officers; no commissioned officers above grade of corporal; buglers, all grades; and cooks, except officers and enlisted men of medical detachment.
O	Bayonets.....	1	.....
O	Pistols.....	1	.....
O	Rifles.....	1	For corporals, except buglers; privates, 1st cl., and privates, except buglers, cooks, and enlisted men of medical detachment.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set ..	(a)	a 1 per lettered company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 3.)
	Field, set.....	(a)	.....	a 2 per lettered company. (See Note 4.)
E	Demolition equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 5.)
	Field, set.....	(a)	.....	a 1 per lettered company. (See Note 6.)
E	Drafting equipment:			
	Company.....	(a)	.....	a 1 per lettered company. (See Note 7.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 8.)
E	Illuminating equipment.....	(a)	.....	a 1 per lettered company, 2 per Hq. & Serv. Co. (See Note 13.)
E	Map reproduction equipment— blue print, cyclostyle, duplicator.	(a)	.....	a 1 per Hq. & Serv. Plat. (See Notes 16, 17, and 18.)
E	Office equipment, company.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 20.)
E	Photographic equipment, regi- mental.	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 24.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 25.)
	Field, set.....	(a)	.....	a 1 per lettered company. (See Note 25.)
E	Pipe-fitting tools, set.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 2 per Hq. & Serv. Plat. (See Note 28.)
E	Supplementary equipment, lum- ber.....	(a)	.....	a 1 per lettered company (to be determined and published in subsequent tables).
E	Surveying equipment, regimental.	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 30.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per lettered company. (See Note 33.)

I.—*Engineer lumber battalions*—Continued.

SECTION V.—TRANSPORTATION.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively perma- nent nature.	Remarks.
CO	Ambulance, motor.....	(a)		a 1 per medical detachment.
	Animals:			
	Horses, riding.....	(a)		a 7 per lettered company. (See T. of O. for distribution.)
	Horses, heavy draft.....	(a)		a 44 per lettered company.
Q	Bicycles.....	(a)		a 2 per lettered company, 3 per Hq. & Serv. Plat.
COF	Blocks, automobile pull-u-outs.....	(a)		a 1 per motor truck.
	Cars, motor, 5-passenger.....	(a)		a 1 per Hq. & Serv. Plat.
	Motorcycles, with side car.....	(a)		a 2 per lettered company, 2 per Hq. & Serv. Plat., 1 per medical detachment.
Q	Tractors, caterpillar, 10-ton.....	(a)		a 6 per Hq. & Serv. Plat. (includes 2 per lettered company).
Q	Trailers, kitchen.....	(a)		a 4 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Trailers, water, 180-gal.....	(a)		a 4 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Trailers, 4-ton, 4-wheeled.....	(a)		a 48 per Hq. & Serv. Plat. (includes 16 per lettered company).
Q	Trailers, 5-ton, 6-inch iron tires.....	(a)		a 24 per Hq. & Serv. Plat. (includes 8 per lettered company).
Q	Trucks, $\frac{1}{2}$ -ton.....	(a)		a 3 per Hq. & Serv. Plat.
Q	Trucks, cargo, 3-5 ton.....	(a)		a 13 per Hq. & Serv. Plat. (includes 4 per lettered company). (For rations, baggage, forage, and organizational equipment.)
Q	Wagons, log (Schuttler or similar type).....	(a)		a 4 per lettered company.
CO	Wagons, log, 8-wheeled.....	(a)		a 4 per lettered company.
CO	Wagons, tank, 500-gal.....	(a)		a 1 per lettered company.

K.—*Engineer railway battalions*.

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1		For all enlisted men.
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SECTION II.—ARMAMENT.

O	Ammunition.....	(a)		a See Note 1.
O	Bayonets.....	1		Per rifle.
O	Pistols.....	1		For officers; noncommissioned officers above grade of corporal; buglers, all grades; and cooks, except officers and enlisted men of medical detachment.
O	Rifles.....	1		For corporals, except buglers; privates 1st cl., and privates, except buglers, cooks, and enlisted men of medical detachment.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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K.—Engineer railway battalions—Continued.

SECTION IV.—ENGINEERING EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
E	Blacksmith's tools, machine, set...	(a)	.....	a 1 per lettered company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 3.)
	Field, set.....	(a)	.....	a 2 per lettered company. (See Note 4.)
E	Demolition equipment, company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 5.)
E	Drafting equipment:			
	Company.....	(a)	.....	a 1 per lettered company. (See Note 7.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 8.)
E	Illuminating equipment.....	(a)	.....	a 1 per lettered company, 2 per Hq. & Serv. Plat. (See Note 13.)
E	Map reproduction equipment— blue print, cyclostyle, dupli- cator.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Notes 16, 17, and 18.)
E	Office equipment:			
	Company.....	(a)	.....	a 1 per lettered company. (See Note 20.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 21.)
E	Photographic equipment, regimen- tal.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 24.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	a 1 per lettered company. (See Note 25.)
	Field, set.....	(a)	.....	a 2 per lettered company. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 2 per Hq. & Serv. Plat. (See Note 28.)
E	Supplementary equipment:			
	Company.....	(a)	.....	a 1 per lettered company (except operating companies). (To be determined and published in subsequent tables.)
	Battalion.....	(a)	.....	a 1 per Hq. & Serv. Plat. (To be deter- mined and published in subsequent tables.)
E	Surveying equipment, regimental.....	(a)	.....	a 2 per Hq. & Serv. Plat. (See Note 30.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per lettered company. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Ambulance, motor.....	(a)	.....	a 1 per medical detachment.
E	Blocks, automobile pull-u-outs.....	(a)	.....	a 1 per motor truck.
Q	Cars, motor, 5-passenger.....	(a)	.....	a 1 per Hq. & Serv. Plat.
E	Cars, box, 40-ton.....	(a)	.....	a 4 per lettered company (1 for office, 1 for mess, 2 for stores); 5 per Hq. & Serv. Plat. (2 for office, 2 for stores, 1 for mess).
E	Cars, flat, 40-ton.....	(a)	.....	a 3 per Hq. & Serv. Plat. (1 boom car, 1 tool car, 1 rail and tie car). For wrecking equipment.
E	Cars, special, machine shop, 40-ton.....	(a)	.....	a 8 per Hq. & Serv. Plat. (war). For shop train.
E	Crane, railroad, wrecking.....	(a)	.....	a 1 per Hq. & Serv. Plat.
Q	Motorcycles, with side car.....	(a)	.....	a 2 per Hq. & Serv. Plat.; 1 per medical de- tachment.
Q	Trucks, cargo, 1-ton.....	(a)	.....	a 2 per Hq. & Serv. Plat.

L.—Engineer shop companies.

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	For all enlisted men.
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L.—*Engineer shop companies*—Continued.

SECTION II.—ARMAMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perman- ent nature.	Remarks.
O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers, noncommissioned officers above grade of corporal, buglers, and cooks.
O	Rifles.....	1	For corporals, privates 1st cl., and privates, except buglers and cooks.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Blacksmith's tools, machine, set.....	(a)	a 1 per company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	a 1 per company. (See Note 3.)
	Field, set.....	(a)	.....	a 1 per company. (See Note 4.)
E	Drafting equipment, regimental.....	(a)	.....	a 1 per company. (See Note 8.)
E	Illuminating equipment.....	(a)	.....	a 2 per company. (See Note 13.)
E	Map reproduction equipment:			
	Blue print.....	(a)	.....	a 1 per company. (See Note 16.)
	Duplicator.....	(a)	.....	a 1 per company. (See Note 18.)
E	Office equipment, company.....	(a)	.....	a 1 per company. (See Note 20.)
E	Photographic equipment, com- pany.....	(a)	.....	a 1 per company. (See Note 23.)
E	Pioneer equipment, field.....	(a)	.....	a 1 per company. (See Note 26.)
E	Pipe-fitting tools, set.....	(a)	.....	a 1 per company. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 1 per company. (See Note 28.)
E	Supplementary equipment.....	(a)	.....	a Supplementary shop equipment will be issued all shop companies in time of war, in accordance with the requirements of the situation.
E	Tinsmith's equipment.....	(a)	.....	a 1 per company. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Motorcycles, with side car.....	(a)	.....	a 1 per company.
Q	Truck, cargo, $\frac{1}{2}$ ton.....	(a)	.....	a 1 per company.

M.—*Engineer topographic battalions*.

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8-inch.....	1	.....	For each corporal.
E	Rule, folding, 4-foot.....	1	.....	For technical sergeants, staff sergeants, and sergeants.
E	Tape, 50-foot, metallic.....	1	.....	For technical sergeants.

M.—Engineer topographic battalions—Continued.

SECTION II.—ARMAMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
O	Ammunition and armament.....	(a)	.....	a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers; noncommissioned officers above grade of corporal; buglers, all grades; and cooks, except officers and enlisted men of medical detachment.
O	Rifles.....	1	For corporals, except buglers; privates 1st cl., and privates, except buglers, cooks, and enlisted men of medical detachment.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Carpentry equipment: Company reserve, set.....	(a)	a 1 per lettered company. (See Note 3.)
	Field, set.....	(a)	.....	a 2 per surveying company, 1 per reproduction company. (See Note 4.)
E	Drafting equipment, company.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 7.)
E	Illuminating equipment.....	(a)	.....	a 6 per surveying company, 2 per reproduction company and Hq. & Serv. Plat. (See Note 13.)
E	Map reproduction equipment— blueprint, cyclostyle, duplicator.....	(a)	.....	a 1 each per lettered company and Hq. & Serv. Plat. (See Notes 16, 17, and 18.)
E	Office equipment, company.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 20.)
E	Photographic equipment: Company.....	(a)	.....	a 1 per lettered company. (See Note 23.)
	Regimental.....	(a)	.....	a 1 per Hq. & Serv. Plat. (See Note 24.)
E	Pioneer equipment: Company reserve.....	(a)	.....	a 1 per lettered company. (See Note 25.)
	Field.....	(a)	.....	a 1 per lettered company. (See Note 26.)
E	Pipe-fitting tools.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 27.)
E	Sign-painting equipment.....	(a)	.....	a 2 per lettered company, 1 per Hq. & Serv. Plat. (See Note 28.)
E	Sketching outfits.....	(a)	.....	a 2 per surveying company, 2 per Hq. & Serv. Plat. (See Note 29.)
E	Supplementary equipment: Reproduction.....	(a)	.....	a 1 per reproduction company. (To be determined and published in subsequent tables.)
	Surveying.....	(a)	.....	a 1 per surveying company. (To be determined and published in subsequent tables.)
E	Surveying equipment, regimental.....	(a)	.....	a 3 per surveying company. (See Note 30.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per lettered company and Hq. & Serv. Plat. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Ambulance, motor.....	(a)	.....	a 1 per medical detachment.
Q	Cars, motor, 5-passenger.....	(a)	.....	a 3 per Hq. & Serv. Plat. of Army battalion (includes 1 per surveying company), 2 per Hq. & Serv. Plat. of G. H. Q. Bn. (includes 1 per surveying company), 4 per Hq. & Serv. Plat. of other battalions (includes 1 per surveying company).

M.—*Engineer topographic battalions*—Continued.

SECTION V.—TRANSPORTATION—Continued.

Branch.	Articles of equipment.	A	B	Remarks.
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Q	Motorcycles, with side car.....	(a)	.....	^a 2 per lettered company, 2 per Hq. & Serv. Plat., 1 per medical detachment.
E	Special vehicles, mobile reproduction plant.	(a)	.....	^a 18 per reproduction company of Army battalion only. (For map reproduction, printing, etc.)
Q	Trailer, kitchen.....	(a)	.....	^a 3 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Trailer, water.....	(a)	.....	^a 3 per Hq. & Serv. Plat. (includes 1 per lettered company).
Q	Trucks, cargo, 1-ton.....	(a)	.....	^a 24 per Hq. & Serv. Plat. of Army battalion (includes 10 per surveying company, 3 per reproduction company, 1 per Hq. & Serv. Plat.) for transportation of surveying parties and delivery of tools and equipment; 17 per Hq. & Serv. Plat. of G. H. Q. battalion (includes 10 per surveying company, 3 per reproduction company, 1 per Hq. & Serv. Plat.) for transportation of surveying parties and delivery of tools and equipment; 31 per Hq. & Serv. Plat. of other battalions (includes 10 per surveying company, 1 per Hq. & Serv. Plat.) for transportation of surveying parties and delivery of tools and equipment; 1 per medical detachment.
Q	Trucks, cargo, 3-5 ton.....	(a)	.....	^a 1 per Hq. & Serv. Plat.—for rations, baggage, and organizational equipment.

N.—*Engineer water tank battalion.*

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	.....	For all enlisted men.
E	Pliers, side-cutting, 8-inch.....	1	.....	For each corporal.
E	Rule, folding, 4-foot.....	1	.....	For master sergeants, technical sergeants, staff sergeants, and sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	^a See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers; noncommissioned officers above the grade of corporal; buglers, all grades; and cooks, except officers and enlisted men of medical detachment.
O	Rifles.....	1	For corporals, except buglers; privates, 1st cl., and privates, except buglers, cooks, and enlisted men of medical detachment.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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N.—Engineer water tank battalion—Continued.

SECTION IV.—ENGINEERING EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
E	Blacksmith's tools, machine, set. . .	(a)	.....	♣ 1 per lettered company and Hq. & Serv. Plat. (See Note 2.)
E	Carpentry equipment: Company reserve, set.	(a)	.....	♣ 1 per lettered company and Hq. & Serv. Plat. (See Note 3.)
	Field, set.	(a)	.....	♣ 1 per lettered company. (See Note 4.)
EF	Drafting equipment, company.	(a)	.....	♣ 1 per Hq. & Serv. Plat. (See Note 7.)
EF	Illuminating equipment.	(a)	.....	♣ 1 per Hq. & Serv. Plat. (See Note 13.)
EF	Map reproduction equipment, dupli- cator.	(a)	.....	♣ 1 per Hq. & Serv. Plat. (See Note 13.)
E	Office equipment: Company.	(a)	.....	♣ 1 per lettered company. (See Note 20.)
	Regimental.	(a)	.....	♣ 1 per Hq. & Serv. Plat. (See Note 21.)
E	Photographic equipment, regi- mental.	(a)	.....	♣ 1 per Hq. & Serv. Plat. (See Note 24.)
E	Pioneer equipment: Company reserve, set.	(a)	.....	♣ 1 per lettered company. (See Note 25.)
	Field, set.	(a)	.....	♣ 1 per lettered company. (See Note 26.)
E	Pipe-fitting tools, set.	(a)	.....	♣ 1 per lettered company and Hq. & Serv. Plat. (See Note 27.)
E	Sign-painting equipment.	(a)	.....	♣ 1 per lettered company and Hq. & Serv. Plat. (See Note 28.)
EF	Supplementary equipment: Company.	(a)	.....	♣ 1 per lettered company. (To be deter- mined and published in subsequent tables.)
EF	Hq. & Serv. Co.	(a)	.....	♣ 1 per Hq. & Serv. Plat. (To be deter- mined and published in subsequent tables.)
E	Tinsmith's equipment.	(a)	.....	♣ 1 per lettered company and Hq. & Serv. Plat. (See Note 33.)

SECTION V.—TRANSPORTATION.

E	Blocks, automobile pull-u-outs.	(a)	.....	♣ 1 per motor truck.
Q	Cars, motor, 5-passenger.	(a)	.....	♣ 1 per Hq. & Serv. Plat.
Q	Motorcycles, with side car.	(a)	.....	♣ 2 per lettered company and Hq. & Serv. Plat., 4 per medical detachment (war); 1 per lettered company, 2 per Hq. & Serv. Plat., 2 per medical detachment (peace).
Q	Trailers, kitchen.	(a)	.....	♣ 1 per lettered company and Hq. & Serv. Plat.
Q	Trucks, cargo, $\frac{1}{2}$ -ton.	(a)	.....	♣ 1 per lettered company, 1 per Hq. & Serv. Plat., 2 per medical detachment.
Q	Trucks, cargo, 3-5 ton.	(a)	.....	♣ 1 per lettered company, 3 per Hq. & Serv. Plat. (for rations, baggage, and organiza- tional equipment).
Q	Trucks, $1\frac{1}{2}$ -2 ton, water 2-250 gal. tanks.	(a)	.....	♣ 50 per lettered company (war); 25 per lettered company (peace).
Q	Trucks, $1\frac{1}{2}$ -2 ton, gasoline 2-250 gal. tanks.	(a)	.....	♣ 4 per lettered company, 1 per Hq. & Serv. Plat. (war); 2 per lettered company (peace).
E	Trucks, 3-5 ton, purification.	(a)	.....	♣ 12 per Hq. & Serv. Plat. (war); 6 per Hq. & Serv. Plat. (peace).

O.—Engineer headquarters.

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A	B	Remarks.
		War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
E	Knife, clasp.....	1		For all enlisted men.

SECTION II.—ARMAMENT.

O	Ammunition.....	(a)		See Note 1.
O	Bayonets.....	1		For rifle.
O	Pistols.....	1		For officers, noncommissioned officers above grade of corporal, and cooks.
O	Rifles.....	1		For corporals, privates 1st cl., and privates, except cooks.

SECTION III.—SIGNAL EQUIPMENT.

S	None.....			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Drafting equipment, regimental.....	(a)		1 per Corps Engr. Hq., 2 per Army Engr. Hq., 3 per G. H. Q. and Canal Zone Engr. Hq., 1 per Section Engr. Hq. (See Note 8).
E	Electric lighting set, portable.....	(a)		2 per Corps Engr. Hq. (See Note 9.)
E	Map reproduction equipment:			
	Blue Print.....	(a)		1 per Corps, Army, G. H. Q., Canal Zone, and Section Engr. Hq. (See Note 16.)
	Cyclostyle.....	(a)		1 per Corps, Army, G. H. Q., Canal Zone, and Section Engr. Hq. (See Note 17.)
	Duplicator.....	(a)		1 per Corps, Army, G. H. Q., Canal Zone, and Section Engr. Hq. (See Note 18.)
	Lithographic.....	(a)		1 per Corps Engr. Hq. (See Note 19.)
E	Office equipment, regimental.....	(a)		1 per Corps Engr. Hq., 2 per Army, G. H. Q., and Canal Zone Engr. Hq., 1 per Section Engr. Hq. (See Note 21.)
E	Photographic equipment:			
	Company.....	(a)		1 per Army, G. H. Q., Canal Zone, and Section Engr. Hq. (See Note 23.)
	Regimental.....	(a)		1 per Corps, Army, G. H. Q., Canal Zone, and Section Engr. Hq. (See Note 24.)

SECTION V.—TRANSPORTATION.

Q	Animals, horses, riding.....	(a)		2 per Corps Engr. Hq.
Q	Cars, motor, 5-passenger.....	(a)		1 per Corps Engr. Hq., 5 per Army Engr. Hq., 2 per G. H. Q. Engr. Hq.
Q	Cars, motor, 7-passenger.....	(a)		1 per Army Engr. Hq., 2 per G. H. Q. Engr. Hq.
Q	Motorcycles, solo.....	(a)		4 per Army Engr. Hq.
Q	Motorcycles, with side car.....	(a)		3 per Corps Engr. Hq., 8 per Army Engr. Hq., 3 per G. H. Q. Engr. Hq.
Q	Trailers, kitchen.....	(a)		1 per Army and G. H. Q. Engr. Hq.
Q	Trailers, water, 180-gal.....	(a)		1 per Army and G. H. Q. Engr. Hq.
Q	Trucks, 4-ton.....	(a)		2 per Army Engr. Hq., 2 per G. H. Q. Engr. Hq.
Q	Trucks, 3-5 ton.....	(a)		2 per Corps Engr. Hq. (for Corps Reprod. Plant and Electric Lighting Plant), 5 per Army Engr. Hq.

P.—Department and corps area Engineer headquarters.

SECTION I.—INDIVIDUAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
E	Knife, clasp.....	1	.....	For all enlisted men.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	See Note 1.
O	Bayonets.....	1	.....	For rifle.
O	Pistols.....	1	.....	For officers, noncommissioned officers above grade of corporal.
O	Rifles.....	1	For privates 1st cl., and privates.

SECTION III.—SIGNAL EQUIPMENT.

S	None.			
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SECTION IV.—ENGINEERING EQUIPMENT.

E	Drafting equipment, regimental.....	(a)	1 per Hq.
E	Map reproduction equipment— blue print, cyclostyle, duplicator.....	(a)	.....	1 each per Hq.
E	Office equipment regimental.....	(a)	.....	1 per Hq.
E	Photograph equipment: Company.....	(a)	.....	1 per Hq.
	Regimental.....	(a)	.....	1 per Hq.

SECTION V.—TRANSPORTATION.

Q	Animals, horses, riding.....	(a)	1 per mounted officer.
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Q.—Engineer training center company.

SECTION I.—INDIVIDUAL EQUIPMENT.

E	Knife, clasp.....	1	For all enlisted men.
E	Pliers, side-cutting, 8".....	1	.....	For each corporal.
E	Rules, folding, 4'.....	1	.....	For staff sergeants and sergeants.

SECTION II.—ARMAMENT.

O	Ammunition and armament.....	(a)	.....	See Note 1.
O	Bayonets.....	1	.....	Per rifle.
O	Pistols.....	1	.....	For officers, noncommissioned officers above grade of corporal, buglers, and cooks.
O	Rifles.....	1	.....	For corporals, privates 1st cl., and privates, except buglers and cooks.

Q.—*Engineer training center company*—Continued.

SECTION III.—SIGNAL EQUIPMENT.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
S	None.			

SECTION IV.—ENGINEERING EQUIPMENT.

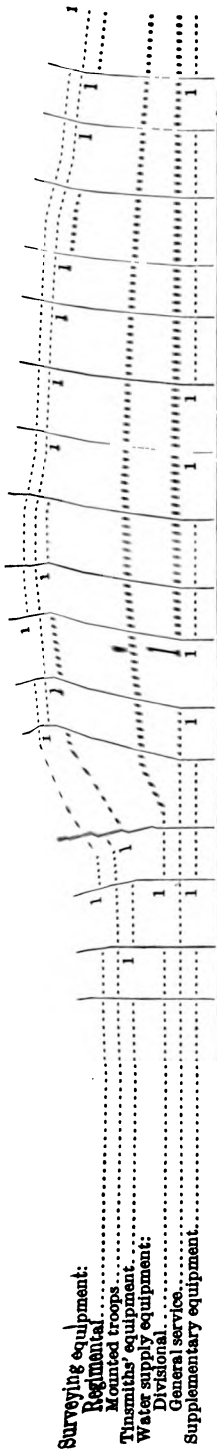
E	Blacksmith's tools, machine, set...	(a)	.....	a 1 per company. (See Note 2.)
E	Carpentry equipment:			
	Company reserve, set.....	(a)	.....	a 1 per company. (See Note 3.)
	Field, set.....	(a)	.....	a 1 per company. (See Note 4.)
E	Demolition equipment:			
	Company reserve, set.....	(a)	.....	a 1 per company. (See Note 5.)
	Field, set.....	(a)	.....	a 1 per company. (See Note 6.)
E	Drafting equipment, company.....	(a)	.....	a 1 per company. (See Note 7.)
E	Illuminating equipment.....	(a)	.....	a 1 per company. (See Note 13.)
E	Map reproduction equipment, du- plicator.....	(a)	.....	a 4 per company. (See Note 18.)
E	Office equipment, company.....	(a)	.....	a 1 per company. (See Note 20.)
E	Photographic equipment, com- pany.....	(a)	.....	a 1 per company. (See Note 23.)
E	Pioneer equipment:			
	Company reserve, set.....	(a)	.....	a 1 per company. (See Note 25.)
	Field, set.....	(a)	.....	a 1 per company. (See Note 26.)
E	Pipe-fitting tools.....	(a)	.....	a 1 per company. (See Note 27.)
E	Sketching outfits.....	(a)	.....	a 2 per company. (See Note 29.)
E	Tinsmith's equipment.....	(a)	.....	a 1 per company. (See Note 33.)

SECTION V.—TRANSPORTATION.

Q	Animals:			
	Horses, riding.....	(a)	.....	a 2 per company.
	Mules, draft.....	(a)	.....	a 8 per company.
Q	Bicycles.....	(a)	.....	a 1 per company.
Q	Motorcycles, with side-car.....	(a)	.....	a 1 per company.
Q	Wagons, escort, 4-mule, R. & C.....	(a)	.....	a 1 per company.
Q	Wagons, escort, 4-mule, tool.....	(a)	.....	a 1 per company.

Consolidated table showing Engineer unit assemblages authorized for Engineer organizations.

	General troops.						Special troops.												
	Combat regiment.		Combat battalion (mtd.).		General service regiment.		Auxiliary battalion.		Bridge trains.		Camouflage company.		Camouflage battalion.		Dump truck train.		Lumber battalion.		
	Co.	H. & S.	Co.	H. & S.	Co.	H. & S.	Co.	H. & S.	Heavy.	Light.	Co.	H. & S.	Co.	H. & S.	Co.	H. & S.	Co.	H. & S.	
Blacksmiths' tools, machine, set.	1		1		1		1		1		1		1		1		1		1
Carpentry equipment:																			
Company reserve, set.	1		1		2	1	1		1		1		1		1		1		1
Field set.	2		1		4	1	4		1		2		2		1		2		2
Demolition equipment:																			
Company reserve, set.	1		1		1		1		1		1		1		1		1		1
Field set.	2		1		2		2		1		1		1		1		1		1
Drafting equipment:																			
Company.	1		1		1		1		1		1		1		1		1		1
Regimental.																			
Electric lighting sets:																			
Generator.																			
Mounted troops.																			
Footbridge lampert, portable.																			
Illuminating equipment.	1		1		1		2		1		1		1		2		1		2
Intrenching equipment:																			
Infantry.		18-12																	
Cavalry.				4															
Map reproduction equipment:																			
Blue-print.																			
Cyclostyle.	1		1		1		1		1		1		1		1		1		1
Duplicator.	1		1		1		1		1		1		1		1		1		1
Lithographic.	1		1		1		1		1		1		1		1		1		1
Office equipment:																			
Company.	1		1		1		1		1		1		1		1		1		1
Regimental.																			
Pack equipment, Engineer.	2		1		1		1		1		1		1		1		1		1
Photographic equipment:																			
Company.	1		1		1		1		1		1		1		1		1		1
Regimental.																			
Pioneer equipment:																			
Company reserve, set.	1		1		2		2		1		1		1		1		1		1
Field, set.	2		1		4		4		1		1		1		2		2		2
Pipe-fitting tools, set.	1		1		1		2		1		1		1		1		1		1
Sawing equipment.	1		1		2		2		1		1		1		1		1		1
Sketching outfit.	4		6		4		3		2		2		2		2		2		2



- Surveying equipment:
- Regimental.....
- Mounted troops.....
- Tinmiths' equipment.....
- Water supply equipment:
- Divisional.....
- General service.....
- Supplementary equipment.....

	Special troops.						Headquarters.						
	Railway battalion.		Shop company.	Topographic battalion.		Water tank train.	Training center company.	Corps Engr.	Army Engr.	G.H.Q. Engr.	Canal Zone Engr.	Section Engr.	Department and corps area Engr.
	Co.	H. & S.		Survey Co.	Reprod. Co.									H. & S.	Co.	H. & S.
Blacksmiths' tools, machine, set.....	1		1			1	1						
Carpentry equipment.....	1		1			1	1						
Company reserve, set.....	2		1			1	1						
Field, set.....	1		2			1	1						
Demolition equipment:													
Company reserve, set.....	1												
Field, set.....													
Drafting equipment:													
Company.....	1					1	1						
Regimental.....													
Electric lighting sets:													
Generator.....													
Mounted troops.....								2					
Footbridge, lampert, portable.....													
Illuminating equipment.....	1	2	2	2	2	1	1						
Intrenching equipment:													
Infantry.....													
Cavalry.....													
Map reproduction equipment:													
Blue-print.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Cyclostyle.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Duplicator.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Lithographic.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Office equipment:													
Company.....	1	1	1	1	1	1	1	1	1	1	1	1	1
Regimental.....													
Pack equipment, Engineer.....													

12 per Inf. Regt. in Div. (peace); 1 per Inf. Battalion in Div. (war).
 11 per Cav. Regt. in Div. (peace and war).

Consolidated table showing Engineer unit assemblages authorized for Engineer organizations—Continued.

	Special troops.										Headquarters.				
	Railway battalion.		Shop company.	Topographic battalion			Water tank train.		Training center company.	Corps Engr.	Army Engr.	G.H.Q. Zone Engr.	Canal Engr.	Section Engr.	Department and corps area Engr.
	Co.	H. & S.		Surve. Co.	Reprod. Co.	H. & S.	Co.	H. & S.							
Photographic equipment:															
Company.....			1	1	1									1	1
Regimental.....						1								1	1
Pioneer equipment:															
Company reserve, set.....	1			1	1										
Field set.....	2			1	1										
Pipe fitting tools set.....	1			1	1										
Sign painting equipment.....				2	2										
Shedding outfit.....				2	2										
Surveying equipment:															
Regimental.....				2		3									
Mounted troops.....															
Minesweeper equipment.....	1			1	1										
Water supply equipment:															
Division.....															
General service.....	1			1	1										
Supplementary equipment.....															

NOTES PERTAINING TO TABLE IV-D.

NOTE 1.

A. Ammunition allowance for engineer organizations:

I. For combat regiments—

a. 100 rounds per rifle, carried on person, or in transportation, as follows:

1. Platoon tool wagon; 40 rounds per rifle in platoon.
2. Company tool truck; 40 rounds per rifle in headquarters section; 30 rounds per rifle in company.
3. Hq. & Serv. ammunition truck; 100 rounds per rifle in Hq. & Serv. Co.; 30 rounds per rifle in lettered companies.

b. 35 rounds per pistol, carried on person or in authorized transportation.

c. 500 rounds per automatic rifle, carried in platoon tool wagons.

II. For mounted battalions—

a. 100 rounds per rifle, carried on person, or in authorized transportation.

b. 35 rounds per pistol, carried on person, or in authorized transportation.

c. 500 rounds per automatic rifle, carried in company tool wagons.

III. For all other organizations—100 rounds per rifle, 35 rounds per pistol, or such fraction thereof as may be ordered by the organization commander or higher authority.

B. Armament for Engineer organizations: The armament prescribed in Section II of these tables may be reduced in proportion to the requirements of the situation at the discretion of the organization commander or higher authority for all Engineer organizations except combat regiments and combat battalions, mounted.

NOTE 2.—*Machine blacksmith's tools.*

	Number.	Tongs:	Number.
Bags, coal, 2-bushel	1	Smith's, gad, flat jaws, 18 inches	1
Brace, ratchet, 10-inch sweep	1	Smith's, gad, flat jaw, 24 inches	1
Chest, machine blacksmith's, engineer	1	Smith's, straight lip, 18 inches	1
Chisel, cape, $\frac{1}{2}$ -inch bit, $\frac{3}{4}$ -inch octagon by $7\frac{1}{2}$ inches long	1	Wrenches:	
Drill, chain	1	Monkey, 8-inch	1
Drills, twist, bit stock, $\frac{1}{2}$ to $\frac{1}{4}$ inch by 32ds, $\frac{1}{4}$ to $\frac{1}{2}$ inch by 16ths, set of 13, in roll	1	Double-end, "S," set of 3 ($\frac{1}{2}$ by $\frac{1}{4}$), ($\frac{1}{2}$ by $\frac{1}{2}$), ($\frac{1}{2}$ by $\frac{3}{4}$ -inch)	1
Files:		Supplies:	
Flat, bastard, 10-inch	1	Blades, hacksaw, 12-inch, 14-teeth, dozen	1
Flat, smooth, 10-inch	1	Compound, welding, pounds	5
Flat, smooth, 12-inch	1	Coal, blacksmith's, bushels	2
Half round, bastard, 12-inch	1	Handles—	
Mill, second cut, 8-inch	1	Chisels, hot or cold, 18-inch	6
Round, bastard, 8-inch	1	Hammer, farrier's, 14-inch	1
Round, bastard, 12-inch	1	Hammer, machinist's, ball pein, 18-inch	3
Flatter, handled, 2-inch sq. face	1	Sledges, 36-inch	2
Frame, hacksaw, adjustable, 12-inch	1	Nuts, U. S. standards, R. H. threads—	
Fuller, T. & B., $\frac{1}{2}$ -inch, set of 2, top fuller handled; bottom fuller with $\frac{1}{2}$ -inch shank	1	$\frac{1}{2}$ -inch, pounds	2
Hammers, handled:		$\frac{3}{4}$ -inch, pounds	5
Ball pein, 2 $\frac{1}{2}$ -pound	1	$\frac{1}{2}$ -inch, pounds	5
Set, 1-inch face, 1-pound head	1	$\frac{1}{2}$ -inch, pounds	5
Turning, 2-pound	1	1-inch, pounds	3
Hardie, half round, 1 $\frac{1}{2}$ -inch bit, $\frac{1}{2}$ -inch shank	1	Oil, machine, pints in cans	2
Punches, handled:		Steel, soft, 9-foot bars—	
Round, $\frac{1}{2}$ -inch	1	$\frac{1}{2}$ by 1-inch, feet	18
Square, $\frac{1}{2}$ -inch	1	$\frac{1}{2}$ by 1-inch, feet	18
Punch, center, $\frac{1}{2}$ -inch octagon by 7 inches long	1	$\frac{1}{2}$ by 1 $\frac{1}{2}$ -inch, feet	9
Rule, steel, 6-fold, 36-inch	1	1 by 2-inch, feet	9
Screw driver, 5-inch blade	1	$\frac{1}{2}$ -inch round, feet	18
Swedges, T. & B.:		$\frac{1}{2}$ -inch round, feet	18
$\frac{1}{2}$ -inch, set of 2, top swedge handled, bottom swedge with $\frac{1}{2}$ -inch shank	1	1-inch round, feet	9
$\frac{1}{2}$ -inch, set of 2, top swedge handled, bottom swedge with $\frac{1}{2}$ -inch shank	1	Steel, tool, octagonal, $\frac{1}{2}$ -inch, feet	4

NOTE 3.—Carpenter equipment, company reserve.

	Number.	Saw, compass, nest, as follows:	Number.
Augers, ship, ring, $\frac{1}{2}$ inch, handled.....	4	Blade, keyhole, 12-inch.....	1
Bevel, T, 8-inch blade, wood handle.....	1	Blade, compass, 14-inch.....	1
Chisel, handled:		Blade, nail-cutting, 18-inch.....	1
Framing, $1\frac{1}{2}$ -inch.....	4	Handle, compass saw.....	1
Framing, $\frac{1}{2}$ -inch.....	1	Square, try, 8-inch blade, wood handle.....	1
Chest, carpenter, reserve, engineer.....	1	Supplies:	
Dividers, wing, 8-inch.....	1	Handles—	
Files:		Broad hatchet, 18-inch.....	3
Auger bit, 6-inch.....	2	Chisel, framing, 6-inch.....	3
Rasp, wood, 14-inch.....	2	Hammer, claw, 14-inch.....	3
Taper, saw, 6-inch.....	12	Lines, chalk, 100-foot balls.....	6
Gauge, scratch, wood.....	1	Screws, wood, flat head, bright iron—	
Knife, draw, folding, 10-inch.....	1	$\frac{3}{4}$ inch, No. 6, gross.....	1
Mallet, carpenter's, $5\frac{1}{2}$ by $3\frac{1}{2}$ inches diameter, handled.....	1	$1\frac{1}{2}$ inch, No. 9, gross.....	1
Planes, smooth, iron, 10-inch.....	2	$1\frac{1}{2}$ inch, No. 10, gross.....	1
		$2\frac{1}{2}$ inch, No. 14, gross.....	1

NOTE 4.—Carpenter equipment, field.

	Number.		Number.
Augers, ship, ring, handle:		Mallet, carpenter's, $5\frac{1}{2}$ by $3\frac{1}{2}$ inches in diameter, handled.....	1
$\frac{1}{4}$ -inch.....	1	Oiler, rectangular, reversible spout, compact, $\frac{1}{2}$ -pint.....	1
$\frac{1}{2}$ -inch.....	1	Oilstone, combination, 8 by 2 by 1 inch, mounted.....	1
$1\frac{1}{2}$ -inch.....	1	Plumb bob, iron, $9\frac{1}{2}$ ounces.....	1
Bits:		Rules, boxwood, 2-foot, 4-fold.....	4
Auger, $\frac{1}{2}$ to 1 inch by eighths, set of 7, in roll.....	1	Saws:	
Expansion (one cutter $\frac{1}{2}$ to $1\frac{1}{2}$ inches, and one cutter $1\frac{1}{2}$ to 3 inches).....	1	Crosscut, hand, 26-inch, 6 point.....	5
Screw driver, $\frac{3}{4}$ -inch.....	1	Rip, hand, 26-inch, 6 point.....	1
Screw driver, $\frac{1}{2}$ -inch.....	1	Screw driver, 5-inch blade.....	1
Brace, ratchet, 10-inch sweep.....	1	Set, saw.....	1
Chest, carpenter, field, engineer.....	1	Squares, steel, carpenter's, 24 by 16 inches... 3	3
Chisels:		Tape, metallic, 50-foot, graduated feet and inches.....	3
Cold, $\frac{3}{4}$ -inch, octagon, by 7 inches long... 1	1	Supplies:	
Framing, $1\frac{1}{2}$ -inches, handled.....	1	Chalk, carpenter's, pound.....	1
Framing, 1-inch, handled.....	1	Lines, chalk, 100-foot balls.....	2
Files, taper, saw, 6-inch.....	6	Oil, machine, in pint can.....	1
Hammers, claw, 1-pound head, handled.....	9	Pencils, carpenter's, dozen.....	1
Hatchets, broad, 5-inch double bevel, handled.....	6		
Level, carpenter's, wood, 24-inch.....	1		

NOTE 5.—Demolition equipment, company reserve.

	Number.	Supplies:	Number.
Boxes, cap, engineer.....	4	Caps, blasting, tetryl, non-electric.....	200
Chest demolition, reserve, engineer.....	1	Caps, blasting, tetryl, electric.....	200
Detectors, circuit, engineer.....	2	Cord, detonating, 6 mm., 20-yard spools... 8	8
Exploders, magneto, 30 cap, engineer.....	2	Explosive, TNT, rectangular, pounds... 100	100
Reels, wire, firing.....	2	Fuse, time, feet.....	300
Wire, firing, double lead, No. 14, 1,000 feet coils.....	2		

NOTE 6.—Demolition equipment, field.

	Number.	Supplies—Continued.	Number.
Boxes:		Cord, detonating, 6 mm., 20-yard spools... 2	2
Cap, engineer.....	1	Explosive, TNT, rectangular, pounds... 100	100
Match, tin.....	1	Fuse—	
Chest, demolition, field, engineer.....	1	Time, feet.....	100
Crimpers, cap, with fuse cutter, combination.....	2	Instantaneous, feet.....	100
Drills, cordeau, handled.....	2	Lighters, fuse.....	100
Pliers, side cutting, 8-inch.....	1	Matches, safety, boxes.....	6
Slitters, cordeau.....	2	Tape, friction, $\frac{1}{2}$ -inch wide, insulating, in $\frac{1}{2}$ -pound rolls.....	1
Supplies:		Twine, hemp, 2-ounce ball.....	1
Caps—		Unions, special, detonating cord.....	50
Blasting, tetryl, electric.....	100		
Blasting, tetryl, nonelectric.....	50		

NOTE 7.—*Drafting equipment, company.*

	Number.	Supplies—Continued.	Number.
Board, drawing, 23 by 31 inches, with trestle.	1	Fillers, book, loose leaf, sets of 50 sheets.	6
Books, record, loose leaf, with fillers and indexes.	3	Ink—	
Chest, drafting, company, engineer.	1	Drawing, black, ¼-ounce bottles.	2
Eraser, steel.	1	Drawing, blue, ¼-ounce bottles.	1
Instruments, drawing, office set.	1	Drawing, carmine, ¼-ounce bottles.	1
Measurer, map.	1	India, stick.	1
Protractor, G. S., semicircular, 6-inch.	1	Pads—	
Scales:		Pencil pointing, 1½ by 4 inches.	1
Architect's, triangular, 12-inch, with sheath.	1	Scratch, 6 by 9 inches.	2
Engineer's, triangular, 12-inch, with sheath.	1	Paper—	
Map, metric, flat, 30 cm. graduated 1/20,000, and 1/50,000 with sheath.	1	Blotting, 3½ by 9½ inches, dozen.	1
Shield, erasing.	1	Drawing, sheets, 22 by 30 inches, gross.	1
Slab, ink, slate, rectangular, 5½ by 2 inches with plate glass top.	1	Profile, tracing, 20-inch, 50-yard roll.	1
T-square, steel, 24 inches, with protractor head.	1	Pencils—	
Triangles, xylonite, transparent:		Drawing, H.	6
30°-60°, 10-inch.	1	Drawing, 3H.	6
45°, 8-inch.	1	Drawing, 5H.	6
Tubes, tin, 39 inches long by 4 inches in diameter.	3	Pens—	
Supplies:		Crow-quill, dozen on card, with holder, cards.	1
Cloth, tracing, 30-inch, 24-yard roll.	1	Drawing, 5 points assorted, gross.	1
Erasers—		Mapping, dozen on card, with holder, cards.	1
Rubber, pencil.	2	Pins, cone.	1
Rubber, ink.	1	Tacks, thumb, gross.	2
		Tape, adhesive, transparent, ¼ inch by 12-yard rolls.	2
		Twine, hemp, 2-ounce ball.	1

NOTE 8.—*Drafting equipment, regimental.*

	Number.	Triangles, xylonite, transparent:	Number.
Boards, drawing, 31 by 42 inches, with trestles.	2	30°-60°, 10-inch.	2
Books, record, loose leaf, with fillers and indexes.	6	45°, 8-inch.	2
Chest A, drafting, regimental, engr.	1	Tubes, tin, 39 inches long by 4 inches diameter.	4
Chest B, drafting, regimental, engr.	1	Supplies:	
Chest C, drafting, regimental, engr.	1	Cloth, tracing, 30-inch, 24-yard roll.	2
Dividers, proportional, 8½-inch w/case.	2	Erasers—	
Erasers, steel.	2	Rubber, pencil.	4
Instruments, drawing, office sets.	2	Rubber, ink.	2
Measurers, map.	2	Fillers, book, loose leaf, sets of 50 sheets.	12
Pantograph, hollow brass bars, 28-inch, with case.	1	Ink—	
Protractors, G. S. semicircular, 8 inches, with arm, in case.	2	Drawing, black, ¼-oz. bottles.	4
Rules, slide, Mannheim, 16-inch, with case.	2	Drawing, blue, ¼-oz. bottles.	2
Scales:		Drawing, brown, ¼-oz. bottles.	2
Architect's, triangular, 12-inch, with sheath.	2	Drawing, carmine, ¼-oz. bottles.	2
Engineer's, triangular, 12-inch, with sheath.	2	India, sticks.	2
Map, metric, flat, 30 cm., one graduated 1/20,000 and 1/50,000, the other 1/10,000 and 1/50,000.	2	Pads—	
Shields, erasing.	2	Pencil pointing, 1½ by 4 inches.	2
Slab, ink, slate, rectangular, 5½ by 2 inches with plate-glass top.	1	Scratch, 6 by 9 inches.	4
T-squares, steel, 42-inch, with protractor head.	2	Paper—	
Tables, logarithm, 7-place.	1	Blotting, 3½ by 9½ inches, doz.	2
		Cross section, drawing, 20 inches wide, ruled in green, 10 by 10 to 1 inch, 10-yard roll.	1
		Drawing, 30-inch, 30-yard roll.	2
		Tracing, 30-inch, 10-yard roll.	1
		Wrapping, 40 by 48 inches, doz.	4
		Paste, library, 8-ounce jar.	1

NOTE 8.—*Drafting equipment, regimental*—Continued.

Supplies—Continued.	Number.	Supplies—Continued.	Number.
Pencils—		Pins, cone.....	1
Drawing, H	12	Tacks, thumb, gross.....	6
Drawing, 3H	12	Tape, adhesive, transparent, $\frac{3}{8}$ inch by 12 yard rolls.....	4
Drawing, 5H	12	Twine, hemp, 2-ounce balls.....	2
Pens—			
Crow-quill, dozen on card, with holder, cards.....	2		
Drawings, 5 points, assorted, gross....	2		
Mapping, dozen on card, with holder, cards.....	4		

NOTE 9.—*Electric lighting set, portable engine generator.*

	Number.	Supplies—Continued.	Number
Chest A, electric lighting set, portable engineer.....	1	Fuses—	
Chest B, electric lighting set, portable engineer.....	1	Cartridge, 50-ampere, 250-volt.....	20
Reel A, electric lighting set, portable engineer.....	1	Cartridge, 30-ampere, 250-volt.....	20
Reel B, electric lighting set, portable engineer Set, portable, 4 cylinder, 4-cycle gasoline engine direct connected to a 5 K. W. 125-volt, direct-current electric generator, forming a single unit and suitably mounted on skids, complete with coupling, proper cooling system, gasoline tank, muffler, piping, field rheostat, switchboard, and all necessary tools and spare parts.....	1	Plug, 10-ampere, 125-volt.....	100
Shades, reflectors, metal, conical 8-inch, with holders to fit brass shell sockets.....	80	Insulators, glass, single, groove, 1-inch, internal diameter.....	50
Sockets:		Knobs, split, porcelain, No. 5 $\frac{1}{2}$	200
Key, pendant, cap, 250 watt, 250 volt, standard finish, medium screw base....	100	Lamps—	
Waterproof composition, medium screw base.....	20	Clear, 25-watt, 110-volt, S19 medium base.....	100
Switches:		Frosted bowl, 75-watt, gas filled 110-volt, P S22 medium base.....	50
Entrance, plug fused, 125-volt, 30-ampere, 2-wire.....	12	Loom, circular, $\frac{1}{2}$ -inch, feet.....	25
Knife, 250-volt, 30-ampere, D. P. S. T. cartridge, fusible.....	4	Nailheads, leather, No. 20, pounds.....	2
Knife, 250-volt, 60-ampere, D. P. S. T. cartridge, fusible.....	1	Nails—	
Snap, 10 amperes, 125 volt, slotted base..	20	Wire, common, 10d, pounds.....	4
Supplies:		Wire, common, spikes, 40d, pounds..	6
Brackets, pole, or house, steel, for 1-inch insulators.....	50	Wire, common, spikes, 60d, pounds..	6
Cleats, 2-wire, porcelain, 3 $\frac{1}{4}$ inches long, pairs.....	800	Oil, engine, medium, gallons.....	5
Cord, lamp, No. 16, copper, stranded, 2-conductor, rubber insulated, cotton braid, feet.....	800	Screws, wood, flat head, bright iron—	
		2 $\frac{1}{2}$ -inch, No. 8, gross.....	5
		2-inch, No. 8, gross.....	8
		1 $\frac{1}{2}$ -inch, No. 7, gross.....	1
		Tape—	
		Insulating, friction, $\frac{3}{4}$ -inch wide, in $\frac{1}{2}$ -pound rolls.....	24
		Rubber, $\frac{3}{4}$ -inch wide, in $\frac{1}{2}$ -pound rolls..	2
		Tubes, porcelain, 3 by $\frac{1}{4}$ inch.....	40
		Wire—	
		Copper, No. 14 B. & S. gauge, rubber-covered, single conductor, solid, feet. 3,000	
		Copper, No. 8 B. & S. gauge, waterproof, double braid, single conductor, solid, feet.....	2,000

NOTE 10.—*Electric lighting set, storage battery.*

(Issued only when directed by the War Department.)

	Number.		Number.
Ammeter, 0-50 ampere, D. C., portable switchboard type.....	1	Reel, electric lighting set, storage battery engr.	1
Batteries, ¹ storage, 2-cell, Signal Corps, type BB 28, 2 per lighting unit (see footnote)..	24	Rheostat, for charging 2 to 24, 4-volt storage batteries from 125-volt source at 4 to 40 ampere hour rate (similar to Ward & Leonard universal battery charging rheostat type U. R. 140).....	1
Chest, electric lighting set, storage battery engr.....	1	Sockets, key, for candelabra base, single contact lamp.....	50
Hydrometer, syringe, for lead-acid storage batteries.....	1		

¹ Edison batteries, type A4 or A8 may be issued until supply is exhausted.

NOTE 10.—*Electric lighting set, storage battery—Continued.*

Switches:	Number.	Supplies—Continued.	Number.
Knife, 30 ampere, 125-volt, D. P. S. T., back connected with fuse connections..	1	Lamps, 6-8 volts, 2.5 ampere, gas filled, candelabra base, single contact.....	100
Snap, 10 ampere, 125 volt, slotted base....	10	Tape, insulating, friction, $\frac{1}{2}$ -inch wide, $\frac{1}{2}$ pound rolls.....	10
Voltmeter, D. C., double scale, 0-15 and 0-150 volts, portable switchboard type.....	1	Wire—	
Supplies:		Inside twisted pair, solid, two conductor, rubber insulated, cotton braid, No. 18 copper, feet.....	250
Clips, Fahnstock, gross.....	1	Copper, No. 8 B. & S., weatherproof, double braid, single conductor, solid, feet.....	1,000
Cord, lamp, No. 16 B. & S. gauge, stranded two conductor rubber insulated, cotton braid, feet.....	200		
Knobs, split, porcelain, W. E. Midget reversible.....	200		

NOTE 11.—*Electric lighting set, mounted troops.*

	Number.	Supplies—Continued.	Number.
Chest, electric lighting set, light portable, engineer.....	1	Knobs, split porcelain, midget, reversible	100
Reel, electric lighting set, light portable, engineer.....	1	Lamps, 6-8 volt, 2.5 ampere, gas filled, candelabra base, single contact.....	200
Sockets, key, candelabra base, single contact lamp.....	100	Loom, circular, $\frac{1}{4}$ -inch, feet.....	25
Switches:		Nailheads, leather, No. 20, pounds.....	2
Entrance, plug fused, 125 volt, 30 ampere, 2-wire.....	10	Nails—	
Snap, 10 ampere, 125 volt, slotted base....	20	Wire, common, 10d, pounds.....	4
Set, portable, gasoline engine direct connected to a 2 K. W. generator, light weight Signal Corps type.....	1	Wire, common, spikes, 40d, pounds..	6
Supplies:		Oil, engine, medium, gallons.....	5
Brackets, pole or house, steel, for 1-inch insulators.....	25	Screws, wood, flat head, bright iron—	
Cleats, 2-wire, porcelain, $3\frac{1}{4}$ inches long, pairs.....	400	$2\frac{1}{2}$ inch, No. 8, gross.....	5
Cord, lamp, No. 16 B. & S. gauge, stranded, 2 conductor, rubber insulated, cotton braid, feet.....	400	$2\frac{1}{4}$ -inch, No. 7, gross.....	1
Fuse, plug, 30 ampere, 250 volt.....	50	Tape—	
Insulators, glass, single groove, 1-inch internal diameter.....	25	Insulating, friction, $\frac{1}{2}$ -inch wide, $\frac{1}{2}$ pound rolls.....	24
		Rubber, $\frac{1}{2}$ -inch wide, $\frac{1}{2}$ pound rolls..	2
		Wire—	
		Copper, No. 14 B. & S. gauge, rubber covered, single conductor, solid, feet	1,000
		Copper, No. 8 B. & S. gauge, water-proof, double braid, single conductor, solid, feet.....	1,000

NOTE 12.—*Foot bridge, Lampert, portable.*

(One unit, 285 feet of bridge.)

Cables:	Number.	Tools, set—Continued.	Number.
Anchorage, $\frac{1}{2}$ -inch wire rope, 175 feet.....	2	Hammers, claw, 1 pound head, handled.	2
Anchorage, $\frac{1}{2}$ -inch wire rope, 300 feet.....	1	Hatchets, broad, 5-inch double bevel, handled.....	2
Covers, canvas, with lashings.....	26	Saws, crosscut, hand, 26-inch, 6 point....	2
Frames, boat.....	24	Supplies:	
Hooks, boat, 8 feet, blunt point.....	2	Bolts—	
Hooks, lashing, canvas cover.....	36	Machine, $\frac{1}{2}$ by $2\frac{1}{2}$ inches, with nut and washers.....	5
Mauls, wood, handled, 36-inch.....	1	Machine, $\frac{1}{2}$ by $3\frac{1}{2}$ inches, with nut and washers.....	5
Paddles, 6 feet long.....	3	Machine, $\frac{1}{2}$ by $4\frac{1}{2}$ inches, with nut and washers.....	5
Posts, hand rail.....	27	Stove, flat head, $\frac{1}{2}$ by 3 inches, with nut and washer.....	25
Saddle pieces for launching first boat.....	2		
Sections, floor.....	25		
Stakes, 20-inch.....	12		
Tools, set:			
Auger, ship, ring, $\frac{1}{4}$ -inch, handled.....	1		
Auger, ship, ring, $\frac{1}{4}$ -inch, handled.....	1		

NOTE 12.—Foot bridge, Lampert, portable—Continued.

Supplies—Continued.		Number.	Supplies—Continued.		Number.
Bolts—Continued.					
Stove, flat head, $\frac{3}{8}$ by $3\frac{1}{2}$ inches, with nut and washer.....		25	Rope, manila—Continued.		
Screws, wood, flat head, bright iron—			Hand-rail, $\frac{3}{8}$ -inch diameter by 175 feet.....		1
$\frac{1}{2}$ -inch, No. 10, gross.....		1	Hand-rail, $\frac{3}{8}$ -inch diameter by 300 feet.....		1
$1\frac{1}{2}$ -inch, No. 10, gross.....		1	Lashings, $\frac{1}{2}$ -inch diameter by 10 feet.....		14
2-inch, No. 10, gross.....		1	Lashings, anchor, $\frac{3}{8}$ -inch diameter by 25 feet.....		26
$3\frac{1}{2}$ -inch, No. 10, gross.....		1	Lashings, canvas cover, $\frac{3}{8}$ -inch diameter by 22 feet.....		6
Rope, manila—					
Guy-lines, $\frac{1}{2}$ -inch diameter by 200 feet.....		5			

NOTE 13.—Illuminating equipment.

(Gasoline lantern.)

	Number.	Supplies:	Number.
Box, lantern.....	1	Alcohol, denatured, quart.....	1
Lanterns, gasoline.....	2	Gasoline, gallons, in 5 gal. can.....	5
		Mantles, gas, dozen.....	2

NOTE 14.—Intrenching equipment, Cavalry.

	Number.	Saws—Continued.	Number.
Axes, 4-lb., head, single bit, double bevel, 36-inch handles.....	13	Crosscut, hand, 36-inch, with supplemental handles, one man.....	7
Bars, pinch, about 4 feet 8 inches long, 12-lb..	2	Set, saw.....	1
Boxes:			
Axe.....	1	Shovels, D-handled, round point.....	130
One man, 36-inch c. c. saw.....	1	Tape, metallic, 50 ft., grad. in feet and inches	1
Tool grinder, etc.....	1	Tool, crosscut, saw.....	1
Files:			
Crosscut saw, blunt, 8-inch.....	1	Supplies:	
Taper, saw, 6-inch.....	3	Bags, sand, with binders.....	500
Grinder, tool, bench, 6 by $1\frac{1}{2}$ inches, wheel...	1	Handles—	
Maul, wood, handled, 36-inch.....	1	Axe, single bit, 36-inch.....	2
Mattocks, pick, large, handled, 36-inch.....	65	Mattocks, pick, large, 36-inch.....	6
Saws:			
Crosscut, hand, 26-inch, 6 point.....	6	Nails—	
		Wire, common, 10d, kegs.....	1
		Wire, common, spikes, 40d, kegs.....	1
		Tape, tracing, white, feet.....	3,000

NOTE 15.—Intrenching equipment, Infantry.

	Number.		Number.
Axes, 4-lb. head, single bit, double bevel 36 inch handles.....	36	Set, saw.....	1
Bars, pinch, 4 feet 8 inches long, 12-lbs.....	4	Shovel, D-handled, round point.....	250
Boxes:			
Axe.....	2	Tape, metallic, 50-foot, graduated in feet and inches.....	1
26-inch hand saw.....	1	Tool, crosscut saw.....	1
One-man, 36-inch c. c. saw.....	1	Supplies:	
Tool grinder, etc.....	1	Bags, sand, with binders.....	500
Files:			
Crosscut saw, blunt, 8-inch.....	3	Handles—	
Taper, saw, 6-inch.....	6	Axe, single bit, 36-inch.....	3
Grinder, tool, bench, 6 by $1\frac{1}{2}$ inch wheel.....	1	Mattock, pick, large, 36-inch.....	10
Mattocks, pick, large, handled.....	125	Nails—	
Maul, wood, handled, 36-inch.....	1	Wire, common, 10d, keg.....	1
Saws:			
Crosscut, hand, 26-inch, 6 point.....	13	Wire, common, spikes, 40d, keg.....	1
Crosscut, one-man, 36-inch, with supplemental handles.....	13	Tape, tracing, white cotton, feet.....	3,000

NOTE 16.—*Map reproduction equipment, blue printing.*

Number.	Supplies, paper:	Number.
Chest, blue printing, engineer..... 1	Blue print, 30-inch, 50-yard rolls..... 6	
Frame, printing, 24 by 30 inches..... 1	Brown print, 30-inch, 10-yard rolls..... 1	
Tray, zinc, 24 by 30 inches..... 1		
Tubes, tin, 39 by 4 inches diameter..... 2		

NOTE 17.—*Map reproduction equipment, cyclostyle.*

Number.	Supplies—Continued.	Number.
Chest, cyclostyle, engineer..... 1	Ink, cyclostyle (neostyle)—	
Cloth, wire, bronze, 160-mesh, 17 by 22 inches, sheets..... 1	Black, 1-pound tubes..... 5	
Cyclostyle, consisting of a printing base mounted with a plate glass and a hinged stretcher frame 17½ by 22½ inches..... 1	Blue, 1-pound tubes..... 5	
Frames, stretcher, for wax stencil and silk... 5	Green, 1-pound tubes..... 5	
Pencils (styli), agate (1 sharp, 1 medium, and 1 blunt point)..... 3	Red, 1-pound tubes..... 5	
Plate, inking, zinc, ¼ by 12 by 16 inches..... 1	Yellow, 1-pound tubes..... 5	
Rollers, composition, inking, hand, 14-inch... 2	Paper, ¹ map, 17 by 22 inches, reams..... 3	
Supplies:	Silk, white, fine mesh, 20 by 26 inches, sheets..... 6	
Celluloid, transparent, 20 by 25 inches, sheets..... 2	Stencils, wax paper, plain, autographic, No. 6, elephant, 20 by 30 inches, sheets... 48	

NOTE 18.—*Map reproduction equipment, duplicator.*

Number.	Supplies—Continued.	Number.
Chest, duplicator, engineer..... 1	Paper—	
Holder, duplicator film, engineer..... 1	Book, 19 by 24 inches, ream..... 1	
Supplies:	Carbon, hectograph, 8½ by 11 inches, box..... 1	
Films, gelatine, duplicator, printing surface, 19½ by 23½ inches..... 15	Pencils, hectograph, gross..... ½	
Ink, hectograph—	Ribbons, hectograph, single color (purple)..... 6	
Black, 1-ounce bottles..... 6	Ribbons, hectograph, double color (purple and red)..... 6	
Blue, 1-ounce bottles..... 6	Sponge, small..... 1	
Green, 1-ounce bottles..... 6		
Purple, 1-ounce bottles..... 6		
Red, 1-ounce bottles..... 6		

NOTE 19.—*Map reproduction equipment, lithographic.*

Number.	Needles, etching:	Number.
Bottles, glass, 1-quart..... 7	No. 1, round..... 6	
Bowls, earthenware, 2-quart..... 2	No. 2, square..... 4	
Boxes, tin, 4 by 4 by 7 inches..... 4	No. 3, scraping..... 3	
Brushes:	No. 5, round..... 6	
Varnish, flat, 3-inch..... 1	No. 6, scraping..... 3	
Camel hair, Nos. 4, 5, 6, and 7, set of 4..... 1	Outfit, enlarging, map, complete with lens..... 1	
Cans, galvanized iron, rectangular, 3-gallon... 2	Plates:	
Chest, lithographic (3 sections)..... 1	Inking, zinc, ¼ by 12 by 16 inches..... 2	
Graduate, 16-ounce..... 1	Zinc, grained, 22 by 28 inches, 0.024 inch thick..... 20	
Grips, roller, pair..... 1	Press, lithographic, hand..... 1	
Hones, Scotch, unmounted, 1 by 2 by 8 inches. 2	Rod, stirring, hard rubber..... 1	
Instruments, drawing, litho., set..... 1	Rollers, leather, medium grain, 14-inch..... 2	
Knives:	Scales, photographic (grains and ounces)..... 1	
Butcher (scraping), blade, 6 inches long, boxwood handle..... 1	Screw driver, 3-inch blade..... 1	
Putty (mixing), blade, 1½ by 3½ inches, boxwood handle..... 2	Shears, 16-inch..... 1	
Lamp, ruby, No. 0..... 1	Stove, oil, single burner..... 1	
Manuals, map reproduction in the field..... 5	Timer, photographer's..... 1	

¹The paper, map, size 17 inches by 22 inches, to be cut by the operator, from the size 19 inches by 24 inches which shall be issued from stock until the supply of this size is exhausted.

NOTE 19.—*Map reproduction equipment, lithographic—Continued.*

	Number.	Supplies—Continued.	Number.
Tray, zinc, 2½ by 24 by 30 inches (inside coated with mogul paint).....	2	Oil, kerosene, gallons.....	3
Trays, galvanized iron, 36 by 48 inches (painted inside with asphaltum paint).....	3	Paper—	
Triangles, Xylonite, transparent:		Blotting, 19 by 24 inches, doz.....	6
30°-60°, 10-inch.....	1	Bromide, P. M. C., No. 5, 36 inches wide, in 50-yard rolls.....	4
45°, 8-inch.....	1	Map, smooth finish, 19 by 24 inches, reams.....	5
T-square, 24-inch, steel blade, protractor head..	1	Transfer, autographic, transparent, 17 by 22 inches, gross.....	2
Whirler, plate.....	1	Transfer, nontransparent, 17 by 22 inches, gross.....	½
Wrench, monkey, 6-inch.....	1	Pins, push, glass, doz.....	3
Supplies:		Potassium bromide, pounds.....	2
Acid—		Powder, talcum, pounds.....	1
Chromic, C. P., pounds.....	2	Powder, hypo, acid, pounds.....	50
Phosphoric, 85 per cent, lbs.....	2	Pumice, powdered, pounds.....	5
Hydrochloric, pounds.....	6	Rosin, powdered, in carton, lbs.....	3
Acrol, pounds.....	3	Slips, etching, gamburger.....	6
Albumen, egg, pounds.....	2	Soda, caustic, in cans, pounds.....	5
Ammonium bichromate, pounds.....	1	Soda, sulphite, pounds.....	15
Ammonia, caustic, pints.....	1	Sponges, sheep wool, large.....	3
Asphaltum, lump, pounds.....	10	Tallow, mutton, refined, ounces.....	4
Beeswax, white, ounces.....	6	Tacks, thumb, gross.....	2
Celluloid, ruby, 5-inch by 7-inch sheet.....	1	Touche, liquid, 4-ounce bottles.....	2
Cheesecloth, white, yards.....	400	Turpentine, gallons.....	3
Cotton, absorbent, pounds.....	3	Varnish, (00) litho., pint.....	1
Dye, aniline, pounds.....	1	Wicks, oil stove, dozen.....	½
Glue, liquid, photographers, quarts.....	4		
Gum, arabic, pounds.....	25		
Ink—			
Hand press, black, pounds.....	3		
Printing, bright vermilion, lbs.....	1		

NOTE 20.—*Office equipment, company.*

	Number.	Books, reference—Continued.	Number.
Books, reference:		Electrical Engineers' Pocketbook, Foster, or Handbook for Electrical Engineers, Pender.....	1
Architects' and Builders' Pocketbook, Kidder.....	1	Supplies:	
Civil Engineers' Pocketbook, Trautwine, or American Civil Engineers' Pocketbook.....	1	Books, duplicating, 4 by 6 inches.....	12

NOTE 21.—*Office equipment, regimental.*

	Number.	Books, reference—Continued.	Number.
Books, reference:		Handbook of Explosives, Dupont Co....	1
American Handbook for Electrical Engineers, Pender (or Electrical Engineers' Pocketbook, Foster).....	1	Highway Engineers' Handbook, Harger & Bonney.....	1
Architects and Builders' Pocketbook, Kidder.....	1	Manual of American Railways Association.....	1
Automobile Handbook, Brooks.....	1	Mechanical Engineers' Pocketbook, Kent or Marks.....	1
Building Estimators' Reference Book, Walker.....	1	Metric Conversion Tables.....	1
Civil Engineer Handbook, Trautwine....	1	Modern Gas Automobile, Page.....	1
English Dictionary, small, Funk & Wagnalls, desk.....	1	Ready Reference Tables, Carl Hering....	1
Formulas and Tables for Engineers, Pierce & Carver.....	1	Steam-Power Plant Engineering, Gebhardt.....	1
Handbook of Chemistry and Physics, Chemical Rubber Co., Cleveland, Ohio (or Engineering Chemistry, Stillman) ..	1	Surveying, Johnson & Smith.....	1
Handbook of Construction Plant, Dana..	1	Waterworks Handbook, Flynn, Weston & Bogar.....	1
		Box, book, pressed steel.....	1

NOTE 22.—Pack equipment, Engineer.

Pack No. 1.	Number.	Packs No. 2 and No. 3. ¹	Number.
Augers, ship, ring, $\frac{1}{2}$ -inch, handled.....	2	Augers, ship, ring, $\frac{1}{2}$ -inch, handled.....	1
Awls, stitching, handled.....	1	Bars, pinch, $\frac{1}{2}$ -inch by 26-inch, 3 $\frac{1}{2}$ -pound.....	1
Bags, canvas:		Boxes:	
Carpenter.....	1	Cap, engineer.....	2
Harness makers' small stores.....	1	Match, tin.....	2
Nail, 10-pound.....	2	Pack, No. 2 or 3, engineer.....	2
Nail, horsehoe, 3 pound size.....	1	Chisels, cold, $\frac{1}{2}$ -inch by 7-inch long, octagonal.....	1
Bits:		Cinchas, pack, engineer.....	1
Auger, $\frac{1}{2}$ -inch to 1-inch by 8ths, set of 7 in roll.....	1	Crimpers, cap, with fuse cutter, combination.....	2
Screw driver, $\frac{1}{2}$ -inch.....	1	Drills, cordeau, handled.....	2
Boxes, pack No. 1, engineer.....	2	Knives, clasp.....	2
Braços, ratchet, 10-inch sweep.....	1	Pliers, side-cutting, 8-inch.....	2
Case, canvas, for shoeing knife.....	1	Roll, canvas strip 15 by 36-inch.....	1
Chisels:		Saddle, pack, engineer.....	1
Framing, $\frac{1}{2}$ -inch, handled.....	1	Slitters, cordeau.....	2
Framing, 1-inch, handled.....	1	Supplies:	
Framing, 2-inch, handled.....	1	Caps, blasting, tetryl, nonelectric.....	100
Cinchas, pack, engineer.....	1	Cord, detonating, 6 mm. 20-yard spools..	4
Drills, stone, hand, single bit, 1-inch by 18-inches, $\frac{1}{2}$ -inch bit.....	2	Explosive, TNT, 80 rectangular and 10 cylindrical, pounds.....	90
Files, flat bastard, 12-inch.....	1	Fuse, time, feet.....	200
Hammers:		Lighters, fuse.....	60
Claw, 1-pound head, handled.....	2	Matches, safety, boxes, dozen.....	1
Farrier's, 10-ounce head, handled.....	1	Rope, manila, $\frac{1}{2}$ -inch, diameter, 18-foot lashings.....	1
Hatchets, broad, 5-inch double bevel, handled.....	4	Twine, hemp, 2-ounce balls.....	2
Knife, shoeing.....	1	Unions, detonating cord.....	24
Nippers, shoeing, 12-inch.....	1	Wire, copper, No. 30, $\frac{1}{4}$ -pound spools....	2
Pincers, shoeing, 12-inch.....	1		
Pliers, side-cutting, 8-inch.....	2		
Punch, revolving, 4-tube.....	1		
Rasp, shoeing, 16-inch.....	1		
Rolls, canvas:		Pack No. 4.	
For carpenter's tools, 21 by 33 inches.....	1	Axes, 4-pound head, single bit, double bevel, handled, 36 inches.....	6
For harness makers' tools, 12 by 27 inches.....	1	Boxes, pack, No. 4, engineer.....	2
For horsehoe's tools, 26 by 28 inches.....	1	Cincha, pack, engineer.....	1
Saddle, pack, engineer.....	1	Mattocks, pick, E. D. mining, handled.....	10
Saws, crosscut, hand, 20-inch, 6 point.....	2	Saddle, pack, engineer.....	1
Set, rivet, set of 3, Nos. 1-3-5.....	1	Shovels, E. D. mining.....	10
Squares, steel, carpenters', 24 by 16 inches.....	1	Sledge, 8-pound, handled.....	2
Tapes, metallic, 50-foot, graduated in feet and inches.....	1		
Wrenches, monkey, 12-inc.... h.....	1	Pack No. 5.	
Supplies:		Blocks, steel:	
Beeswax, yellow, ounces.....	2	6-inch, double.....	2
Bolts, drift, $\frac{1}{2}$ -inch by 16 inches.....	40	6-inch, single.....	2
Chalk, carpenter's, pound.....	$\frac{1}{2}$	6-inch, snatch.....	2
Lines, chalk, 40-foot, hanks.....	2	Boxes, pack, No. 5, engineer.....	2
Nails—		Cincha, pack, engineer.....	1
60d, wire, common, spike, pounds....	10	Hatchets, broad, 5-inch, double bevel, handled.....	2
16d, wire, common, pounds.....	10	Machetes, with sheaths.....	10
Horseshoe, No. 6, pounds.....	1 $\frac{1}{2}$	Saddle, pack, engineer.....	1
Horseshoe, No. 7, pounds.....	1 $\frac{1}{2}$	Saws:	
Needles, harness, No. 4, No. 5, and No. 6 assorted, papers.....	2	Crosscut, folding, with canvas cases.....	2
Pencils, carpenter's, dozen.....	$\frac{1}{2}$	Crosscut, hand, 20-inch, 6 point.....	2
Rivets, copper, assorted—		Supplies:	
$\frac{1}{2}$ -inch, No. 10, pounds.....	$\frac{1}{2}$	Rope, manila, $\frac{1}{2}$ -inch diameter, 200-foot coils.....	2
1-inch, No. 8, pounds.....	$\frac{1}{2}$	Rope, manila, $\frac{1}{2}$ -inch diameter, 18-foot lashings.....	2
$\frac{1}{2}$ -inch, No. 6, pounds.....	$\frac{1}{2}$		
$\frac{1}{2}$ -inch, No. 6, pounds.....	$\frac{1}{2}$		
Shoes, mule, (3) No. 4 and (3) No. 5.....	6		
Thread, harness, No. 10, 2-ounce balls....	1		

¹ Pack No. 2 and 3 are identical, numbers represent amounts in each pack.

NOTE 23.—*Photographic equipment, company.*

	Number.	Supplies:	Number.
Camera, 3-A, autographic.....	1	Album, film, negative, 3½ by 5½ inches...	1
Manuals, Military Photography.....	1	Book, note, photographic.....	1
Release, cable.....	1	Films, ¹ camera, autographic, 3½ by 5½	
Tripod, metal, folding, No. 1.....	1	inches, rolls of 6 exposures.....	24

NOTE 24.—*Photographic equipment, regimental.*

	Number.	Supplies:	Number.
Blankets, rubber.....	2	Albums, film, negative, 3½ by 5½ inches..	4
Brush, spotting.....	1	Alcohol, denatured, quart.....	1
Buckets, canvas.....	2	Books, note, photographic.....	4
Camera, 3-A Graflex, with case.....	1	Cheesecloth, white, yard.....	6
Chest, photographic, engineer.....	1	Clips, photo, dozen.....	4
Frames, printing, 5 by 7 inches.....	2	Cotton, absorbent, pounds.....	2
Graduate, glass, 8-ounce.....	1	Developer—	
Lamp, ruby, No. 2.....	1	Ideal, M. Q. tubes.....	96
Manuals, Military Photography.....	5	Pyro, tank, boxes.....	50
Rods, stirring, hard rubber.....	2	Films, ¹ camera, autographic, 3½ by 5½	
Shears, 8-inch.....	1	inches, rolls of 6 exposures.....	48
Tank, developing, film, 3½-inch, complete,		Formaline, pounds.....	2
with extra solution cup, reel, and apron..	1	Hypo, acid, in ½-pound boxes.....	24
Thermometer, photographic.....	1	Intensifier, tubes.....	12
Trays, agate:		Opaque, tubes.....	2
3½ by 7½ by 1½ inches.....	1	Paper, developing, 3½ by 5½ inches, gross..	12
7½ by 9½ by 1½ inches.....	1	Pins, push, dozen.....	4
8½ by 10½ by 1½ inches.....	1	Potassium bromide, tabloid, tubes.....	12
10½ by 12½ by 2 inches.....	1	Reducer, tubes.....	12
Tripods, Crown No. 2, folding.....	1	Skin, chamois, about 8 by 10 inches.....	1
		Twine, hemp, 2-ounce ball.....	1
		Wicks, ruby, lamp, dozen.....	½

NOTE 25.—*Pioneer equipment, company reserve.*

	Number.		Number.
Bars, pinch, 4 feet 8 inches long, 12-pound...	4	Wedges, splitting, steel, 5-pound.....	2
Blocks, steel, double, 8-inch.....	2	Supplies:	
Box, ax.....	1	Canvas, 36 inches wide, No. 10, yards.....	10
Drills:		Handles—	
Stone, hand, single-bit, 1 by 18 inches,		Adze, 32-inch.....	2
1½-inch bit.....	6	Ax, 36-inch.....	6
Stone, hand, single-bit, 1 by 30 inches,		Sledge, 36-inch.....	6
1½-inch bit.....	6	Hammer, napping, 16-inch.....	6
Stone, hand, single-bit, 1 by 48-inches,		Nails—	
1½-inch bit.....	3	Wire, common spike, 60d, keg.....	1
Hammers, napping, 3-pound, handled.....	6	Wire, common spike, 10d, keg.....	1
Jacks, screw, 10-ton.....	4	Rope, manila, 1 inch diameter, 250 feet	
Peavies, handled.....	4	coils.....	2
Sledges, 8-pound, handled.....	4		

NOTE 26.—*Pioneer equipment, field.*

	Number.		Number.
Adzes, handled, 32-inch.....	2	Chain, log, 14-foot, ¾-inch iron.....	1
Auger, earth mining drill, 2-inch, sectional.....	1	Chest, tool, Pioneer, engineer.....	1
Axes, 4-lb. head, single bit, double, bevel,		Climbers, lineman's, complete, pair.....	1
handled, 36-inch.....	13	Come-alongs.....	2
Bars:		Cutters, wire, ¾-inch capacity.....	3
Pinch, 4 feet 8 inches long, 12-lb.....	1	Drills:	
Wrecking, claw and gooseneck, 30-inch....	1	Stone, hand, single-bit, 1 by 18 inches, 1½-	
Wrecking, claw and pinch point, 30-inch... 1		inch bit.....	1
Blocks, steel:		Stone, hand, single-bit, 1 by 30 inches, 1½-	
Double, 3-inch.....	2	inch bit.....	1
Snatch, 8-inch.....	1	Stone, hand, single-bit, 1 by 48 inches, 1½-	
Boxes:		inch bit.....	1
Axe.....	2	Frame, hacksaw, adjustable, 12-inch.....	1
Tool grinder, etc.....	1	Grinder, tool, 6 by 1½-inch wheel.....	1

¹ Being subject to deterioration, only sufficient for immediate use will be kept on hand, except when taking the field, when full quantities should be carried.

NOTE 26.—*Pioneer equipment, field—Continued.*

	Number.	Supplies:	Number.
Hammers, mason's, 3-pound, handled.....	2	Blades, hacksaw, 12-inch, 14 teeth, dozen.....	1
Machetes, with sheaths.....	6	Bolts, drift, $\frac{1}{2}$ inch by 16 inches.....	40
Mattocks, pick, large, handled.....	3	Crayons, lumber, blue, gross.....	$\frac{1}{2}$
Manls, wood, handled, 36-inch.....	2	Crayons, lumber, red, gross.....	$\frac{1}{2}$
Oiler, with reversible spout, rectangular, compact, $\frac{1}{2}$ -pint.....	1	Handles, pick, drifting, 36-inch.....	2
Picks:		Pick, railroad, 36-inch.....	6
Drifting, handled.....	2	Saw, 2-man, pair.....	2
Railroad, handled.....	15	Sledge, 36-inch.....	4
Pliers, side-cutting, 8-inch.....	9	Marline, 10-pound coils.....	1
Saws, crosscut, two-man, handled, 5 feet.....	2	Nails, wire, common—	
Shovels:		Spike, 60d, pounds.....	50
D-handled, round point.....	25	Spike, 30d, pounds.....	25
Long-handled, round point.....	6	10d, pounds.....	25
Sledge, 8-pound, handled.....	2	8d, pounds.....	10
Spoon, miner's, 56 inches long.....	1	Oil, machine, in pint can.....	1
Tool, crosscut saw.....	1	Rope, manila—	
Trowel, mason's, 10-inch blade.....	1	1-inch diameter, 250-foot coil.....	6
Wrenches:		$\frac{1}{2}$ -inch diameter, 50-foot lashings.....	1
Monkey, 8-inch.....	1	$\frac{1}{2}$ -inch diameter, 18-foot lashings.....	25
Monkey, 12-inch.....	3	Tape, tracing, white, rolls of 500 feet.....	3
Monkey, 18-inch.....	1		
Stillson, 18-inch.....	2		

NOTE 27.—*Pipefitting tools.*

	Number.		Number.
Chest, pipefitting tools.....	1	Stock and dies, pipe, adjustable, $1\frac{1}{2}$, $1\frac{1}{4}$, and 2 inches, set.....	1
Cutter, pipe No. 2.....	1	Vise, pipe, $\frac{1}{2}$ inch to 2 inches, hinge type.....	1
Frame, hacksaw, adjustable, 12-inch.....	1	Wrench, pipe, 14-inch.....	1
Hammer, ball pein, $1\frac{1}{2}$ -pound, handled.....	1	Wrench, pipe, 18-inch.....	1
Oiler, rectangular, with reversible spout, $\frac{1}{2}$ -pt.....	1	Supplies:	
Pliers, 8-inch, slip joint.....	1	Blades, hack saw, 12-inch, 14 teeth, dozen.....	1
Reamer, burring, spiral fluted, T-handle, $\frac{1}{2}$ to 2 inches.....	1	Dies, pipe, $\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{4}$, and 1 inch, set.....	1
Rule, hardwood, spring, joint, 4 ft., 8 fold.....	1	Dies, pipe, $1\frac{1}{2}$, $1\frac{1}{4}$, and 2 inch, set.....	1
Screws, lag, sq. head, gimlet point $\frac{1}{2}$ inch by 3 inches.....	4	Lead, white, in 1-lb. can.....	1
Stock and dies, pipe, adjustable, $\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{4}$ and 1 inch, set.....	1	Oil, machine, 1 gal. can.....	1

NOTE 28.—*Sign-painting equipment.*

	Number.	Supplies:	Number.
Brushes:		Oil, linseed, boiled, gallons, in can.....	1
Sign writing, $\frac{1}{2}$ -inch.....	2	Paper, stencil, oiled, sheets, 8 by 36 inches.....	20
Sign writing, $\frac{3}{4}$ -inch.....	4	Paint, ground in oil, ready mixed—	
Sign writing, $\frac{1}{2}$ -inch.....	4	Black, in quart cans, quarts.....	4
Paint, 3-inch, flat.....	4	Cherry red, in quart cans, quarts.....	2
Sash, 1-inch, flat.....	2	Outside white, in quart cans, quarts.....	8
Stencil, $\frac{1}{2}$ -inch, round.....	2	Light yellow, in quart cans, quarts.....	8
Varnish, 2-inch, flat.....	1	Tacks, carpet, No. 8, papers.....	4
Chest, sign painting, engineer.....	1	Terneplate, 26-gauge, 12 by 24 inches, sheets.....	30
Crate, sign painting, engineer.....	1	Turpentine, gallon, in can.....	1
Knife, putty, $1\frac{1}{2}$ by $3\frac{1}{2}$ inch blade.....	1	Varnish, spar, gallon, in can.....	1
Stencils:			
Brass, 5-inch, A to Z; 0 to 9, set.....	1		
Brass, 3-inch, A to Z; 0 to 9, set.....	1		
Brass, $1\frac{1}{2}$ -inch, A to Z; 0 to 9, set.....	1		

NOTE 29.—*Sketching outfit.*

	Number.	Supplies:	Number.
Alidade, triangular, boxwood, 8 $\frac{1}{2}$ inches.....	1	Celluloid, sheets, 12 $\frac{1}{2}$ by 13 $\frac{1}{2}$ inches.....	12
Board, sketching, with W. P. cover.....	1	Erasers, rubber, pencil.....	4
Chest, sketching outfit.....	1	Paper, sketching, gross.....	$\frac{1}{2}$
Clinometer, service, with case.....	1	Pencils—	
Compass, prismatic, luminous dial, with case.....	1	Drawing, H.....	16
Strap, wrist.....	1	Protectors, pencil point.....	4
Tally, pace.....	1	Tape, adhesive, transparent, $\frac{1}{2}$ inch by 12 yards, rolls.....	3
Tripod, wood, folding.....	1		

NOTE 30.—*Surveying equipment, regimental.*

	Number.		Number.
Barometers, aneroid, 2½ inches diameter, altitude scale 6,000 feet, with cases	2	Sextant, pocket, with case	1
Computers, stadia, graduated in degrees	3	Tapes, steel, 100-foot, graduated in feet, 10ths, and 100ths, one side; links on other	3
Kits, repair, steel tape	2	Transits, mountain and mining, reading to minutes, complete with extension-leg tripod	2
Levels, engineer's, dumpy, complete with tripod	2	Transits, pocket, Brunton, outfit complete, consisting of 1 transit, pocket, Brunton; 1 case, leather, combination, with sling strap, for transit, tripod head, and tripod; 1 head, tripod, ball and socket; 1 protractor, alidade, Brunton; 1 tripod, tubular extension, Brunton	2
Levels, locator's hand	6	Supplies:	
Odometers, with cases	2	Books—	
Planetable outfit, engineer, complete, consisting of drawing board, 24 by 31 inches, with tripod attachment, and canvas-covered carrying case; Johnson movement split-leg tripod; plumbing arm and 10-ounce brass plummet; alidade, telescopic, with stadia arc and stadia wires	1	Level	4
Plumb bobs, brass, 10-ounce	2	Note, field	16
Protractors, rectangular, xylonite, 6 by 1½ by ¼ inch	4	Transit	6
Rods, level, Philadelphia, graduated in feet and tenths	4	Cloth—	
Rods, stadia, 12-foot, folding	6	Muslin, signal, red, yards	30
Rule, slide, Mannheim, 18-inch, with case	1	Muslin, signal, white, yards	30
		Paper, planetable, 22 by 30 inches, sheets, dozen	2

NOTE 31.—*Surveying equipment, mounted troops.*

	Number.		Number.
Computers, stadia, graduated in degrees	1	Tapes, steel, 100 feet, graduated in feet, 10ths, and 100ths, one side; links on the reverse side	2
Kits, repair, steel tape	1	Transits, mountain and mining, reading to minutes, complete with extension leg tripod	1
Level, engineer's, dumpy, complete with tripod	1	Supplies:	
Levels, hand, locators	1	Books—	
Plumb bobs, brass, 10-ounce	1	Transit	4
Rods, stadia, 12 foot, folding, graduated in feet and tenths	2	Level	4
Rods, level, Philadelphia, graduated in feet, 10ths and 100ths	2	Cloth—	
Rules, slide, Mannheim, 16-inch, with case	1	Muslin, signal, red, yards	15
		Muslin, signal, white, yards	15

NOTE 32.—*Telephone equipment (Signal Corps).*

	Number.		Number.
Chest, signal equipment, engineer	1	Supplies:	
Kits, inspector's pocket	1	Batteries, type BA-1	10
Reels, type RL-9	2	Knobs, split, porcelain, No. 5½	500
Set, Monocord, operator, type EE-04	1	Fuses, 1 ampere, Monocord	16
Switchboards, type BD-9	2	Wire, outpost, twisted pair, miles	1
Switchboard, unit type EE-2	1	Screws, wood, flat head, bright, iron, 2½-inch, No. 8, gross	4
Telephone, type EE-4	4		

NOTE 33.—*Tinsmith's equipment.*

	Number.		Number.
Copper, soldering, handled, 1-pound	2	Supplies:	
Snips, tin, 15-inch	1	Paste, soldering, 4-ounce tin	2
Torch, blow, with soldering copper attachment, capacity 1 quart	1	Solder, half and half, pounds	5

NOTE 34.—*Water supply equipment for combat Engineer regiments.*

	Number.		Number.
Bags, water sterilizing	12	Pumping set, gasoline engine driven, centrifugal, with suitable foot valve and strainer; pump direct connected to 3 H. P., 2-cycle, 200-900 R. P. M. gasoline motor; pump to have 2-inch suction and 1½-inch discharge; capacity 30 to 40 gallons per minute against 60-foot head; discharge to be fitted with brass reducer having 1½-inch iron pipe threads on the female end and 2-inch iron pipe threads on the male end fitted with a female brass coupling for connection to the male coupling of a 2-inch discharge hose	1
Hose, discharge, unlined linen, 2-inch, 50-foot lengths, male coupling at one end, female coupling at the other, with 2-inch iron pipe threads	10		
Hose, suction, rubber, 2-inch, 25-foot lengths, male coupling at one end, and female coupling at the other, with 2-inch iron pipe threads	7		
Pumps, lift and force, hand, 1-man, diameter of cylinder 4 inches, stroke 4½ inches, complete with foot valve and strainer, 2-inch male suction and discharge	5		

NOTE 34.—*Water supply equipment for combat Engineer regiments—Continued.*

Number.	Shower bath, portable, 8-head, complete with oil-burning attachment, sets.....	Number.	Shower bath, etc.—Continued. Each set as follows—Continued.
4	Each set as follows: 1 base, heater. 1 burner, gasoline, complete with all valves, and piping for connections to oil tank. 1 frame, tripod. 1 heater, jacketed, complete with grate, and smoke pipe. 1 head, shower (piping). 1 hose, suction, rubber, 2-inch, 25-foot length, female coupling at one end; pipe bend with strainer at the other end; 2-inch iron pipe threads. 1 hose, discharge, rubber, 1-inch, 6-foot lengths, male coupling at one end and female coupling at the other end.		1 pipe, supply, with all valves and connections from pump to hot-water tank, and shower head. 1 pump, air, complete with hose and couplings for connection to oil tank. 1 pump, lift and force, hand, one-man, complete with foot valve and strainer, 2-inch male suction, and 1-inch male discharge. 1 tank, hot water, complete with circulating pipes and strainer. 1 tank, gasoline, complete with pressure gauge. 1 thermometer.
		3	Basins, storage, water, canvas, 20 by 20 feet....
			Supplies: Rope, manila, ½ inch diameter, 200-foot lengths. 2

NOTE 35.—*Water supply equipment for general service Engineer regiments.*

Number.	Hose, discharge, unlined linen, 2-inch, 50-foot lengths, male coupling at one end, female coupling at other end, with 2-inch iron pipe threads.....	Number.	Pumping set, gasoline-engine driven, centrifugal, with suitable foot valve and strainer (as in Note 34).....
19		6	
13	Hose, suction, 2-inch, 25-foot lengths, male coupling at one end, female coupling at other end, with 2-inch iron pipe thread.....	1	Shower bath, portable, 8-head, complete with oil-burning attachment, set (as in Note 34)....
6	Pumps, lift and force, 1-man, diameter of cylinder 4 inches, stroke ½-inches, complete with foot valve and strainer, 2-inch male suction and discharge.....	12	Basins, storage, water, canvas, 20 by 20 feet....

NOTE 36.—*Supplementary supplies for combat Engineer regiments.*

Number.	Bags, sand, with binders.....	Number.	Posts, screw, anchor.....
3,000		100	
250	Bolts, drift, ½ inch by 16 inches.....	100	Posts, screw, long.....
250	Bolts, machine, ½ inch by 18 inches, with nuts and washers.....	50	Posts, screw, intermediate.....
1,500	Caps, blasting, tetryl, electric.....	15	Roofing, felt, tarred, 36-inch, rolls of 500 square feet, complete with roofing nails, etc.
500	Caps, blasting, tetryl, non-electric.....	50	Staples, galvanized, 1½-inch, pounds.....
2,000	Explosives, TNT, rectangular, pounds.....	25	Wire, netting, 1½-inch mesh, galvanized, 100-ft. rolls.....
200	Fuse, time, feet.....	130	Wire, barbed, 4-point, 50-yd. coils.....
200	Fuse, instantaneous, feet.....		
12	Nails, common, 60d, kegs.....		
12	Nails, common, 30d, kegs.....		
1	Nails, common, 8d, kegs.....		

NOTE 37.—*Supplementary equipment, general service, company.*

Number.	Drills, octagon, stone, 1½ by 72 inches, 12-inch bit.....	Number.	The following additional equipment—Contd.
6		1	Pipe-fitting tools (Note 27), set.....
12	Hammers, napping, 3-lb. head, handled.....	6	Brushes, paint, flat, 3 inches.....
12	Forks, stone, 8-10 tines, D-handle, 30 inches long.....	3	Brushes, sash, 1 inch.....
6	Rakes, road, 14-16 teeth, 6-foot handle.....	4	Chains, ½-inch by 16 feet, with grab hook and ring.....
6	Tampers, road, 10 by 10 inches base, 16 lb., w/wood handle.....	2	Knives, putty, 1½ by 3½-inch blade.....
12	Shovels, D-handled, square point.....	4	Lamps, acetylene, portable, contractors.....
	The following additional equipment per company is authorized for Engineer regiments, general service, for construction work; to be held in reserve for issue as may be required:	2	Pincers, carpenter's, 10 inches long.....
	Carpentry equipment, company reserve (Note 3), set.....	2	Planes, jack, 15 inches, wood bottom.....
	Carpentry equipment, field (Note 4), sets. 2	2	Planes, smooth, 9 inches, wood bottom.....
		1	Punch, round, handled, ¼-inch.....
		1	Punch, round, handled, ½-inch.....
		1	Punch, round, handled, ¾-inch.....
		1	Punch, square, handled, ¾-inch.....
		1	Punch, square, handled, 1-inch.....
		2	Rasps, wood, half round, 14 inches.....

NOTE 37.—*Supplementary equipment, general service, company*—Continued.

	Number.		Number.
The following additional equipment—Contd.		The following additional equipment—Contd.	
Reamer, half round, for wood, $\frac{1}{2}$ -inch shank, $\frac{1}{2}$ -inch body	1	Grader, road, 8-ft. blade	1
Sets, nail, $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{8}$ tips	3	Hose, unlined linen, 2-inch, with iron-pipe couplings, 50-ft. lengths	4
Sets, rivet, tinners, set of 5, Nos. 0, 2, 4, 6, and 8	1	Hose, rubber, suction, 2-inch, with iron-pipe coupling, 25-ft. lengths	5
Spokeshaves, 2 $\frac{1}{2}$ -inch cutter	2	Illuminating equipment, sets (Note 13)	2
Tarpaulins, 20 by 40 ft.	1	Mattocks, pick, large, 6-lb. head, handled	12
Vise, bench, hand, woodworkers, 10 by 4-inch jaws	2	Pumps, lift-and-force, hand, 1-man, with foot valve and strainer, 2-inch male suction and discharge	2
Wheelbarrows, steel body, 3 to 4 cu. ft. capacity	6	Pumping set, gasoline-engine driven, centrifugal, 33 to 40 gals. per minute, 60-ft. head, 2-inch male suction and discharge (with spare parts for engine and pump)	1
The following additional equipment per company is authorized for Engineer regiments, general service, for road work; to be held in reserve for issue as may be required:		Rakes, road, 14-16 teeth, 6-ft. handle	12
Blacksmith's tools, machine (Note 2) set	1	Reels, firing wire	2
Pioneer equipment, company reserve (Note 25), set	1	Shovels, D-handled, square point	25
Pioneer equipment, field (Note 26), set	2	Tampers, road, 10 by 10 inch base, 16-lb., handled	12
Pipe-fitting tools (Note 27), set	1	Tarpaulins, 20 by 40 ft.	2
Anvil, blacksmith's, 100-lb.	1	Tongs, bolt, $\frac{1}{2}$ -inch, 18 inches long	1
Brooms, road, 16-inch, handled	12	Tongs, bolt, $\frac{1}{2}$ -inch, 20 inches long	1
Chains, $\frac{1}{2}$ inch by 16 feet, with grab hook and ring	4	Tractor, caterpillar, 45 H. P., complete with spares	1
Crushers, portable, complete with gasoline engine, capacity 3 to 5 cu. yds. per hour (with spare parts for crusher and engine)	2	Tractor, caterpillar, 75 H. P., complete with spares	1
Drills, octagon, stone, 1 by 18 inches, 1 $\frac{1}{2}$ -inch bit	8	Vise, blacksmith's, $\frac{5}{8}$ -inch jaws, 80 lb.	1
Drills, octagon, stone, 1 by 30 inches, 1 $\frac{1}{2}$ -inch bit	8	Wagons, water, 500-gal., with sprinkler attachment	2
Drills, octagon, stone, 1 by 48 inches, 1 $\frac{1}{2}$ -inch bit	8	Wheelbarrows, steel body, 3-4 cu. ft. capacity	24
Drills, octagon, stone, 1 $\frac{1}{2}$ by 72 inches, 1 $\frac{1}{2}$ -inch bit	8	Wire, firing, double lead, No. 14, 1,000-ft. lengths	2
Exploders, magneto, 30-cap, Engineer	2	Supplies:	
Forge, portable	1	Explosive, rectangular, TNT, pounds	1,000
Forks, stone, 8-10 tine, D-handle, 30 inches long	24	Caps, blasting, tetryl, electric	2,000
Grader, road, 12-ft. blade	1	Steel, drill, octagon, 1-inch, 12-ft. bars	21
		Steel, tool, round, 1-inch, 12-ft. bars	15
		Steel, drill, octagon, $\frac{1}{2}$ -inch, 12-ft. bars	3
		Twine, hemp, 2-oz. balls	5

NOTE 38.—*Supplementary equipment, general service, regiment.*

	Number.	Plumbing equipment set—Continued.
Bits, auger, for boring machine, set of 1, 1 $\frac{1}{2}$, and 2 inches	1	As follows—Continued.
Hoists, chain, 1-ton, duplex	2	1 chisel, cold, $\frac{3}{8}$ by 7 inches.
Hose, rubber, 3 inches, suction, excavating, complete with couplings and iron pipe threads, 12-foot lengths	3	1 chisel, brick, $\frac{1}{2}$ by 10 inches.
Machine, wood boring, hand operated, capacity 16-inch timber	1	1 chisel, floor, $\frac{3}{4}$ by 2 $\frac{1}{2}$ by 10 inches.
Pile driver, portable	1	1 chisel, wood, 1 by 11 inches.
Pipe fitting tools (Note 27), set	1	2 coppers, soldering, 1 lb. with handle.
Plumbing equipment, set	1	1 cutter, washer, 6-inch dia. cap.
As follows:		1 cutter, pipe, $\frac{1}{2}$ to 2 inches, 3 wheel.
1 bag, plumber's, 16 by 25 inches.		1 drill, star, $\frac{3}{4}$ by 10 inches.
1 bit, expansion, adjustable, $\frac{3}{8}$ to 3 inches, with two cutters.		1 drill, bit stock, for metal, set, for ratchet brace, 1 each, sizes: $\frac{1}{16}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ inch.
1 borer, tap.		1 file, half round, bastard, 10 inches.
1 box for grease, rosin, and flour, plumber's.		1 frame, hacksaw, adjustable, 12 inch.
1 brace, ratchet, 10 inch sweep.		1 furnace, or fire pot, gasoline, plumber's, 1 gal. capacity, complete with firepot.
1 chest, plumber's.		1 hammer, ball pein, 1 $\frac{1}{2}$ lb. handled.
2 chisels, caulking, offset, 1 right and 1 left.		2 handles, file, 5 inches long.
1 chisel, cold, $\frac{1}{2}$ by 6 inches.		1 hook, shave, plumber's.
		1 iron, caulking, sub, 4 inches long, outside.

NOTE 38.—*Supplementary equipment, general service, regiment—Continued.*

Plumbing equipment, set—Contd.	Number.
As follows—Continued.	
1 iron, caulking, stub, 4 inches long, inside.	
1 iron, caulking, 6½ inches long.	
1 iron, gasket (yarning), 16 inches long.	
1 ladle, melting, 3 inches.	
1 oiler, rectangular, reversible spout, ½ pt.	
1 pin, bending.	
1 pin, turn, 2½ inches diameter.	
1 pliers, combination, slip joint, 8 inches.	
1 plug drift, 1½ and 1¼ inches diameter, set.	
1 plumb bob, iron, 1-lb.	
1 rasp, wood, half round, 10 inches.	
1 reamer, burring, spiral fluted ½ to 2 inches to fit brace.	
2 rule, hardwood, spring joint, 4 ft., 8 fold.	
1 runner, lead joint, asbestos, flexible, ½ inch square.	
1 saw, compass, with set of 3 blades and 1 handle.	
1 screw driver, 6-inch blade.	
1 screw driver, 10-inch blade.	
4 screws, lag, sq. head, gimlet point, ½ by 3 inches.	
1 snipe, tinner's, 3-inch cut.	
1 stocks and dies, pipe, adjustable ½, ¾, 1 and 1 inch, set.	
1 tape, pipe, right hand, 1 each ½, ¾, 1, 1 inch, set.	
1 torch, blow, with soldering copper attachment, capacity 1 qt.	
1 vise, pipe, ½ to 2 inches, hinge type.	

Plumbing equipment, set—Contd.	Number.
As follows—Continued.	
1 wrench, adjustable top.	
1 wrench, monkey, 10 inch knife handle.	
1 wrench, pipe, 14 inches.	
1 wrench, pipe, 18 inches.	
Pump, diaphragm, hand, 3-inch male side suction, complete with 12 ft. of 3-inch suction hose, foot valve and strainer.....	3
Supplies:	
Bolts, drift, ½ by 16 inches.....	200
Bolts, machine, ¾ by 18 inches, with nuts and washers.....	100
Caps, blasting, tetryl, electric.....	1,000
Explosive, TNT, rectangular, pounds... 1,000	
Nails, wire, common—	
60d, kegs.....	6
30d, kegs.....	5
10d, kegs.....	4
8d, kegs.....	1
Plumbing supplies, set.....	
As follows—	
1 blades, hack-saw, 12 inches, 14 teeth, doz.	
1 candles, plumber's, doz.	
4 cloths, wiping, ticking, plumber's, 2½ by 3 inches.	
½ grease, tallow, or substitute, lb.	
1 line, chalk, 100 ft. ball.	
1 oil, machine, 1 gal. can.	
1 paste, library, 8 oz. jar.	
1 paste, soldering, 1-lb. can.	
1 rosin, lb.	
15 solder, half and half, lbs.	
Steel, drill, 1-inch dia., octagonal, 12 foot bars.....	6

NOTE 39.—*Supplementary equipment for Engineer bridge trains.*

	Number.
Bags, canvas, nail, 10-lb. size.....	5
Bar, lead.....	1
Bolt, king, 1½ by 13½ inches.....	8
Buckets, G. I., 14 qt.....	2
Chest A.....	1
Chest B.....	1
Chest C.....	1
Doubletree.....	1
Dowels, for balk, complete with nuts and washers.....	10
Hammer, sledge, 8-lb. handled.....	1
Irons, caulking, set of 3, No. 1, 2, and 3 crease.	2
Lanterns, railroad.....	12
Mallets, caulking, handled.....	2
Mauls, wood, handled.....	2
Palms, sail.....	1
Stretcher, lead.....	1
Supplies:	
Beeswax, lbs.....	1
Bolts, drift—	
½ by 16 inches.....	25
¾ by 18 inches.....	25
Buckles, roller, iron—	
½-inch.....	3
¾-inch.....	6
1-inch.....	20
1-inch.....	6
1½-inch.....	4
1¾-inch.....	6

Supplies—Continued.	Number.
Canvas, No. 0000, 36 inches wide, 10-yd. roll.....	1
Cord, sash, ¾-inch dia., 100-foot hanks.....	2
Cotters, assorted sizes.....	100
Cotton, caulking, lbs.....	20
Grease, axle, lbs.....	50
Links, open.....	15
Marline, 10-pound coils.....	3
Nails—	
Boat, cut, galv. chisel point, 10d, pounds.....	10
Boat, cut, galv. chisel point, 16d, pounds.....	10
Wire, galv., 8d, pounds.....	10
Wire, galv., 10d, pounds.....	50
Needles—	
Collar—	
No. 4, each.....	1
No. 4½, each.....	1
Sail—	
No. 14½, 3 inches each.....	3
No. 16½, 2½ inches, each.....	3
Oils—	
Harness, quarts.....	12
Kerosene, gallons.....	10
Neat's-foot, gallons.....	4
Sperm, quart.....	1
Pins, linch.....	22
Rawhide, side, sof.....	1

NOTE 39.—*Supplementary equipment for Engineer bridge trains—Continued.*

Rivets and burrs, brass:	Number.	Tacks—Continued.	Number.
3/8-inch, No. 10, pounds.....	1	Iron—	
1-inch, No. 8, pounds.....	1	8 oz., papers.....	1
Rope, manila, 1-inch dia., 720-foot coil.....	1	12 oz., papers.....	1
Screws, iron, galv. F. H.:		18 oz., papers.....	1
1 1/2-inch, No. 12, gross.....	2	Thread:	
1 1/2-inch, No. 12, gross.....	4	Shoe—	
1 1/2-inch, No. 18, gross.....	10	Brown, No. 3, lbs.....	1
3-inch, No. 18, gross.....	1	Brown, No. 10, lbs.....	1
3 1/2-inch, No. 18, gross.....	1	Half bleached, No. 10, lbs.....	3
5-inch, No. 22, gross.....	5	Linen, carpet, No. 18, lbs.....	1
Soap:		Twine, sail, 5 ply, 1/2-lb. balls.....	6
Harness, pounds.....	30	Washers, linepin.....	22
Castile, pounds.....	12	Wax, brown, lbs.....	1
Sponge, large.....	70	Wicks, lantern, railroad.....	24
Tacks:			
Copper—			
12 oz., papers.....	1		
20 oz., papers.....	1		

NOTE 40.—*Ponton equipment, heavy.*

For each heavy ponton division the following equipment will be issued:

	Number.		Number.
Anchor, 150-lb.....	9	Rowlocks.....	81
Ax, S. B., 4-lb. head, handled.....	17	Sills, 6 by 8 inches by 14 feet.....	4
Balk:		Singletrees (spare).....	11
Long.....	77	Sticks, rack.....	54
Trestle.....	14	Transoms, saddle.....	4
Buckets, G. I., 14-qt.....	17	Tongue (ponton wagon) (spare).....	11
Chess, long.....	360	Trestle, complete.....	2
Hatchets, broad, 4 1/2-inch, 3-lb. head, handled.....	9	Supplies:	
Hooks, boat, 10 feet long.....	18	Marline, 10-lb. coils.....	18
Lever, cap.....	2	Rope, manila, 1-inch diameter—	
Oars.....	45	720-foot coil.....	4
Pickets, wooden, iron shod, 3 by 36 inches.....	16	240-foot coil.....	9
Ponton, heavy.....	9	3/4-inch diameter, 18-foot lashings.....	180
Pump, boat, G. I.....	9		

NOTE.—Two divisions per heavy train (peace); three divisions per heavy train (war).

NOTE 41.—*Ponton equipment, light.*

For each light ponton division the following equipment will be issued:

	Number.		Number.
Anchor, 75-lb.....	12	Pump, boat, G. I.....	12
Ax, S. B., 4-lb. head, handled.....	17	Scoops, boat.....	24
Balk:		Sills, 6 by 8 inches by 14 feet.....	2
Short.....	98	Singletrees (spare).....	12
Trestle.....	14	Sticks, rack.....	96
Box, spare cover.....	3	Tongue (chess wagon) (spare).....	12
Buckets, G. I., 14-qt.....	17	Transoms, boat.....	168
Chess, short.....	342	Trestle, complete.....	2
Chest.....	12	Supplies:	
Covers, ponton.....	18	Rope, manila—	
Frames, side.....	24	1-inch dia., 720-foot coils.....	2
Hooks, boat, blunt point, 8-foot.....	24	1-inch dia., 180-foot coils.....	12
Lever, cap.....	2	3/4-inch dia., 720-foot coils.....	2
Paddles.....	60	3/4-inch dia. by 18-foot lashings.....	240
Pickets, wooden, iron shod, 3 by 36 inches.....	16		

NOTE.—Two divisions per light train (peace); three divisions per light train (war).

[400.34, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

(Cir. 296)

Circular
No. 296.

WAR DEPARTMENT,
Washington, November 12, 1921.

CLOTHING MONEY ALLOWANCE FOR ENLISTED MEN.

Paragraphs 8, 9, 24 and 26, Circular No. 224, War Department, 1921, are amended, and paragraphs 30, 31, 32, 33, 34 and 35 are added to that circular, as follows:

8. Where on account of climatic conditions it is deemed undesirable to require enlisted men to have in their possession the complete set of clothing prescribed in Tables I and II, initial allowance, commanding officers are authorized to eliminate those articles of clothing which are deemed unnecessary in view of the foregoing conditions. The initial money clothing allowance will be reduced by the value of the articles omitted. In case these articles are subsequently issued the soldier will be given the corresponding credit on his clothing money allowance.

9. October 1, 1921, will, upon the receipt of this circular be regarded as the constructive date of enlistment of all enlisted men who entered the service prior to that date and are still in service. In the settlement of the clothing accounts of the enlisted men mentioned in this paragraph, all will be credited with the initial allowance, and that part of the semiannual allowance accruing between October 1, 1921, and date of settlement, except that "the initial money allowance will be reduced by the value of any article of clothing to which the enlisted man is entitled, but which has not actually been issued to him, and in his possession on Oct. 1, 1921." In case these articles are subsequently issued the enlisted man will be given the corresponding credit on his money clothing allowance. This provision covers cases where the local commanding officer decided that the complete initial allowance of clothing is not required, or where for any reason it is not practicable to issue the complete initial allowance of clothing. Enlisted men will be charged with the clothing in their possession on October 1, 1921, as prescribed in paragraph 7, and any clothing drawn between that date and date of settlement. December 31, 1921

will be the date of the first semiannual settlement for all enlisted men in the service on that date.

The above change in constructive date of enlistment will not be construed as disturbing the clothing accounts of enlisted men who have been discharged prior to the date of receipt of this circular, if calculated in accordance with regulations in force at the time of discharge.

24. An enlisted man in desertion or absent without leave is entitled to clothing allowance from the date of his return to military control. In the case of an enlisted man against whom a charge of desertion is sustained by action of a court-martial, or who is restored to duty without trial on admitted desertion, or of a general prisoner restored to duty, a new clothing account will be opened without reference to his account at date of desertion or dishonorable discharge, but no portion of the initial allowance will be credited in the case of an enlisted man who is charged with desertion and the charge is not sustained by the action of a court-martial, or in whose case the charge is removed as having been erroneously made, the clothing settlement made at commencement of the unauthorized absence will be ignored and his clothing account will be adjusted by omitting credit for the annual allowance, as distinguished from the initial allowance, for the period of unauthorized absence.

26. When an enlisted man is honorably discharged, uniform clothing for which he is responsible will be left in his possession, if he reenlists on the date following his discharge.

Upon the discharge of an enlisted man, all uniform outer clothing then in his possession, except one uniform, consisting of 1 pair of breeches, 1 coat, 1 hat (or 1 cap), 1 hat cord (or 1 cap ornament), 1 set of collar ornaments, and, when climatic conditions render it necessary, 1 overcoat, which he is permitted to wear from the place of discharge to his home, will be retained for military use; and within four months after such discharge he shall return all uniform outer clothing which he was so permitted to retain for wear to his home, by mail, under a franked label, which shall be furnished him for the purpose, and in conformity with the instructions given him at the time of discharge, as prescribed by

section 10, Chapter XVII of the act of Congress approved July 9, 1918. These instructions will be given by the organization commander to the soldier, in the form of a letter which will show the name, address and date of discharge of the soldier, articles of clothing retained by him for wear to his home and the address of the local quartermaster to whom the clothing is to be returned. A copy of this letter will be furnished to the local quartermaster who will keep account of the clothing so retained by the soldier and take such steps as may be necessary to insure that the clothing is returned within four months from date of discharge.

When an enlisted man is discharged otherwise than honorably, all uniform outer clothing in his possession will be retained by the United States for military use, and a suit of citizen's outer clothing, to cost not exceeding \$30.00, will be issued to him, as provided for in current appropriation act.

Of the clothing issued to an enlisted man and charged against his clothing allowance, only the following articles are considered as uniform outer clothing and they will be retained for military use, in addition to all articles in his possession which were issued to him under Table III of this circular:

- | | |
|------------|--------------------|
| Breeches | Hats |
| Caps | Ornaments, cap |
| Coats | Ornaments, collar. |
| Cords, nat | |

Clothing retained for military use, or returned, as provided by this paragraph will be turned over to the local quartermaster who will have it reclaimed and will take it up on his property accounts. Clothing so turned in, or returned, which is beyond reclamation, will be disposed of by the salvage officer, as provided in existing regulations.

Upon the retirement of an enlisted man, or when a retired enlisted man who has been on active duty is returned to the retired list, he will be permitted to retain permanently all clothing in his possession, which was issued to him and charged against his clothing allowance.

30. A change from an allowance in kind to a money allowance for clothing, as prescribed in this circular was made because it was considered more desirable for the Government, and conducive to economy

on the part of the enlisted man. The money allowance is based on the clothing actually required to clothe properly the average enlisted man during his enlistment and it is not intended as an increase in his pay or allowances. The initial allowance inaugurated on October 1, 1921, is intended to equip each soldier on that date with a complete outfit of clothing in kind. The foregoing statement is the broad policy underlying this circular and will form the basis of all decisions relative thereto.

31. No money credit is given an enlisted man upon the discharge for clothing turned in. Upon reenlistment on the day following honorable discharge, the clothing left in the possession of the enlisted man in accordance with the provisions of paragraph 26, if fulfilling the conditions as to serviceability as prescribed in Tables of Basic Allowances, will be taken up on the enlisted man's clothing account, the fact that it was retained from a previous enlistment noted, and a charge as reclaimed clothing made against the clothing money allowance.

32. The clothing accounts of retired enlisted men placed upon active status will be opened and settled as prescribed for an enlisted man serving a three year enlistment period, three years of service on the active list corresponding to an enlistment period, provided that upon termination of each three years of active service the soldier will be paid any savings accruing to him. If the retired enlisted man is returned to the retired list within one year, his clothing accounts will be reopened and settled on the basis of the allowances for a one year's enlistment period. One initial money allowance only will be given during each three years of duty on an active status.

33. The clothing accounts of enlisted men of the National Guard, and enlisted men of the Enlisted Reserve Corps, placed on an active status in the service of the United States for other than training purposes, will be opened and settled similar to those for retired enlisted men. The occasions when they become entitled to a money clothing allowance will be prescribed in National Guard Regulations, and Regulations for the Enlisted Reserve Corps.

34. General prisoners restored to duty will be issued gratuitously articles of clothing necessary to equip them properly but not exceeding the number of articles prescribed in column 1, Table I or II of this circular, and will not be credited with the initial money allowance.

35. Clothing which the enlisted man can establish to the satisfaction of the commanding officer as having been acquired from his own funds, and which was found in his possession at the inventory taken about October 1, 1921, may be retained by the enlisted man. This clothing will not be taken up on the clothing account to form part of the initial allowance and will be disregarded entirely in determining the amount of clothing issued to the soldier to complete his initial equipment.

(246.5, A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

jim.

CIRCULAR }
No. 307. }

WAR DEPARTMENT,
WASHINGTON, December 1, 1921.

EXTRACTS FROM THE BUREAU OF THE BUDGET CIRCULARS NOS. ½ TO 47.

The following circulars have been issued by the Director of the Bureau of the Budget, Treasury Department, by direction of the President, and such as are of interest to the Army at large are published for the information and guidance of all concerned:

No. ½. JUNE 27, 1921.

(Announces meeting of the administrative organization of the Government on June 29, 1921.)

No. 1½. JUNE 30, 1921.

(Directs appointment of a Budget officer for each department and establishment.)

No. 2. (No date.)

(Instructions to Budget officers relative to the preparation of the Budget for the fiscal year 1922.)

No. 3. JUNE 30, 1921.

(Notice of Budget officers' meeting.)

No. 4. JULY 1, 1921.

(Instructions for Budget officers relative to the preparation of budget.)

No. 5. JULY 6, 1921.

To all whom it may concern:

Whereas, in order to more effectively carry out the provisions of the Executive Order of December 3, 1918 (enacted into law in the legislative, executive, and judicial appropriation act, approved March 3, 1921), and the Executive Order of August 27, 1919 (issued in pursuance of the "Third Deficiency Appropriation Act, fiscal year 1919," approved July 11, 1919), relative to the distribution of surplus material, supplies, and equipment, thereby securing the greatest possible utilization of property already in the possession of the Government and conservation of existing appropriations, it is hereby ordered and directed:

1. The heads of the executive departments and independent establishments shall cause an immediate survey to be made for the purpose of determining the amount of material, supplies, and equipment not now being efficiently used. Such property must be utilized to meet the immediate requirements of the bureaus and divisions within the department or establishment to conserve existing appropriations by eliminating unnecessary purchases. Departmental surplus for which a specific use within the current fiscal year is not foreseen must be turned over to the General Supply Committee of the Treasury Department promptly for reissue to other branches of the Government service.

2. A thorough investigation must be made in every office of all files with a view to putting into active service or releasing to the General Supply Committee for reissue filing equipment which is not absolutely essential to the conduct of business. Active records should be consolidated and inactive records removed to less expensive transfer or storage cases.

3. In providing furniture and equipment for offices, only standard contract articles may be purchased in such cases as the property now in the possession of the Government is not obtainable by transfer.

4. Responsible officials must make every effort to utilize such types and articles of equipment as are available from the surplus stocks, rather than to insist upon a particular style not so available. Where no typewriters are available for reissue or transfer within the department, used typewriters in possession of the General Supply Committee of the Treasury Department must be utilized irrespective of make.

No. 6.

JULY 5, 1921.

(Instructions to Budget officers for preparation of revised Budget for fiscal year 1922.)

No. 7.

JULY 8, 1921.

(Amended by Circulars Nos. 18 and 37.)

In order to conserve to the utmost the expenditure of Government funds and to save loss by deterioration in storage of surplus property now available for disposal by the several executive departments of the Government, it is directed that whenever advertisements for bids are contemplated, before such advertisements are made public, copies of the same in the exact form in which it is intended they shall be published be sent to the Surplus Property Division, or corresponding agency, of each of the executive departments.

Each department advertising material for sale shall in like manner inform every other department prior to the advertisement of the exact nature of the advertisement which it is proposed to publish.

In both cases, copies will be sent to the chairman of the Interdepartmental Board, who is hereby charged with coordinating these activities.

No. 8.

JULY 7, 1921.

(Instructions to Budget officers relative to expenditures for fiscal year 1922.)

No. 9.

JULY 11, 1921.

(Instructions to Budget officers with reference to the 1922 appropriations.)

No. 10.

JULY 12, 1921.

To heads of departments and independent establishments of the Government:

The second deficiency appropriation act for the year 1921, approved June 16, 1921, contains the following paragraph granting authority to heads of departments and executive establishments to discontinue printing certain reports:

In order to keep the expenditures within or under the appropriations for the fiscal year 1922 for printing and binding, the heads of the various executive departments and Government establishments are hereby authorized to discontinue the printing of any annual or special reports under their respective jurisdiction: *Provided*, That where the printing of said reports is discontinued, the original copy thereof shall be kept on file in the offices of the heads of the respective departments or Government establishments for public inspection.

Administrative officers will report to the Bureau of the Budget as soon as possible what reports are to be discontinued under this authority and the estimated saving that may be effected by the discontinuance of the printing of such reports or portions of reports.

No. 11.
(Instructions relating to the submission of estimates.)

JULY 15, 1921.

No. 12.
(Modified by Circular No. 34.)

JULY 21, 1921.

To heads of departments and independent establishments:

A large and currently accruing loss to the United States is resulting from uncoordinated control over the surplus of the different departments. Building material, steel, cement, lumber, furniture, ships, automobiles, textiles, food supplies, buildings, etc., are owned by the United States and available for its current use.

In the face of a large supply on hand, because of a lack of coordinated control and system of survey, with facilities for bringing to the knowledge of all departments the requirements of each, the different departments of the Government have been buying different classes of material in the open market with little recourse to stocks on hand. The cause of this situation, while it is primarily due to the lack of coordinating machinery of supervision and control, is aggravated by delay on the part of the different departments in declaring as surplus certain property unnecessary to their purposes. It is also aggravated by delay in the preparation of inventories, which are now incomplete.

This office will announce shortly the institution of the coordinating machinery by Executive Order, which will deal with this subject. Pending the issuance of an Executive Order putting into effect this coordinating machinery, it is directed that, except as indicated herein, sales of Government surplus property shall cease, and that all selling agencies dealing with the sale of Government surplus property be so notified. This order, however, does not apply to transfers of surplus property from one department of Government to another, and it is not intended thereby to prevent the departments from taking advantage of any exceptional or seasonal opportunities for the sale of property, especially perishable property.

No. 13.
(Amended by Circulars Nos. 18 and 37.)

JULY 21, 1921.

Memorandum for heads of all departments and establishments of the Government.

The surplus stocks remaining available for transfer are in the possession of the War Department, the Navy Department, the United States Shipping Board, and the General Supply Committee of the Treasury Department.

The sending of copies of proposed advertisements for bids, before publication, to these four departments or establishments will constitute a compliance with Circular No. 7 issued from this office under date of July 18, 1921.

When the total value of the supplies required at any one time aggregates less than \$100, informal inquiry as to whether articles desired are available will suffice to comply with the intent of the circular referred to.

In order to expedite business, inquiries should be addressed as follows:

United States Shipping Board,
Director of Supply and Sales.
Navy Department,
Bureau of Supplies and Accounts.
War Department,
Director of Sales.
General Supply Committee,
The Superintendent.

No. 14.

JULY 22, 1921.

(Instructions relative to economies in public printing and binding.)

No. 15.

JULY 27, 1921.

To heads of departments and independent establishments of the Government:

In order to more effectively carry out the provisions of Executive Order of December 3, 1918, and Executive Order of August 27, 1919, dealing with the handling of surplus material, supplies, and equipment, the following is ordered:

1. For convenience, the territory of the United States is divided into nine areas, corresponding to the nine Army Corps areas, and in each area an official shall be selected who shall be known as the coordinator for general supplies for the several executive departments and independent establishments having activities in that area. Each such officer shall serve under the title "Coordinator, General Supply, ——— Corps Area." In each of the areas in which the Army, Navy, or Shipping Board or other department has activities of sufficient importance to warrant it, a representative of such department may be detailed to aid the area coordinator in administering the provisions of this order.

2. Each official selected as coordinator will report to Washington, D. C., reporting upon arrival to the Director of the Bureau of the Budget for instructions.

He will confer with every executive department and independent agency or establishment having, or which may have, activities involving the disposition of surplus supplies and equipment, in the area assigned him. Upon arrival in his area he will, by means of correspondence and personal inspection, promptly locate and inspect surpluses and accumulations of Government stocks, regardless whether or not these stocks have been reported surplus, and report thereon to any head of a department concerned, as well as to the Chief Coordinator, General Supply, Washington, D. C., referred to hereinafter, having particular reference to the existence of accumulated stocks which appear to be in excess of reasonable reserves or current needs.

He will keep in general touch with all Government projects in his area involving the procurement, transfer, or disposal of Government supplies and equipment. It shall be his duty to see that Government policies are carried out in regard to the departmental purchase of Government supplies. He shall have the power to fix the fair market price of surpluses, which price shall be the determining measure of the transfer of funds upon the books of the department incident to the interdepartmental transfer of material.

He is authorized to act in the name of the Chief Coordinator, General Supply, Washington, D. C., and postpone any sale of Government property in any department whatsoever when his investigation shows that it is not in the financial interests of the general Government to permit the sale to be held or to be continued. He will immediately report his action in these cases to the head of the department concerned and to the Chief Coordinator, General Supply, Washington, D. C.

He will, by correspondence, keep in touch in a general way with the coordinators for general supply in areas adjacent to his own, with the view of effecting economies by the interchange of materials between corps areas when such a transaction would be to the financial interests of the general Government.

He will submit recommendations to the head of the department concerned and to the Chief Coordinator at any time involving practical suggestions which he believes would result in economies to the general Government in disposing

of our surplus stocks or result in better cooperation between various Government agencies.

3. There is hereby created in the office of the General Supply Committee, the office of Chief Coordinator, General Supply, whose duty it shall be to supervise and coordinate the work of the coordinators, general supply, operating in each corps area, and to bring any matters to the attention of the department heads which, in his judgment, will be of assistance to them in contributing to economy and efficiency. The Chief Coordinator, General Supply, will instruct the coordinators of supply in corps areas to select those classes of stocks which represent substantially the bulk of the money value of all stocks, and concentrate upon these until disposed of.

It shall be the duty of the Chief Coordinator to advise as to the methods of expediting the inventories of surplus stocks in the possession of the various departments and independent establishments of the Government, upon which he shall report to the heads of departments concerned.

He shall advise the department heads upon policy governing the sales of commodities held surplus in more than one department of the Government, which policy shall aim to insure uniformity in prices received and tend to protect the state of the market in the Government's interests.

It shall be the duty of the General Supply Committee to maintain the records of the surplus property, equipment, and material reported to the Chief Coordinator, receiving and answering inquiries in accordance with the provisions of the Executive Order of August 27, 1919.

4. In addition to coordinating sales of surplus property, prescribed above, the Chief Coordinator, General Supply, shall exercise general supervision over the purchase functions of the several departments and establishments.

The coordinating officer assigned to each territorial subdivision of the United States and its extra-continental possessions shall exercise within his area such like supervisory powers over the purchasing functions of the several departments and establishments as may be required of him by the Chief Coordinator at the seat of Government, in cooperation with the department heads.

In each executive department and independent establishment of the Government there shall be a director of purchases and a director of sales, who shall coordinate all activities involving purchases and sales within their respective departments and be in direct liaison with the Chief Coordinator, to whom they shall furnish copies of all their surplus property reports. These directors of purchases and sales shall be subject to call by the Chief Coordinator for conference in all matters involving the coordination of sales and purchases in the various departments of the Government service.

The coordinating officers shall report to the Chief Coordinator, General Supply, Washington, D. C., to be presented by him to the department heads concerned, for their information, all cases where, in their judgment, the procurement of basic and raw materials may be made to the best advantage by a single purchase by category under approved specifications.

Acceptance or rejection of deliveries will ordinarily lie with that department or bureau for which deliveries are intended. When scientific tests are an essential part of the inspection of supplies, the Chief Coordinator may call upon the Bureau of Standards for the application of such tests.

Cost to the General Government shall be computed as cost at point of delivery.

5. All correspondence from coordinators, general supply, to the Washington Government shall be addressed to the Chief Coordinator, General Supply, Washington, D. C.

No. 16.

JULY 29, 1921.

To the heads of departments and independent establishments of the Government:

In accordance with Executive Order dated July 27, 1921, providing a plan for securing coordination of the activities of all departments and establishments of the Government engaged in purchases and in the disposal of surplus stocks, the following officials are appointed to carry out the provisions of said plan:

Chief Coordinator of General Supply, Col. *H. C. Smither.*

Assistants in the office of the Chief Coordinator, General Supply, Lieut. Col. *John W. Wright*, Lieut. Col. *J. P. McAdams*, Maj. *Max R. Wainer.*

For duty with corps areas, Maj. *Joe R. McAndrews*, Maj. *T. W. Hammond*, Lieut. Col. *J. C. Rhea*, Maj. *D. A. Robinson.*

Officers of the Navy Department to be detailed in accordance with the plan will be announced later.

No. 17.

AUGUST 2, 1921.

(Instructions relative to the submission of estimates.)

No. 18.

AUGUST 17, 1921.

To the heads of executive departments and independent establishments:

1. In order to carry out the provisions of section 5 of the act of July 11, 1919 (41 Stat. 67, 68), relating to the interdepartmental purchase of supplies, the General Supply Committee of the Treasury Department (offices at Fourteenth and B Streets SW.), was by Executive Order issued August 27, 1919, designated as the central agency to gather the information relative to the available surplus supplies in the departments and establishments of the Government and was required to make such information available upon inquiry to any department or establishment desiring to purchase such surplus supplies.

The imposition of this duty to provide information relative to surplus supplies is construed to include the duty to search for articles needed by a department or establishment, where there is reason to believe that such article or articles exist in another department or establishment and can be declared surplus for the purpose of interdepartmental supply.

2. The General Supply Committee, in the performance of its duty under the Executive Order mentioned in paragraph 1, above, to maintain records of surplus supplies in the various departments and establishments, will assume the responsibility of relieving the several departments and establishments of all detail connected with the transfer of surplus stocks, save that alone of taking physical possession thereof and executing any necessary vouchers to effect the transfer of funds on the books of the Treasury.

3. (a) The provisions of Circular No. 7, Bureau of the Budget, dated July 8, 1921, are hereby modified as follows:

Copies of proposed advertisements for bids shall be sent to the General Supply Committee only.

(b) The provisions of paragraph 3, Circular No. 13, Bureau of the Budget, dated July 21, 1921, are hereby modified as follows:

Where the total value of supplies required at any one time aggregates less than \$100, and good business judgment dictates that a transfer from available surplus can not be made economically, purchase may then be made in accordance with the regulation governing the particular department or establishment.

4. The heads of all departments and establishments will communicate the requirements of this circular to all bureaus operating under their jurisdiction.

No. 19. AUGUST 17, 1921.
 (Instructions relative to preparation of estimates for the fiscal year 1923.)

No. 20. AUGUST 16, 1921.
To the heads of departments and independent establishments of the Government.

1. Whenever any department or establishment of the Government, under the operation of a law of general application, receives from another department or establishment material, equipment, supplies, or land which the law permits to be transferred without funds, the department or establishment furnishing such material, equipment, supplies, or land shall notify the receiving department or establishment the value of the same, and the receiving department or establishment shall set aside, in its "general reserve" (referred to in Bulletin No. 4, Bureau of the Budget, July 1, 1921), the amount thus designated.

In the event of disagreement as to the value, the matter will be referred to the Chief Coordinator, General Supply, whose decision shall be final.

2. When supplies are transferred from one department or establishment to another it will be understood that they are to be used directly by the department or establishment receiving them, unless the law specifically authorizes the receiving department or establishment to sell or exchange them. Should the receiving department or establishment find that it does not need all or any portion of the supplies so received from another department or establishment, report of the fact will be made at once to the Chief Coordinator, General Supply, who will order such excess of supplies to be returned to the issuing department or establishment, or to the General Supply Committee, as the interests of the General Government may require.

No. 21. AUGUST 21, 1921.
 (Instructions relative to distribution of Budget orders received from the Bureau of the Budget.)

No. 22. AUGUST 18, 1921.
To the heads of departments and independent establishments of the Government:

1. For the purposes of coordination and economy in the rent of premises by the Government, the jurisdiction, control, and custody of Government-owned property, vested by law in the Secretary of the Treasury (30 Stat., 614), is hereby extended to cover all rented premises outside the District of Columbia and military reservations, for whatever purpose and by whatever authority the same were heretofore rented or acquired. This provision is not, however, intended to extend to the rent of premises specifically designated by law.

2. The authority hereby delegated to the Secretary of the Treasury will be exercised by him through the Supervising Architect of the Treasury Department.

3. The Secretary of the Treasury shall designate an official of the Treasury Department, and such personnel as may be necessary, who shall, until otherwise directed, perform the duties herein prescribed, under the general supervision of the Chief Coordinator, General Supply. Said official shall be designated as Surveyor General of Real Estate, and his acts shall be subject to the approval of the Secretary of the Treasury. It shall be his duty to collect all necessary information pertaining to owned or leased real estate of whatsoever character or wheresoever situated, and to determine what changes should be made in the interest of economical and efficient use of lands, buildings, and portions of buildings for the benefit of the General Government. In the per-

formance of this duty under the supervision of the Chief Coordinator, General Supply, he shall be assisted by the area coordinators, general supply, who shall report to him such information as to the real estate holdings, under ownership or lease, which may be located in their corps areas, with a view to coordination of distribution. The heads of all departments and establishments shall promptly furnish such information as the Surveyor General of Real Estate may require.

4. The Surveyor General of Real Estate shall determine, subject to the approval of the Secretary of the Treasury, in what manner and to what extent said premises shall be occupied and used, by what departments, bureaus or offices, and establishments, and shall have the power to assign and reassign rooms therein to all such Federal officials, clerks, and employees as in his judgment and discretion should be furnished with offices or rooms therein, but no assignment or reassignment will be made until after full and complete conference with the head of the particular department or service directly concerned.

5. The Surveyor General of Real Estate shall have the authority, in his discretion, subject to the approval of the Secretary of the Treasury, to abrogate or terminate existing leases by negotiations or by notice or other action thereunder.

6. Upon the expiration of existing leases, whether by expiration of the terms thereof, or whether terminated under paragraph 5 above, no leases of premises for Government uses for a period of longer than one year, or for an annual rental of more than \$500 shall be made except upon the approval of the Surveyor General of Real Estate and the Secretary of the Treasury.

7. In order to give the Surveyor General of Real Estate a complete survey of the entire situation regarding Government-owned and leased property, the Secretaries of War and Navy shall supply him with all general information regarding Government-owned and leased property on Government reservations. This information will be used in the economical adjustment and concentration of Government depots and housing facilities. The Surveyor General of Real Estate will also establish liaison with the Public Buildings Commission with a view of assisting in effecting economy in the District of Columbia.

8. It is not intended by this order to authorize the Surveyor General of Real Estate to interfere with the allocation by the heads of departments and establishments of their real estate for the purpose of their departmental use, but the Surveyor General of Real Estate shall advise the heads of departments and establishments as to more economical uses of the property suggested by records of his office.

No. 23.

AUGUST 18, 1921.

To the heads of departments and establishments:

1. In connection with the disposal of surplus stocks, especially in the interdepartmental sale of these stocks, instances arise where one department is in need of supplies, equipment, or material which are held in overabundance in another department, but which have not been declared surplus under the present policy governing the particular department.

2. It is manifestly to the best interest of the General Government, in the present business emergency, to supply one department, as far as possible, from another department of the Government, even though the articles so furnished have not been declared surplus and are maintained in keeping with the policy governing that particular department, especially since some of these policies are still abnormal and have not yet been adjusted to present conditions.

3. It is therefore requested that, irrespective of any apparent situation as to declared surpluses, requests be made to the General Supply Committee, and steps will be taken by that committee, through the Chief Coordinator, General Supply, with a view of having the articles desired made available.

No. 24.

AUGUST 22, 1921.

(Instructions to Budget officers relative to reports of disbursements.)

No. 25.

AUGUST 25, 1921.

FEDERAL PURCHASING BOARD.

To the heads of departments and establishments:

1. In order to enable the Chief Coordinator, General Supply, to perform the duties of coordinating purchases throughout the several departments and establishments as prescribed in Circular No. 15, Bureau of the Budget, dated July 27, 1921, there shall be organized in the General Supply Committee a directorate of purchase to be known as the Federal Purchasing Board.

2. The Federal Purchasing Board shall be composed of one representative from each department and establishment having authority to purchase supplies. The Chief Coordinator, General Supply, shall be chairman of the board.

3. Immediately upon the receipt of this circular the heads of such departments and establishments shall designate one representative to serve as a member of the Federal Purchasing Board, and shall designate such assistants to such members as may be deemed necessary. As soon as practicable after receiving notice that all of the above members of said board have been designated, the Chief Coordinator, General Supply, shall call the initial meeting of the board for purposes of organization.

4. The board will have assigned to it all questions of purchase of the several departments and establishments represented on it. While the power to purchase and to coordinate purchases is thus centralized in the board, it shall be its policy to decentralize administrative matters and the actual execution of purchase. Such articles as are of a preeminently specialized nature will normally be referred back immediately to the department concerned, which will handle the purchase of the same as heretofore. Such articles as are needed in common by all departments will, as a rule, be allocated for purchase by the board to the department best fitted, in its opinion, to perform this particular function for the whole Government service. The board will endeavor to standardize requirements whenever possible in order that joint purchasing may be the rule and not the exception. In general, the department making the purchase will also make the inspection, thus eliminating duplication.

5. It shall be the duty of the board to formulate policies and plans designed to knit the purchasing activities of the several departments and establishments into a Federal business association, and to bring about business methods calculated effectively to safeguard the interests of the Government, and at the same time to promote the confidence of private business interests and industrial communities doing business with the Government.

6. The Chief Coordinator, General Supply, will be responsible for the efficiency of the board and for developing it along practical lines. After a full discussion of any question by the board, his decision will be final as to the action to be taken or the policy to be pursued, but any member may appeal therefrom to the head of his department or establishment. The Chief Coordinator, General Supply, may detail an assistant to sit with the board to represent him in matters of routine.

To the heads of departments and establishments:

1. In order to enable the Chief Coordinator, General Supply, to perform the duties of coordinating sales throughout the several departments and establishments as prescribed in Circular No. 15, Bureau of the Budget, dated July 27, 1921, there shall be organized in the General Supply Committee a directorate of sales to be known as the Federal Liquidation Board.

2. The Federal Liquidation Board shall be composed of one representative from each department and establishment having sales activities. The Chief Coordinator, General Supply, shall be the chairman of the board.

3. Immediately upon the receipt of this circular the heads of such departments and establishments shall designate one representative to serve as a member of the Federal Liquidation Board, and shall designate such assistants to such members as may be deemed necessary. As soon as practicable after receiving notice that all of the above members of said board have been designated, the Chief Coordinator, General Supply, shall call the initial meeting of the board for purposes of organization.

4. It shall be the duty of the Federal Liquidation Board to formulate policies and plans designed to knit the sales activities of the several departments and establishments concerned in the liquidation of stocks into a Federal business association, and to bring about business methods calculated effectively to safeguard the interests of the Government, and at the same time to promote the confidence of private business interests and industrial communities doing business with the Government.

5. The Chief Coordinator, General Supply, will be responsible for the efficiency of the board and for developing it along practical lines. After a full discussion of any question by the board, his decision will be final as to the action to be taken or the policy to be pursued, but any member may appeal therefrom to the head of his department or establishment. The Chief Coordinator, General Supply, may detail an assistant to sit with the board to represent him in matters of routine.

No. 27.

AUGUST 25, 1921.

To the heads of departments and establishments:

A survey of the Government Printing Office by the Permanent Conference on Printing has disclosed the following conditions:

1. One of the evils and difficulties with which the Public Printer has to contend is the handling of what is commonly called "rush work." By this is meant the custom of giving priority to certain orders over other work in the Printing Office. The efficient and economical management of the Printing Office requires that the orders, so far as is possible, be executed in the order of their receipt. To vary very frequently or widely from this order means the derangement of any plans made by the mechanical superintendents for the economical execution of the work.

2. This evil is more serious and costly than is generally understood. It disturbs the orderly progress of the work of the Printing Office and results in a great deal of overtime being paid that otherwise would be unnecessary. An accurate account of the cost of this feature has been kept, and the amount involved is over \$300,000 annually.

3. The Public Printer and the Bureau of the Budget are well aware that occasionally there exist legitimate and valid reasons for giving priority to some

work over other work that is in the office. Where such a valid reason actually exists, the Public Printer will do everything he can to comply with such requests. It is our belief, however, that the greater part of this evil is occasioned by neglect and inattention. Regular forms are allowed to reach too nearly the point of exhaustion before a new supply is ordered. New work in contemplation is delayed too long before placing it in the hands of the Public Printer. For one department to insist on a priority being given to its work is unfair to the other departments, for it means delay in the work for the other departments.

4. The departments and independent establishments now have a representative on the Permanent Conference on Printing, formed some weeks ago. It is the belief of this bureau that the matter mentioned above should be referred to that representative and that he should have authority, under responsibility to his chief, to pass on the question of the necessity for rush work, and that such orders should receive his approval before they are transmitted to the Public Printer.

5. The Bureau of the Budget requests that special attention be given to the matter detailed above, and that the evil complained of be eliminated so far as possible.

6. This bureau would appreciate an acknowledgment of the receipt of this request.

No. 28.

SEPTEMBER 1, 1921.

To the heads of departments and establishments:

1. It appears to have been the practice heretofore among some of the departments and establishments of the Government to enter into contracts and obligations involving large amounts during the month of June, with the possible purpose and inevitable result of there being no unobligated balance to their credit at the close of the fiscal year. Instances have come to the attention of the Bureau of the Budget where large purchases have been made of articles regarding which previous public announcement had been made of a decrease in price after July 1.

2. It is an exploded theory that the appropriations to a given department should represent its minimum of expenditures for that year.

3. You are requested to have such examination made in your department or establishment of the purchases and contracts of June, 1921, as will satisfy you whether or not there has been any abuses of the discretion given to your purchasing officers, and to furnish the Bureau of the Budget an early report of your conclusions as a check against further continuance of the practice.

No. 29.

SEPTEMBER 2, 1921.

(Instructions as to report of estimate of expenditures.)

No. 30.

SEPTEMBER 8, 1921.

(Further instructions regarding Circular No. 29.)

No. 31.

SEPTEMBER 12, 1921.

MOTOR TRANSPORTATION.

(Announces meeting in office of Chief Coordinator, September 16, 1921, on the subject of coordination of motor transportation in the District of Columbia.)

No. 32.

SEPTEMBER 13, 1921.

STATEMENTS TO ACCOMPANY ANNUAL ESTIMATES OF APPROPRIATIONS.

To the heads of departments and establishments:

1. Information required to be furnished with the annual estimates of appropriations under the acts of Congress hereinafter referred to should be delivered to the Bureau of the Budget to be included by it as appendices to the Book of Estimates, viz:

(a) Statement of buildings rented within the District of Columbia for the use of the Government (acts July 16, 1892, 27 Stat., p. 199; May 1, 1913, 38 Stat., p. 3; May 29, 1920, 41 Stat., p. 691). The last preceding annual statement was published as Appendix C, Book of Estimates for 1922, pages 1027-1032.

(b) Statement of Government-owned buildings in the District of Columbia (act June 5, 1920, 41 Stat., p. 945). (See Appendix E, Book of Estimates for 1922, pp. 1041-1046.)

(c) Statements of "employees below a fair standard of efficiency," of "conditions of business," and of "details of employees" (acts July 11, 1890, 26 Stat., p. 268; Mar. 2, 1895, 28 Stat., p. 808). (See Appendix D, Book of Estimates for 1922, pp. 1033-1040.)

2. It is requested that these statements be furnished on sheets separate from the estimates or letter of transmission for convenience in compiling the several appendices. If no report is to be made upon one or more of these several subjects, that fact may be so stated in the letter of transmission.

3. It is of greater importance than ever that these statements be prepared with care and thoroughness. In particular, the statements required under section (c) of paragraph 1 should not be a mere perfunctory compliance with the law but should reflect careful study of conditions. The enforced economies to be observed will involve in many cases a reduction in working forces. If commensurate attention is given to the preparation of these statements, it will not only insure accurate information to the Bureau of the Budget, but will also be an effective guide to the heads of departments and establishments in re-arranging their working forces hereafter on a just and equitable basis.

No. 33.

SEPTEMBER 15, 1921.

TELEPHONE SERVICE.

To the heads of departments and establishments:

1. In order to conserve the expenditure of public funds for telephone service, the head of each department and establishment is requested to make immediately a complete survey of all telephone equipment now in use with a view to the elimination of telephones that are not absolutely essential to the transaction of public business.

2. The head of each department and establishment is further requested to submit to the Director of the Bureau of the Budget the following reports:

(a) Not later than October 15, 1921, a statement showing how many switchboards are under his respective supervision, together with the trunk-line numbers thereof and the location of the same; and whether any building under his respective jurisdiction houses all or a portion of any other department or establishment which makes use of telephones not connected with the local switchboard.

(b) Not later than October 15, 1921, a statement showing in detail the number of telephones in use August 31, 1921, and September 30, 1921, and the expenditures therefor for said months.

(c) On or before the 15th day of each month a similar statement showing in detail the number of telephones in use on the last day of the preceding month and the expenditures therefor for said month.

3. The head of each department and establishment is further requested hereafter to enforce the following regulations:

(a) No changes in telephone equipment shall be made except when absolutely necessary for the conduct of public business.

(b) No expenditure shall be made for installation, service connection, change of location, directory, circuit, or switchboard charges, except after a thorough consideration of the need for the same.

(c) Telephone accounts shall be carefully checked each month as regards the number of instruments, calls, extension stations, disconnected stations, new stations, and removals and changes of location.

(d) The number of personal calls shall be restricted to the minimum. The records seem to indicate a great increase in the use of the service in this respect.

(e) With reference to the matter of removals or changes of locations, telephones shall be installed in a manner that the wiring between the bell box and the instrument shall not pass through an opening in any part of a desk or table.

(f) With reference to the matter of the removal of officials from one office to another, involving the removal or installation of telephones, old telephone numbers shall be retained only when absolutely necessary, and when such retention is desired the telephone company shall be requested to make the change in the terminal room in the building containing the office concerned.

No. 34.

SEPTEMBER 19, 1921.

RESCINDING SO MUCH OF CIRCULAR NO. 12 AS DIRECTED THE SUSPENSION OF SALES OF GOVERNMENT PROPERTY.

To the heads of departments and establishments:

1. With the formation of the Federal Liquidation Board and the completion of inventories of surplus materials and supplies by the various departments and establishments, the necessity for the suspension of sales of Government property, directed by Bureau of the Budget Circular No. 12, has ceased, and so much of Circular No. 12 as directed the stopping and suspension of sales is hereby rescinded.

2. All officers and agencies affected by this circular will be immediately notified.

No. 35.

SEPTEMBER 23, 1921.

To the heads of departments and establishments:

A general survey of the motor-transport situation throughout the United States reveals the fact that the rule of absolute fixed assignments of motor vehicles to executive departments and independent establishments of the Federal Government is handicapping us in the handling of our motor-transport problem from the point of view of the General Government. The motor transport of a department may be overtaxed when there are motor vehicles standing idle in another department. Civilian trucks are being hired when a department is confronted by an emergency, when the same service could, by proper coordination, be performed within the limits of the Government itself.

In order to coordinate the use of motor transportation operated under the executive departments and independent establishments of the Federal Government, in the interests of efficiency and economy, the following is announced:

1. Where more than one executive department or independent establishment are operating motor-transport vehicles in a city or populous district the Coordinator, General Supply, whose area includes the city or district will prepare and submit a plan for coordinating the use of this motor transport, so that the interests of the General Government may be met in the most economical and practical way. The plan will be drawn to meet the special needs of the particular city or district, but the following general principles should be embodied, as far as practicable, in each plan submitted:

(a) The proper housing and grouping of the vehicles of each department, for the purpose of economical housing, maintenance, and repair.

(b) The absolute limitation to the minimum of assigned vehicles and the operation of all in pools.

(c) The linking up of all pools of vehicles of the city or district in a single pool, for the purpose of economical operation.

(d) The resting of the responsibility on a separate included executive department or independent establishment for the efficient operation of its share of the plan.

(e) The considering of the motor-transport problem of the city or district as one problem, each service contributing to its execution in the most practical way.

(f) The appointment, by the area coordinator, general supply, for each city or district, of a Federal motor transport agent, who shall have full authority to carry out the purposes of the plan for his city or district and whose decision shall be final in all matters of assignment of tasks and dispatching of motor vehicles therefor, and the coordination of housing facilities and operations for maintenance and repair.

Any executive department or independent establishment having motor vehicles within the particular city or district may appeal from the decision of the Federal motor transport agent to the Coordinator, General Supply, for the whole area.

The Federal motor transport agent may be the local representative for motor transportation of one of the executive departments or independent establishments, but in his capacity as Federal motor transport agent he will carry out thoroughly the approved plan of the area coordinator.

2. Plans covering each city or populous district will be forwarded by area coordinator, general supply, to the Chief Coordinator, General Supply, Washington, D. C., who will, in addition to his other duties, carry out the provisions of this circular in coordinating all Federal motor transportation.

3. Upon approval of the plan by the Chief Coordinator, General Supply, it will be put into effect by the area coordinator, general supply, who will, from time to time, recommend such modifications as may appear desirable in the interests of economy and efficiency.

4. The head of each executive department or independent establishment of the Federal Government will name a representative for each area in which the department or establishment has motor vehicles in operation. This representative will inform the area coordinator, general supply, of the location, kind, and number of all motor transportation in his department or establishment in operation in the particular area and the duties assigned, and he will also furnish such other information as may be called for by the area coordinator. This representative will, in conference with the area coordinator, assist in formulating the coordinated plan for operating of all Federal motor transportation in the particular city or district.

5. The District of Columbia will, for purpose of coordinating motor transportation, form a separate area. A coordinator for motor transportation will be designated for this District, who will report to the Chief Coordinator, General Supply.

No. 36.

SEPTEMBER 28, 1921.

(Designates Col. Clarence O. Sherrill, in addition to his other duties, coordinator, motor transportation, District of Columbia.)

No. 37.

OCTOBER 4, 1921.

MODIFICATION OF CIRCULARS NOS. 7, 13, AND 18.

To heads of departments and establishments:

1. The Chief Coordinator, General Supply, is authorized to exempt from the operation of Bureau of the Budget Circular No. 7, July 8, 1921, as amended by Circular No. 13 (par. 3), July 21, 1921; and No. 18 (par. 3), August 17, 1921, such items as are known not to be in surplus in any department and such items as are obviously impracticable of transfer due to distant location of the requiring agency, service required in connection with delivery, public service utilities, etc.

2. Responsibility rests with every department head to insure that every proposed purchase of his department not specifically exempted is forwarded to the General Supply Committee for clearance.

3. The Chief Coordinator, General Supply, is authorized to withdraw exemptions at any time, and this order will not be construed as prohibiting transfer of exempted articles when in any case peculiar conditions arise which render the transfer desirable.

No. 38.

OCTOBER 7, 1921.

ESTIMATES FOR SUPPLEMENTAL AND DEFICIENCY APPROPRIATIONS.

To heads of departments and establishments:

1. The Bureau of the Budget is informed by the House Committee on Appropriations that a deficiency bill will be introduced about November 1, 1921, and that it is desired to incorporate all estimates for supplemental and deficiency appropriations in this one bill.

2. If supplemental or deficiency appropriations are actually needed in your department or establishment, they should be transmitted to the Director of the Bureau of the Budget, for his investigation and recommendations, before October 20, 1921. In this connection your attention is respectfully directed to the following provisions of the Budget and Accounting Act:

Sec. 203. (a) The President from time to time may transmit to Congress supplemental or deficiency estimates for such appropriations or expenditures as in his judgment (1) are necessary on account of laws enacted after the transmission of the Budget, or (2) are otherwise in the public interest. He shall accompany such estimates with a statement of the reasons therefor, including the reasons for their omission from the Budget.

Sec. 204. (b) Estimates for lump-sum appropriations contained in the Budget or transmitted under section 203 shall be accompanied by statements showing, in such detail and form as may be necessary to inform Congress, the manner of expenditure of such appropriations and of the corresponding appropriations for the fiscal year in progress and the last completed fiscal year. Such statements shall be in lieu of statements of like character now required by law.

3. The supporting documents should contain all facts necessary to enable the Director of the Budget to inform the President as to the necessity of such appropriations as being in the public interest and the reasons for their omission from the general appropriation acts.

4. If a lump-sum appropriation is requested, the estimate should be accompanied by statements similar in form to those which are required to be furnished in connection with annual lump-sum appropriations, as indicated in Bureau of the Budget Circular No. 11 and following the sample form appearing therein, varying such form as may be needful to meet the precise objects of expenditure in your department or establishment.

5. This letter is not to be construed as an invitation to seek excuses for a deficiency estimate. On the contrary, it is hoped and expected there will be no further requests, so that the present estimates of expenditures for 1922 may stand as they are, subject only to further reduction. Therefore, additional appropriations should be requested only in the event of urgent necessity. And your letter of transmission and supporting documents should indicate clearly that there has been no waste in expenditures nor obligations incurred against either the letter or spirit of the antideficiency act.

No. 39.

OCTOBER 10, 1921.

(Suggestion of Bureau of the Census as to use of certain machines for tabulating information, etc.)

No. 40.

OCTOBER 11, 1921.

"REPAY" PRINTING.

To heads of departments and establishments:

1. You have already given to the Public Printer an estimate of your requirements for printing for the fiscal year 1923. In addition to the regular allotments for printing under the control of the Public Printer, there has been for several years past a great deal of printing under what is known as the "repay system."

2. The Bureau of the Budget requests from you an estimate of how much of this repay work will actually be required during the next fiscal year. This information is necessary in order to estimate properly the total amount that will be required by the departments and independent establishments for printing.

3. This report should be prepared at once and proper consideration be given to eliminating therefrom all documents and reports as respects which, in the light of present knowledge, the public benefit is not commensurate with the expense.

No. 41.

OCTOBER 10, 1921.

FEDERAL TRAFFIC BOARD.

To the heads of departments and establishments:

1. For the purpose of effecting economies and better business administration throughout the Government service, in the handling of passenger and freight shipments, as well as shipments by express and parcel post, to utilize in a more practical way the various carrying facilities available and to institute methods for the prompt settlement of all transportation accounts, there is hereby established, under the general supervision of the Chief Coordinator for General Supply, a Federal Traffic Board.

2. It shall be the duty of the Federal Traffic Board to make a complete study of the traffic problems confronting the various departments and independent establishments of the Government. In cooperation with representatives of the Interstate Commerce Commission, and the carriers, it will establish uniform classifications for all commodities, including raw materials as well as finished products, shipped by the Government so that shipments may be made at the lowest tariff rates. The board will draw up plans for improving and standardizing methods of making shipments and for the settlement of accounts. These plans will be submitted to the Chief Coordinator, General Supply, who will take the necessary action in each case.

3. The activities of the board shall be directed by its chairman, under the title of coordinator for traffic, who shall, under the general direction of the Chief Coordinator for General Supply, select the necessary committees of the board, direct the time and place of all meetings, and the order in which the various elements of the problem shall be considered.

4. Immediately upon receipt of this circular, the head of each department and independent establishment making shipments from time to time shall designate one representative to serve as a member of the Federal Traffic Board. Heads of departments and independent establishments concerned will report the names of such representatives to the Chief Coordinator for General Supply, who, upon receipt of this information, shall call the initial meeting for purpose of organization.

5. Heads of the various departments of the Government are requested to furnish the coordinator for traffic such information and clerical assistance as he may require in the prosecution of the duties assigned to him. Such clerical force will be requested in proportion to the amount of business handled in the respective departments.

6. The classification of commodities and the instructions governing shipments and methods of settling transportation accounts that are adopted by the board and approved by the coordinator for traffic, after the procedure indicated in paragraph 2 of this circular, shall, as far as applicable and in conformity with law, be binding upon and govern all departments, bureaus, agencies, and offices of the Government in all shipments made by them.

7. All questions pertaining to the classification of materials or terminal, switching, freight rates, etc., which require the application of remedial measures, will be submitted to the coordinator for traffic, either for adjustment with the classification committees representing the carrier or for the presentation of a complaint with the Interstate Commerce Commission.

8. In the event of disagreement as to classifications, instructions governing shipments and methods of settling transportation accounts, or on methods of procedure, the case will be submitted to the Chief Coordinator for General Supply, whose decision shall be final as to the action taken, subject only to an appeal to the head of the department concerned.

No. 42.

OCTOBER 10, 1921.

FEDERAL SPECIFICATIONS BOARD.

To the heads of departments and establishments:

1. For the purpose of coordination and economy in the procurement of material and services used by the Government under specifications prepared in the various branches thereof, to avoid duplication of effort, and for the better utilization of resources and industries, there is hereby established a Federal Specifications Board.

2. It shall be the duty of the Federal Specifications Board to compile and adopt standard specifications for materials and services, and to bring specifications into harmony with the best commercial practice wherever conditions permit, bearing in mind the desirability of broadening the field of supply.

3. The Director of the Bureau of Standards, Department of Commerce, shall be ex-officio chairman of the board, and shall, subject to the approval of the Chief Coordinator for General Supply, select necessary committees, direct the time and place of meetings, and the order in which subjects shall be considered.

4. Immediately upon receipt of this circular, the head of each department and establishment purchasing materials or services in accordance with specifications prepared in such department shall designate one representative to serve as a member of the Federal Specifications Board, and shall designate such assistants to such members as may be deemed necessary, notifying the Chief Coordinator for General Supply of their selection. The Chief Coordinator for General Supply shall call the initial meeting of the board for purposes of organization.

5. The specifications that are prepared, adopted by the board, and approved by the Director of the Bureau of Standards shall, as far as applicable, be binding upon and govern all departments, bureaus, agencies, and offices of the Government. In the event of disagreement on specifications, or on methods of procedure, the case will be submitted to the Chief Coordinator for General Supply, whose decision shall be final as to the action taken, subject only to appeal to the head of the department concerned.

No. 43.

OCTOBER 17, 1921.

(Designates Commander *C. G. Mayo*, United States Navy, as coordinator of traffic, in addition to his other duties.)

No. 44.

NOVEMBER 1, 1921.

FEDERAL BOARD OF HOSPITALIZATION.

To the heads of departments and establishments:

1. For the purpose of coordinating the separate hospitalization activities of the Medical Department of the Army, the Bureau of Medicine and Surgery of the Navy, the Public Health Service, St. Elizabeths Hospital, the National Home for Disabled Volunteer Soldiers, the Office of the Commissioner of Indian Affairs, and the United States Veterans' Bureau, there is hereby organized a Federal Board of Hospitalization.

2. The board shall be composed of the following officials: An official to be designated by the President, who shall be known as Chief Coordinator and who shall be president of the board; the Surgeon General of the Army; the Surgeon General of the Navy; the Surgeon General of the Public Health Service; the superintendent of St. Elizabeths Hospital; the president, board of managers, National Home for Disabled Volunteer Soldiers; the Commissioner of Indian Affairs; and the Director of the United States Veterans' Bureau.

3. It shall be the duty of the board:

(a) To consider all questions relative to the coordination of hospitalization of the departments represented.

(b) To standardize requirements, to expedite the interdepartment use of existing Government facilities, to eliminate duplication in the purchase of supplies and the erection of buildings.

(c) To formulate plans designed to knit together in proper coordination the activities of the several departments and establishments, with a view to safeguarding the interests of the Government and to increasing the usefulness and efficiency of the several organizations, and to report to the President thereon.

4. The Chief Coordinator of the Board of Hospitalization shall preside over the board and be responsible for its efficiency and for developing its activities along practical lines. After a full discussion of any question by the board, the decision of the Chief Coordinator will be final as to any action to be taken or any policy to be pursued, but any member may appeal from the decision to his own immediate superior.

No. 45.

NOVEMBER 3, 1921.

(Appoints Brig. Gen. *Charles E. Sawyer* Chief Coordinator, Federal Board of Hospitalization.)

No. 46.

NOVEMBER 9, 1921.

MANUFACTURE BY GOVERNMENT ARSENALS.

To the heads of departments and establishments:

In the interest of further economy in the purchase of Government supplies, it is deemed advisable to give the War Department arsenals the opportunity to bid upon all articles required to be manufactured for the departments and establishments. It is therefore ordered:

1. That the heads of departments and establishments shall, when calling for bids for manufactured articles, forward a copy of the circular advertisement to the War Department Arsenal Orders Branch, Room 3062, Munitions Building, Washington, D. C. This agency will, when practicable, submit estimates for the same, which estimates shall receive from the heads of departments and establishments the same consideration as bids from commercial vendors.

2. Failure to submit an estimate or a reply to an inquiry before the time designated for the opening of bids will indicate the inability of the War Department factory concerned to manufacture the article or articles upon which a quotation has been asked.

3. The Arsenal Orders Branch will furnish to procuring officers of the departments and establishments full information regarding the conditions under which orders for manufacture above referred to are accepted.

No. 47.

NOVEMBER 22, 1921.

To the heads of departments and establishments:

1. Without limiting in any manner the jurisdiction or authority of heads of executive departments and independent establishments over the subject matter of Government contracts, as the same is now defined by law, but for the purpose of standardizing contract forms, securing the adoption of uniform policies as regards construction work and uniform practices of interpretation and negotiations both preceding and following the actual execution of such contracts, there is hereby established in the office of the Chief Coordinator, General Supply, a board to be known as the Interdepartmental Board of Contracts and Adjustments, the members and functions of which board shall be as follows:

2. The head of each executive department, including the Department of Justice, shall organize a department board made up of one representative of each bureau having the independent right to enter into contracts on behalf of the United States. Such department board shall recommend policies to control in the standardization of contracts within such department. They shall choose from their number a chairman and any other necessary officers.

3. The chairman of the several department boards, together with a representative designated by the head of any independent establishment now authorized by law to enter into important contracts, and the Chief Coordinator, General

Supply, shall constitute the Interdepartmental Board of Contracts and Adjustments, and shall serve without additional compensation.

4. This board shall be presided over by a chairman, who shall be the representative of the Secretary of the Treasury. The chairman shall, upon being advised of the complete membership, call the members of the board together for purposes of organization. The board shall adopt such by-laws and appoint such committees and subcommittees as may be deemed advisable and necessary to accomplish the end sought.

5. The functions of this board shall be:

First, to standardize in general, wherever possible, the forms and methods of contract letting to the end that a uniform policy on the part of the Government may control the making of such contracts, and with a further view to such changes in the form thereof as will tend to enlist the interest of the contractor on behalf of economy and promptness of execution, and eliminate those uncertainties of construction and hazards to be assumed by the contractor which have hitherto operated to increase the cost of Government work and supplies.

Second, to recommend general policies in the settlement of outstanding obligations arising out of contracts of the United States, such as methods of determining and enforcing damages, of settling disputes as to questions of fact, and of determining the final compensation of contractors.

Third, in an advisory capacity and when requested by the head of any department or establishment, or his representative upon the board—

(a) To review and revise important contracts and agreements made or about to be made on behalf of the United States.

(b) To advise officers authorized to contract and operating under contract as to the proper interpretation of contracts in process of execution.

(c) To assist in the negotiation of important contracts and agreements relating to personal services, supplies, or construction work.

6. The chairman of the board is charged with the responsibility for the efficient working thereof and for its development along the practical lines above indicated, and in such other ways as may become apparent after full study of the situation by the board or any committee thereof. After a full discussion of any question by the board and a full opportunity to the members to be heard thereon, the decision of the chairman will be final as to the action to be taken or the policy to be pursued. But any member may appeal therefrom to the head of his department or establishment, who shall have final authority in the matter. The chairman of the board may detail an assistant to sit with the board to represent him in matters of routine.

[042.2, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies.
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

WAR DEPARTMENT,
Washington, December 9, 1921.

MEMORANDUM CIRCULAR.

Circular No. 317, War Department, 1921 (Basic allowances of equipment special for Field Artillery troops, Table IV-C, Corps Brigade (Medium Field Artillery)--Supplemental to Circular No. 169, War Department, 1921--Rescission of Circular No. 179, War Department, 1920), is too long to be mimeographed. The Circular is being printed and will be distributed as soon as available.

(400.34, A.G.O.)

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

jim.

no printed copy for issue in
Corps Area - 4/13/22

WAR DEPARTMENT,
WASHINGTON, December 19, 1921.

CIRCULAR }
No. 324. }

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR POSTS, GARRISONS AND SEMIPERMANENT CAMPS, TABLE V—SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921—RESCISSION OF CIRCULAR NO. 293, WAR DEPARTMENT, 1920.

Circular No. 293, War Department, 1920, as amended by Circular No. 402, War Department, 1920, is rescinded and the following table with notes substituted therefor. This table with notes, supplemental to Circular No. 169, War Department, 1921, prescribes the basic allowances of equipment furnished to posts as distinguished from supplies and equipment furnished to troops and taken by them either into the field or from station when making a permanent change of station.

The articles mentioned herein will not accompany troops on permanent change of station, unless so ordered by the authority directing the movement, nor will they be permanently removed from the building in which located, except by order of the post or camp commander.

ABBREVIATIONS USED IN THIS TABLE.

T. B. A.—Table of basic allowances.

C. O.—Commanding officer of post, camp, and station.

Dept. Comdr.—Department commander.

C. Area Comdr.—Corps area commander.

Off.—Officer.

Wrnt. Off.—Warrant officer.

N. C. O.—Noncommissioned officer.

E. M.—Enlisted men.

Co.—Company.

Det.—Detachment.

Bn.—Battalion.

Q. M.—Quartermaster.

Hq.—Headquarters.

TABLE V.

Garrison equipment.

Quantity furnished.	Article.	Number.	Remarks.
0	Ammunition, saluting gun.....		As required for saluting purposes under Army Regulations.
Q	Apparatus, fire.....		See note 1.
Q	Automobiles, chemical engine and utility.....	1	For each fire truck and hose Co. composed of 3 or more sections.
Q	Automobiles, standard fire apparatus..	1	For each section of fire truck and hose Co.
Q	Axes, fire, with helvcs.....	4	For each section of fire truck and hose Co.
		1	Per Off., Wrnt. Off., and N. C. O. quarters. See note 1.
Q	Axes, hand, with helvcs.....		For Q. M., 1 per 1,000 men served; minimum allowance, 2.
Q	Axes, with helvcs.....	3	Per Co.
Q		20	For guardhouse and fatigue.
Q		3	Per hospital.
Q	Bag, money, leather.....	1	Per finance officer.
Q	Bags, mail.....	3	Per Bn. post.
Q		6	Per regimental post or larger.
Q	Baskets or hampers, laundry.....	2	Per Co., Det., and hospital ward.
Q		1	Per Hq. and supply office.
Q	Baskets, waste paper.....	1	For each table in amusement rooms. For other issues see note 6.

TABLE V—Continued.

Garrison equipment—Continued.

Issuing branch.	Article.	Number.	Remarks.
Q	Bedsteads, single, iron.....	1	Per E. M. in barracks and cantonments. Steel may be issued in lieu thereof.
Q	Benches, folding.....	32	For each assembly tent issued. Chairs, folding, be issued in lieu thereof.
Q	Blocks and pulleys, double.....		For Q. M., as approved by C. O.
Q	Blocks and pulleys, single.....		For Q. M., as approved by C. O.
Q	Brushes, dust.....	1	For each 25 E. M.
		1	Per building occupied as an office, gymnasium school.
		1	Per hospital ward.
Q	Brushes, stove blacking.....	1	For guardhouse.
Q	Brushes, marking.....	1	Per stove.
			2 per 2,000 men; for Q. M. as directed by C. O.; minimum allowance, 2.
Q	Brushes, paint, assorted.....	6	Per 1,000 E. M.; minimum allowance, 12.
Q	Brushes, water-closet.....	1	For each lavatory.
Q	Brushes, whitewash.....	1	For each latrine in camps, and when directed by C. O. thereof in permanent buildings.
Q	Buckets, galvanized-iron.....	1	For every 400 square feet floor space or fraction thereof in permanent buildings.
		1	For every 200 square feet of floor space or fraction thereof in semipermanent buildings.
			For Q. M., 1 per 100 E. M. served. See also note 1.
Q	Cans, ash.....	2	For each stove.
			For each furnace. Additional allowance provided by C. O.
Q	Cans, garbage, large.....	2	For each small mess.
		4	For each large mess.
Q	Cans, garbage, small.....	1	For Off., Wrnt. Off., and N. C. O. quarters.
Q	Card receivers, bedstead.....	1	Per bedstead or steel cot.
Q	Carts, hand.....	1	Per mess.
		1	For guardhouse.
			For Q. M., 1 per 2,000 men served.
Q	Carts, spraying and disinfecting.....	1	Per post, camp or station.
Q	Cases, pillow.....	2	Per pillow issued to E. M.
Q	Chairs, barrack.....	1	For each N. C. O.
		1	For every 3 E. M.
		2	Per squad for use in amusement rooms.
		4	For each Off., Wrnt. Off., and N. C. O. quarters.
			For schools and Off. and Wrnt. Off. messes as provided by C. O.
Q	Chairs, folding.....		As approved by C. O. In lieu of benches, fold until benches are available for issue.
Q	Chairs, office, with swivel.....	1	For each Off., Wrnt. Off., and N. C. O. and clerk duty in offices, when directed by C. O.
Q	Chairs, office, without swivel.....	2	Per Co. office.
		2	Per hospital office.
		2	Per office of C. O., adjutant, and supply officer.
		1	Per other Off. on duty in offices.
Q	Chairs, typewriter, with swivel.....	1	For each typewriter issued.
Q	China and glassware.....		See Note 2.
Q	Clocks, alarm.....	1	Per Co. or Det. mess.
Q	Clocks, office, 8-day.....	1	For each office, recreation room, and hospital ward occupied.
		1	For guardhouse.
Q	Clocks, time, electric.....	1	For each post, camp, or station, as provided for Sec. II, Bul. No. 33, W. D., 1920.
Q	Clothing, special, for fire truck and hose companies only:		
	Boots, rubber, hip, pair.....	1	Per E. M.
	Coats, rubber, fireman's.....	1	Per E. M.
	Gauntlets, fireman's, pair.....	1	Per E. M.
	Helmets, fireman's.....	1	Per E. M.
	Trousers, bunking, pair.....	1	Per E. M.
Q	Comforters.....	1	Per E. M. when directed by C. O. and until stock exhausted.
Q	Containers, galvanized-iron, assorted sizes.....		As approved by Dept. or C. Area Comdr.
Q	Coolers, water.....		As approved by C. O.
Q	Cots.....	1	Per E. M. in camps and semipermanent camp. Canvas or steel according to service conditions.
Q	Covers, mattress.....	2	Per mattress issued to E. M. Convertible into burlap sacks for field and camp service when issue authorized by C. O.

TABLE V—Continued.

Garrison equipment—Continued.

Article.	Number.	Remarks.
Cuspidors, with mats.....	1	Per squad in quarters.
	1	Per 2 squads in amusement rooms.
	2	Per room occupied as an office.
Cutters, paper, 26-inch.....	1	For use in other buildings as approved by C. O.
Desk, flat top.....	1	For each post, camp or station.
	1	For each Off., Wrnt. Off., N. C. O., and clerk on duty in offices, when directed by C. O.
Equipment, auto repair shops.....		As approved by Dept. Comdr. and C. Area Comdr.
Equipment, fire-fighting, first aid.....		See Note 1.
Equipment for salvage repair shops.....		See Note 3, as approved by Q. M.
Equipment, ice-harvesting, where necessary.....		As approved by Dept. Comdr. and C. Area Comdr.
Filing equipment.....		As approved by Dept. Comdr. and C. Area Comdr.
Fencing equipment:		
Fencing gloves, pair.....	8	To each Co. of Infantry stationed thereat.
Muskets, fencing.....	8	To each Co. of Infantry stationed thereat.
Masks, model 1916.....	8	To each Co. of Infantry stationed thereat.
Plastrons.....	8	To each Co. of Infantry stationed thereat.
Flags, garrison.....	1	For the Hq. of each Dept., C. Area, division, brigade regiment, Coast Artillery district, coast-defense command, United States Military Academy, general service school, special service school, recruit depot, and arsenal.
Flags, marking.....	5	Per regiment or separate Bn.
Flags, post.....	1	Per garrisoned post.
Flags, storm.....	1	Per each organization furnished a garrison flag.
Forage.....		See Table III, T. B. A.
Furniture, heavy, for quarters.....		See Note 4. Funds are available for issue only for officers' quarters.
Graders, road.....		As approved by Dept. or C. Area Comdr.
Grindstones, mounted.....	2	For post, camp, or station, or each 5,000 E. M. or fraction thereof.
Guns, saluting, complete.....	1	Per permanent post, camp, or station.
Hammers, assorted sizes.....		As approved by C. O.
Handles, mop.....		As approved by C. O. Normal allowance per annum is—
	2	Per 60 E. M. or fraction thereof.
	1	Per Off., Wrnt. Off., and N. C. O. quarters.
Harrows.....		As approved by Dept. or C. Area Comdr.
Hods, coal.....	2	With each range or stove, heating and laundry, installed.
Holders, twine.....	6	For Q. M. storehouse.
Holders, wrapping-paper, with cutter.....	6	For Q. M. storehouse.
Hooks, bale.....	1	Per 1,000 E. M.; minimum allowance 5.
Hooks, meat.....	10	Per 1,000 E. M.; minimum allowance 25.
Hose, garden, with nozzle, feet.....	100	Per Co. or Det. occupying separate quarters.
	100	Per post hospital.
	100	For bachelor officers' mess.
	100	For stable.
	100	For gun shed.
	50	Per Off., Wrnt. Off., and N. C. O. quarters.
	50	For use at guardhouse.
Irons, mosquito bar, single.....	2	For each mosquito bar issued.
Irons, soldering.....	6	Assorted sizes, for each post, camp or station and regiment.
Kitchen utensils.....		See Note 2.
Ladders, step.....	1	Per Co. or Det.
	1	Per hospital ward.
		For Q. M. as directed by C. O.
Ladles, soldering.....	1	Per 2,000 E. M. served; minimum allowance 2.
Lamps, hand, oil (when quarters are not lighted by electricity or gas).....	1	Per room, not lighted by hanging lamps in Off., Wrnt. Off., and N. C. O. quarters, including rooms in barracks.
Lamps, hanging, oil (when quarters are not lighted by electricity or gas).....	1	Per squad.
	1	Per Wrnt. Off. and N. C. O. quarters.
	2	Per Co. officers' quarters.
	3	Per field Off. quarters.
	1	Per 2 squads in recreation rooms.
	1	Per office.
	1	Per Co. or Det. kitchen.
	1	Per Co. mess.
	1	Per 10 beds in hospital wards.
	1	Per Bn. for guardhouse; minimum allowance 2.

TABLE V.—Continued.
Garrison equipment—Continued.

Issuing branch.	Article.	Number.	Remarks.
O	Locker, arm, pistol.....		Issued when arm racks are not available, accord to number of arms.
O	Locker, arm, revolver.....		Issued when arm racks are not available, accord to number of arms.
O	Locker, arm, rifle.....		Issued when arm racks are not available, accord to number of arms.
Q	Lockers, wall.....	1	Single or one-half double, per E. M. in barracks and cantonments.
Q	Machines, adding and calculating.....	1	Per 5,000 E. M. or major fraction thereof and as approved by Dept. Comdr. and C. Area Comdr.
Q	Machines, bread-cutting.....	1	Per Finance Off.
Q	Machines, hay-baling.....		As approved by Dept. Comdr. and C. Area Comdr. For consolidated messes only.
Q	Machines, mimeograph.....		As approved by Q. M.
Q	Machines, moving-picture.....	1	As approved by Dept. Comdr. and C. Area Comdr. For each post, camp, or station.
Q	Machines, mowing, animal-drawn.....	1	As approved by Dept. Comdr. and C. Area Comdr.
Q	Machines, paper, baling.....	1	As approved by Q. M.
Q	Mallets, wood.....	2	For each carpenter and blacksmith on duty.
Q	Mats, door.....	1	Per outside door in barracks, quarters, offices, guardhouses, mess halls, and post hospitals.
Q	Mattresses, single.....	1	For each single bed issued.
Q	Measures, liquid and dry, assorted.....	5	Per 2,000 men.
Q	Mops.....		As approved by C. O. Normal allowance 1 per men per month.
Q	Motors, electric.....		As approved by Dept. Comdr. and C. Area Comdr.
Q	Motors, gasoline.....		As approved by Dept. Comdr. and C. Area Comdr.
Q	Movers, car, railroad.....	2	For each post, camp, or station where there is a railroad siding.
Q	Mules, draft.....		Such number as may be necessary for authorized vehicles issued.
Q	Office supplies, expendable.....		As approved by C. O. See Note 5.
Q	Office supplies, nonexpendable.....		See Note 6.
Q	Padlocks, with keys.....		As approved by C. O.
Q	Pans, dust.....	1	Per 50 E. M.
		1	Per mess.
		1	Per building occupied as an office, gymnasium, school.
		1	Per hospital ward.
		1	For guardhouse.
Q	Pay-roll scheduling or change-listing machine.....	1	Per finance office, when directed by Dept. Comdr. C. Area Comdr.
Q	Paulins.....	20	For 5,000 E. M. or less; add 2 per 1,000 men in excess of 5,000.
Q	Picks, ice.....	1	Per Co. or Det.
		1	Per mess.
		1	For Q. M. and 1 per 1,000 E. M.
Q	Pillows.....	1	Per each single bed issued.
Q	Plows.....		As approved by Dept. Comdr. or C. Area Comdr.
Q	Pokers, fire, small.....	1	With each range or stove, heating or laundry, installed.
Q	Pokers, furnace.....	1	Per furnace and boiler installed.
Q	Polish, stove.....		As approved by C. O.
Q	Pots, glue.....	1	For every post; and 1 for every 1,000 men.
Q	Printing equipment.....		As approved by the War Department under Regulations No. 7, Joint Committee on Printing. (See Cir. Nos. 232 and 242, W. D., 1920.)
Q	Pullers, nail.....	1	For each commissary, 1 for each clothing issue room and 1 for each separate storehouse, 1 per company.
O	Racks, arm, automatic rifle (capacity, 12 rifles).....		Sufficient for arms issued.
O	Racks, arm, automatic pistol (capacity, 80 pistols).....		Sufficient for arms issued.
O	Racks, arm, rifle (capacity, 20 rifles).....		Sufficient for arms issued.
O	Racks, arm, rifle and pistol (capacity, 20 rifles and 20 pistols).....		Sufficient for arms issued.
Q	Rakes, fire.....	1	Per furnace and boiler installed.
Q	Rakes, steel.....	2	Per Co.
		2	Per hospital.
		1	Per separate Det.
			For guardhouse and for Q. M. as approved by C. O.
Q	Ranges, Army, No. 3.....	1	Per Off. quarters.
Q	Ranges, Army, No. 3a.....	1	Per Wmnt. Off. and N. C. O. quarters.

TABLE V—Continued.
Garrison equipment—Continued.

Quantity	Article.	Number.	Remarks.
1	Ranges, Army, No. 5.....	1	Per 60 E. M. or fraction thereof not otherwise provided for.
1	Refrigerators.....	1	Per bachelor Off. mess.
1		1	Per each mess.
1		1	Per Off., Wrnt. Off., and N. C. O. quarters.
2		2	Per commissary.
2		2	Per hospital. See Note 7 for size.
2		2	Per guardhouse and store house.
1	Rollers, road.....	1	As approved by Dept. or C. Area Comdr.
1	Rules, folding, 6-foot.....	1	For each carpenter on duty.
1	Sacks, bed.....	1	Per E. M. for field and camp service when authorized by C. O. Issued until supply is exhausted. Mattress cover replaces this article.
1	Safes, artillery.....	1	Per garrisoned Coast Artillery fort.
1	Safe cabinets, office.....	1	For Hq., Q. M., Finance Off., and hospital in posts, camps, or stations of 5,000 E. M. or less; 2 each in larger places.
2	Safes, office.....	2	For 5,000 E. M. or less; add 1 per 5,000 E. M. in excess of 5,000; 1 per finance office.
	Saws, circular.....		As approved by Dept. Comdr. and C. Area Comdr.
	Saws, crosscut.....		As approved by Dept. Comdr. and C. Area Comdr.
1	Saws, wood, one-man.....	1	Per Co. or Det. mess where wood is used as fuel.
1	Scales, postal.....	1	For each post office.
	Scales, platform, large.....		As approved by Dept. or C. Area Comdr.
	Scoops, assorted sizes.....		As approved by C. O.
	Scrapers, road.....		As approved by Dept. and C. Area Comdr.
	Sacrifiers.....		As approved by Dept. and C. Area Comdr.
	Screens, latrine.....		In camps, when latrines are not housed.
1		1	Per Co., hospital, and separate Det.
1	Screwdrivers, assorted sizes.....	1	For each Bn. or higher Hq.
	Scythes.....		As approved by C. O.
3	Seals, official.....	3	For each post, camp, or station.
	Shears, grass, hedge and pruning.....		As approved by C. O.
	Shears, sheep.....		As approved by Dept. and C. Area Comdr.
4	Sheets, bed.....	4	Per mattress issued for E. M. only.
1	Shovels, fire, small.....	1	For each range or stove, heating or laundry, installed.
1	Shovels, long-handle.....	1	Per 50 E. M.
1	Shovels, scoop.....	1	Per furnace or boiler installed.
1	Shovels, short-handle.....	1	Per 25 E. M.
	Shovels, snow.....		As approved by C. O.
	Sickles, hand.....		As approved by C. O.
	Stakes, iron.....		As approved by C. O.
1	Stencil plates, set.....	1	Per post, camp, or station of 5,000 E. M. or less; 2 for larger places, and 1 per regiment.
1	Stools, mess.....	1	Per E. M. in permanent barracks.
	Stools, office, revolving.....		As approved by C. O.
	Stovepipe, joints, elbows.....		As approved by C. O.
	Stoves, heating.....		As approved by C. O.
1	Stoves, laundry.....	1	Per Off., Wrnt. Off., and N. C. O. quarters, when required.
1	Stretchers, strapping, sets for boxes and bales (in place of stretchers, Signode). Supplies.....	1	For each post, camp, or station. See Table III, T. B. A.
4	Tables, flat-top, with drawers.....	4	Per Co. in amusement room.
1		1	Per 20 E. M. or fraction thereof, in Det. amusement rooms.
2		2	Per Co. office occupied.
			For offices as directed by C. O.
4		4	Per each assembly tent.
2	Tables, folding.....	2	Per company, and 1 per Det. mess.
2	Tables, kitchen, large.....	2	As approved by C. O. Normal allowance, 1 per 10 E. M.
2	Tables, mess.....	2	
1	Tables or stands, typewriter, with drawers.....	1	For each typewriter issued, when directed by C. O.
	Tableware and kitchen utensils.....		See Note 2.
	Tanks, gasoline, with or without pump.....		As approved by Dept. and C. Area Comdr.
	Tanks, oil, with or without pump.....		As approved by Dept. and C. Area Comdr.
1	Tapes, measuring, assorted sizes.....	1	Per 1,000 E. M.; minimum allowance 5.
1	Tents, assembly.....	1	Per organization to which a chaplain is assigned; additional tents will be issued as authorized by the C. O. not to exceed 1 per chaplain; may be taken on maneuvers when transportation permits; also issued in semipermanent camps, training areas, garrisons of occupation, and on similar service.

TABLE V—Continued.

Garrison equipment—Continued.

Issuing branch.	Article.	Number.	Remarks.
Q	Thermometers.....		As approved by C. O.
Q	Tongs, ice.....	1	Per Co. or Det.
		1	Per mess, and 2 per 1,000 E. M. for Q. M.; minimum allowance, 5.
Q	Tools, blacksmiths' and wheelwrights' set.....	1	For each post, camp, or station of 500 E. M. or less; 1 for every 1,000 E. M. in excess of 500. See Note 15, Table III, T. B. A.
Q	Tools, carpenters', set.....	1	For each post, camp, or station of 500 E. M. or less; for every 1,000 E. M. in excess of 500. See Note 15, Table III, T. B. A.
Q	Tools, electricians'.....		As approved by C. O. See Note 10, Table III, T. B. A.
Q	Tools, extra, blacksmiths', carpenters', cobbler's, horseshoers' and saddlers'.....		When necessary, will be issued on approval of Dept. Comdr. and C. Area Comdr.
Q	Tools, plumbers'.....		As approved by C. O.
Q	Tools, saddlers', set.....		As approved by C. O. See Note 13, Table III, T. B. A.
Q	Tools, tinners' and masons'.....		As approved by C. O. See Note 8.
Q	Tools, typewriter repair, sets.....		As approved by Dept. and C. Area Comdr.; not exceeding 1 for each 100 typewriters, or major fraction thereof, in use. See Note 35, Table III, T. B. A. and Note 9.
Q	Towels, huck.....		For use in offices; when approved by the C. O. for each person whose employment therein is authorized, not to exceed 2 per year.
O	Tractor, 2½ or 5 ton.....		When available and as approved by Dept. or C. Area Comdr.
Q	Traps, rat and mouse.....		As approved by C. O.
Q	Trucks, warehouse, 2-wheel.....	2	Per 1,000 E. M. or fraction thereof, when authorized by Dept. and C. Area Comdr.
Q	Trucks, warehouse, 4-wheel.....	2	Per 1,000 E. M. or fraction thereof, when authorized by Dept. and C. Area Comdr.
Q	Typewriters.....	3	Per 1,000 E. M.; minimum allowance 6; 2 per financial office of 5 or less employees; maximum allowance 10.
Q	Vehicles, animal-drawn, with harness, complete.....		As approved by Dept. and C. Area Comdr. From list of vehicles and harness approved as standard items of issue.
Q	Vehicles, motor.....		As approved by Dept. and C. Area Comdr. From list of vehicles and harness approved as standard items of issue.
Q	Vises, 6-inch.....	1	For each blacksmith, carpenter, and saddler on duty.
Q	Washbasins.....	1	Per 2 men where other lavatory facilities are not provided.
Q	Wheelbarrows.....		As approved by C. O.
Q	Wheels, emery.....	1	Per mess.
		1	Per carpenter on duty.
Q	Wringers, mop.....	1	Per Co. or Det.
		1	Per Co. mess.
		1	Per Co. in consolidated mess.
		1	Per Hq.
		1	Per hospital ward.
		1	Per guardhouse.

Notes pertaining to Table V.

The tool sets and extra tools for blacksmiths, carpenters, electricians, plumbers, painters, and masons herein authorized are procurable from allotment of funds made to quartermasters of posts, camps, and stations for repairs to barracks and quarters.

NOTE 1.

The following table gives the allowance of the different types of fire equipment which will be installed in each building on the basis indicated:

Classification of buildings.	Basis of installation, square foot area.	2-gal-ions soda and acid type extinguisher.	1-quart carbon tetrachloride extinguisher.	2-gal-ions foam type extinguisher.	Fire pails (water).	Fire pails (sand).	Barrels, fire.	Axes, fire.
	<i>Square feet.</i>							
Auditorium and theater.....	2,000	1	1					1
Barber shop.....	2,000	1						1
Blacksmith shop.....	2,000	1					1	
Barracks.....	2,000	1			4			1
Bathrooms.....	4,000	2	2					2
Bachelor officers' quarters.....	4,000	2						2
Carpenter shop.....	2,000	1					1	
Enlisted men's service clubs.....	4,000	2			8			2
Guard house.....	2,000	1			4			1
Gas filling station.....			1	1		1		
Hospital wards.....	2,000	1						1
Boiling plants (central).....	2,000	1					1	
Infirmaries (medical).....	2,000	1			4			
Canteens.....	2,000	1					1	
Laboratories.....	2,000		1			1		
Laboratories (troop).....	500				1			
Mess halls—separate buildings.....	2,000	1			4			1
Mechanical repair shop.....	2,000	1	1			1		1
Officers' clubs.....	2,000	1						1
Officers' and N. C. O. quarters.....	2,000	1						
Nurses' quarters.....	2,000	1	1					
Offices, executive headquarters.....	2,000	1	1					1
Post exchange.....	2,000	1	1					
Plumbing shop.....	2,000	1	1					
Post office.....	2,000	1						
Post laundry.....	2,000	1	1		4			1
Paint shop or paint storehouses.....	2,000		1	1		1		
Printing shop.....	2,000	1	1					
Refrigerator plant.....	2,000		1	1				1
Shoe, saddle, harness, and tailor shop.....	2,000	1						
Stable and wagon sheds.....	2,000						1	
Stable guardhouse.....	2,000	1					1	
Telephone exchange.....	2,000	1				1		
Garage and motor sheds.....	2,000		1	1		1		1
Warehouses, general supplies.....	2,000	1					1	1
Warehouses, medical.....	2,000		1	1		1	1	1

¹ One pump.

NOTE 2.

Allowance of tableware, kitchen utensils, china, and glassware for use in barracks.

Article.	Num-ber.	Remarks.
Boilers, 10-gal. rd. ordinary.....	1	Per 25 men or major fraction thereof.
Boilers, 15-gal. rd. ordinary.....	1	Per 25 men or major fraction thereof.
Boilers, 15-gal. rd. F. & S.....	1	Per 100 men or major fraction thereof.
Boilers, 20-gal. rd. F. & S.....	1	Per 100 men or major fraction thereof.
Bowls, chopping.....	1	Per 33 men or major fraction thereof.
Cleavers.....	1	Per 50 men or major fraction thereof.
Cutters, meat (sausage machine).....	1	Per 33 men or major fraction thereof.
Dippers.....	1	Per 10 men or major fraction thereof.
Forks, meat.....	1	Per 10 men or major fraction thereof.
Forks, table.....	1	Per man.
Graters.....	1	Per 33 men or major fraction thereof.
Griddles, 24 by 26.....	1	Per 25 men or major fraction thereof.
Hods, coal.....	1	Per 25 men or major fraction thereof.
Knives, bread.....	1	Per 14 men or major fraction thereof.
Knives, butcher.....	1	Per 14 men or major fraction thereof.
Knives, paring.....	1	Per 12 men or major fraction thereof.
Knives, table.....	1	Per man.
Ladles, soup.....	1	Per 10 men or major fraction thereof.
Mashers, potato.....	1	Per 50 men or major fraction thereof.
Measures, pint.....	1	Per 33 men or major fraction thereof.
Measures, quart.....	1	Per 33 men or major fraction thereof.
Mills, coffee.....	1	Per 100 men or major fraction thereof.
Openers, can.....	1	Per 25 men or major fraction thereof.
Pans, bake, 12-ration.....	1	Per 20 men or major fraction thereof.
Pans, cake.....	1	Per 33 men or major fraction thereof.
Pans, dish.....	1	Per 14 men or major fraction thereof.
Pans, frying.....	1	Per 14 men or major fraction thereof.
Pins, rolling.....	1	Per 100 men or major fraction thereof.
Saws, meat.....	1	Per 33 men or major fraction thereof.
Scales and weights.....	1	Per 100 men or major fraction thereof.
Scrapers, dough.....	1	Per 100 men or major fraction thereof.
Sets, carving.....	1	Per 33 men or major fraction thereof.
Sieves, flour.....	1	Per 50 men or major fraction thereof.
Skimmers.....	1	Per 33 men or major fraction thereof.
Spatulas.....	1	Per 50 men or major fraction thereof.
Spoons, basting.....	1	Per 10 men or major fraction thereof.
Spoons, mustard.....	1	Per 5 men or major fraction thereof.
Spoons, table.....	1	Per man.
Spoons, tea.....	1	Per man.
Stones, sand.....	1	Per 50 men or major fraction thereof.
Whips, wire, 10-inch.....	1	Per 50 men or major fraction thereof.
Whips, wire, 12-inch.....	1	Per 50 men or major fraction thereof.
Whips, wire, 16-inch.....	1	Per 50 men or major fraction thereof.

Any of the foregoing articles when available in stock may, upon approval of the commanding officer, be issued on memorandum receipt to officers, warrant officers and noncommissioned officers entitled to and occupying separate quarters.

NOTE 2—Continued.

Allowances of china and glassware.

Article.	Number.	Remarks.
css, gravy	1	Per 5 men.
css,	1	Per man.
css, sugar	1	Per 5 men.
css, pepper	1	Per 5 men.
css, salt	1	Per 5 men.
css, vinegar	1	Per 12 men.
css,	1	Per man.
css, pickle	1	Per 12 men.
css, vegetable	1	Per 2 men.
css, sirup	1	Per 5 men.
css, water	1	Per 10 men.
css, dinner	1	Per man.
css, soup	1	Per man.
css, meat	1	Per 10 men.
css, mustard	1	Per 5 men.
css,	1	Per man.
css,	1	Per man.

The total cost of the allowance for 100 men is \$180.45. The annual allowance for breakage is 20 per cent, \$36.09 per 100 men, and the quarterly allowance per 100 men is 5 per cent, or \$9.02. To determine the allowance for any number of men, calculate the allowance taking 100 men as the basis.

NOTE 3.

For posts or stations of 500 men or less the following equipment will be installed:

Clothing shop.

board, pressing.
 iron, electric, hand, 18-pound.
 machine, pressing, Hoffman or equal, with gas or gasoline attachment.
 machines, sewing, Singer or equal, with motor.

Shoe shop.

benches, with stands and lasts, complete.
 nailer, foot-power, Crowe or U. S. M. C.
 socks, shoe (24 pair each).
 shaft, finishing, equipped as follows:
 2 burnishing brushes.
 1 edge setter.
 1 edge trimmer.
 1 roll, bottom.
 1 roll, heel.
 stitcher, power-driven.

For posts or stations of over 500 and not exceeding 2,000 men, add the following:

Shoe shop.

benches, with stands and lasts, complete.
 machine, sewing, leather, Singer model 29/4 or equal.
 machine, nailing, power-driven, U. S. M. C., Model B or equal, in lieu of foot-power nailer.
 socks, shoe.
 In clothing shop add a complete set of equipment, as shown above, for every 1,500 men or fraction thereof served in excess of 500.
 In shoe shop add the following to equipment as shown above for every 2,000 men or fraction thereof served in excess of 2,000.
 benches, with stands and lasts complete.
 machine, sewing, leather, Singer, model 29/4 or equal.
 socks, shoe

Laundry for 2,000 men or over.

receiving trucks.	4	38-inch press machines.
marking machines.	4	sorting bins.
1000 marking pins.	1	25-gallon starch cooker.
20 marking trays.	1	set starch dip bowls.
40 by 72 inch D. C. washer.	3	ironing boards.
34 by 48 inch washer.	6	12-bushel canvas baskets.
30 by 30 inch washer.	2	28 extractors.
90-gallon soap tank.	1	bosom press.
metal washroom trucks.	1	body press.
40 by 90 inch steam tumbler.	1	press, N. R. Y.
120-inch roll flat-work ironer.		Power-plant equipment.
40-inch single-roll flat-work ironer.		

NOTE 4.

Heavy furniture for officers', warrant officers', and noncommissioned officers' quarters and bachelor officers' messes will be furnished as follows, provided funds are available:

For each set of married officers' quarters, below grade of field officer:

1 bedstead, double, with casters.	1 davenport (in United States only).
2 bedsteads, iron, single, for servants.	1 desk, library.
1 bookcase (where none is built in).	1 dresser.
2 chiffoniers (may be issued in lieu of chest of drawers).	1 hall tree.
2 chairs, library.	1 sideboard (where none is built in).
2 chairs, rocker, library.	1 table, dining, extension.
2 chests of drawers (or chiffoniers in lieu).	1 table, kitchen.
8 chairs, dining (2 may be with arms).	1 table, library.
	1 table, parlor.

For each set of field and general officers' quarters:

Same as for company officers, except that 1 bedstead, double, and 1 chiffonier or chest of drawers will be furnished for each bedroom occupied and 1 additional bookcase.

For each set of bachelor officers' quarters:

1 bedstead, iron, single.	1 desk, library.
1 bookcase (where none is built in).	1 hall tree.
2 chairs, library.	1 table, library.
1 chair, rocker, library.	1 table, parlor.
1 chest of drawers (or chiffonier in lieu).	

For each bachelor officers' mess where eight officers or less are accommodated:

2 bookcases (where none is built in).	1 sideboard (where none is built in).
8 chairs, dining (2 may be with arms).	1 table, dining.
2 chairs, rocker, library.	1 table, parlor.
2 chairs, library.	1 table, kitchen.

For the quarters of each married warrant officer and noncommissioned officer of grades 14 to 18, inclusive, furnished with public quarters:

1 bedstead, double, with casters.	1 table, dining, small.
1 chair, rocker, library.	1 table, kitchen.
6 chairs, dining.	1 table, parlor.

In addition to the allowances shown herein, refrigerators will be furnished in accordance with Note and ranges will be furnished as prescribed in Table V.

Mahogany type will be furnished in the United States and quartered white oak and wicker in the Tropics.

NOTE 5.

The following is the normal quarterly consumption of expendable office supplies authorized for use in garrisons. This allowance may be increased by C. O. when necessary.

Articles.	Number.	Remarks.
Bands, rubber, assorted.....	1	Gross for each desk issued.
Books, note, stenographer's.....	2	For each stenographer on duty.
Cards, index, blank.....	1	As approved by C. O.
Clips, paper, assorted.....	1	Gross for each desk issued.
Envelopes, official, assorted.....	1	As approved by C. O.
Erasers, rubber, soft.....	1	For each desk issued.
Erasers, typewriter.....	1	For each typewriter issued.
Fasteners, paper, brass.....	1	Per box for each desk issued.
Folders, manila, filing.....	1	As approved by C. O.
Ink, liquid, black.....	4	Ounces for each desk issued.
Ink, liquid, red.....	2	Ounces for each desk issued.
Pads, writing, assorted.....	1	Such quantities as may be necessary, not exceeding 6 for each desk issued.
Paper, adding machine.....	1	As approved by C. O.
Paper, blotting, 4 by 9½ inches.....	6	Sheets for each desk issued.
Paper, blotting, 19 by 24 inches.....	3	Sheets for each desk issued.
Paper, carbon.....	1	As approved by C. O.
Paper, typewriter, assorted.....	1	As approved by C. O.
Paste, office, or mucilage.....	2	Ounces for each desk issued.
Pencils, assorted.....	6	For each desk issued.
Pens, steel.....	12	For each desk issued.
Ribbons, typewriter.....	2	For each typewriter issued.
Tacks, thumb.....	1	As approved by C. O.
Tape, office.....	1	Roll for each desk issued.
Wax, sealing.....	2	Ounces for each desk issued.

NOTE 5—Continued.

The following annual allowance is authorized:

Articles.	Number.	Remarks.
Readers, for publications.....	1	For each publication furnished.
Pads, calendar.....	1	For each desk issued.
Penholders.....	2	For each desk issued.
Pens, office, cones.....	1	For each desk issued.
Ribbons, adding machine.....	1	For each machine issued.

NOTE 6.

The following is the allowance of nonexpendable office supplies authorized:

Articles.	Number.	Remarks.
Baskets, desk.....	2	For each desk issued.
Baskets, waste-paper.....	1	For each desk issued.
Boards, filing.....	1	As approved by C. O. Not exceeding 2 for each desk issued.
Book supports, desk.....	1	Pair for each officer on duty at headquarters, and supply offices.
Cups, sponge.....	2	For each desk issued.
Dictionaries, office.....	1	For each office occupied.
Dictionaries, unabridged.....	1	For each post headquarters.
Drawers, steel.....	1	For each desk issued.
Indexes, card.....	1	As approved by C. O.
Inkstands.....	2	For each desk issued.
Machines, numbering.....	1	For post headquarters, supply officer, and hospital.
Machines, paper-fastening.....	1	For each office occupied.
Machines, pencil-sharpening.....	1	For each office occupied.
Machines, perforating.....	1	For headquarters, supply officer, and hospital.
Openers, envelope.....	1	For each desk issued.
Pads, desk.....	1	For each desk issued.
Pads, rubber, stamp.....	1	For each desk issued.
Pen trays, glass.....	1	For each desk issued.
Punches, hand.....	1	For each desk issued.
Racks, dictionary.....	1	For each post headquarters.
Racks, rubber stamp.....	1	For each headquarters and supply office.
Rollers, office.....	1	For each desk issued.
Shears, office.....	1	For each office occupied.
Stands, calendar.....	1	For each desk issued.
Stamps, rubber, dating.....	1	For each desk issued.
Stamps, time-clock.....	1	For each headquarters and 1 for headquarters of each branch or arm of services on duty at station.
Weights, paper.....	2	For each desk issued.

NOTE 7.

Refrigerators are provided in four sizes:

- (a) Battery size for messes of over 100 men, also for post exchanges.
- (b) Company sizes, for messes of less than 100 men.
- (c) Officers' size, for officers' quarters and small messes.
- (d) Noncommissioned officers' size, for noncommissioned officers' quarters.

NOTE 8.

Tinners' and masons' tools are not issued in sets. For ordinary requirements following will suffice:

For tinners' use.

1 pot, fire.
 2 irons, soldering, 2-pound.
 2 irons, soldering, 1-pound.
 1 snips, pair, No. 8.
 1 snips, pair, No. 10.
 4 handles, soldering.
 4 handles, file.
 2 files, flat, 12-inch.
 2 files, half-round, 12-inch.
 1 mallet.
 1 dividers, pair, 9-inch.
 1 hammer, riveting.
 1 hammer, tinners'.
 1 hammer, raising.
 1 set rivet.
 1 punch, pricker.
 1 punch, solid, $\frac{1}{4}$ -inch.

For tinners' use—Continued.

1 rule, 2-foot.
 1 square, steel.
 1 stake, beakhorn.
 1 machine, forming.
 1 pliers, pair.

For masons' use.

1 sack, canvas, grip.
 3 hammers, stone, mason.
 3 tools, stone-dressing.
 1 level.
 1 marker, double.
 1 square, steel.
 1 trowel, large.
 1 trowel, pointing.
 1 plumb bob.
 1 tape, linen.

NOTE 9.

Typewriter tools. Set.

(a) Underwood typewriter tools, 1 each:

Hammer, T-1.
 Combination screwdriver, complete, T-2.
 Screwdriver:
 6 $\frac{1}{2}$ by $\frac{1}{8}$ inch blade, T-3.
 4 $\frac{1}{2}$ by $\frac{1}{8}$ inch blade, T-4.
 6 by $\frac{1}{8}$ inch blade, T-5.
 5 by $\frac{1}{8}$ inch blade, T-6.
 Type-cutting pliers, T-7.
 Type-bar penning pliers, T-9.
 Side aligning pliers, T-10.
 Wire nippers, T-12.
 Long, flat nose pliers, T-13.
 Parallel pliers, 4 $\frac{1}{2}$ -inch, T-14.
 Three-prong pliers, 6-inch, T-15.
 Universal bar twister, T-19.
 Type-bar twister, T-20.
 Oil-can, T-21.
 Dowel-pin punches (set of 5), T-23.
 Center punch, T-24.
 Cylinder end counterbore, T-25.
 Soldering gage, T-26.
 Steel anvil block, T-28.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

*in Corp Area
 for issue. 4/13/22*

CIRCULAR }
No. 326. }

WAR DEPARTMENT,
WASHINGTON, *December 23, 1921.*

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR FIELD ORGANIZATIONS OF THE QUARTERMASTER CORPS—SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921—RESCISSION OF CIRCULAR NO. 219, WAR DEPARTMENT, 1920.

Circular No. 219, War Department, 1920, is rescinded, and the following tables with notes substituted therefor. These tables with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribe the basic allowances of equipment special for field organizations of the Quartermaster Corps.

TABLE IV-L.

- Section I.—Motorcycle company.
 II.—Motor transport company.
 III.—Motor transport company, when equipped with tractors and trailers.
 IV.—Motor transport command.
 V.—Motor repair section.
 VI.—Motor repair company.
 VII.—Motor repair battalion.
 VIII.—Reconstruction park.
 IX.—Division train, Infantry division.
 X.—Corps train.
 XI.—Army train.
 XII.—Remount squadron.
 XIII.—Field remount depot (capacity 400 animals).
 XIV.—Field remount depot (capacity 1,200 and 2,400 animals), embarkation remount depots (2,400 animal capacity), camp remount depots (2,400 animal capacity).
 XV.—Wagon company (2 section), peace strength.
 XVI.—Wagon train, Army corps.
 XVII.—Wagon company (3 section).
 XVIII.—Pack train.
 XIX.—Division train (wagon-pack), Cavalry division.
 XX.—Wagon train, consisting of train headquarters, three wagon companies of two sections each, and medical detachment.
 XXI.—Wagon company (2 section), war strength.
 XXII.—Bakery company.
 XXIII.—Laundry company.
 XXIV.—Salvage company.
 XXV.—Sales commissary unit.
 XXVI.—Clothing and bath unit.
 XXVII.—Service company, Infantry division.
 XXVIII.—Service battalion.
 XXIX.—Graves registration unit.

SECTION I.—MOTOR CYCLE COMPANY.

[Peace and war strength.]

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Cars, motor, 5-passenger (P1 or P2) (see Note 1).	(a)	.....	a 14 per company. To be issued only to motorcycle companies attached to division headquarters.
Q	Cars, motor, 7-passenger (P3 or P4) (see Note 1).	(a)	.....	a 2 per company. To be issued only to motorcycle companies attached to division headquarters.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	a 32 per company.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	a 1 to each officer and enlisted man.
Q	Tools, kits, No. 3 (Note 4).....	(a)	.....	a 1 per motorcycle mechanic.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	a 2 per company.

SECTION II.—MOTOR TRANSPORT COMPANY.

[Peace and war strength.]

Q	Cars, motor, 5-passenger (P1 or P2) (see Note 1).	(a)	.....	a 1 per company.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	Do.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	a Peace strength, 1 per officer, first sergeant, mechanic, and cook; war strength, 1 per officer, first sergeant, mechanic, assistant truckmaster, and cook.
O	Rifles.....	(a)	.....	a 1 to each enlisted man not armed with pistol.
Q	Tools, kits, No. 1 (Note 2).....	(a)	.....	a 1 per motorcycle mechanic.
Q	Trailers, kitchen (K1) (see Note 1).	(a)	.....	a 1 per company.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	a 2 per company.
Q	Trucks, cargo (MC or HC) (see Note 1).	(a)	.....	a 27 per company. 1 1/2-ton trucks when on duty with divisions; 1 1/4-ton or 3-ton trucks when on duty with corps or army, as necessity requires.
Q	Trucks, tank, 750-gallon (TK2) (see Note 1).	(a)	.....	a 2 per company.

SECTION III.—MOTOR TRANSPORT COMPANY WHEN EQUIPPED WITH TRACTORS AND TRAILERS.

[Peace and war strength.]

Q	Cars, motor, 5-passenger (P1) (see Note 1).	(a)	.....	a 1 per company.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	Do.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	a Peace strength, 1 per officer, first sergeant, mechanic, and cook; war strength, 1 per officer, first sergeant, assistant trainmaster, mechanic, and cook.
O	Rifles.....	(a)	.....	a 1 to each enlisted man not armed with pistol.
Q	Tools, kits, No. 1 (Note 2).....	(a)	.....	a 1 per motor mechanic.
O	Tractors:			
O	15-20 ton.....	(a)	.....	a 10 when 15-20 ton tractor units are used.
O	5-10 ton.....	(a)	.....	a 20 when 5-10 ton tractor units are used.
O	2 1/2-ton.....	(a)	.....	a 30 when 2 1/2-ton tractor units are used.
Q	Trailers, 1 1/2-ton, 4-wheel, tank (X1W) (see Note 1).	(a)	.....	a 10 when 15-20 ton tractor units are used; 20 when 5-10 ton tractor units are used; 30 when 2 1/2-ton tractor units are used.
Q	Trailers, 1 1/2-ton, 4-wheel, cargo (X3) (see Note 1).	(a) M	.....	a NOTE M.—Number of trailers will be determined by the capacity of the tractor and the road over which it is operating.
Q	Trailers, 4-ton, 4-wheel, cargo (X5) (see Note 1).	(a) M	.....
Q	Trailers, kitchen (K1) (see Note 1).	(a)	.....	a 1 per company.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	a 2 per company.

SECTION IV.—MOTOR TRANSPORT COMMAND.

[Peace and war strength.]

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Cars, motor, 5-passenger (P1 or P2) (see Note 1).	(a)	.....	• 1 per command.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	Do.
Q	Pistols, automatic, caliber .45 Model 1911.	(a)	.....	• 1 to each officer and enlisted man.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	• 1 per command.

SECTION V.—MOTOR REPAIR SECTION.

[For duty with mobile field organizations. Peace and war strength.]

Q	Cars, motor, 5-passenger (P1) (see Note 1).	(a)	.....	• 1 per section.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	Do.
Q	Motorcycles, solo (M) (see Note 1).	(a)	.....	Do.
Q	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	• 1 to each officer and enlisted man.
	Tools (see Note 2):			
Q	Kits, No. 2.....	(a)	.....	• 1 per blacksmith.
Q	Kits, Nos. 4 and 6.....	(a)	.....	• 1 per carpenter and wheelwright.
Q	Kits, No. 7.....	(a)	.....	• 1 per machinist.
	Mechanics:			
Q	Kits, No. 1.....	(a)	.....	• 1 per motor mechanic.
Q	Kits, No. 3.....	(a)	.....	• 1 per motorcycle mechanic.
Q	Kits, No. 5.....	(a)	.....	• 1 per welder.
Q	Kits, No. 8.....	(a)	.....	• 1 per carburetion and ignition mechanic.
Q	Kits, Nos. 9 and 15.....	(a)	.....	• 1 per radiator and sheet metal worker.
Q	Kits, No. 11.....	(a)	.....	• 1 per tire repairer.
Q	Tractors, 5-ton, Artillery.....	(a)	.....	• 1 per section.
Q	Trailers, 4-ton, 4-wheel, stockroom (X5S) (see Note 1).	(a)	.....	Do.
Q	Trailers, 3-ton, 4-wheel, tire press (X7T) (see Note 1).	(a)	.....	Do.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	Do.
Q	Trucks, 1½-2-ton, cargo (MC) (see Note 1).	(a)	.....	Do.
Q	Trucks, 3-5-ton, cargo (HC) (see Note 1).	(a)	.....	Do.
Q	Trucks, tank, 750 gallons (TK2) (see Note 1).	(a)	.....	Do.
Q	Trucks, motor transport machine shop (E4) (see Note 1).	(a)	.....	Do.
Q	Trucks, wrecking (R15) (see Note 1).	(a)	.....	Do.

SECTION VI.—MOTOR REPAIR COMPANY.

[Peace and war strength.]

Q	Cars, motor, 5-passenger (P1) (see Note 1).	(a)	.....	• 2 per company.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	• 4 per company.
Q	Motorcycles, solo (M) (see Note 1).	(a)	.....	Do.
	Tools (see Note 2):			
Q	Kits, No. 2.....	(a)	.....	• 1 per blacksmith.
Q	Kits, Nos. 4 and 6.....	(a)	.....	• 1 each per carpenter and wheelwright.
Q	Kits, No. 7.....	(a)	.....	• 1 per machinist.
	Mechanics:			
Q	Kits, No. 1.....	(a)	.....	• 1 per motor mechanic.
Q	Kits, No. 5.....	(a)	.....	• 1 per welder.
Q	Kits, No. 8.....	(a)	.....	• 1 per carburetion and ignition mechanic.
Q	Kits, Nos. 9 and 15.....	(a)	.....	• 1 per radiator and sheet metal worker.
Q	Kits, Nos. 11 and 13.....	(a)	.....	• 1 per tire repairer.
Q	Kits, No. 14.....	(a)	.....	• 1 per battery repairer.

SECTION VI.—MOTOR REPAIR COMPANY—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
	Mechanics—Continued.			
Q	Kite, No. 10.....	(a)	.....	a 1 per trimmer and upholsterer.
Q	Kits, No. 12.....	(a)	.....	a 1 per painter.
Q	Kits, No. 3.....	(a)	.....	a 1 per motorcycle mechanic.
Q	Tractors, 5-ton, Artillery.....	(a)	.....	a 2 per company.
Q	Trailers, 4-ton, 4-wheel, cargo (X5) (see Note 1).	(a)	.....	Do.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	a 4 per company.
Q	Trucks, 1½-2-ton, cargo (MC) (see Note 1).	(a)	.....	Do.
Q	Trucks, 3-5-ton, cargo (HC) (see Note 1).	(a)	.....	Do.
Q	Trucks, tank, 750 gallons (TK2) (see Note 1).	(a)	.....	Do.
Q	Trucks, wrecking (R15) (see Note 1).	(a)	.....	Do.

SECTION VII.—MOTOR REPAIR BATTALION.

[Peace and war strength.]

Q	Ambulances (A1) (see Note 1).....	(a)	.....	a Peace strength, 1 per battalion attached medical; war strength, 2 per battalion attached medical.
Q	Cars, motor, 5-passenger (P1) (see Note 1).	(a)	.....	a 3 per battalion.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	a Peace strength, 8 per battalion; war strength, 10 per battalion (2 attached medical).
Q	Motorcycles, solo (M) (see Note 1)..	(a)	.....	a 6 per battalion.
	Tools (see Note 2):			
Q	Kits, No. 2.....	(a)	.....	a 1 per blacksmith.
Q	Kits, Nos. 4 and 6.....	(a)	.....	a 1 per carpenter and wheelwright.
Q	Kits, No. 7.....	(a)	.....	a 1 per machinist.
	Mechanics:			
Q	Kits, No. 1.....	(a)	.....	a 1 per motor mechanic.
Q	Kits, No. 5.....	(a)	.....	a 1 per welder.
Q	Kits, No. 8.....	(a)	.....	a 1 per carburetion and ignition mechanic.
Q	Kits, Nos. 9 and 15.....	(a)	.....	a 1 per radiator and sheet metal worker.
Q	Kite, Nos. 11 and 13.....	(a)	.....	a 1 per tire repairer.
Q	Kits, No. 14.....	(a)	.....	a 1 per battery repairer.
Q	Kits, No. 10.....	(a)	.....	a 1 per trimmer and upholsterer.
Q	Kits, No. 12.....	(a)	.....	a 1 per painter.
Q	Kits, No. 3.....	(a)	.....	a 1 per motorcycle mechanic.
Q	Tractors, 5-ton, Artillery.....	(a)	.....	a 4 per battalion.
Q	Trailers, 4-ton, 4-wheel, cargo (X5) (see Note 1).	(a)	.....	Do.
Q	Trucks, 1-ton, cargo (LC2) (see Note 1).	(a)	.....	a 9 per battalion (1 attached medical).
Q	Trucks, 1½-2-ton, cargo (MC) (see Note 1).	(a)	.....	a 8 per battalion.
Q	Trucks, 3-5-ton, cargo (HC) (see Note 1).	(a)	.....	Do.
Q	Trucks, tank, 750 gallons (TK2) (see Note 1).	(a)	.....	Do.
Q	Trucks, wrecking (R15) (see Note 1).	(a)	.....	a 4 per battalion.

SECTION VIII.—RECONSTRUCTION PARK.

[War strength.]

Component motor transport organizations of reconstruction park are: 2 motor transport commands (Tables of Organization 194-W); 1 motor transport company (Tables of Organization 95-W); 3 motor repair battalions (Tables of Organization 294-W).

Basic allowances of equipment special for reconstruction park are identical with basic tables for component organizations plus the following additional for reconstruction park headquarters:

Q	Cars, motor, 5-passenger (P1 or P2) (see Note 1).	(a)	.....	a 1 per reconstruction park headquarters.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	a 1 per officer, park headquarters.

SECTION IX.—DIVISION TRAIN—INFANTRY DIVISION.

(Peace and war strength.)

Component motor transport organizations of division train, Infantry division (peace strength), are: Train headquarters (1 motor transport command, Tables of Organization 194-P, plus 5 additional enlisted personnel from animal transport); 1 motor cycle company (Tables of Organization 97-P); 2 motor transport companies (Tables of Organization 95-P); 1 motor repair section (Tables of Organization 96-P).
 Train headquarters (war strength), personnel equivalent to 1 motor transport command (Tables of Organization 194-W); 1 motorcycle company (Tables of Organization 97-W); 4 motor transport companies (Tables of Organization 95-W); 2 motor repair sections (Tables of Organization 96-W).
 Basic allowances of equipment special for motor transport command, motorcycle company, motor transport company, and motor repair section are identical with basic tables. Additional allowances of equipment special for *train headquarters* are:

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Cars, motor, 5-passenger (P1 or P2) (see Note 1).	(a)	.....	α 1 per train headquarters.
Q	Motorcycles, with side cars (M-) (see Note 1).	(a)	.....	Do.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	α 1 per officer and enlisted man.
Q	Trucks, ½-ton, cargo (LC2) (see Note 1).	(a)	.....	α 1 per train headquarters.

SECTION X.—CORPS TRAIN.

(Peace and war strength.)

Component motor transport organizations of corps train (peace strength) are: 4 motor transport commands (Tables of Organization 194-P); 9 motor transport companies (Tables of Organization 95-P); 2 motorcycle companies (Tables of Organization 97-P); 2 motor repair sections (Tables of Organization 96-P).
 (War strength) 7 motor transport commands (Tables of Organization 194-W); 25 motor transport companies (Tables of Organization 95-W); 2 motor cycle companies (Tables of Organization 97-W); 3 motor repair sections (Tables of Organization 96-W).
 Basic allowances of equipment special for above components are identical with basic tables plus the following additional for *corps transport officers*:

Q	Cars, motor, 5-passenger (P1 or P2) (see Note 1).	(a)	.....	α War strength, 1 for corps transport officers.
Q	Cars, motor, 5-passenger (P3 or P4) (see Note 1).	(a)	.....	α Peace strength, 1 for corps transport officers.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	α 1 per officer.

SECTION XI.—ARMY TRAIN.

(War strength.)

Component motor transport organizations of the army train: 5 motor transport commands (Tables of Organization 194-W); 19 motor transport companies (Tables of Organization 95-W); 2 motorcycle companies (Tables of Organization 97-W); 4 motor repair sections (Tables of Organization 96-W); 4 motor repair battalions (Tables of Organization 294-W).
 Basic allowances of equipment special for above components are identical with basic tables plus the following additional for *motor transport officers* and *attached medical*:

Q	Ambulances, motor (A1) (see Note 1).	(a)	.....	α 3 additional—attached medical.
Q	Cars, motor, 7-passenger (P3 or P4) (see Note 1).	(a)	.....	α 1 for motor transport officers.
Q	Motorcycles with side cars (M-) (see Note 1).	(a)	.....	α 4 additional—attached medical.
Q	Trucks, ½-ton, cargo (LC2) (see Note 1).	(a)	.....	Do.
O	Pistols, automatic, caliber .45, Model 1911.	(a)	.....	α 1 for motor transport officers.

NOTE 1.

BASIC ALLOWANCES OF UNIT EQUIPMENT FOR MOTOR VEHICLES ISSUED TO THE ARMY (AMENDMENT TO MOTOR TRANSPORTATION IN NOTE 30, CIRCULAR NO. 169, WAR DEPARTMENT, 1921).

[Motor vehicles will be equipped with tools and accessories in accordance with the following lists.]

Motor transportation.

UNIT AMBULANCE AND RECONNAISSANCE CAR EQUIPMENT AND UNIT G. M. C. $\frac{1}{2}$ -TON LIGHT DELIVERY TRUCK EQUIPMENT, AS FOLLOWS:

One canvas tool roll assembled with the following tools:

- | | |
|--|--|
| 1 chisel, cold, $\frac{3}{4}$ -inch flat. | 1 wrench, monkey, 14-inch, with knife handle. |
| 1 extractor, cotter pin. | 1 wrench, adjustable, 8-inch, crescent. |
| 1 file, 10-inch flat, smooth, with handle. | 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{4}$ inch. |
| 1 gun, grease. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 hammer, machinist's. 2-pound, ball peen with handle. | 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{1}{2}$ inch. |
| *1 hub-cap wrench. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 jack, 2-ton capacity. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 punch, solid, $\frac{1}{4}$ -inch solid taper. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 pliers, combination, 6-inch. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| *1 rim-brace socket wrench. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 screw driver, 8-inch, perfect handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 screw driver, 12-inch, perfect handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 tire irons (set of 2). | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 tire foot pump. | 1 wrench, spark plug, $\frac{1}{2}$ -inch, 18-thread, $\frac{1}{4}$ -inch pipe thread. |
| 1 tire-pressure gauge. | |
| *1 valve tappet wrenches (set). | |

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type of tools will be supplied for the particular vehicle for which tool roll is required.

Accessories:

- | | |
|--|---|
| 1 brush, engine-cleaning. | *1 patch, shoe (inside blow-out). |
| 1 bucket, canvas, collapsible. | *1 rim, tire. |
| *1 casing. | 1 sponge. |
| 50 cotter pins, assorted. | *2 side light bulbs. |
| 1 extinguisher, fire, with bracket. | *2 skid chains (1 pair). |
| 1 emery cloth or sandpaper (sheet). | 1 towing cable. |
| *5 fuses. | *1 tail light bulb. |
| 1 friction tape, $\frac{1}{4}$ -inch (1 roll). | *2 tubes, inner. |
| *2 headlight bulbs. | 1 tire talc or powdered chalk (1 can). |
| 1 lock and chain for spare tire. | $\frac{1}{2}$ waste ($\frac{1}{2}$ pound). |
| *2 plugs, spark. | 1 box (5) inner tube valve insides. |
| 2 patches, cement (inner tube). | *1 exhaust valve. |
| 2 patches, cementless (inner tube). | 1 tube, cement (inner tube patching). |

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type will be furnished for the particular vehicle for which supplies are required. Items marked (†) will not be issued on G. M. C. $\frac{1}{2}$ -ton light delivery truck.

UNIT MOTOR CYCLE EQUIPMENT AS FOLLOWS:

One canvas tool roll assembled with the following tools:

- | | |
|--|--|
| 1 chisel, cold, $\frac{3}{4}$ -inch flat. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 drive-chain repair tool. | 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{1}{2}$ inch. |
| 1 file, 10-inch flat, smooth, with handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 hammer, machinist's, 1-pound, ball peen. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 pliers, 6-inch combination. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 screw driver, 6-inch, perfect handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 tire pressure gauge. | |
| 1 tire pump (motorcycle type). | |
| 1 wrench, adjustable, 8-inch crescent. | |
| $\frac{1}{2}$ wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{4}$ inch. | |

SPECIAL NOTE.—The tool roll listed above will be the same on all motor cycles.

NOTE 1—Continued.

Accessories:

- | | |
|---|---|
| <ul style="list-style-type: none"> 1 brush, cleaning. 1 box (5) inner tube valve insides. 2 connecting links, offset, $\frac{1}{2}$ by $\frac{1}{2}$ inch pitch. 2 connecting links, $\frac{1}{2}$ by $\frac{1}{2}$ inch pitch. 2 connecting link springs. 1 double repair link, $\frac{1}{2}$ by $\frac{1}{2}$ inch pitch. 12 fillister head screws, assorted sizes. 1 friction tape $\frac{1}{2}$-inch (1 roll). 12 lock washers, assorted sizes. | <ul style="list-style-type: none"> *2 nuts, front wheel axle. *2 nuts, rear wheel axle. 6 patches, cementless, assorted sizes. 1 patch, 28 by 3 inches inside blowout. 2 plugs, spark, $\frac{1}{2}$-inch. 1 sandpaper or emery cloth, 4 by 4 inches (1 piece). 1 tire talc or powdered chalk (small can). $\frac{1}{2}$ waste ($\frac{1}{2}$ pound). *1 exhaust valve. |
|---|---|

SPECIAL NOTE.—Items marked (*) differ on each type of motorcycle. Proper size and type will be furnished for the particular motor cycle for which supplies are required.

UNIT PASSENGER CAR EQUIPMENT AS FOLLOWS:

One canvas tool roll assembled with the following tools:

- | | |
|--|--|
| <ul style="list-style-type: none"> 1 chisel, cold, $\frac{3}{4}$ inch, flat. 1 extractor, cotter pin. 1 file, 10-inch, flat, smooth, with handle. 1 gun, grease. 1 hammer, machinist's, 2 pound, ball peen. *1 hub-cap wrench. 1 jack, 1-ton capacity. 1 punch, solid, $\frac{1}{2}$ inch, solid taper. 1 pliers, combination, 6 inches. *1 rim-brace socket wrench. 1 screw driver, 8 inches, perfect handle. 1 screw driver, 12 inches, perfect handle. 1 tire irons (set of 2). 1 tire foot pump. 1 tire pressure gauge. *1 valve tappet wrenches (set). 1 wrench, monkey, 14-inch knife handle. | <ul style="list-style-type: none"> 1 wrench, adjustable, 8-inch crescent. 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. 1 wrench, spark plug, $\frac{1}{2}$ inch, 18-thread, $\frac{1}{2}$ inch pipe thread. |
|--|--|

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type of tools will be supplied for the particular vehicle for which tool roll is required.

Accessories:

- | | |
|--|---|
| <ul style="list-style-type: none"> 1 brush, engine-cleaning. 1 bucket, canvas, collapsible. *1 casing. 50 cotter pins, assorted. 1 extinguisher, fire, with bracket. 1 emery cloth or sandpaper (sheet). *3 fuses. 1 friction tape, $\frac{1}{2}$ inch (1 roll). *2 headlight bulbs. 1 lock and chain for spare tire. *2 plugs, spark. 2 patches, cement (inner tube). 2 patches, cementless (inner tube). | <ul style="list-style-type: none"> *1 patch, shoe, inside blowout. *1 rim, tire. 1 sponge. *2 side light bulbs. *2 skid chains (1 pair). 1 towing cable. *1 tail-light bulb. *2 tubes, inner. 1 tire talc or powdered chalk (1 can). 1 tube cement (inner tube patching). $\frac{1}{2}$ waste ($\frac{1}{2}$ pound). 1 box (5) inner tube valve insides. *1 exhaust valve. |
|--|---|

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type will be furnished or the particular vehicle for which supplies are required.

NOTE 1—Continued.

UNIT TRUCK EQUIPMENT AS FOLLOWS:

One canvas tool roll assembled with the following tools:

1 chisel, cold, $\frac{3}{4}$ inch, flat.
 1 extractor, cotter-pin.
 1 file, 10 inches, flat, smooth, with handle.
 1 gun, grease.
 1 hammer, machinist's, 2 pound, ball peen.
 *1 hub-cap wrench.
 1 jack, 5-ton capacity.
 1 punch, solid, $\frac{1}{2}$ inch, solid taper.
 1 pliers, combination, 6 inches.
 1 screw driver, 8 inches, perfect handle.
 1 screw driver, 12 inches, perfect handle.
 *1 valve tappet wrenches (set).
 1 wrench, spark plug, $\frac{1}{2}$ inch and $\frac{3}{4}$ inch.
 1 wrench, adjustable, 8 inches, crescent.
 1 wrench, monkey, $1\frac{1}{2}$ inches, knife handle.

1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
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 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
 1 wrench, double end, milled openings, $1\frac{1}{2}$ and $1\frac{3}{4}$ inch.
 1 wrench, double end, milled openings, $1\frac{1}{2}$ and $1\frac{3}{4}$ inch.

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type of tools will be supplied for the particular vehicle for which tool roll is required.

Accessories:

1 brush, engine-cleaning.
 1 brush, washing.
 1 brush, wire.
 1 bucket, canvas, collapsible.
 *16 chains, tire, cross (skid).
 50 cotter pins, assorted.
 1 extinguisher, fire, with bracket.
 1 friction tape, $\frac{3}{4}$ inch (1 roll).
 12 lock washers, assorted.

12 nuts and bolts, assorted.
 *2 plugs, spark.
 1 pickax.
 1 rope, lash, manila, 75 feet long, $\frac{3}{4}$ or $\frac{1}{2}$ inch.
 1 shovel.
 1 towing cable, complete.
 1 waste (1 pound).
 *1 exhaust valve.

SPECIAL NOTE.—Items marked (*) differ on each type of vehicle. Proper size and type will be furnished for the particular vehicle for which supplies are required.

UNIT LIGHT REPAIR TRUCK EQUIPMENT AS FOLLOWS:

One chest of tools consisting of the following:

1 air pump, 2-cylinder, with hose and couplings.
 1 blow torch, 1-quart capacity.
 1 block, single-steel, 1-inch, with becket and safety link hook.
 1 block, double-steel, 1-inch, with becket and safety link hook.
 12 blades, hacksaw, 12-inch, 16 P.
 12 blades, hacksaw, 12-inch, 24 P.
 1 bar, pinch, $\frac{3}{4}$ by 18 inches, with claw.
 2 crowbars, 12-pound.
 *1 C-clamp, medium service, 4-inch.
 1 C-clamp, medium service, 8-inch.
 1 caliper, 6-inch, inside.
 1 caliper, 6-inch, outside.
 1 drill, breast, chuck capacity 6 to $\frac{3}{4}$ inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{3}{4}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.

1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 drill, twist, carbon steel, straight shank, $\frac{1}{2}$ -inch.
 1 dividers, 6 inch.
 1 frame, hacksaw, adjustable, 8 to 12 inches (sliding end-post type).
 1 file, 12-inch, flat, second-cut.
 1 file, 12-inch, flat, bastard.
 1 file, 10-inch, flat, bastard.
 1 file, 10-inch, flat, smooth.
 1 file, 10-inch, half-round, bastard.
 1 file, 10-inch, half-round, second-cut.
 1 file, 10-inch, round, bastard.
 1 file, 8-inch, round, second-cut.
 1 file, 8-inch, half-round, bastard.
 1 file, 8-inch, flat, bastard.
 1 file, card, wire.
 3 flashlights, with batteries.
 1 geared hand grinder, 6-inch wheel.
 1 gauge, thickness, 9 leaves, viz, 0.0015, 0.002, 0.003, 0.004, 0.006, 0.008, 0.010, 0.012, 0.015.
 1 hydrometer, battery.
 1 hammer, machinist's, 1-pound, ball peen.
 1 hammer, machinist's, 2-pound, ball peen.
 1 hammer, copper, 1-pound.
 1 hammer, machinist's riveting, $1\frac{1}{2}$ -pound.
 1 hatchet, claw, 4-inch bite.

NOTE 1—Continued.

UNIT LIGHT REPAIR TRUCK EQUIPMENT AS FOLLOWS—Continued.

- 1 iron, soldering, 2-pound.
 - 1 iron, soldering, 4-pound.
 - 1 jack, 15-ton capacity, double-action, with 12 $\frac{1}{2}$ -inch lift, 21 $\frac{1}{2}$ -inch height, Simplicr emergency, No. 310, or equal.
 - 1 knife, notched, 1-inch blade, 4 inches long for tires.
 - 1 pliers, 6-inch, combination.
 - 1 pliers, 8-inch, side cutting.
 - 300 feet rope, manila, 1-inch (300 feet).
 - 1 rule, steel, 3-foot, 3-fold.
 - 1 screw-plate set, $\frac{1}{2}$ to $\frac{3}{4}$ inches by 16ths, U. S. S.
 - 1 snipe, tinner's, 12-inch, compound lever.
 - 1 saw, hand, crosscut, 26-inch (8 teeth per inch).
 - 1 screw driver, 8-inch, perfect handle.
 - 1 screw driver, 12-inch, perfect handle.
 - 1 screw driver, offset, 6-inch.
 - 1 set scrapers, curved bearing (3 to set).
 - 1 set scrapers, carbon (3 to set).
 - 1 scale, 6-inch, graduated in 8ths, 16ths, 32ds, and 64ths.
 - 1 sledge, blacksmith's, 10-pound, straight peen with two handles.
 - 1 vulcanizer (small Shaler), 5-minute, gasoline operated.
 - 1 vise, machinist's, 4 $\frac{1}{2}$ -inch jaws, swivel base.
 - 1 wrench, 8-inch, Stillson.
 - 1 wrench, 14-inch, Stillson.
 - 1 wrench, monkey, 14-inch steel handle.
- Three chassis repair mechanic's tool kits, consisting of the following:
- 1 bag, tool, waterproof, canvas, 18-inch.
 - 1 bar, pinch, $\frac{3}{4}$ by 18 inches, with claw.
 - 12 blades, hacksaw, 12 inches, 24 P.
 - 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
 - 1 chisel, cold, $\frac{3}{4}$ -inch, flat.
 - 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
 - 1 chisel, cold, $\frac{3}{4}$ -inch, diamond point.
 - 1 chisel, cold, $\frac{1}{2}$ -inch, cape.
 - 1 drift, brass, 1 by 8 inches.
 - 1 extractor, cotter pin.
 - 1 file, 8-inch, round, bastard, with handle.
 - 1 file, 8-inch, half round, bastard, with handle.
 - 1 file, 10-inch, flat, smooth, with handle.
 - 1 file, 12-inch, flat, second cut, with handle.
 - 1 file, 12-inch, flat, bastard, with handle.
 - 1 file, card, wire.
 - 1 frame, hacksaw, adjustable 8 to 12 inches (sliding end post type).
 - 2 handles for double-end tubular socket wrenches.
 - 1 hammer, machinist's ball peen, 1 pound, with handle.
 - 1 hammer, machinist's, ball peen, 2 pound with handle.
 - 1 hammer, copper, 1 pound, with handle.
 - 1 knife, putty, 1 $\frac{1}{2}$ -inch, flexible blade.
 - 1 oil can, 6-inch straight spout, $\frac{1}{2}$ pint capacity.
 - 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1-inch.
 - 1 punch, $\frac{1}{2}$ -inch, solid, taper.
 - 1 punch, $\frac{1}{2}$ -inch, solid, taper.
 - 1 punch, $\frac{3}{4}$ -inch, solid, taper.
 - 1 punch, center, round, knurled, $\frac{1}{4}$ -inch body, 4 inches long.
 - 1 pliers, 6-inch, combination.
 - 1 pliers, 8-inch, combination.
 - 1 pliers, 8-inch, side cutting.
 - 1 rule, steel, 3-foot, 3-fold.
 - 1 scale, 6-inch, steel, graduated in 8ths, 16ths, 32ds, and 64ths.
 - 1 screw driver, offset, $\frac{1}{2}$ by 5 inches.
 - 1 screw driver, offset, $\frac{3}{4}$ by 8 inches.
 - 1 screw driver, 6-inch, perfect handle.
 - 1 screw driver, 10-inch, perfect handle.
 - 1 screw driver, 12-inch, perfect handle.
 - 1 screw driver, 6-inch, perfect handle, bulldog.
 - 1 wrench, hexagon double end tubular socket, broached openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch.
 - 1 wrench, hexagon double end tubular socket, broached openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch.
 - 1 wrench, hexagon double and tubular socket, broached openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch.
 - 1 wrench, hexagon, double-end tubular socket, broached openings, $1\frac{1}{4}$ and $1\frac{1}{2}$ inches.
 - 1 wrench, 8-inch, adjustable, crescent.
 - 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ -inch.
 - 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ -inch.
 - 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ inch.
 - 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ inch.
 - 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ inch.
 - 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{3}{8}$ inch.
 - 1 wrench, double end, milled openings, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch.
 - 1 wrench, double end, milled openings, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch.
 - 1 wrench, double end, milled openings, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch.
 - 1 wrench, 8-inch Stillson.
 - 1 wrench, 14-inch Stillson.
 - 1 wrench, 14-inch auto-adjustable.
 - 1 wrench, 4 $\frac{1}{2}$ -inch, pocket, adjustable (bicycle type).
 - 1 wrench, hexagon, speed, broached openings, $\frac{1}{2}$ -inch.
 - 1 wrench, hexagon, speed, broached openings, $\frac{3}{4}$ -inch.
 - 1 wrench, hexagon, speed, broached openings, $\frac{1}{2}$ -inch.
 - 1 wrench, hexagon, T-handle socket, broached openings, $\frac{1}{2}$ -inch.
 - 1 wrench, hexagon, T-handle socket, broached openings, $\frac{1}{2}$ -inch.
 - 1 wrench, hexagon, T-handle socket, broached openings, $\frac{1}{2}$ -inch.

NOTE 1—Continued.

One box containing the following accessories and supplies:

25 assorted carriage bolts with nuts.	100 assorted cotter pins.
25 assorted machine bolts with nuts.	12 assorted yoke and rod end pins.
3 batteries for flashlights.	12 spark plugs (assorted sizes).
3 bulbs for flashlights.	12 assorted No. 10-32, No. 10-24, and No. 8-32 machine screws and nuts.
100 cap screws (U. S. and S. A. E.) with castle nuts.	50 assorted wood screws.
25' high-tension cable (25 feet).	5 pounds wire solder.
10' low-tension cable (10 feet).	3 rolls friction tape.
12 sheets emery cloth, No. 00.	200 assorted lock washers.
12 sheets emery cloth, No. 1.	5 pounds wire, No. 14B gauge (soft steel).
1 box valve-grinding compound.	1 bucket, canvas, collapsible.
3 clamps, water hose 1 inch to 2.	1 extinguisher, fire, with bracket.
3 clamps, water hose 2 inch up.	25 patches, cement (inner tube).
12 grease and oil cups (assorted sizes).	25 patches, cementless (inner tube).
6 gaskets, spark plug $\frac{3}{8}$ -inch.	6 shoe patches, inside blowout (assorted sizes)
6 exhaust gaskets (assorted sizes).	6 tubes cement (inner tube patching).
6 intake gaskets (assorted sizes).	3 tire talc or powdered chalk (3 cans).
12 assorted gas line fittings.	3 boxes (5 to box) inner tube valve insides.
6' hose for radiator (6 feet).	1 towing cable, complete.
6' rubber tubing $\frac{1}{8}$ -inch (6 feet).	3 pounds waste.
1 pound red lead.	10' brake lining, 2 by $\frac{3}{4}$ inches (10 feet).
10 pounds assorted nails.	10' brake lining, 2 $\frac{1}{2}$ by $\frac{3}{4}$ inches (10 feet).
5 yards of packing, tallow wicking for pump packing.	25' brake lining, 2 $\frac{1}{2}$ by $\frac{1}{2}$ inches (25 feet).

NOTE 1 (a).

EQUIPMENT SUPPLIED TO REPAIR ORGANIZATIONS.

Equipment, unit camp and garrison. (This varies with the size and type of military unit, service conditions, season of the year, etc.)	Symbol designation.	Estimated weight of increment in pounds.
<i>Individual tool kits.</i>		
Chassis and motor mechanic.....	1.....	38
Blacksmith.....	2.....	22
Motocycle mechanic.....	3.....	19
Body carpenter.....	4.....	70
Welder.....	5.....	14
Wheelwright.....	6.....	16
Machinist.....	7.....	21
Electrical and carburetor mechanic.....	8.....	10
Radiator mechanic.....	9.....	20
Trimmer.....	10.....	8
Tire-press mechanic.....	11.....	16
Painter.....	12.....	6
Vulcanizer.....	13.....	12
Battery expert.....	14.....	10
Sheet-metal worker.....	15.....	18
Individual truck equipment, including cargo body.....	MT.....	*1,800
Individual motor-car equipment.....	MCR.....	250
Individual motocycle equipment.....	MCy.....	48
Individual trailer equipment.....	T.....	0
Machinshop truck increment (over MT except cargo body and individual kits).....	MST.....	9,300
Light repair truck increment (over MT except cargo body and individual kits).....	LRT.....	280
Motocycle repair truck increment (over MT except cargo body and individual kits) *3-ton body, 1,200 pounds.....	MRT.....	200
Tire press trailer increment (over T and individual kits).....	TPT.....	4,900
Wrecking truck increment (over MT and individual kits).....	WT.....	1,257
Tractor equipment.....	1 Tr.....	400
Tank truck increment (over MT except cargo body).....	1 tank.....	600
Ambulance increment (over MT except cargo body).....	1 Amb.....	200
Stock room trailer increment (over T except cargo body).....	ST.....	1,000
Motor repair section, increment (over 6 MT, 1 MCR, 2 T. 10 kits No. 1, 2 kits No. 2, 3 kits No. 5, 7, 11 and one each of Nos. 4, 6, 8, 9, 12, 13, 15, inclusive, 1 MST, 1 LRT, 1 MRP, 1 TPT, 1 WT, and 1 ST carried with personal equipments, and unit C and G. E. on 2 cargo trucks.....	MRS.....	3,033
Motor repair company, increment (over 132 kits, No. 1, 13 kits Nos. 2 and 5, 14 kits No. 7, 9 kits Nos. 3 and 10, 6 kits Nos. 4, 14 and 15, 7 kits No. 9, 8 kits No. 15, 4 kits Nos. 6 and 11, 10 kits No. 8, 11 kits No. 12, 12 MT, 4 WT, 4 Tank, 2 T, 8 MCy, and 2 TR).....	MRC.....	
Motor repair battalion (over 556 kits No. 1, 64 kits No. 2, 40 kits Nos. 3, 8, 10 and 12, 24 kits Nos. 4 and 9, 56 kits Nos. 5 and 7, 16 kits Nos. 6 and 11, 28 kits No. 13, 20 kits No. 14, 36 kits No. 15, 26 MT, 4 WT, 8 Tank, 3 MCR, 4 TR, 4 T, and 16 MCy).....	MRB.....	127,365

NOTE 2.

CHASSIS REPAIR MECHANIC'S TOOL KIT (KIT No. 1).

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|--|---|
| <ul style="list-style-type: none"> 1 bag, tool, waterproof, canvas, 18 inches. 1 bar, pinch, $\frac{1}{2}$ by 18 inches, with claw. 12 blades, hacksaw, 12 inches, 24 P. 1 chisel, cold, $\frac{1}{2}$ inch, flat. 1 chisel, cold, $\frac{1}{2}$ inch, flat. 1 chisel, cold, $\frac{1}{2}$ inch, flat. 1 chisel, cold, $\frac{1}{2}$ inch, diamond point. 1 chisel, cold, $\frac{1}{2}$ inch, cape. 1 drift, brass, 1 by 8 inches. 1 extractor, cotter pin, $7\frac{1}{2}$ inches. 1 file, 8 inches, round, bastard, with handle. 1 file, 8 inches, half round, bastard, with handle. 1 file, 10 inches, flat, smooth, with handle. 1 file, 12 inches, flat, second cut, with handle. 1 file, 12 inches, flat, bastard, with handle. 1 file, card, wire. 1 frame, hacksaw, adjustable, 8 to 12 inches (sliding end-post type). 1 hammer, machinist's, ball peen, 1 pound, with handle. 1 hammer, machinist's, ball peen, 2 pounds, with handle. 1 hammer, copper, 1 pound, with handle. 2 handles for double-end tubular socket wrenches. 1 knife, putty, $1\frac{1}{2}$ inches, flexible blade. 1 oil can, 6 inches, straight spout, $\frac{1}{2}$ pint. 1 punch, $\frac{1}{2}$ inch, solid taper, round knurled body. 1 punch, $\frac{3}{4}$ inch, solid taper, round knurled body. 1 punch, $\frac{1}{2}$ inch, solid taper, round knurled body. 1 punch, center, round knurled $\frac{1}{4}$ inch body, 4 inches long. 1 pliers, 6 inches, combination. 1 pliers, 8 inches, combination. 1 pliers, 8 inches, side cutting. 1 rule, steel, 3 foot, 3 fold. 1 scale, 6 inches, steel, flexible, graduated in 8ths, 16ths, 32ds, and 64ths. 1 screw driver, offset, $\frac{1}{2}$ by 5 inches. 1 screw driver, offset, $\frac{1}{4}$ by 8 inches. 1 screw driver, 6 inches, perfect handle. 1 screw driver, 10 inches, perfect handle. 1 screw driver, 12 inches, perfect handle. 1 screw driver, 6 inches, perfect handle bulldog. 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. | <ul style="list-style-type: none"> 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $1\frac{1}{4}$ inches. 1 wrench, hexagon, double end, tubular socket, broached openings, $1\frac{1}{4}$ and $1\frac{3}{4}$ inches. 1 wrench, 8 inches, adjustable crescent. 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{1}{2}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 wrench, 8 inches, Stillson. 1 wrench, 14 inches, Stillson. 1 wrench, 14 inches, autoadjustable. 1 wrench, 4$\frac{1}{2}$ inches, pocket adjustable (bicycle type). 1 wrench, hexagon, speed, broached opening, $\frac{1}{2}$ inch. 1 wrench, hexagon, speed, broached opening, $\frac{1}{4}$ inch. 1 wrench, hexagon, speed, broached opening, $\frac{1}{2}$ inch. 1 wrench, hexagon, T-handle socket, broached opening, $\frac{1}{2}$ inch. 1 wrench, hexagon, T-handle socket, broached opening, $\frac{1}{2}$ inch. 1 wrench, hexagon, T-handle socket, broached opening, $\frac{1}{2}$ inch. 1 wrench, 6 inches, adjustable crescent. 1 gauge, thickness, 9 leaves, viz, 0.0015, 0.002, 0.003, 0.004, 0.006, 0.008, 0.010, 0.012, 0.015. |
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NOTE 3.

BLACKSMITH'S TOOL KIT (KIT No. 2).

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| <ul style="list-style-type: none"> 1 apron, light, leather, 26 by 27 inch. 1 bag, tool, waterproof, canvas, 18-inch. 1 dozen blades, hacksaw, 12-inch, 24 P. 1 caliper, blacksmith's double, 6 and 12-inch. 1 cutter, cold, $1\frac{1}{2}$-inch, with handle. 1 cutter, hot, $1\frac{1}{2}$-inch, with handle. 1 chisel, cold, $\frac{1}{2}$-inch, flat. 1 divider, 12-inch, improved extension (Starrett's 85 E or equal). 1 frame, hacksaw, adjustable, 8 to 12 inch (sliding end-post type). 1 file, 12-inch, half round, bastard, with handle. 1 file, 12-inch, flat, bastard, with handle. 1 file, 12-inch, round, bastard, with handle. | <ul style="list-style-type: none"> 1 flatter, 2-inch, square face, with handle. 1 hammer, blacksmith's, 2-pound cross peen, with handle. 1 hammer, machinist's, ball peen, 2-pound. 1 hammer, machinist's, ball peen, 1-pound. 1 punch, center, 5-inch, with handle. 1 rule, steel, 3-foot, 3-fold. 1 square, steel, 12-inch body, 8-inch tongue. 1 screwdriver, 10-inch, perfect handle. 1 screwdriver, 12-inch, perfect handle. 1 wrench, 8-inch, adjustable crescent. 1 wrench, monkey, 12-inch, steel handle. 1 wrench, monkey, 18-inch, steel handle. |
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NOTE 4.

MOTORCYCLE MECHANIC'S TOOL KIT (KIT No. 3).

- 1 dozen blades, hacksaw, 12-inch, 24 P.
- 1 bar, pinch, $\frac{3}{4}$ by 18 inch, with claw.
- 1 bag, tool, 18-inch.
- 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
- 1 chisel, cold, $\frac{3}{4}$ -inch, flat.
- 1 chisel, cold, $\frac{3}{4}$ -inch, diamond point.
- 1 chisel, cold, $\frac{1}{2}$ -inch, cape.
- 1 drift, 1 by 8 inches, brass.
- 1 extractor, cotter pin, $7\frac{1}{2}$ -inch.
- 1 file, 8-inch, round, bastard, with handle.
- 1 file, 8-inch, half round, bastard, with handle.
- 1 file, 10-inch, flat, smooth, with handle.
- 1 file, 10-inch, flat, bastard, with handle.
- 1 frame, hacksaw, adjustable, 8 to 12 inch (sliding end-post type).
- 1 file, card, wire.
- 1 gauge, thickness 9 leaves, viz, 0.0015, 0.002, 0.003, 0.004, 0.006, 0.008, 0.010, 0.012, 0.015.
- 1 hammer, machinist's, 8 ounce, ball peen, with handle.
- 1 hammer, machinist's, 1 pound, ball peen, with handle.
- 1 hammer, copper, 1-pound, with handle.
- 2 handles for double-end tubular socket wrenches.
- 1 knife, putty, $1\frac{1}{2}$ -inch, flexible blade.
- 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1 inch.
- 1 oil can, 6-inch, straight spout.
- 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body.
- 1 punch, $\frac{3}{4}$ -inch drive pin, round knurled body.
- 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body.
- 1 punch, center, round knurled $\frac{1}{4}$ -inch body, 4 inches long.
- 1 pliers, 6-inch, combination.
- 1 pliers, 6-inch, diagonal.
- 1 scale, 6-inch, steel flexible, graduated in 8ths, 16ths, 32ds, and 64ths.
- 1 screwdriver, 6-inch, perfect handle (bulk dog)
- 1 screwdriver, 10-inch, perfect handle.
- 1 screwdriver, 6-inch, perfect handle.
- 1 screwdriver, 3-inch, perfect handle.
- 1 screwdriver offset, $\frac{1}{2}$ by 5 inches.
- 1 screwdriver offset, $\frac{1}{4}$ by 8 inches.
- 1 wrench, 6-inch, adjustable crescent.
- 1 wrench, 12-inch, auto, adjustable.
- 1 wrench, 8-inch, Stillson.
- 1 wrench, double end, milled openings $\frac{1}{4}$ by $\frac{3}{4}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ by $\frac{3}{4}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{4}$ by $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ by $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ by $\frac{1}{2}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ by $\frac{3}{4}$ inch.
- 1 wrench, 8-inch, adjustable crescent.
- 1 wrench, spoke, nipple.
- 1 wrench, hexagon, double end, tubular socket, broached opening, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, hexagon, double end, tubular socket, broached openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, hexagon, double end, tubular socket, broached opening, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, hexagon, double end, tubular socket, broached opening, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, hexagon, double end, tubular socket, broached opening, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, hexagon, double end, tubular socket, broached opening, $\frac{1}{2}$ and $1\frac{1}{4}$ inch.
- 1 wrench, hexagon, double end, tubular socket broached opening, $1\frac{1}{4}$ and $1\frac{1}{2}$ inch.

NOTE 5.

BODY CARPENTER'S TOOL KIT (KIT No. 4).

- 1 auger bit, $\frac{1}{4}$ -inch.
- 1 auger bit, $\frac{1}{2}$ -inch.
- 1 auger bit, $\frac{3}{4}$ -inch.
- 1 auger bit, $\frac{1}{2}$ -inch.
- 1 auger bit, $\frac{3}{4}$ -inch.
- 1 auger bit, $\frac{1}{2}$ -inch.
- 1 auger bit, $\frac{3}{4}$ -inch.
- 1 auger bit, 1-inch.
- 1 ax, broad, 5-inch blade, with handle and leather cap.
- 1 bar, wrecking, 24-inch, gooseneck.
- 1 brace, 12-inch, ratchet.
- 1 chest, tool.
- 1 chisel, firmer socket, $\frac{1}{2}$ -inch, flat.
- 1 chisel, firmer socket, $\frac{3}{4}$ -inch, flat.
- 1 chisel, firmer socket, $\frac{1}{2}$ -inch, flat.
- 1 chisel, firmer socket, $1\frac{1}{2}$ -inch, flat.
- 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
- 1 chalk line, white, 100 feet.
- 1 expansion bit, $\frac{1}{2}$ to $1\frac{1}{2}$ -inch.
- 3 files, 5-inch taper saw, with handles.
- 1 gauge, boxwood, marking.
- 1 hammer, 1-pound, claw, adze eye.
- 1 knife, draw, folding, 8-inch blade.
- 1 mallet, wood, round, 2 $\frac{1}{2}$ -inch.
- 1 nail set, $\frac{1}{4}$ -inch, round knurled body.
- 1 nail set, $\frac{1}{4}$ -inch, round knurled body.
- 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1 inch.
- 1 oil can, 6-inch straight spout.
- 1 plane, steel, 8-inch, smooth.
- 1 plane, steel, 16-inch, jack.
- 1 plane, steel, 24-inch, jointer.
- 1 plumb and level, 12-inch, combination.
- 1 rule, boxwood, 2-foot, 4-fold.
- 1 scratch awl with reel.
- 1 screwdriver bit, $\frac{1}{2}$ -inch blade.
- 1 scraper box.
- 1 saw, hand, crosscut, 26 inches long, 8 teeth per inch.
- 1 saw, hand, rip, 26 inches long, 5 teeth per inch.
- 1 saw, nest, of 3 blades and handle.
- 1 square, try and miter, 7 $\frac{1}{2}$ -inch.
- 1 square, steel, collapsible, 24-inch body, 16-inch tongue.
- 1 screw driver, 4-inch, perfect handle.
- 1 screw driver, 10-inch, perfect handle.
- 1 wrench, 6-inch, crescent.
- 1 wrench, 10-inch, crescent.

NOTE 6.

WELDER'S TOOL KIT (KIT No. 5).

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| 1 apron, heavy duck canvas, 26 by 27 inches. | 1 file, 12-inch, half round, bastard, with handle. |
| 1 bag, tool, waterproof canvas, 19 inches. | 1 file, 12-inch, flat, bastard, with handle. |
| 1 chisel, cold, $\frac{1}{4}$ -inch, flat. | 1 file, 12-inch, flat, mill, with handle. |
| 1 chisel, cold, $\frac{1}{2}$ -inch, flat. | 1 file, 14-inch, flat, Vixen, with handle. |
| 1 chisel, cold, $\frac{1}{2}$ -inch diamond point. | 1 file, 14-inch, half round, Vixen, with handle. |
| 1 chisel, cold, $\frac{3}{8}$ -inch diamond point. | 2 pair gloves, heavy leather. |
| 1 chisel, cold, $\frac{3}{8}$ -inch diamond point. | 1 hammer, machinist's, ball peen, 2-pound. |
| 2 clamps, C, 1-inch capacity. | 1 pliers, 8-inch, combination. |
| 2 clamps, C, 2-inch capacity. | 1 pliers, 8-inch, side cutting. |
| 2 clamps, C, 3-inch capacity. | 1 torch lighter. |
| 2 clamps, C, 4-inch capacity. | 1 wrench, 6-inch, Stillson. |
| 1 file, 10-inch, round, bastard, with handle. | 1 wrench, 8-inch, adjustable crescent. |

NOTE 7.

WHEELWRIGHT'S TOOL KIT (KIT No. 6).

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| 1 auger bit, $\frac{1}{2}$ inch. | 1 rule, 2 foot, 4 fold, boxwood. |
| 1 auger bit, $\frac{3}{4}$ inch. | 1 saw, hack, adjustable, 8 to 12 inches (sliding end-post type). |
| 1 auger bit, $\frac{1}{2}$ inch. | 1 saw, nest, 3 blades and 1 handle. |
| 1 ax, hand, 5-inch blade, with leather cap. | 1 square, try and miter, $7\frac{1}{2}$ -inch. |
| 1 bag, tool, waterproof, canvas, 18 inches. | 1 screw driver bit, $\frac{1}{2}$ inch. |
| 1 brace, ratchet, 12-inch sweep. | 1 screw driver, 4-inch, perfect handle. |
| 1 chisel, $\frac{1}{2}$ -inch, flat, firmer socket. | 1 wrench, monkey, 10-inch, steel handle. |
| 1 chisel, 1-inch, flat, firmer socket. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 1 chisel, cold, $\frac{1}{2}$ -inch, flat. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 1 expansion bit, $\frac{1}{2}$ to 1 $\frac{1}{2}$ inches. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 3 files, 5-inch taper saw, with handles. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 1 hammer, claw, 1 pound. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 1 knife, draw, folding, 8-inch blade. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 1 oil can, straight spout, No. 12. | 1 wrench, hexagon, T-handle socket, broached opening, $\frac{3}{4}$ inch. |
| 1 oil stone, carborundum, coarse and fine, 8 by 2 by 1 inches. | |
| 1 rasp, 12-inch, wood, with handle. | |

NOTE 8.

MACHINIST'S TOOL KIT (KIT No. 7).

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| 1 bag, tool, waterproof, 18 inches. | 1 punch, center $\frac{1}{8}$ -inch body, 4 inches long, round knurled body. |
| 12 blades, hacksaw, 12-inch, 24 P. | 1 punch, $\frac{1}{8}$ -inch solid taper, round knurled body. |
| 1 chisel, cold, $\frac{1}{4}$ -inch, flat. | 1 punch, $\frac{1}{8}$ -inch solid taper, round knurled body. |
| 1 chisel, cold, $\frac{1}{2}$ -inch, flat. | 1 punch, $\frac{1}{4}$ -inch solid taper, round knurled body. |
| 1 chisel, cold, $\frac{1}{2}$ -inch, flat. | 1 punch, $\frac{1}{4}$ -inch solid taper, round knurled body. |
| 1 chisel, cold, $\frac{3}{8}$ -inch, diamond point. | 1 punch, $\frac{1}{2}$ -inch solid taper, round knurled body. |
| 1 chisel, cold, $\frac{1}{2}$ -inch, cape. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 chisel, cold, 1-inch, flat. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 can, oil, 6-inch, straight spout. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 calipers, inside, 6-inch, solid nut. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 calipers, outside, 6-inch, solid nut. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 drift, brass, 1 by 8 inch. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 dividers, 8-inch, solid nut. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 file, card, wire. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 frame, hacksaw, adjustable, 8 to 12 inch (sliding end-post type). | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 file, 8-inch, round, smooth, with handle. | 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body. |
| 1 file, 8-inch, flat, mill, with handle. | 1 pliers, 6-inch combination, |
| 1 file, 10-inch, flat, mill, with handle. | 1 rule, steel, 3-foot, 3-fold. |
| 1 file, 12-inch, flat, mill, with handle. | 1 screw driver, 3-inch, perfect handle. |
| 1 gauge, center, 60°, U. S. standard. | 1 screw driver, 6-inch, perfect handle. |
| 1 gauge, thread, 30 pitches, 6 to 60, V thread. | 1 screw driver, 10-inch, perfect handle. |
| 1 hammer, machinist's, ball peen, $\frac{1}{2}$ -pound, with handle. | 1 screw driver, 6-inch, perfect handle, bulldog. |
| 1 hammer, machinist's, ball peen, 1-pound, with handle. | 1 screw driver, 12-inch, perfect handle. |
| 1 hammer, copper, 1-pound, with handle. | 1 scale, steel, flexible, graduated in 8ths, 16ths, 32ds, and 64ths. |
| 1 hermaphrodite, 6-inch. | 1 scribe, 8-inch, adjustable sleeve. |
| 1 oilstone, carborundum, medium, 4 by $\frac{1}{2}$ by $\frac{1}{2}$ inch. | 1 wrench, 6-inch, adjustable crescent. |
| | 1 wrench, 10-inch, adjustable crescent. |

NOTE 9.

ELECTRICAL AND CARBURETOR MECHANIC'S TOOL KIT (KIT No. 8).

- 1 dozen blades, hacksaw, 12-inch, 24 P.
- 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
- 1 chisel, cold, $\frac{1}{2}$ -inch, flat.
- 1 chisel, cold, $\frac{1}{2}$ -inch, diamond point.
- 1 chisel, cold, $\frac{1}{2}$ -inch, cape.
- 1 drift, brass, $\frac{1}{2}$ by 6 inch.
- 1 file, 4-inch, double, flat, mill, with handle.
- 2 files, 4-inch, magneto platinum point, with handle.
- 1 file, 6-inch, round, smooth, with handle.
- 1 file, 6-inch, half round, smooth, with handle.
- 1 file, 8-inch, flat, mill, with handle.
- 1 file, 8-inch, flat, bastard, with handle.
- 1 file, card, wire.
- 1 frame, hacksaw, 8 to 12 inch, adjustable (sliding end-post type).
- 1 drift, brass, $\frac{1}{2}$ by 7 inch.
- 1 hammer, machinist's, 4 ounce, ball peen, with handle.
- 1 hammer, machinist's 1-pound, ball peen, with handle.
- 1 hammer, brass, $\frac{1}{2}$ -pound, with handle.
- 1 hammer, brass, 1-pound, with handle.
- 1 iron, soldering, 1-pound.
- 1 knife, electrician's, double blade.
- 1 mallet, round, rawhide, 2-inch face.
- 1 oil can, 6-inch straight spout.
- 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1 inch.
- 1 punch, $\frac{1}{4}$ -inch drive pin, round knurled body.
- 1 punch, $\frac{1}{4}$ -inch drive pin, round knurled body.
- 1 punch, $\frac{1}{4}$ -inch drive pin, round knurled body.
- 1 punch, $\frac{1}{2}$ -inch drive pin, round knurled body.
- 1 punch, $\frac{3}{4}$ -inch drive pin, round knurled body.
- 1 punch, center, $\frac{1}{4}$ -inch body, 4 inches long, round knurled body.
- 1 pliers, 6-inch, combination.
- 1 pliers, 6-inch, side-cutting.
- 1 pliers, 6 $\frac{1}{2}$ -inch, side-cutting.
- 1 pliers, 6-inch, diagonal.
- 1 pliers, 7-inch, flat nose, very long reach.
- 1 pliers, 6-inch, long round nose.
- 1 screw driver blade, $\frac{1}{8}$ by 3 inch, electrician's.
- 1 screw driver blade, $\frac{1}{8}$ by 6 $\frac{1}{2}$ inch.
- 1 screw driver, 6 inch, perfect handle.
- 1 screw driver, offset, $\frac{1}{2}$ by 5 inch.
- 1 screw driver, offset, $\frac{1}{4}$ by 8 inch.
- 1 scale, 6 inch, flexible steel, graduated in Sths, 16ths, 32ds, and 64ths.
- 1 screw driver, 6-inch, perfect handle (bulldog).
- 1 tool bag, 18-inch.
- 1 set wrenches, battery and magneto.
- 1 wrench, 4 inch, adjustable crescent.
- 1 wrench, 8-inch, adjustable crescent.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, T socket, broached opening, $\frac{3}{4}$ inch.
- 1 wrench, square, T socket, broached openings, $\frac{1}{2}$ inch.
- 1 wrench, square, T socket, broached openings, $\frac{3}{4}$ inch.
- 1 wrench, hexagon, double-end tubular socket, broached opening, $\frac{3}{4}$ and $\frac{3}{4}$ inch.

NOTE 10.

RADIATOR MECHANIC'S TOOL KIT (KIT No. 9).

- 1 bag, tool, 18-inch, canvas.
- 1 bearing scraper.
- 1 chisel, cold, $\frac{1}{2}$ -inch, cape.
- 1 chisel, cold, 1-inch, flat.
- 2 chisels, cold, $\frac{1}{2}$ -inch, flat.
- 1 file, 12-inch, round, bastard, with handle.
- 1 file, 8-inch, round, bastard, with handle.
- 1 file, 10-inch, half round, bastard, with handle.
- 1 file, 12-inch, flat, bastard, with handle.
- 1 file, 12-inch, flat, mill, with handle.
- 1 file, card, wire.
- 1 dozen hacksaw blades, 12-inch, 24 P.
- 1 hacksaw frame, 8 to 12 inch, adjustable (sliding end-post type).
- 1 hammer, tinner's, riveting, 8-ounce.
- 1 hammer, tinner's, riveting, $\frac{1}{2}$ -pound.
- 1 hammer, copper, 1-pound, with handle.
- 1 iron, soldering, 4-pound.
- 1 iron, soldering, 2-pound.
- 1 mallet, wood, 2 $\frac{1}{2}$ -inch face.
- 1 punch, $\frac{1}{4}$ -inch solid taper, round knurled body.
- 1 punch, $\frac{1}{4}$ -inch solid taper, round knurled body.
- 1 punch, $\frac{3}{4}$ -inch solid taper, round knurled body.
- 1 pliers, 6-inch, long round nose.
- 1 pliers, 8-inch, combination.
- 1 pliers, 7-inch, flat nose, very long reach.
- 1 rule, steel, 3-foot, 3-fold.
- 1 rivet set, No. 00 tinner's.
- 1 rivet set, No. 0 tinner's.
- 1 rivet set, No. 1 tinner's.
- 1 rivet set, No. 2 tinner's.
- 1 rivet set, No. 3 tinner's.
- 1 rivet set, No. 4 tinner's.
- 1 rivet set, No. 5 tinner's.
- 1 rivet set, No. 6 tinner's.
- 1 snips, 12-inch, combination.
- 1 scriber, 8-inch, adjustable sleeve.
- 1 screw driver, 3-inch, perfect handle.
- 1 screw driver, 6-inch, perfect handle, bulldog.
- 1 wrench, 8-inch, crescent.
- 1 wrench, speed, broached opening, $\frac{1}{2}$ -inch.
- 1 wrench, speed, broached opening, $\frac{3}{4}$ -inch.

NOTE 11.

TRIMMER'S TOOL KIT (KIT NO. 10).

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| 1 awl, sewing, with handle, Stewart automatic. | 1 punch, oval, for curtain fasteners. |
| 1 bag, tool, waterproof, canvas, 18-inch. | 1 punch, center, round knurled, $\frac{1}{4}$ -inch body, 4 inches long. |
| 1 chisel, cold, $\frac{1}{4}$ -inch, flat. | 1 punch, for "lift the dot" eyelets. |
| 1 drawing gauge, harnessmaker's. | 1 punch, for "clinch" fasteners. |
| 1 hammer, 4-ounce, upholsterer's, with claw tool. | 1 punch, leather, revolving, 6-tube. |
| 1 hammer, 6-ounce, upholsterer's, with claw tool. | 1 punch and die, $\frac{1}{4}$ -inch, round, for sail grommets. |
| 1 iron, stuffing, trimmer's. | 1 punch and die, $\frac{1}{4}$ -inch, round, for sail grommets. |
| 1 knife, sharp point, 3-inch blade. | 1 punch and die, $\frac{1}{4}$ -inch, round, for sail grommets. |
| 1 leather punch and washer set, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, 1-inch diameters. | 1 regulators, trimmer's. |
| 6 needles, curved, 2-inch. | 1 rule, boxwood, 6-foot, 12-fold. |
| 6 needles, curved, 3-inch. | 1 screw driver, 3-inch, perfect handle. |
| 6 needles, curved, 4-inch. | 1 screw driver, 6-inch, perfect handle. |
| 1 package needles, glover's, No. 0. | 1 screw driver, 10-inch, perfect handle. |
| 1 package needles, glover's, No. 00. | 1 shears, 10-inch, trimmer's. |
| 1 package needles, glover's, No. 000. | 1 shears, 6-inch, sewing. |
| 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1 inch. | 2 thimbles, open end, large-size. |
| 1 palm, sailmaker's. | 1 wrench, 8-inch, adjustable crescent. |
| 1 pliers, 6-inch, combination. | 1 wrench, $\frac{1}{4}$ -inch, pocket, adjustable (bicycle type). |

NOTE 12.

TIRE PRESS MECHANIC'S TOOL KIT (KIT NO. 11).

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| 1 bag, tool, waterproof, canvas, 18-inch. | 1 wrench, monkey, 14-inch, steel handle. |
| 1 dozen blades, hacksaw, 18-inch 16 P. | 1 wrench, 8-inch, adjustable crescent. |
| 1 chisel, cold, $\frac{1}{4}$ -inch, flat. | 1 wrench, 12-inch, adjustable crescent. |
| 1 chisel, cold, $\frac{3}{4}$ -inch, flat. | 1 wrench, double end, milled openings, $\frac{1}{4}$ and $\frac{1}{2}$ inch. |
| 1 chisel, cold, $\frac{1}{2}$ -inch, cape. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{3}{4}$ inch. |
| 1 drift, brass, 1 by 8 inches. | 1 wrench, double end, milled openings, $\frac{3}{4}$ and $\frac{1}{2}$ inch. |
| 1 file, 6-inch, half round, bastard, with handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{4}$ inch. |
| 1 file, 10-inch, round, bastard, with handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 file, 10-inch, flat, bastard, with handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 file, 10-inch, half round, bastard, with handle. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 hammer, machinist, ball peen, 2-pound. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 hacksaw, frame, 18-inch, solid. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 knife, putty, $\frac{1}{2}$ -inch blade. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 oil can, 6-inch straight spout. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 punch, center, round knurled $\frac{1}{4}$ -inch body, 4 inches long. | 1 wrench, double end, milled openings, $\frac{1}{2}$ and 1 inch. |
| 1 pliers, 6-inch, combination. | 1 wrench, double end, milled openings, $1\frac{1}{2}$ and $1\frac{1}{2}$ inch. |
| 1 punch, $\frac{1}{4}$ -inch solid taper, round knurled body. | 1 wrench, double end, milled openings, $1\frac{1}{2}$ and $1\frac{1}{2}$ inch. |
| 1 punch, $\frac{1}{2}$ -inch solid taper, round knurled body. | 1 wrench, double end, milled openings, $1\frac{1}{2}$ and $\frac{1}{2}$ inch. |
| 1 punch, $\frac{3}{4}$ -inch solid taper, round knurled body. | 1 wrench, speed, broached opening, $\frac{1}{2}$ -inch. |
| 1 rule, steel, 3-foot, 3-fold. | 1 wrench, speed, broached opening, $\frac{1}{2}$ -inch. |
| 1 screw driver, 6-inch, perfect handle, bulldog. | |
| 1 screw driver, 10-inch, perfect handle. | |
| 1 screw driver, 12-inch, perfect handle. | |

NOTE 13.

PAINTER'S TOOL KIT (KIT NO. 12).

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|---|--|
| 1 bag, tool, waterproof, canvas, 18-inch. | 1 brush, paint, 1-inch, flat. |
| 1 brush, steel bristles, 2 by 6 inches. | 1 brush, No. 4, marking. |
| 1 brush, round, cleaning, 1-inch. | 1 brush, stencil. |
| 1 brush, round, cleaning, $1\frac{1}{2}$ -inch. | 1 brush, dusting, $1\frac{1}{2}$ -inch diameter. |
| 1 brush, paint, 3-inch, flat. | 1 knife, putty, $\frac{1}{2}$ -inch blade. |
| 1 brush, paint, 2-inch, flat. | |

NOTE 14.

VULCANIZER'S TOOL KIT (KIT NO. 13).

- | | |
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| <ul style="list-style-type: none"> 1 awl. 1 brush, $\frac{3}{4}$-inch, round, camel-hair. 1 bag, tool, waterproof, canvas, 18-inch. 1 brush, steel bristled, 2 by 6 inches. 1 brush, cement, 3-inch, flat. 1 file, card, wire. 1 knife, square point, 1 by 6 inch blade. 1 knife, notched, 1 by 4 inch blade. 1 knife, taper point, 4-inch blade. 1 knife, blade 10$\frac{1}{2}$ inches long, tapered down from $\frac{3}{8}$ inch at handle to $\frac{1}{8}$ inch at point, $\frac{1}{16}$ inch thick, 4-inch handle (no sharp edges). | <ul style="list-style-type: none"> 1 oilstone, carborundum, coarse and fine, 8 by 2 by 1 inch. 1 pliers, 6 inches, combination. 1 pliers, 5 inches, long round nose. 1 roller, concave, 2 inches wide by 2 inches diameter. 1 roller, flat, 1$\frac{1}{2}$ inches wide by 1$\frac{1}{2}$ inches diameter. 1 roller, flat, 1$\frac{1}{4}$ inches wide by 1$\frac{1}{4}$ inches diameter. 1 roller, flat, $\frac{1}{4}$ inch wide by 2$\frac{1}{2}$ inches diameter. 1 roller, flat, $\frac{1}{2}$ inch wide by 2$\frac{1}{2}$ inches diameter. 1 stitcher, roller. |
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NOTE 15.

BATTERY EXPERT'S TOOL KIT (KIT NO. 14).

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|--|--|
| <ul style="list-style-type: none"> 1 bag, tool, waterproof, canvas, 18 inches. 1 dozen blades, hacksaw, 12 inches, 24 P. 1 chisel, firmer socket, $\frac{3}{4}$-inch. 1 chisel, firmer socket, $\frac{1}{2}$-inch. 1 file, card, wire. 1 frame, hack, adjustable, 8 to 12 inches (sliding end-post type). 1 hammer, machinist's, ball peen, 1 pound. 1 knife, putty, 1$\frac{1}{2}$ inches. 1 nippers, 10 inches, end cutting. 1 pliers, 8 inches, gas. | <ul style="list-style-type: none"> 1 pliers, 5 inches, loom fixers (long flat nose). 1 pliers, 8 inches, electrician's, side cutting. 1 pliers, 8 inches, combination. 1 punch, center, round knurled $\frac{1}{4}$-inch body, 4 inches long. 1 screw driver, 8 inches, perfect handle. 1 screw driver, 6 inches, perfect handle, bulldog. 1 terminal puller, 18 inches. 1 wrench, 6 inches, crescent. 1 wrench, battery lock nut. |
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NOTE 16.

SHEET-METAL WORKER'S TOOL KIT (KIT NO. 15).

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|---|--|
| <ul style="list-style-type: none"> 1 chisel, cape, $\frac{3}{4}$-inch. 1 chisel cold, $\frac{1}{2}$ inch, flat. 1 chisel, cold, $\frac{3}{4}$ inch, flat. 1 chisel, cold, 1 inch, flat. 1 file, 8-inch round, bastard, with handle. 1 file, 12-inch round, bastard, with handle. 1 file, 10-inch half round, bastard, with handle. 1 file, 12-inch flat, bastard, with handle. 1 file, 12-inch flat, mill, with handle. 1 file, 14-inch half round, Vixen, with handle. 1 file, card, wire. 1 dozen hacksaw blades, 12 inches, 24 P. 1 hacksaw frame, 8 to 12 inches, adjustable (sliding end-post type). 1 hammer, tinner's riveting, 8-ounce. 1 hammer, tinner's riveting, 1$\frac{1}{2}$-pound. 1 iron, soldering, 4-pound. 1 mallet, round, wood, 2$\frac{1}{2}$-inch face. | <ul style="list-style-type: none"> 1 mallet, rawhide, 2-inch face. 1 punch, $\frac{1}{2}$-inch, solid taper, round knurled body. 1 punch, $\frac{3}{4}$-inch, solid taper, round knurled body. 1 punch, $\frac{1}{2}$-inch, solid taper, round knurled body. 1 pliers, 8 inches, combination. 1 pliers, set, metal worker's. 1 rule, steel, 3-foot, 3-fold. 1 rivet set, No. 00 tinner's. 1 rivet set, No. 0 tinner's. 1 rivet set, No. 1 tinner's. 1 rivet set, No. 2 tinner's. 1 rivet set, No. 3 tinner's. 1 rivet set, No. 4 tinner's. 1 rivet set, No. 5 tinner's. 1 rivet set, No. 6 tinner's. 1 scriber's, 8 inches. 1 tool bag, 18 inches, canvas. 1 wrench, 8 inches, auto-adjustable. |
|---|--|

SECTION XII.—REMOUNT SQUADRON.

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks and basis of issue.
Q	Accessories for vehicles.....	(a)	(b)	a b To be supplied when vehicles are supplied (see Note 30, Cir. 169, W. D., 1921; see Vehicles).
Q	Bags, feed.....	(a)	.....	a 1 per animal in addition to bag issued as part of riding equipment.
Q	Blades, hand-clipper, upper, extra.	(a)	.....	a 3 per clipper.
Q	Blades, hand-clipper, lower, extra.	(a)	.....	Do.
Q	Blades, clipping-machine, upper, extra.	(a)	.....	a 6 per machine.

SECTION XII.—REMOUNT SQUADRON—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
C	Blades, clipping-machine, lower, extra.	(a)	.....	• 6 per machine.
C	Brushes, whitewash	(a)	.....	• 2 per 100 animals.
C	Buckets, canvas, folding	(a)	.....	• 1 per 10 animals.
C	Clippers, hand	(a)	.....	• 1 per 25 animals.
C	Diggers, post-hole	(a)	.....	• 2 per squadron.
C	Extinguishers, fire, hand	(a)	.....	• 1 per 50 animals.
C	Harness	(a)	(b)	• To be supplied when vehicles are supplied (see Note 30, Cir. 169, W. D., 1921; see Vehicles).
C	Harness, casting sets	(a)	.....	• 1 per squadron.
C	Halters and tie rope	(a)	.....	• 1 per animal in addition to riding equipment.
C	Hooks, hay	(a)	.....	• 1 per 50 animals.
C	Horses, riding	(a)	.....	• 1 per officer and enlisted man, when necessary. No riding horses are assigned to remount squadron, those required being obtained from horses in training or being delivered.
C	Irons, branding:			
C	A	(a)	.....	• 1 per squadron.
C	D	(a)	.....	Do.
C	P	(a)	.....	Do.
C	R	(a)	.....	Do.
C	Lines, lead	(a)	.....	• 1 per 22 animals (see Note A).
C	Machines, clipping	(a)	.....	• 1 per 50 animals.
C	Mules, draft	(a)	.....	• To be supplied when vehicles are supplied (see Note 30, Cir. 169, W. D., 1921; see Vehicles). Issued at the rate of 2 per water cart, 4 per rolling kitchen, and 4 per escort wagon.
O	Pistols, automatic, caliber .45	(a)	.....	• 1 to each officer and noncommissioned officer; 20 additional for guard purposes.
C	Rope, picket-line, 1½-inch	(a)	.....	• 5 feet per animal.
C	Shears, roaching	(a)	.....	• 1 per 50 animals.
C	Sprayers, knapsack	(a)	.....	• 1 per 100 animals.
C	Stencil plates, sets	(a)	.....	Do.
C	Tanks, water, canvas, Model 1912	(a)	.....	Do.
C	Torches, blow, hand	(a)	.....	• 1 per 50 animals.
C	Twine, binder	(a)	.....	• 5 pounds per squadron.
C	Vehicles:		(b)	• To be supplied when remount squadron is serving detached from a remount depot.
C	Cart, water, 2-mule	1		
C	Kitchen, rolling, 4-mule	1		
C	Motorcycle, with side car	1		
C	Truck, 3-ton, type B	1		
C	Wagons, escort, 4-mule	4		
Q	Wheels, carborundum, with fixtures	(a)	.....	• 1 per squadron.

SECTION XIII.—FIELD REMOUNT DEPOT.

[Capacity, 400 animals in addition to equipment for the remount squadron.]

Q	Accessories, for vehicles	(a)	.....	• For complete list see Note 30, Cir. 169, W. D., 1921.
Q	Boots, rubber, knee, pair	(a)	.....	• 1 per enlisted man when authorized by commanding officer.
Q	Coats, fatigue	(a)	.....	Do.
Q	Harness	(a)	.....	Issued as part of complete vehicle (see Note 30, Cir. 169, W. D., 1921)
Q	Horses, riding	(a)	.....	• 1 per officer and enlisted man, when necessary. No riding horses are assigned to remount personnel, those required being obtained from horses in training or being delivered.
Q	Mules, draft	(a)	.....	• 2 per water cart, 4 per rolling kitchen, and 4 per escort wagon, wagon, medical, and ambulance.
C	Padlocks with keys	(a)	.....	• 4 per depot.
C	Trousers, fatigue	(a)	.....	• 1 per enlisted man when authorized by commanding officer.
C	Vehicles:			
C	Ambulance, animal-drawn	(a)	.....	• 1 per depot.
C	Carts, water, 2-mule	(a)	.....	Do.
C	Kitchens, rolling, 4-mule	(a)	.....	Do.
C	Motorcycles, with side cars	(a)	.....	Do.
C	Trucks, 3-ton, type B	(a)	.....	Do.
C	Wagons, escort, 4-mule	(a)	.....	• 4 per depot.
C	Wagons, medical, 4-mule	(a)	.....	• 1 per depot.

SECTION XIV.—FIELD REMOUNT DEPOTS.

[Capacity, 1,200 and 2,400 animals, embarkation remount depots, 2,400 capacity, and camp remount depots, 2,400 capacity, in addition to equipment for a remount squadron.]

The headquarters of a 1,200 field remount depot is equipped as a separate battalion headquarters, per par. 2, Circular 169, W. D., 1921. The headquarters of 2,400 field, embarkation, and camp remount depots are equipped as a regiment, per par. 2, Circular 169, W. D., 1921. The enlisted men of a headquarters detachment are equipped as a "company."

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Ambulances, animal-drawn.....	(a)	.....	a 2 for attached medical.
Q	Accessories for vehicles.....	(a)	.....	a See Note 30, Cir. 169, W. D., 1921.
Q	Axes with helves.....	(a)	.....	a 1 per 100 animals.
Q	Blades, hand, clipper, upper, extra.....	(a)	.....	a 3 per clipper.
Q	Blades, hand, clipper, lower, extra.....	(a)	.....	Do.
Q	Blades, clipping-machine, upper, extra.....	(a)	.....	a 6 per machine.
Q	Blades, clipping-machine, lower, extra.....	(a)	.....	Do.
Q	Boxes, feed.....		(b)	b 1 per animal.
Q	Brushes, whitewash.....	(a)	.....	a 1 per 100 animals.
Q	Carts, hand.....		(b)	b 1 per 100 animals.
Q	Cauldrons, with stovepipe.....		(b)	b 1 per 100 animals for cooking feed.
Q	Choppers, hay.....		(b)	b See Engines, 1,000 pounds per hour capacity for 1,200 depot, 1,800 pounds per hour capacity for 2,400 depot.
Q	Clippers, hand.....	(a)	.....	a 1 per 25 draft mules or major fraction thereof assigned for depot use.
Q	Coats, fatigue.....	(a)	.....	a 1 per enlisted man when authorized by commanding officer.
Q	Crowbars:			
Q	Pinch point.....	(a)	.....	a 3 per depot.
Q	Wedge point.....	(a)	.....	Do.
Q	Engines, gasoline, complete with shafting.....		(b)	b 1 per depot for hay chopper and oat roller, 8 horsepower for 1,200 depot, 12 horsepower for 2,400 depot.
Q	Extinguishers, fire:			
Q	Hand.....		(b)	b 1 per 100 animals.
Q	Chemical, hand-drawn, with 2 extra fillers.....		(b)	b 1 per depot.
Q	Harness, casting sets.....	(a)	.....	a 1 per depot.
Q	Harness.....			Included in Vehicles, complete. (See Note 30, Cir. 169, W. D., 1921.)
Q	Horses, riding.....	(a)	.....	a 1 per officer and enlisted man, when necessary. No riding horses are assigned to remount personnel, those required being obtained from horses in training or being delivered.
Q	Hose, rubber, 1-inch, with connections.....		(b)	b As directed by commanding officer.
Q	Irons, branding:			
Q	A.....	(a)	.....	a 1 per depot.
Q	D.....	(a)	.....	Do.
Q	P.....	(a)	.....	Do.
Q	R.....	(a)	.....	Do.
Q	Machines:			
Q	Clipping.....	(a)	.....	a 1 per 50 draft miles or major fraction thereof assigned for depot use.
Q	For sharpening hand and machine clipping blades.....	(a)	.....	a 1 per depot.
Q	Spraying.....	(a)	.....	a 1 per 800 animals or major fraction thereof.
Q	Mattocks.....	(a)	.....	a 1 per 100 animals.
Q	Mules, draft.....	(a)	.....	a 4 per escort wagon, ambulance and medical wagon.
Q	Needles, sacking.....	(a)	.....	a 1 per 100 animals.
Q	Padlocks and keys.....	(a)	.....	a 1 per 200 animals.

SECTION XIV.—FIELD REMOUNT DEPOTS—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
○○○	Paulins, large.....	(a)	.....	a 1 per 200 animals.
○○○	Pickaxes and helms.....	(a)	.....	a 1 per 100 animals.
○○○	Pistols, automatic, cal. .45.....	(a)	.....	a 1 to each officer and noncommissioned officer, headquarters and headquarters detachment.
○○	Rakes, steel.....	(a)	.....	a 1 per 100 animals.
○○	Rollers, oat.....	.....	(b)	b See Engines. 1,500 pounds per hour capacity for 1,200 depot, 3,000 pounds per hour capacity for 2,400 depot.
○○○	Rope:	.....	.....	.....
○○○	Picket line, 1½-inch.....	(a)	.....	a 1,000 feet per depot.
○○○	1-inch.....	(a)	.....	Do.
○○○	1-inch.....	(a)	.....	Do.
○○	Scales:	.....	.....	.....
○○	Spring, 500 pounds.....	.....	(b)	b 1 per depot.
○○	Platform, 8-ton.....	.....	(b)	b 1 per depot. To be supplied when practicable.
○	Shears, roaching.....	(a)	.....	a 1 per 200 animals.
○○○○○	Shovels, long-handled:	.....	.....	Do.
○○○○○	Round-point.....	(a)	.....	Do.
○○○○○	Square-point.....	(a)	.....	Do.
○○○○○	Spades.....	(a)	.....	a 2 per depot.
○○○○○	Stretchers, wire, fence.....	(a)	.....	a 1 per enlisted man when authorized by commanding officer.
○○○○○	Trousers, fatigue.....	(a)	.....	a 1 per 200 animals.
○	Trucks, hand, warehouse.....	.....	(b)	b 1 per 200 animals.
○○	Trucks, 3-ton, type B.....	(a)	.....	a 1 per 1,200 depot, 2 per 2,400, 3 per 3,200, 5 per 4,800, and 8 per 7,200 depot.
○	Twine, binder.....	(a)	.....	a 10 pounds per depot.
○	Vehicles:	.....	.....	.....
○	Cars, motor DS or DT, 5-passenger.....	(a)	.....	a 1 per depot.
○	Motorcycles, with side cars.....	(a)	.....	a 1 per 1,200 depot, 2 per 2,400 and 3,200 depot, and 3 per 4,800 and 7,200 depot.
○	Wagons, escort.....	(a)	.....	a 15 per 1,200 depot, 30 per 2,400 depot. Wagons, dump, drop bottom, not to exceed one-half the total number of wagons, may be substituted for wagons, escort.
○	Wagons, medical.....	(a)	.....	a 3 for attached medical and veterinary.
○○	Wheelbarrows.....	.....	(b)	b 1 per 100 animals.
○○	Wheels, carborundum, with fixtures.....	(a)	.....	a 1 per depot.

NOTE A.—Lead line to be made by squadron.

Specifications.—Take 123 feet of 1-inch rope and beginning at a point 7 feet from one end splice two ½-inch ropes, each 1 foot long, with snap hooks, every 12 feet up to 103 feet; place spreader 3 feet 10 inches long on the front end of rope (7-foot length), and attach two singletrees to ends of spreader; place spreader 3 feet 10 inches long at rear end of rope (20-foot length), the breast straps of rear horses to be attached to ends of rear spreader. In the center of the rope attach a ½-inch rope 5 feet long for use of rider. A set of lead harness is used on the front of the rope and a set of wheel harness at the rear end of the rope. Capacity, 22 animals.

NOTE B.—Motor transportation for the remount service offices will be assigned as follows:

One car, 7-passenger, one car, 5-passenger, to chief remount officer, service of supply; one car, 7-passenger, and one motorcycle with side car, chief remount officer, advance zone; one car, 5-passenger, one motorcycle with side car, to headquarters group of remount depots; one car, 5-passenger, to Army remount officer; one car, 5-passenger, one motorcycle with side car, to corps remount officer.

SECTION XV.—WAGON COMPANY (2 SECTION).

[Peace strength.]

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
	Axes and helms.....	(a)		a 1 per section (kitchen).
	Bags, feed.....	(a)		a 1 per extra draft animal.
	Blades, hand clipper, upper, extra.	(a)		a 3 per clipper.
	Blades, hand clipper, lower, extra.	(a)		Do.
	Blades, clipping-machine, upper, extra.	(a)		a 6 per clipper.
	Blades, clipping-machine, lower, extra.	(a)		Do.
	Blocks and tackles, double, w/200 feet of 1-inch rope.	(e)		a 1 per company.
	Carts, hand.....		(b)	b 1 per section.
	Clippers, hand.....	(a)		a 1 per 50 animals or fraction thereof.
	Extinguishers, fire, hand.....		(b)	b 1 per 50 animals or fraction thereof.
	Flys, tent, large.....	(a)		a 1 per wagon company.
	Grindstones with frame complete, diameter 12 inches.	(a)		Do.
	Halters, head w/hanks.....	(a)		a 1 per extra draft animal.
	Horses, riding.....	(a)		a 4 per company.
	Hooks, hay.....	(a)		a 1 per 50 animals.
	Hose, rubber, 1/2-inch, with con- nections.		(b)	b 50 feet per section.
	Hammers, sledge, 9 pounds.....	(a)		a 1 per section.
	Harness: Ambulance or wagon lead, S. S., with spare parts and accessories.	(a)		a 2 per escort wagon.
	Ambulance or wagon wheel, S. S., with spare parts and accessories.	(e)		Do.
	Hooks, harness.....	(a)		Do.
	Irons, branding, I. C.....	(a)		a 1 per company.
	Irons, branding, U. S.....	(a)		Do.
	Kegs, water, 10-gallon.....	(a)		a 4 per section.
	Kits, farrier's.....	(a)		a 1 per section.
	Mules, draft.....	(a)		a 4 per escort wagon and 4 extra per section.
	Mules, riding.....	(a)		a 13 per company.
	Machines, clipping.....	(a)		a 1 per section.
	Padiocks and keys.....	(a)		a 2 per section.
	Paulins, large.....	(a)		a 1 per company.
	Fliers, 8-inch.....	(a)		a 2 per section.
	Pistols.....	(a)		a 6 per company.
	Ranges, field No. 2.....	(a)		a 1 per section.
	Rope, picket line, 1-inch.....	(a)		a 3 feet per animal.
	Rifles.....	(a)		a 94 per company.
	Shears, tailor's, 6-inch blades.....	(a)		a 2 per section.
	Showels, scoop.....	(a)		a 1 per 50 animals.
	Tents, wall, large, with poles.....	(a)		a 1 per company.
	Tools: Blacksmith's set.....	(a)		Do.
	Wheelwright's set.....	(a)		Do.
	Horseshoer's set, including kit.	(a)		a 1 per horseshoer.
	Saddler's set, including kit.	(a)		a 1 per saddler.
	Vehicles, wagon escort with spare parts and accessories.	(a)		a 62 per company.
	Wheels, escort wagon, front, extra.	(a)		a 1 per section.
	Wheels, escort wagon, hind, extra.	(a)		Do.

SECTION XVI.—WAGON TRAIN, ARMY CORPS.

[War strength.]

Q	Bags, feed.....	(a)		a 1 per extra draft animal.
Q	Blades, hand clipper, upper extra.	(a)		a 3 per clipper.
Q	Blades, hand clipper, lower extra.	(a)		Do.
Q	Blades, clipping-machine, upper extra.	(a)		a 6 per clipper.
Q	Blades, clipping-machine, lower extra.	(a)		Do.
Q	Blocks and tackles, double w/200 feet of 1-inch rope.	(a)		a 1 per company.
Q	Carts, hand.....		(b)	b 1 per section.

SECTION XVI.—WAGON TRAIN, ARMY CORPS—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
CC	Clippers, hand.....	(a)		a 1 per 50 animals.
CC	Extinguishers, fire, hand.....	(a)	(b)	b 1 per 50 animals.
CC	Flys, tent, large.....	(a)		a 1 per wagon company.
CC	Grindstones with frames, com- plete, diameter 12 inches.....	(a)		Do.
CC	Halters, head with shanks.....	(a)		a 1 per extra draft animal.
CC	Horses, riding.....	(a)		a 38, including train headquarters and attached troops.
CC	Hooks, hay.....	(a)		a 1 per 50 animals.
CC	Hose, rubber, 1-inch, with connec- tions.....	(a)	(b)	b 50 feet per section.
CC	Hammers, sledge, 9 pounds.....	(a)		a 1 per section.
CC	Harness: Ambulance or wagon lead, S. S., with spare parts and accessories.....	(a)		a 2 per ambulance, 2 per escort wagon, 2 per medical wagon.
CC	Ambulance or wagon wheel, S. S., with spare parts and accessories.....	(a)		Do.
CC	Hooks, harness.....	(a)		a 2 per escort wagon.
CC	Irons, branding, I. C.....	(a)		a 1 per company.
CC	Irons, branding, U. S.....	(a)		Do.
CC	Kegs, water, 10-gallon.....	(a)		a 8 per section.
CC	Kits, farriers'.....	(a)		a 1 per section.
CC	Mules, draft.....	(a)		a 4 per ambulance, 4 per medical wagon.
CC	Mules, riding.....	(a)		a 18 per company.
CC	Machines, clipping.....	(a)		a 1 per section.
CC	Padlocks and keys.....	(a)		a 2 per section.
CC	Paulins, large.....	(a)		a 1 per company.
CC	Pliers, 8-inch.....	(a)		a 2 per section.
CC	Pistols.....	(a)		a 1 per noncommissioned officer; and 1 per enlisted man, train headquarters.
CC	Ranges, field, No. 2.....	(a)		a 2 per company.
CC	Rope, picket-line, 1-inch.....	(a)		a 3 feet per animal.
CC	Rifles.....	(a)		a 1 per enlisted man not armed with pistol.
CC	Shears, tailor's, 6-inch blades.....	(a)		a 2 per section.
CC	Shovels, scoop.....	(a)		a 1 per 50 animals.
CC	Tents, wall, large, with poles.....	(a)		a 1 per company.
CC	Tools: Blacksmith's set.....	(a)		Do.
CC	Wheelwright's set.....	(a)		Do.
CC	Horseshoer's set, including kit.....	(a)		a 1 per horseshoer.
CC	Saddler's set, including kit.....	(a)		a 1 per saddler.
CC	Vehicles: Ambulances, complete, with spare parts and accessories.....	(a)		a 1 medical department.
CC	Wagons, escort, with spare parts and accessories.....	(a)		a 92 per company, 1 per medical depart- ment.
CC	Wagons, medical, with spare parts and accessories.....	(a)		a 1 per medical department.
CC	Wheels, escort wagon, front, extra.....	(a)		a 1 per section.
CC	Wheels, escort wagon, hind, extra.....	(a)		Do.

SECTION XVII.—WAGON COMPANY (3 SECTION).

[War strength.]

CC	Bags, feed.....	(a)		a 1 per extra draft animal.
CC	Blades, hand clipper, upper extra.....	(a)		a 3 per clipper.
CC	Blades, hand clipper, lower extra.....	(a)		Do.
CC	Blades, clipping-machine, upper extra.....	(a)		a 6 per clipper.
CC	Blades, clipping-machine, lower, extra.....	(a)		Do.
CC	Blocks and tackles, double w/200 feet of 1-inch rope.....	(a)		a 1 per company.
CC	Carts, hand.....		(b)	b 1 per section.
CC	Clippers, hand.....	(a)		a 1 per 50 animals.
CC	Extinguishers, fire, hand.....		(b)	b 1 per 50 animals.
CC	Flys, tent, large.....	(a)		a 1 per wagon company.
CC	Grindstone, with frame complete, diamater 12 inches.....	(a)		Do.
CC	Halters, head with shanks.....	(a)		a 1 per extra draft animal.

SECTION XVII.—WAGON COMPANY (3 SECTION)—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Horses, riding.....	(a)	.....	a 5 per company.
Q	Hooks, hay.....	(a)	.....	a 1 per 50 animals.
Q	Hose, rubber, 1/4-inch, with connections.	.....	(b)	b 50 feet per section.
Q	Hammers, sledge, 9-pound.....	(a)	.....	a 1 per section.
Q	Harness: Ambulance or wagon lead, S. S., with spare parts and accessories.	(a)	.....	a 2 per escort wagon.
Q	Ambulance or wagon wheel, S. S., with spare parts and accessories.	(a)	.....	Do.
Q	Hooks, harness.....	(a)	.....	Do.
Q	Irons, branding, I. C.....	(a)	.....	a 1 per company.
Q	Irons, branding, U. S.....	(a)	.....	Do.
Q	Kegs, water, 10-gallon.....	(a)	.....	a 8 per section.
Q	Kits, farriers.....	(a)	.....	a 1 per section.
Q	Mules, riding.....	(a)	.....	a 4 per escort wagon, 4 extra per section.
Q	Machines, clipping.....	(a)	.....	a 18 per company.
Q	Padlocks and keys.....	(a)	.....	a 1 per section.
Q	Paulins, large.....	(a)	.....	a 2 per section.
Q	Pliers, 8-inch.....	(a)	.....	a 1 per company.
Q	Pistols.....	(a)	.....	a 2 per section.
Q	Ranges, field.....	(a)	.....	a 1 per noncommissioned officer.
Q	Rope, picket-line, 1-inch.....	(a)	.....	a 2 per company.
Q	Rifles.....	(a)	.....	a 3 feet per animal.
Q	Shears, tailor's, 6-inch blades.....	(a)	.....	a 1 per enlisted man not armed with pistol.
Q	Shovels, scoop.....	(a)	.....	a 2 per section.
Q	Tents, wall, large, with poles.....	(a)	.....	a 1 per 50 animals.
Q	Tools: Blacksmith's set.....	(a)	.....	a 1 per company.
Q	Wheelwright's set.....	(a)	.....	Do.
Q	Horseshoer's set, including kit.....	(a)	.....	Do.
Q	Saddler's set, including kit.....	(a)	.....	a 1 per horseshoer.
Q	Vehicles: Wagons, escort, with spare parts and accessories.	(a)	.....	a 1 per saddler.
Q	Wheels, escort wagon, hind, extra.	(a)	.....	a 92 per company.
Q	Wheels, escort wagon, front, extra.	(a)	.....	a 1 per section.
Q		(a)	.....	Do.

SECTION XVIII.—PACK TRAIN.

[Peace and war strength.]

Q	Aparejos, complete.....	(a)	.....	a 50 per pack train.
Q	Anvils, 34-pound.....	.....	(b)	b 1 per pack train.
Q	Bags, war (for clothes).....	(a)	.....	a 1 per man.
Q	Bells, cow, small.....	(a)	.....	a 1 per pack train.
Q	Blankets, saddle.....	(a)	.....	a 1 per riding animal.
Q	Blinds, packer's.....	(a)	.....	a 14 per pack train.
Q	Blades, clipping-machine, upper, extra.	.....	(b)	b 6 per clipper.
Q	Blades, clipping-machine, lower, extra.	.....	(b)	Do.
Q	Blades, hand-clipper, lower, extra.	.....	(b)	b 3 per clipper.
Q	Blades, hand-clipper, upper, extra.	.....	(b)	Do.
Q	Boxes, blacksmith.....	(a)	.....	a 2 per pack train.
Q	Boxes, cargador's.....	(a)	.....	a 1 per pack train.
Q	Boxes, mess.....	(a)	.....	a 2 per pack train.
Q	Bridles, riding, complete.....	(a)	.....	a 1 per riding animal.
Q	Brushes, horse.....	(a)	.....	a 10 per pack train.
Q	Buckets, G. I.....	.....	(b)	b 2 per pack train.
Q	Cans, G. I.....	.....	(b)	Do.
Q	Clippers, hand.....	.....	(b)	Do.
Q	Combs, curry.....	(a)	.....	a 10 per pack train.
Q	Covers, cargo.....	(a)	.....	a 1 per 10 aparejos.
Q	Covers, feed.....	(a)	.....	Do.
Q	Covers, rigging.....	(a)	.....	Do.
Q	Forges, portable.....	.....	(b)	b 1 per pack train.
Q	Hatchets, tent.....	(a)	.....	Do.
Q	Halters, head, w/shank.....	(a)	.....	a 1 per animal.
Q	Horses, bell.....	(a)	.....	a 1 per pack train.
Q	Horses, stitching.....	(a)	.....	Do.
Q	Hobbles, pairs.....	(a)	.....	Do.
Q	Kits, shoeing, pack train.....	(a)	.....	Do.
Q	Kits, cargador's.....	(a)	.....	Do.
Q	Kits, mess, pack train.....	(a)	.....	Do.

SECTION XVIII.—PACK TRAIN—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
	Lanterns, with globes and wicks...	(a)	.....	a 2 per pack train.
	Mules, pack.....	(a)	.....	a 50 per pack train.
	Mules, riding.....	(a)	.....	a 14 per pack train.
	Pads, hay.....	(a)	.....	a 2 per five aparejos.
	Pickaxes.....	(a)	.....	a 1 per pack train.
	Pistols.....	(a)	.....	a 1 per man.
	Pliers, 8-inch.....	(a)	.....	a 1 per pack train.
	Rope, picket-line, 150 feet of 1-inch rope.....	(a)	.....	Do.
	Sacks, tool.....	(a)	.....	Do.
	Saddles, full-rigged.....	(a)	.....	a 1 per riding animal.
	Shears, tailor's.....	(a)	.....	a 2 per pack train.
	Spades.....	(a)	.....	a 1 per pack train.
	Tags, shipping, linen.....	(a)	.....	a 200 per pack train.
	Tents, wall.....	(a)	.....	a 1 per pack train.
	Vises.....	(a)	.....	Do.

SECTION XIX.—DIVISION TRAIN (WAGON-PACK), CAVALRY DIVISION.

[Peace and war strength.]

(One train headquarters, two wagon companies (two sections each), and four pack trains.)

	Anvils, 34-pound.....	(a)	(b)	b 1 per pack train.
	Axes and helvies.....	(a)	.....	a 1 per section (kitchen).
	Bags, feed.....	(a)	.....	a 1 per extra draft animal.
	Bags, war (for clothes).....	(a)	.....	a 1 per man.
	Bells, cow, small.....	(a)	.....	a 1 per pack train.
	Blades, hand-clipper, upper, extra.....	(a)	.....	a 3 per clipper.
	Blades, hand-clipper, lower, extra.....	(a)	.....	Do.
	Blades, clipping-machine, upper, extra.....	(a)	.....	a 6 per clipper.
	.....do.....	(a)	(b)	b 6 per clipper.
	Blades, clipping-machine, lower, extra.....	(a)	.....	a 6 per clipper.
	.....do.....	(a)	(b)	b 6 per clipper.
	Blankets, saddle.....	(a)	.....	a 1 per riding animal.
	Blinds, packers.....	(a)	.....	a 14 per pack train.
	Blocks and tackles, double, w/200 feet 1-inch rope.....	(a)	.....	a 1 per company.
	Boxes, blacksmith's.....	(a)	.....	a 2 per pack train.
	Boxes, cargador's.....	(a)	.....	a 1 per pack train.
	Boxes, mess.....	(a)	.....	a 2 per pack train.
	Bridles, riding, complete.....	(a)	.....	a 1 per riding animal.
	Brushes, horse.....	(a)	.....	a 10 per pack train.
	Buckets, galvanized-iron.....	(b)	.....	b 2 per pack train.
	Cans, galvanized-iron.....	(b)	.....	Do.
	Carts, hand.....	(b)	.....	b 1 per section.
	Clippers, hand.....	(a)	.....	a 1 per 50 animals.
	.....do.....	(a)	(b)	b 2 per pack train.
	Combs, curry.....	(a)	.....	a 10 per pack train.
	Covers, cargo.....	(a)	.....	a 1 per 10 aparejos.
	Covers, feed.....	(a)	.....	Do.
	Covers, rigging.....	(a)	.....	Do.
	Extinguishers, fire.....	(b)	.....	b 1 per 50 animals.
	Flies, tent, large.....	(a)	.....	a 1 per company.
	Forges, portable.....	(b)	.....	b 1 per pack train.
	Grindstone, with frame, complete, 12 inches diameter.....	(a)	.....	a 1 per wagon company.
	Halters, head, w/shanks.....	(a)	.....	a 1 per extra draft animal with wagon com- pany.
	.....do.....	(a)	.....	a 1 per animal with pack train.
	Hammers, 9-pound.....	(a)	.....	a 1 per section.
	Harness: Ambulance or wagon, lead, S. S., w/spare parts and ac- cessories.....	(a)	.....	a 2 per escort wagon.
	Ambulance or wagon, wheel, S. S., w/spare parts and ac- cessories.....	(a)	.....	Do.
	Hatchets, tent.....	(a)	.....	a 1 per pack train.
	Hobbles, pairs.....	(a)	.....	Do.
	Hooks, harness.....	(a)	.....	a 2 per escort wagon.
	Hooks, hay.....	(a)	.....	a 1 per 50 animals with the company.
	Horses, riding.....	(a)	.....	a 4 per wagon company, 6 per train head- quarters, 12 per attached medical and veterinary.
	Horses, bell.....	(a)	.....	a 1 per pack train.
	Horses, stitching.....	(a)	.....	Do.

SECTION XIX.—DIVISION TRAIN (WAGON PACK), CAVALRY DIVISION—Continued.

Branch.	Articles.	A War set.	B Addi- tional for use at posts and camps.	Remarks and basis of issue.
Q	Hose, rubber, 1/2-inch, with connection.	.....	(b)	b 50 feet per section.
Q	Irons, branding, I. C.	(a)	.....	a 1 per company.
Q	Irons, branding, U. S.	(a)	.....	Do.
Q	Kegs, water, 10-gallon.	(a)	.....	a 4 per section.
Q	Kits, caregiver's.	(a)	.....	a 1 per pack train.
Q	Kits, farrier's.	(a)	.....	a 1 per section.
Q	Kits, mess, pack train.	(a)	.....	a 1 per pack train.
Q	Kits, shoeing, pack train.	(a)	.....	Do.
Q	Lanterns with globes and wicks.	(a)	.....	a 2 per pack train.
Q	Machine, clipping.	(a)	.....	a 1 per section.
Q	Mules, draft.	(a)	.....	a 4 per escort wagon and 4 extra per section.
Q	Motorcycles, with side car.	(a)	.....	a 1 per train for medical.
Q	Mules, pack.	(a)	.....	a 50 per pack train.
Q	Mules, riding.	(a)	.....	a 14 per pack train, 17 per company.
Q	Padlocks and keys.	(a)	.....	a 2 per section.
Q	Paulins, large.	(a)	.....	a 1 per company.
Q	Pickaxes.	(a)	.....	a 1 per pack train.
Q	Pistols.	(a)	.....	a 1 per officer and enlisted man, train headquarters, 6 per wagon company, and 1 per man per pack train.
Q	Pliers, 8-inch.	(a)	.....	a 2 per section, 1 per pack train.
Q	Ranges, field, No. 2.	(a)	.....	a 1 per section.
Q	Rifles.	(a)	.....	a 1 per enlisted man, wagon company, not armed with pistol.
Q	Rope, picket-line, 1-inch.	(a)	.....	a 3 feet per animal per company.
Q	Rope, picket-line, 150 feet, 1-inch.	(a)	.....	a 1 per pack train.
Q	Sacks, tool.	(a)	.....	Do.
Q	Saddles, full-rigged.	(a)	.....	a 1 per riding animal.
Q	Shears, tailor's, 6-inch.	(a)	.....	a 2 per pack train and 2 per section of wagon company.
Q	Shovels, scoop.	(a)	.....	a 1 per 50 animals per company.
Q	Spades.	(a)	.....	a 1 per pack train.
Q	Tags, shipping, linen.	(a)	.....	a 200 per pack train.
Q	Tents, wall, large, w/poles.	(a)	.....	a 1 per company and 1 per pack train.
Q	Tools:			
Q	Blacksmith's set.	(a)	.....	a 1 per company.
Q	Horseshoer's set, including kit.	(a)	.....	a 1 per horseshoer.
Q	Saddler's set, including kit.	(a)	.....	a 1 per saddler.
Q	Whealwright's set.	(a)	.....	a 1 per company.
Q	Vehicles:			
Q	Wagons, medical, 4-mule.	(a)	.....	a 1 per train.
Q	Wagons, escort, with spare parts and accessories.	(a)	.....	a 62 per company.
Q	Wheels, escort wagon, front, extra.	(a)	.....	a 1 per section.
Q	Wheels, escort wagon, hind, extra.	(a)	.....	Do.

SECTION XX.—WAGON TRAIN.

[Peace strength.]

(Consisting of train headquarters, three wagon companies of two sections each, and medical detachment.)

Q	Axes and helms.	(a)	.....	a 1 per section (kitchen).
Q	Bags, feed.	(a)	.....	a 1 per extra draft animal.
Q	Blades, hand clipper, upper, extra.	(a)	.....	a 3 per clipper.
Q	Blades, hand clipper, lower, extra.	(a)	.....	Do.
Q	Blades, clipping machine, upper, extra.	(a)	.....	a 6 per clipper.
Q	Blades, clipping-machine, lower, extra.	(a)	.....	Do.
Q	Blocks and tackle, double, w/200 feet 1-inch rope.	(a)	.....	a 1 per company.
Q	Carts, hand.	.....	(b)	b 1 per section.
Q	Clippers, hand.	(a)	.....	a 1 per 50 animals or fraction thereof.
Q	Extinguishers, fire, hand.	.....	(b)	b 1 per 50 animals or fraction thereof.
Q	Flies, tent, large.	(a)	.....	a 1 per wagon company.
Q	Grindstones, with frames, complete, diameter 12 inches.	(a)	.....	Do.
Q	Halters, head, with shanks.	(a)	.....	a 1 per extra draft animal.
Q	Horses, riding.	(a)	.....	a 4 per company.
Q	Hooks, hay.	(a)	.....	a 1 per 50 animals.
Q	Hose, rubber, 1/2-inch, with connections.	.....	(b)	b 50 feet per section.
Q	Hammers, sledge, 9-pound.	(a)	.....	a 1 per section.
Q	Harness, ambulance or wagon lead, S. S., with spare parts and accessories.	(a)	.....	a 2 per escort wagon.

SECTION XX.—WAGON TRAIN—Continued.

Branch.	Articles.	(A) War set.	(B) Addi- tional for use at posts and camps.	Remarks and basis of issue.
Q	Harness, ambulance or wagon wheel, S. S., with spare parts and accessories.	(a)	.....	a 2 per escort wagon.
Q	Hooks, harness.....	(a)	.....	Do.
Q	Irons, branding, I. C.....	(a)	.....	a 1 per company.
Q	Irons, branding, U. S.....	(a)	.....	Do.
Q	Kegs, water, 10-gallon.....	(a)	.....	a 4 per section.
Q	Kits, farrier's.....	(a)	.....	a 1 per section.
Q	Mules, draft.....	(a)	.....	a 4 per escort wagon and 4 extra per section.
Q	Mules, riding.....	(a)	.....	a 13 per company.
Q	Machines, clipping.....	(a)	.....	a 1 per section.
Q	Padlocks and keys.....	(a)	.....	a 2 per section.
Q	Paulins, large.....	(a)	.....	a 1 per company.
Q	Pliers, 8-inch.....	(a)	.....	a 2 per section.
Q	Pistols.....	(a)	.....	a 1 per officer and enlisted man per train, headquarters, 6 per company.
Q	Ranges, field, No. 2.....	(a)	.....	a 1 per section.
Q	Rope, picket-line, 1 inch.....	(a)	.....	a 3 feet per animal.
Q	Rifles.....	(a)	.....	a 1 per enlisted man not armed with pistol.
Q	Shears, tailor's, 6-inch blades.....	(a)	.....	a 2 per section.
Q	Shovels, scoop.....	(a)	.....	a 1 per 50 animals.
Q	Tents, wall, large, w/poles.....	(a)	.....	a 1 per company.
Q	Tools:			
Q	Blacksmith's set.....	(a)	.....	Do.
Q	Wheelwright's set.....	(a)	.....	Do.
Q	Horseshoer's set, including kit.....	(a)	.....	a 1 per horseshoer.
Q	Saddler's set, including kit.....	(a)	.....	a 1 per saddler.
Q	Vehicles, wagons, escort, with spare parts and accessories.	(a)	.....	a 62 per company.
Q	Wheels, escort wagon, front, extra.	(a)	.....	a 1 per section.
Q	Wheels, escort wagon, hind, extra.	(a)	.....	Do.

SECTION XXI.—WAGON COMPANY (2 SECTION).

[War strength.]

Q	Bags, feed.....	(a)	.....	a 1 per extra draft animal.
Q	Blades, hand clipper, upper, extra.	(a)	.....	a 3 per clipper.
Q	Blades, hand clipper, lower, extra.	(a)	.....	Do.
Q	Blades, clipping-machine, upper, extra.	(a)	.....	a 6 per clipper.
Q	Blades, clipping-machine, lower, extra.	(a)	.....	Do.
Q	Blocks and tackles, double, w/200 feet of 1-inch rope.	(a)	.....	a 1 per company.
Q	Carts, hand.....		(b)	b 1 per section.
Q	Clippers, hand.....	(a)	.....	a 1 per 50 animals.
Q	Extinguishers, fire, hand.....		(b)	b 1 per 50 animals.
Q	Flys, tent, large.....	(a)	.....	a 1 per wagon company.
Q	Grindstones, with frames complete, diameter 12 inches.	(a)	.....	Do.
Q	Halters, head, with shanks.....	(a)	.....	a 1 per extra draft animal.
Q	Horses, riding.....	(a)	.....	a 4 per company.
Q	Hooks, hay.....	(a)	.....	a 1 per 50 animals.
Q	Hose, rubber, 1/2-inch, with connections.	(b)	.....	b 50 feet per section.
Q	Hammers, sledge, 9-pound.....	(a)	.....	a 1 per section.
Q	Harness:			
Q	Ambulance or wagon, lead, S. S., with spare parts, and accessories.	(a)	.....	a 2 per escort wagon.
Q	Ambulance or wagon, wheel, S. S., with spare parts and accessories.	(a)	.....	Do.
Q	Hooks, harness.....	(a)	.....	Do.
Q	Irons, branding, I. C.....	(a)	.....	a 1 per company.
Q	Irons, branding, U. S.....	(a)	.....	Do.
Q	Kegs, water, 10-gallon.....	(a)	.....	a 8 per section.
Q	Kits, farriers.....	(a)	.....	a 1 per section.
Q	Mules, draft.....	(a)	.....	a 4 per escort wagon, 4 extra per section.
Q	Mules, riding.....	(a)	.....	a 17 per company.
Q	Machines, clipping.....	(a)	.....	a 1 per section.
Q	Padlocks and keys.....	(a)	.....	a 2 per section.
Q	Paulins, large.....	(a)	.....	a 1 per company.
Q	Pliers, 8-inch.....	(a)	.....	a 2 per section.
Q	Pistols.....	(a)	.....	a 10 per company.
Q	Ranges, field, No. 2.....	(a)	.....	a 1 per company.
Q	Rope, picket-line, 1-inch.....	(a)	.....	a 3 feet per animal.
Q	Rifles.....	(a)	.....	a 1 per enlisted man not armed with pistol.
Q	Shears, tailor's, 6-inch blades.....	(a)	.....	a 2 per section.
Q	Shovels, scoop.....	(a)	.....	a 1 per 50 animals.

SECTION XXI.—WAGON COMPANY (2 SECTION)—Continued.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Tents, wall, large, w/poles.....	(a)	.....	a 1 per company.
	Tools:			
	Blacksmith's set.....	(a)	.....	Do.
	Wheelwright's set.....	(a)	.....	Do.
	Horseshoer's set including kit.....	(a)	.....	a 1 per horseshoer.
	Saddler's set, including kit.....	(a)	.....	a 1 per saddler.
	Vehicles, wagons, escort, with spare parts and accessories.	(a)	.....	a 62 per company.
Q	Wheels, escort wagon, front, extra.	(a)	.....	a 1 per section.
	Wheels, escort wagon, hind, extra.	(a)	.....	Do.

SECTION XXII.—BAKERY COMPANY.

Q	Bars, grate, single, cast-iron.....	(a)	.....	a 27 per unit.
	Boards, dam for dough troughs.....	(a)	.....	a 2 per unit.
	Boxes, supplies.....	(a)	.....	a 1 per unit (see Note 1.)
	Brushes:			
	Bench.....	(a)	.....	a 1 per unit.
	For greasing loaves.....	(a)	.....	Do.
Q	Burners:			
	Extra and feed wire without tank.....	(a)	.....	Do.
	Oil and accessories, complete.....	(a)	.....	Do.
	Cans, sponge, nested.....	(a)	.....	a 7 per unit.
	Clocks, alarm.....	(a)	.....	a 1 per unit.
	Colanders, 12-inch.....	(a)	.....	Do.
	Covers, canvas:			
	For dough troughs.....	(a)	.....	a 2 per unit.
	For bread racks.....	(a)	.....	a 3 per unit.
	For ovens.....	(a)	.....	a 1 per unit.
	Covers, sponge, can.....	(a)	.....	Do.
	Funnels, 6-inch.....	(a)	.....	Do.
	Hatchets, with helms.....	(a)	.....	Do.
	Hoes, iron, for ash pits.....	(a)	.....	Do.
	Hooks, pan.....	(a)	.....	Do.
	Hose, rubber, with couplings and nozzles.....	(a)	.....	a 50 feet per section.
Q	Lanterns, equipped for both can- dle and oil.....	(a)	.....	a 2 per unit.
Q	Measures, gallon, graduated cast aluminum.....	(a)	.....	a 1 per unit.
Q	Mules, draft.....	(e)	.....	a To be supplied for interior service, supply, and transport, as circumstances attend- ing the operation of bakery companies or its detached subdivisions may require.
	Ovens, field.....	(a)	.....	a 1 per unit.
	Pans, bake, 12 by 24 inches.....	(a)	.....	a 36 per unit.
	Pistols, automatic, cal. 45.....	(a)	.....	a 1 per officer and noncommissioned officer.
	Racks, bread, folding.....	(a)	.....	a 3 per unit.
	Scales, baker's.....	(a)	.....	a 1 per unit.
	Scales, folding, platform.....	1	.....	Do.
	Scoops, large, cast aluminum.....	(a)	.....	a 2 per unit.
	Scrapers, dough.....	(a)	.....	a When latrines are not housed.
	Screens, latrine.....	a 3	.....	a 1 per unit.
	Shovels, long-handled.....	(a)	.....	Do.
	Sieves, flour.....	(a)	.....	Do.
	Tables, molding.....	(a)	.....	Do.
	Thermometers:			
	Dough.....	(a)	.....	Do.
	Oven.....	(a)	.....	Do.
	Tools, set.....	1	.....	See Note 2.
	Troughs, dough.....	(a)	.....	a 2 per unit.
	Vehicles, motor and animal drawn.....	(a)	.....	a To be supplied for interior service, supply, and transport, as circumstances attend- ing the operation of bakery company or its detached subdivisions may require.
Q	Wrenches:			
	Monkey, 8-inch.....	(a)	.....	a 1 per unit.
	Stillson, 10-inch.....	(a)	.....	Do.

NOTE 1.—The following supplies, for immediate use upon arrival in camp, should be kept packed and ready for shipment with the field bakery. For each unit, one box containing the following supplies: 20 pounds soap, issue; 20 pounds candles, issue; 10 cans lye; 5 pounds nails, 20-penny; 5 pounds nails, 10-penny; 10 pounds nails, 8-penny; 5 pounds nails, 6-penny; 20 pounds asbestos rope.

NOTE 2.—Tools, set for bakery company, comprise the following: 3 borers, tap; 6 bits, carpenter's, one each 1-inch, 1-inch, 1-inch, 1-inch, and 1 1/2-inch, expansion; 1 brace, carpenter's, 10-inch; 1 chisel, wood, 1/2-inch; 1 chisel, hand, cold, 1/2-inch; 3 faucets, wood or metal; 2 files, flat, 8-inch; 2 files, saw, 8-inch; 3 hammers, claw; 1 iron, soldering; 1 plane, jack, 5-inch; 1 plane, smooth, 9-inch; 1 pliers, 8-inch; 3 rules, 2-foot, 4-fold; 3 saws, hand crosscut; 1 saw, hand rip; 1 screw driver, 12-inch; 1 screw driver, 6-inch; 1 shears, tinner's; 1 try square, 10-inch; 1 chest, tool; 1 tape, steel, 100 feet; 3 trowels, mason's; 3 wrenches, monkey, 8-inch; 2 pounds solder; 2 pounds resin; 1 pint acid, muriatic.

SECTION XXIII.—LAUNDRY COMPANY.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Laundries, mobile, complete.....	(a)	.....	• 1 steam tractor and 4 trailers containing 2 washers, 2 extractors, 1 soap tank, 1 steam drying tumbler, 1 hot-water heater, 1 cold-storage water tank, 1 steam pump, steam piping, hose, and drains, lighting system, locker for tools, and spares for tools assembly and operating.
Q	Motorcycles, with side cars.....	1	.....
Q	Pistols.....	(a)	.....	• 1 per officer and noncommissioned officer.
Q	Tents, pyramidal, large.....	5	.....

SECTION XXIV.—SALVAGE COMPANY.

Q	Lanterns.....	• 15	.....	• Equipped for both candles and oil.
Q	Motorcycles, with side cars.....	1	.....
Q	Paulins.....	• 12	.....	• For protection of property in open storage.
Q	Pistols.....	(a)	.....	• 1 per officer and noncommissioned officer.
Q	Rakes.....	15	.....
Q	Tents, pyramidal, large.....	3	.....
Q	Tents, storage.....	3	.....
Q	Trucks, motor, 1½-ton.....	• 2	.....	• To be supplied in such additional numbers and at such times as required.
Q	Wheelbarrows.....	15	.....

SECTION XXV.—SALES COMMISSARY UNIT.

Q	Bags, water, sterilizing, and cover.....	1	.....
Q	Containers, mineral oil.....	1	.....
Q	Chests, commissary, with contents.....	1	.....	See Note 1, Table III.
Q	Outfits, stencil.....	1	.....
Q	Rakes, steel.....	1	1	
Q	Pistols, automatic.....	(a)	.....	• 1 per officer and noncommissioned officer.
Q	Trucks, motor, 1½-ton.....	• 2	.....	• To be supplied according to requirements of service.

SECTION XXVI.—CLOTHING AND BATH UNIT.

Q	Disinfectors, steam, portable.....	2	.....
Q	Motorcycles, with side cars.....	1	.....
Q	Paulins.....	• 3	.....	• 2 for disinfectors, 1 for shower-bath outfits.
Q	Pannants.....	1	.....
Q	Pistols.....	(a)	.....	• 1 per officer and noncommissioned officer.
Q	Shower-bath outfits with water-heating apparatus.....	1	.....
Q	Tents, pyramidal, large.....	3	.....
Q	Tents, storage.....	3	.....
Q	Trucks, motor.....	(a)	.....	• Such amount and kind of transportation necessary as provided by commanding general.

SECTION XXVII.—SERVICE COMPANY, Q. M. C., INFANTRY DIVISION.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
Q	Chairs, folding.....	(e)	.....	e 4 for use at rail heads and forward distributing points.
Q	Desks, field, large.....	(e)	.....	e 2 for use at rail heads and forward distributing points.
Q	Horses, riding.....	(e)	.....	e 2 per company.
	Kitchen, rolling.....	(e)	.....	e 1 per company.
Q	Motorcycles, with side cars.....	(e)	1	e 4 per rolling kitchen and escort wagon.
	Mules, draft.....	(e)	.....	e 12 for protection of property in open storage.
Q	Paulina, large.....	(e)	.....	e 1 per officer and noncommissioned officer.
	Pistols, automatic.....	(e)	.....	e 2 per organization in order that messes can be operated at detached ration and forage dumps.
Q	Ranges, field, No. 1.....	(e)	.....	e 4 for use at rail heads and forward distributing points.
Q	Tables, folding, small.....	(e)	.....	e 1 per company.
Q	Wagon, escort.....	(e)	.....

SECTION XXVIII.—SERVICE BATTALION.

[Peace strength.]

Q	Axes, with halves.....	(e)	.....	e 1 per squad.
	Boots, rubber, hip.....	(e)	.....	Do.
Q	Brassards, M. P.....	(e)	17	
	Coats, fatigue.....	(e)	.....	e Additional, 1 per man.
Q	Coats, oilskin.....	(e)	.....	e 1 per squad.
	Gloves, heavy, leather.....	(e)	.....	e 1 pair per man.
Q	Hats, fatigue.....	(e)	.....	e Additional, 1 per man.
	Hats, oilskin.....	(e)	.....	e 1 per squad.
Q	Motorcycles, with side cars.....	(e)	.....	e 2 per company, 4 per headquarters, and 1 for attached medical personnel.
Q	Pistols.....	(e)	.....	e 1 per officer and noncommissioned officer.
Q	Pickaxes, with halves.....	(e)	.....	e 1 per squad.
	Saws, crosscut, 2-handled, complete.....	(e)	.....	e 1 per 2 squads.
Q	Shovels, short-handled.....	(e)	.....	e 2 per squad.
	Trailers, kitchen.....	(e)	.....	e 1 per company.
Q	Trailers, tank, water, 180 gallons.....	(e)	.....	Do.
	Trousers, fatigue.....	(e)	.....	e Additional, 1 per man.
Q	Trousers, oilskin.....	(e)	.....	e 1 per squad.
	Trucks, 1½-ton, cargo (B).....	(e)	.....	e 1 per company and headquarters.
Q	Trucks, 1-ton, cargo (AA).....	(e)	.....	e 1 per company and 1 for attached medical personnel.

Several items listed in the foregoing are shown in Equipment Tables I, II, or III; such articles are required in addition to allowances shown in such equipment tables.

SECTION XXIX.—GRAVES REGISTRATION UNIT.

Q	Cars, motor, 5-passenger.....	(e)	.....	e 1 per unit.
	Cases, map, waterproof.....	(e)	.....	e 1 for each officer and each quartermaster sergeant, senior grade.
E	Compasses, watch.....	(e)	.....	e 1 per enlisted man, except clerks.
	Diggers, post-hole.....	(e)	.....	e 4 per unit.
Q	Hammers, claw, medium.....	(e)	.....	e 1 per each corporal and private.
	Motorcycles, with side cars.....	(e)	.....	e 3 per unit.
Q	Outfits, sketching, engineer's.....	(e)	.....	e 2 per unit (see Note 1).
	Pistols.....	(e)	.....	e 1 per officer and enlisted man.
Q	Pliers, combination, 6-inch.....	(e)	.....	e 1 for each squad.
	Staples, ¼-inch, pounds.....	(e)	.....	e 10 per unit.
Q	Stretchers, wire.....	(e)	.....	e 4 per unit.
	Tables, sketching, with tripod.....	(e)	.....	e 2 per unit.
Q	Tapes, steel, 75-foot.....	(e)	.....	e 2 for each squad.
	Truck, motor, 1½-ton.....	(e)	.....	e 2 per unit.
Q	Wire, galvanized, feet.....	(e)	.....	e 2 per unit.
	Embossing machines.....	(e)	.....	e As approved by commanding officer.
Q	Machines, stencil-cutting.....	(e)	.....	e 1 per unit.
	Boards.....	(e)	.....	Do.
Q	Paste for stenciling boxes.....	(e)	.....	Do.
	Brushes, 1½-inch, 8H.....	(e)	.....	Do.

NOTE 1.

Branch.	Articles.	A War set.	B Additional for use at posts and camps.	Remarks and basis of issue.
E	Sketching outfit..... Alidade, boxwood..... 1 Boards, sketching, with waterproof covers..... 1 Chest, sketching outfit..... 1 Clinometer, service, with case..... 1 Compass, prismatic, with case..... 1 Pace tally..... 1 Strap, wrist..... 1 Tripod, wood, folding..... 1 Celluloid sheets, 12½ by 13½ inches..... 12 Erasers, rubber, pencil..... 4 Paper, sketching, gross..... ½ Pencils: Blue..... 4 Drawing, H..... 16 Green..... 4 Red..... 4 Protectors, pencil point..... 4 Tape, adhesive, rolls..... 3	(a)	.....	a 2 per unit.

400.34, A. G. O.

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
*General of the Armies,
 Chief of Staff.*

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR }
No. 2. }

WAR DEPARTMENT,
WASHINGTON, *January 6, 1922.*

ALLOWANCES OF MOTOR VEHICLES.

The following instructions and tables governing the allowances of motor equipment are published for the information and guidance of all concerned:

1. The total number of motor vehicles to be retained by the Army is shown in Table A.

2. After having supplied the needs of the National Guard and the United States Veterans' Bureau, all vehicles not listed in Table A will be declared surplus and disposed of in accordance with law and regulations, except such as are covered by particular instructions.

3. Tables B, C, D, E, F, G, H, I, K, L, M, and N show the authorized allowance of motor vehicles for all tactical active organizations and the Reserve Officers' Training Corps. It is based upon the present peace Tables of Organization and upon a total strength of 150,000 men.

4. That required for all posts and stations of the Army, including foreign possessions, is shown in Table I. From this number the Quartermaster General will allot motor vehicles to departments, corps areas, and independent posts and stations.

5. No motor equipment will be held or provided for inactive organizations.

6. The limited appropriation for motor fuel necessitates careful use of all authorized motor vehicles and it is contemplated that only sufficient motor vehicles will be used to meet actual requirements. Tactical organizations will then have more vehicles than they can continually operate and it is directed that advantage be taken of this condition to operate all motor vehicles part of the time and not certain vehicles all of the time.

Under these circumstances there will be no excuse for not keeping motor vehicles in excellent condition at all times.

7. It will be noted from Table A that certain makes of machines only are recommended to be kept. The best vehicles, mechanically, of these various makes, necessary to meet the authorized allowances, should be retained.

8. These tables will govern in the submission and filling of requisitions for motor vehicles.

When vehicles can not be supplied to meet these requirements, on account of lack of funds for transportation, requisitions will be filed, and filled as funds for transportation become available.

TABLE A.

Motor Equipment to be Retained by the Army.

Name of vehicle.	Number to be retained.	Name of vehicle.	Number to be retained.
Cadillac, 7-passenger touring	492	Trucks, small arms repair	250
Cadillac, 7-passenger limousines	66	Trucks, air compressor	31
Dodge, 5-passenger touring	2,199	Trucks, shop equipment	62
Dodge, 5-passenger sedans	240	Trucks, office	31
Cars, staff observation	341	Trucks, power saw	31
Cars, reconnaissance	403	Trucks, spare parts	185
Busses, White	60	Trucks, tool room	31
Busses, G. M. C.	18	Trucks, special mobile reproduction plant	15
Busses, Dodge	5	Trucks, special machine shop	1
Patrol bus, Dodge	29	Trucks, wrecking	47
M. G. cars, White	133	Trucks, wrecking, Mack, 5½-ton	4
Ambulances, G. M. C.	2,167	Trucks, radio, Army	25
Motorcycles, Harley-Davidson, w. s. c.	4,170	Trucks, spare parts, Q. M. C.	15
Motorcycles, Harley-Davidson, solo	644	Trucks, wire, White, 1½-ton	1
Motorcycles, Harley-Davidson, Indian, w. s. c.	1,000		
Motorcycles, with pigeon trailers	4	Total motor vehicles to be retained.	35,081
Tanks, 6-ton	950		
Tanks, 10-ton	100	TRAILERS.	
Tractors, 24-ton	117	Water tank, 180 gallons	253
Tractors, 5-ton	3,741	Water tank, 300 gallons	196
Tractors, 10-ton	1,408	1½-ton, 4-wheel cargo	440
Tractors, radio, telegraph, and telephone	15	4-wheel, 3-inch field gun, 3-ton	118
Printing units on Mack 5-ton chassis	15	4-wheel, 4-ton cargo	609
Shop units on Mack 5-ton chassis	1	4-wheel, 4-ton chart room	24
Tanks, gas units on Mack 5-ton chassis	3	4-wheel, 4-ton photographic	49
Mack 5-ton chassis for Spec. Eng. vehicle	68	4-wheel, 4-ton parts and stock room	64
Water supply unit on Mack 5-ton chassis	10	4-wheel, 4-ton parts and stock room, with bins	96
Trucks, light repair, ½-ton Dodge	321	4-wheel, 5-ton tire press	113
Trucks, light delivery, ½-ton Dodge	819	1-ton spare parts	15
Trucks, light delivery, ½-ton G. M. C.	1,303	4-wheel heavy M. O. R. S	32
Trucks, cargo, 1½-ton	2,943	10-ton	222
Trucks, 1½-ton Air Service radio	58	Gas tank, 300 gallons	11
Trucks, 3-ton cargo, Standard B.	3,892	Kitchen	500
Trucks, tank, 180-gallon, gas and water	253	Shop equipment	32
Trucks, tank, 750-gallon	399	Bar stock and hack saw	32
Trucks, F. W. D. 3-ton cargo	2,239	Drill press	32
Trucks, F. W. D. 3-ton balloon winch	50	Generator	32
Trucks, F. W. D. 3-ton balloon tender	4	Lathe	32
Trucks, F. W. D. 3-ton, with power take-off	192	Milling machine	32
Trucks, 3-ton, radio repair	53	Welding and forge	32
Trucks, 3-ton, field lighting	51	Storage battery	1
Trucks, 3-ton, photographic	25	Special A. A. M. G.	49
Trucks, Mack, 5½-ton cargo	157	Chassis	13
Trucks, Mack, 5½-ton dump	202	Tool and accessory	191
Trucks, Mack, 5½-ton searchlight	66	Pigeon	154
Trucks, searchlight, Cadillac chassis	78	Supply H. M. O. R. S.	32
Trucks, Artillery repair	1,235	1½-ton radio	1
Trucks, Artillery supply	1,046		
Trucks, machine shop, Q. M. C. Standard B.	122	Total trailers to be retained	3,407
Trucks, Mack sprinkler	57		
Trucks, fire	372	Total motor vehicles and trailers to be retained	38,488
Trucks, divisional radio	22		

TABLE B.
Authorized Motor Equipment for Infantry.

Unit.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
10 brigade headquarters and headquarters company.....		10	10	10		10																								
34 infantry regiments.....		34	170	68		34															34									
9 training regiments.....		9	45	18		9															9									
29th Infantry (motorized).....		2	58	8		31															44	18								
Infantry school 1.....		1	21	33	50	75	25			3	8	5	38	2							34									
65th Infantry (Puerto Rico).....		1	13			28				2	1			1							15									
Tank school 1.....		1	2	4		2	4	6	2	2	1			1							1									
Headquarters, tank group.....		1	2	9		1		1		1				1							1									
1 heavy battalion headquarters tank.....		2	7	2		6				1				1							1									
2 light battalion headquarters tanks.....		4	10	2		6				2				2							2									
Special tank battalion, Infantry School 1.....		1	3	1		14		2	2	2				2							2									
4 heavy companies, Tank Corps.....		4	12	4		24			1	1				1							4									
8 light companies, Tank Corps.....		8	16	8		48		20		8				8	192						8									
6 light companies, tank, divisional, and depot.....		6	12	6		36		150	6	6				6	144						6									
1 maintenance company, Tank Corps.....		1	6	1		9		4		4				9	72						4									
Tank platoon training center.....		2	107	425	193	197	173	368	16	16	29	8	5	38	3	31	433	6	73	61	121	58	24	1	2	2	6	25	10	1
Total.....		2	107	425	193	197	173	368	16	16	29	8	5	38	3	31	433	6	73	61	121	58	24	1	2	2	6	25	10	1

1 To be furnished from equipment assigned to post, camp, or station when available.

TABLE C.

Authorized Motor Equipment for Cavalry.

Unit.	Cadillac 7-passenger touring.	Dodge 5-passenger touring.	Harley- Davidson motorcycle, w. s. c.	Trucks 1½-ton cargo.	Trucks, radio divisional.
1 Cavalry Division Headquarters and Headquarters Troop.....	1	5	10		
2 Cavalry Brigade Headquarters and Headquarters Troop.....		2	6	2	2
14 Regiment Headquarters and Headquarters Troop.....		14	56		
28 Squadron Headquarters and Detachment.....			28		
2 M. G. Squadron Headquarters and Detachment.....			2		
Cavalry School.....					1
Total.....	1	21	102	2	3

¹ To be furnished from equipment assigned to post, camp, or station when available.

TABLE D.

Authorized Motor Equipment for the Gas Regiment, Chemical Warfare Service.

Unit.	Dodge, 5-passenger touring.	Cars, reconnais- sance.	Harley- Davidson motorcycle, w. s. c.	G. M. C. 1-ton, L. D.	Trucks, 3-ton cargo, Standard B.
Gas Regiment, Chemical War- fare Service.....	2	1	18	1	16

TABLE E.
Authorized Motor Equipment for Field Artillery.

Unit.	Dodge, 5-passenger touring.	Cars, reconnaissance.	Harley-Davidson motorcycles with side cars.	Tractors, 5-ton.	Tractors, 10-ton.	Trailers, 3-inch field gun.	Trailers, 4-ton.	Trailers, kitchen.	Trailers, water, 180-gallon.	Trailers, personnel.	Trucks, cargo, L. D.	Trucks, F. W. D. artillery supply.	Trucks, F. W. D. cargo.	Trucks, light repair.	Trailers, machine gun A. A.	Trucks, artillery repair.	Tractors, 2-ton.
<i>United States.</i>																	
3 brigade headquarters batteries (75-mm.)	3	6	6					3				3	51	3			
3 ammunition trains	3	12	12								5	1	16	10			
5 regiment 75-mm. horse-drawn	5	30	30							9							
1 regiment 75-mm. motorized	14	12	48	103		32		10	10		2	3					
1 corps artillery brigade headquarters battery	3	2	4								1	1	39	1			
1 corps artillery brigade ammunition train	1	5	5					1	1		13	7	76	11	6		
1 regiment 155 mm. howitzer	10	15	78	88				11	11								
1 regiment heavy field artillery																	
1 regimental headquarters battery and 1 service battery	4	3	15		1	1		2	2		3	1	25	2			
1 battalion 155 mm. G. P. F.	4	4	21		13	2		3	3		4	4	27	3			
1 battalion 8-inch howitzers	4	4	21		13	2		3	3		4	4	27	3			
1 battalion 240-mm. howitzers	4	4	21		45	3		3	3		4	4	31	3			
1 observation (dash) battery	1	1	3				18	1	1		1		5				
1 battalion 75-mm. horse artillery																	
1 battalion 75-mm. motorized (Camp Benning)	5	5	18	50		16		4	4		4						
1 school regiment (estimated)	14	13	60	81	22	16	9	10	10	4	8	5	51	10	2		8
Field artillery schools 7	17	21	56	45	15	5						5	60	13		14	
<i>Panama Garrison (in United States).</i>																	
1 regiment pack artillery (less 1 battalion)	1	1	6								1						
1 regiment 75-mm. horse drawn																	
<i>Panama.</i>																	
1 brigade headquarters battery	1	2	2														
1 ammunition train	1	4	4					1				1	17	1			
1 battalion pack artillery																	
<i>Philippines.</i>																	
1 brigade (1 brigade headquarters, 1 ammunition train, 1 pack and 1 horse drawn)	3	3	13					1			1	1	17	1			
<i>Hawaii.</i>																	
1 brigade 75-mm. motorized (special for Hawaiian Department)	32	26	136	118				21	21		28	15	105	21			
1 regiment 155-mm. howitzers	16	15	78	88				11	11		15	7	76	11	6		
Total	152	142	639	573	109	73	27	85	80	17	92	59	626	97	14	14	8

¹ Dodge trucks will be issued as long as the present supply is available.

² To be furnished from equipment assigned to post, camp, or station when available.

TABLE F.
Authorized Motor Equipment for Ordnance Department.

Unit.	Trailers, kitchen.	Trucks, 3-ton cargo F. W. D. chassis.	Trucks, tank, 750-gallon F. W. D. chassis.	I. D. 4-ton cargo ¹	Harley-Davidson motorcycles w. s. c.	Trucks, light repair ¹	Trucks, Artillery, repair.	Trucks, Artillery, supply.	Trucks, small-arms repair.	Trucks, air-compressor.	Trucks, shop-equipment.	Trucks, office.	Trucks, power-saw.	Trucks, spare-parts.	Trucks, tool-room.	Truckers, shop-equipment, mont.	Truckers, back-saw and Trainers, crane.	Trainers, drill-press.	Trainers, lathe.	Trainers, milling-machine.	Trainers, parts and stock room.	Trainers, parts and stock room with bins.	Trainers, welding and forge.
16 Ordnance companies (maintenance).....	16	32	16	32	64	32	48	96	32														
1 Ordnance company (Cavalry maintenance).....	1	12	1	4	12	2	2	2	2														
3 Ordnance companies (heavy maintenance).....	3	18	3	9	18	6	27	60	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6 Ordnance companies (ammunition).....	6	24	6	12	24	12	24	60	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3
9 Ordnance companies (depot).....	9	36	9	18	36	18	36	60	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1 Ordnance company (maintenance) for Camp Knox.....	1	2	1	2	4	2	2	6	2														
1 training center detachments.....						9	9	0	0														
21 Coast defense detachments.....						21	21																
Total.....	36	114	21	77	145	51	109	162	51	3	3	3	3	3	3	3	3	3	3	3	3	3	3

¹Dodge to be issued while available.

TABLE G.
Authorized Motor Equipment for Coast Artillery.

Unit.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Dodge 5-passenger touring.	1																									
Cadillac 7-passenger touring.	12																									
Cars, staff observation.																										
Cars, reconnaissance.																										
Harley-Davidson motor cycles, w. s. c.	5																									
Tractors, 2½-ton.																										
Tractors, 5-ton.																										
Tractors, 10-ton.																										
Trailers, A. A. machine gun.	1																									
Trailers, kitchen.																										
Trailers, radio, 1½-ton.																										
Trailers, tool and accessory, 4-ton. ¹																										
Trailers, water, 300-gallon.																										
Trailers, water, 180-gallon.	1																									
Trucks, Standard "B."																										
Trucks, FWD Artillery repair.																										
Trucks, FWD Artillery supply.																										
Trucks, FWD cargo, type "A" body.	15																									
Trucks, cargo, ½-ton.	1																									
Trucks, light repair. ²	12																									
Trucks, radio, divisional.	6																									
Trucks, searchlight sets.	36																									
Trucks, tank, 750-gallon.	3																									
Total.....	91	1	43	13	692	69	6	427	24	04	6	2	24	91	43	11	2	88	1,246	183	85	7	57	25		

¹ To be furnished from equipment assigned to post, camp, or station when available.

² For 240-mm. howitzers.

³ Dodge to be issued while available.

TABLE H.
Motor Equipment Authorized for the Corps of Engineers.

Unit.	Dodge touring 5-passenger.	Harley-Davidson motor cycles, w. s. c.	Trucks, G. M. C. 1-ton, cargo, L. D.	Trucks, cargo, 1 1/2-ton.	Trucks, cargo, 3-ton.	Trucks, special mobile reproduction plant.	Trucks, special machine shop.	Trailers, kitchen.	Trailers, water, 180-gal. lon.	Mack 5 1/2-ton search-light truck.	Cadillac search-light truck.	Printing shops on Mack 5-ton chassis.	Shop units on Mack 5-ton chassis.	Tanks, gas units on Mack 5-ton chassis.	Water supply unit on Mack 5-ton chassis.	
6 divisional combat regiments.	12	102	36	108												
1 company combat.		2		1												
1 general service regiment.	2	19	6	18			1	7								
1 mounted combat battalion.	1	8														
1 company mounted.		2														
1 bridge train (light).		2														
9 training companies.		9														
1 topographical battalion.	2	7	14	1		18		2	2							
1 Engineer school detachment.	5		4													
Motor vehicles, Class II under control of Engineer Corps.										115	78	15	1	3	10	
Total	22	151	60	109	19	18	1	9	9	115	78	15	1	3	10	

1 To be furnished from equipment assigned to post, camp, or station when available.

TABLE I.
Motor Equipment Authorized for Quartermaster Corps.

Unit.	Dodge 5-passenger touring.	Cadillac 7-passenger touring or 11-passenger touring.	Harley Davidson motor cycles, w. s. c.	Motor cycles, solo.	Trucks, 1-ton cargo.	Trucks, 1-ton cargo, 1 cargo.	Trucks, 1 1/2-ton cargo.	Trucks, 3-ton standard B.	Trucks, tank 750-gal.	Trucks, 3 to 5 ton wrecking.	Trucks, M. T. machine shop.	Trailers, kitchen.	Trailers, ton cargo.	Trailers, ton stock room.	Trailers, ton tire press.	Trailers, ton artillery.
22 motor transport companies	32		32	23	64	864			64			32				
22 motor repair sections	23		23	23	23		23		23	23	23			23		23
3 motor repair battalions (less 2 companies)	9		24	18	27		24		24	21						12
2 motor repair companies (detached)	3		8	8	9		8		8	8						4
6 motor cycle companies	4		8	8	8		8		8	8						4
6 motor transport commands (train head quarters)	84	12	182		12											
Camps, posts, stations, and establishments.	6		6	6												
American Forces in Germany	948	174	1,322	810			684	1,710					414			
American Graves Registration Service	11	48	160	88			11	120					11			
Military attachés	30	64	94	113			53									
Service schools	103	(1)	163	58			127	470					26			
Total	1,268	333	1,946	55	1,220	864	885	2,445	127	47	23	32	471	23	23	43

1 1/2 motor transport companies on duty with divisions are equipped with 1 1/2-ton cargo trucks. Two motor transport companies on duty with Hawaiian Division are equipped with 2 1/2-ton cargo trucks. Other motor transport companies may be equipped with 1 or 3 ton cargo trucks.

To be furnished from motor equipment assigned to posts, camps, or stations when available.

The commandant of each service school will be furnished a Cadillac 7-passenger touring car.

TABLE K.
Motor Equipment Authorized for Signal Corps.

Unit.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Cadillac 7-passenger.																		
Dodge 5-passenger.																		
Motor-cycles with side-car.																		
Motor-cycles with pigeon trawlers.																		
3 divisional signal companies.		3	27		15	27		3	3	3								
1 cavalry division signal troop.		1	7		3	8		1	1	1								
1 corps signal battalion.		4	23		17	23	7	2	2	2				1				
Camp Vail radio laboratory and school.																		
9 corps area headquarters.	1	2	13	4	3						1	2	2	1		1		
Pigeon service.																		
1 Philippine division signal company.			34		2													
1 Philippine service company.		1	9		5	9		1	1	1								
1 Hawaiian division signal company.		1	4		1	1												
1 Hawaiian service company.		1	9		5	9		1	1	1								
1 Panama division signal company.		1	4		1	1												
1 Panama service company.		1	4		5	9		1	1	1								
Total.	1	16	143	4	58	83	7	9	9	9	1	11	18	2	8			

TABLE L.
Authorized Motor Equipment for the Air Service.

Unit.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Dodge 5-passenger.	119	318	57	229	63	20	30	62	132	46	548	50	97	113	63	53	51	25	14	13	19	25
Harley-Davidson motor-cycles, W. S. C.			Trailers, 300-gallon.	Trailers, 1-ton cargo.	Trailers, 1-ton kitchen.	Trailers, 3-ton chart room.	Trailers, photographic.	Trucks, 1-ton, L. D.	Trucks, 1-ton, 190-gallon, gas tank.	Trucks, 1-ton, 180-gallon, water tank.	Trucks, 1-ton, cargo.	Trucks, 1-ton, A. S. radio.	Trucks, 3-ton, cargo.	Trucks, 2-ton, machine shop.	Trucks, 3-ton, radio repair.	Trucks, 3-ton, field lighting.	Trucks, 3-ton, photographic.	Trucks, 3-ton, balloon tender.	Trucks, 2-ton, balloon winch.	Tractors, 5-ton.		
Cadillac touring.			Trailers, 300-gallon tank.	Trailers, 1-ton cargo.	Trailers, 1-ton kitchen.	Trailers, 3-ton chart room.	Trailers, photographic.	Trucks, 1-ton, L. D.	Trucks, 1-ton, 190-gallon, gas tank.	Trucks, 1-ton, 180-gallon, water tank.	Trucks, 1-ton, cargo.	Trucks, 1-ton, A. S. radio.	Trucks, 3-ton, cargo.	Trucks, 2-ton, machine shop.	Trucks, 3-ton, radio repair.	Trucks, 3-ton, field lighting.	Trucks, 3-ton, photographic.	Trucks, 3-ton, balloon tender.	Trucks, 2-ton, balloon winch.	Tractors, 5-ton.		

TABLE M.
Motor Equipment Authorized for the Medical Department.

Unit.	Ambulances, motor G. M. C.	Cars, Dodge, 5-passenger.	Motor-cycles, w. s. c.	Trucks, 1-ton cargo.	Trucks, 1 1/2-ton to 2-ton cargo.	Trucks, 3 to 5 ton cargo.	Trailers, tank, 180 gallons.	Trailers, kitchen.	Trailers, spare parts (M.D.).	Remarks.
6 infantry divisions attached.			48	18						To be furnished from equipment assigned to post, camp, or station when available.
6 medical regiments.	60	18	30	12	180		18	18	6	
1 cavalry division attached.			9							
1 ambulance company (A. D.).			1							
1 veterinary company.			21							
21 infantry regiments.			4				1			
1 infantry regiment (war strength).			10							
10 cavalry regiments.	20	2	6	9	20		3	3	1	
Medical Field Service School 1.										
Artillery regiments:										
2 155-mm. howitzer regiments (motor).	6	2	6	8						
1 75-mm. regiment (horse drawn).			1							
1 75-mm. regiment (motor).	2	1	3	3						
Additional motor ambulances authorized for posts:										
First Corps Area.	13									
Second Corps Area.	44									
Third Corps Area.	47									
Fourth Corps Area.	24									
Fifth Corps Area.	18									
Sixth Corps Area.	13									
Seventh Corps Area.	16									
Eighth Corps Area.	62									
Ninth Corps Area.	34									
District of Washington.	3									
Philippine Department.	26									
Hawaiian Department.	18									
Panama Canal Department.	9									
Germany.	59									
Total	474	23	140	50	200		22	21	7	

1 To be furnished from motor equipment assigned to posts, camps, or stations when available.

TABLE N.
Motor equipment authorized for the Reserve Officers' Training Corps.

Unit.	Cadillac 7-passenger touring	Dodge 2-passenger car.	Trucks, 4-ton cargo, G.M.C.	Trucks, 3-ton cargo, stand "B."	Trucks, F.W.D. cargo.	Trucks, Mack cargo, 3 tons.	Trucks, Ricker cargo, 3 tons.	Motorcycles, Harley-Davidson, w.s.c.	Motorcycles, Harley-Davidson, solo.	Trucks, Artillery repair.	Trucks, Artillery supply.	Cars, reconnaissance.	Trailers, A. A. machine gun.	Trucks, tank, 750 gallons.	Chassis, car or truck.	
Total for Reserve Officers' Training Corps.....	16	12	40	7	59	40	8	51	8	18	17	24	3	1	1	8

[451, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

OFFICIAL:
J. T. KERR,
Adjutant General.

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

(Cir. 7)

Circular
No. 7.

WAR DEPARTMENT,
Washington, January 16, 1922.

CLOTHING MONEY ALLOWANCE FOR ENLISTED MEN.

Paragraph 8, Circular No. 224, War Department, 1921, as amended by Circular No. 296, War Department, 1921, is further amended by adding to that paragraph the following sentences:

At stations where the cotton uniform is not worn, commanding officers are authorized to issue in lieu thereof additional woolen coats and breeches of a total value not exceeding that of the cotton uniform prescribed in Table I, Circular No. 224, War Department, 1921, provided, however, that no saving on the initial allowance shall accrue as a result of this provision.

(246.8, A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies.
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

CIRCULAR }
No. 16. }

✓
See War Cir 35-1922
See War Cir 46-1922

WAR DEPARTMENT,
WASHINGTON, *January 19, 1922.*

DISPENSARY FLIGHT SURGEON'S EQUIPMENT—AMENDMENT TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921.

Note 23½, page 51, Circular No. 169, War Department, 1921 (Tables of basic allowances), is amended to read as follows:

Note 23½.—Dispensary flight surgeon's equipment.

No. 1 chest (weight, 35 pounds; volume, 1.2 cubic feet).

- | | |
|--|--|
| <ul style="list-style-type: none"> 2 tubes, homatropine hydrobromide, U. S. P., 0.260-mgm., ophthalmic disks. 2 tubes, physostigmine salicylate, U. S. P., 0.0325-mgm., ophthalmic disks. *1 tape measure, linen, 2 meters long (Q). 1 bag, Politzer. 1 case, ear, nose, and throat (par. 912, M. M. D.). 1 complete diagnostic set, DeZeng, consisting of— <ul style="list-style-type: none"> 1 DeZeng's improved model of Marple electric ophthalmoscope head. 1 DeZeng's ideal electric retinoscope top. 1 DeZeng's electric otoscope top. 1 DeZeng's laryngoscope and transilluminator. | <ul style="list-style-type: none"> 1 complete diagnostic set—Continued. 1 Wood's electric tongue depressor. 1 Pratt's laryngeal speculum. 1 Jumbo handle battery, with two lamps for each instrument. 2 extra dry cell batteries, 5½ inches long by 1¾ inches in diameter. 1 sphygmomanometer, Fraught, aneroid. 1 tuning fork, 6¾-inch, with clamps. 1 vision-test set (par. 959, M. M. D.). 1 speculum, nasal, septal, Goldstein. 1 catheter, eustachian, hard rubber. 1 mirror, head, diameter, 3½ inches with ½-inch opening. |
|--|--|

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR :

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL :

P. C. HARRIS,
The Adjutant General.

85706°—22

CIRCULAR }
No. 19. }

WAR DEPARTMENT,
WASHINGTON, January 25, 1922.

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR CHEMICAL WARFARE SERVICE TROOPS—TABLE IV-N—SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921.

The following tables with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribe the allowances of individual and organizational equipment for a Chemical Warfare Service regiment.

The term "company" is used to include all company organizations. When the allowance does not apply to all such organizations, the specific designation is noted. The four companies in each of the two battalions of the regiment are designated as "lettered companies" in these tables.

All items in the following tables are to be equipment of approved types, issued complete and including spare parts, tools, and accessories as prescribed in current specifications for each item, except where specific lists of spare parts, tools, or accessories are indicated by note reference in the column headed "Remarks."

TABLE IV-N.

- SECTION I. Chemical Warfare Service (C).
II. Corps of Engineers (E).
III. Ordnance (O).
IV. Quartermaster Corps (Q).
V. Signal Corps (S).

SECTION I.—CHEMICAL WARFARE SERVICE (C).

Symbol.	Equipment.	A War set for field and gar- rison service.	B Addi- tional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
C....	Accessories for firing Livens pro- jectors, sets.	(a)	.....	a 1 per lettered company. For compo- nents, see Note 3.
C....	Ammunition.....	(a)	.....	a See Note 1.
C....	Carts for 4-inch Stokes mortar....	(a)	.....	a 4 per lettered company.
C....	Cylinders, portable, toxic gas....	(a)	.....	a 50 per lettered company.
C....	Mechanism, firing, for toxic gas cylinders, extra.	(a)	.....	Do.
C....	Mortars, Stokes, 4-inch.....	(a)	.....	a 4 per lettered company. For compo- nents of complete mortar, see Note 2.
C....	Projectors, Livens.....	(a)	.....	a 50 per lettered company.
C....	Pullers, projector.....	(a)	.....	a 4 per lettered company.

SECTION II.—CORPS OF ENGINEERS (E).

	Equipment.	A War set for field and gar- rison service.	B Addi- tional for use at posts and camps or stations of a rela- tively per- manent nature.	Remarks.
E.....	Compass, prismatic, luminous dial with case.	(a)	.....	a 1 per lettered company.
E.....	Demolition equipment, field.....	(a)	.....	a 1 per headquarters and service company. For components, see Note 6, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Drafting equipment, company..	(a)	.....	a 1 per battalion and detached lettered company. For components, see Note 7, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Regimental.....	(a)	.....	a 1 per headquarters and service company. For components, see Note 8, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Glasses, reading, 3-inch, with handle.	(a)	.....	a 1 per lettered company; 1 per headquarters and service company; 1 per battalion.
E.....	Photographic equipment, regimental.	(a)	.....	a 1 per headquarters and service company. For components, see Note 21, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Pioneer equipment, field.....	(a)	.....	a 1 per battalion; 1 per detached lettered company. For components, see Note 26, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Pipe-fitting tools.....	(a)	.....	a 1 per headquarters and service company; 1 per detached battalion; 1 per detached lettered company. For components, see Note 27, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Sketching outfit.....	(a)	.....	a 1 per lettered company. For components see Note 23, Table IV-D, Cir. No. 295, W. D., 1921.
E.....	Water colors, half pans, set of 12 in box.	(a)	.....	a 1 per headquarters and service company; 1 per battalion; 1 per detached lettered company.

SECTION III.—ORDNANCE (O).

O.....	Ammunition.....	(a)	.....	a See Note 1.
O.....	Compasses, lensatic with cases..	(a)	.....	a 2 per lettered company.
O.....	Devices for firing blank ammunition with auto rifle.	(a)	.....	a 1 per automatic rifle.
O.....	Graphs, trajectory.....	(a)	.....	a 50 per lettered company.
O.....	Instruments, angle of site with cases.	(a)	.....	a 1 per lettered company.
O.....	Pistols, automatic, caliber .45...	(a)	.....	a 1 per officer, warrant officer, noncommissioned officer above grade of corporal, bugler, cook, motorcycleist, chauffeur, and topographer.
O.....	Pistols, Very, with carrier.....	(a)	.....	a 3 per company (enlisted men carrying the Very pistol will be issued the rifle belt in place of the pistol belt).
O.....	Protractors, alidade.....	(a)	.....	a 2 per lettered company.
O.....	Range finders, 90 cm. base, in yards.	(a)	.....	a 1 per detached lettered company; 1 per battalion.
O.....	Recorders, time interval.....	(a)	.....	a 2 per lettered company.
O.....	Rifles, automatic, caliber .30.....	(a)	.....	Do.
O.....	Rifles caliber .30.....	(a)	.....	a 1 per enlisted man not armed with the pistol except automatic riflemen and bandmen.

SECTION IV.—QUARTERMASTER CORPS (Q).

Symbol.	Equipment.	A War set for field and gar- rison service.	R Addi- tional for use at posts and camps or stations of a rela- tively perman- ent nature.	Remarks.
ANIMALS.				
Q.....	Horses, riding.....	(a)		a 1 per company officer in the service platoon of the headquarters and service company; 6 per headquarters platoon of the headquarters and service company; 1 per orderly for each two mounted officers.
Q.....	Mules, draft.....	(a)		a 4 per escort wagon; 2 per water cart; 4 per rolling kitchen; 2 per medical cart; 1 per Stokes mortar cart.
Q.....	Mules, riding.....	(a)		a 1 per wagon master and assistant wagon master; 1 per each of two corporals of transportation platoon headquarters and service company.
MISCELLANEOUS.				
Q.....	Blades, extra, for horse-clipping machine.....	(a)		a 2 upper; 12 lower per headquarters and service company; 2 upper, 12 lower per detached battalion.
Q.....	Buckets, water, canvas.....	(a)		a 1 per eight animals.
Q.....	Machine, horse, clipping.....	(a)		a 1 per headquarters and service company; 1 per detached battalion.
Q.....	Picks, railroad, handled.....	(a)		a 10 per battalion and 10 per detached lettered company. (Additional for Pioneer set.)
Q.....	Rope:			
	Halter tie, extra.....	(a)		a 1 per 8 animals.
	Picket line, 25 feet sections.....	(a)		a Issued rate of 2½ feet per animal.
Q.....	Shovels, D handled, round.....	(a)		a 25 per battalion and 25 per detached lettered company. (Additional for Pioneer set.)
Q.....	Sponges, large.....	(a)		a 1 per two animals.
Q.....	Tools:			
	Blacksmith's set, No. 1.....	(a)		a 1 per detached battalion. For components, see Note 15, Cir. No. 160, W. D., 1921.
VEHICLES.				
Q.....	Bicycles.....	(a)		a 4 per headquarters and service company; 2 per battalion headquarters and 2 per lettered company.
VEHICLES, A. D.				
Q.....	Carts, water.....	(a)		a 1 per company.
Q.....	Kitchen, rolling A. D.....	(a)		Do.
Q.....	Wagons:			
	Escort.....	(a)		a 16 per headquarters and service company.
	Medical, combat or carts, medical.....	(a)		a 1 per battalion medical detachment; 1 per regimental medical detachment.
VEHICLES, MOTOR.				
Q.....	Cars, motor:			
	Reconnaissance.....	(a)		a 1 per headquarters and service company (for regimental headquarters).
	5 passenger.....	(a)		a 1 per headquarters and service company (for regimental headquarters).
Q.....	Motoreycles, with side car.....	(a)		a 4 per headquarters and service company; 1 per lettered company; 2 per battalion headquarters.
Q.....	Trucks:			
	Cargo, 3-ton.....	(a)		a 12 per headquarters and service company.
	Light delivery, ½ ton.....	(a)		a 1 per headquarters and service company.

SECTION V.—SIGNAL CORPS (8).

Symbol.	Equipment.	A War set for field and gar- rison service.	B Addi- tional for use at posts and camps or stations of a rela- tively per- ma- nent nature.	Remarks.
S.....	Anemometer, hand, portable, Stanley, type ML-8.	(a)	.....	α 2 per battalion; 2 per headquarters and service company (meteorological set).
S.....	Baragraph, aneroid, recording, type ML-3.	(a)	.....	Do.
S.....	Barometer, aneroid, 5-inch type ML-10.	(a)	.....	Do.
S.....	Batteries, type BA-11.....	(a)	.....	α 8 per signal lamp EE-6; 16 per signal lamp EE-7.
S.....	Charts:			
	For baragraph, aneroid re- cording type ML-3.	(a)	.....	α 50 per battalion; 50 per headquarters, and service company (meteorological set).
	For barometer, aneroid re- cording type ML-10.	(a)	.....	Do.
	For sunshine recording type ML-20.	(a)	.....	Do.
	For thermograph type ML- 18.	(a)	.....	Do.
S.....	Psychrometer, sling, Weather Bureau, type ML-24.	(a)	.....	α 6 per battalion; 6 per headquarters and service company (meteorological set).
S.....	Signal lamps, sets:			
	Type EE-6.....	(a)	.....	α 2 per battalion; 2 per company.
	Type EE-7.....	(a)	.....	α 2 per battalion; 2 per headquarters and service company.
S.....	Sunshine recorder, type ML-20..	(a)	.....	α 2 per battalion; 2 per headquarters and service company (meteorological set).
S.....	Thermograph, type ML-18.....	(a)	.....	Do.
S.....	Thermometers, general service:			
	Type ML-6.....	(a)	.....	α 6 per battalion; 6 per headquarters and service company (meteorological set).
	Type ML-7.....	(a)	.....	Do.
S.....	Thermometers:			
	Maximum, type ML-4.....	(a)	.....	Do.
	Minimum, type ML-5.....	(a)	.....	Do.
S.....	Wind vane, type ML-15.....	(a)	.....	α 2 per lettered company; 4 per battalion; 4 per headquarters and service company (meteorological set).

NOTE 1.—Service and special ammunition for units of gas regiment, Chemical Warfare Service, including table of all materiel in dumps.

Sym- bol.	Ammunition.	How carried.			Dumps.		
		On per- son or Sto- ves cart.	Combat train.	Field train.	De- tached com- pany.	De- tached battal- ion.	Regi- men- tal.
C.....	Candles, smoke, nontoxic: Per lettered company in battalion.....		800				
	Per lettered company, additional when detached.....				800		
	Per detached battalion.....					3,200	
	Per regiment.....						6,400
C.....	Candles, smoke, toxic: Per detached lettered company.....			300			
	Per detached lettered company, addi- tional.....				100		
	Per detached battalion.....			500			
	Per detached battalion, additional.....					400	
	Per headquarters and service company, for lettered companies.....			1,200			
	Per regiment.....						800
C.....	Cylinders, portable, toxic gas, with firing mech- anism, filled: Per detached lettered company.....				50		
	Per detached battalion.....					200	
	Per headquarters and service company, for lettered companies.....			400			
C.....	Shell, 8-inch Livens projector, complete, with all accessories: Per detached lettered company.....				200		
	Per detached battalion.....					800	
	Per regiment.....						1,600
C.....	Shell, 4-inch Stokes mortar, complete, with all accessories: Per lettered company.....	32	48				
	Per lettered company when detached, additional.....				192		
	Per battalion.....			84			
	Per battalion when detached, additional.....					768	
	Per regiment.....						1,536
O.....	Cartridge, ball, caliber .30: Per lettered company, for automatic rifles.....	880	1,000				
	Per lettered company, for rifles; 60 rounds per rifle, carried on the person in all other organizations armed with the rifle.....	6,000	3,000				
O.....	Cartridge, ball, caliber .45: Per lettered company (21 rounds per pistol, carried on the person in all other organizations armed with the pistol).....	210	210				
	Cartridge, signal, for Very pistol: Per lettered company.....		45				
O.....	Grenades, hand and rifle, complete, with all accessories: Per lettered company.....		1,000				
	Per lettered company, additional when detached.....				1,000		
	Per battalion, when detached.....					4,000	
	Per regiment, carried on regimental head- quarters truck for issue.....			2,800			
	Per regiment, additional.....						8,000
	MATÉRIEL.						
C.....	Accessories for firing Livens projector sets.....				1	4	8
	Cylinders, portable, toxic gas, with firing mechanism, extra, empty.....				50	200	400
	Projectors, 8-inch, Livens—2 feet 6 inches.....				50	200	400
	Pullers, projector.....				4	16	32

NOTE 2.—Stokes mortar 4-inch, complete (C).

Barrel, mortar, 4 inch.....	1
Bipod, for 4-inch Stokes mortar.....	1
Covers:	
Barrel.....	1
Bipod.....	1
Handle, traversing with screw, chain, and cotter pin.....	1
Piece, breech with flat anvil.....	1
Base plate.....	1
Subbase plate.....	1
Sand bags.....	10
Brush, wire, scratch.....	1
Holder, waste, cleaning.....	1
Rod, cleaning.....	1
Tool box, wood.....	1
Containing:	
Anvil, flat, spare.....	1
Can, oil, one-half pint.....	1
Cotton, waste..... pounds.....	½
Clinometer, 4 inch, Stokes.....	1
Handle, traversing, with screw and cotter pin.....	1
Paper, emery, quire.....	1
Wrenches:	
Combination.....	1
Monkey, 12-inch.....	1
Spanner.....	1

NOTE 3.—Accessories for firing Livens projectors, in sets (C).

Boxes, resistance.....	1
Clinometers, Livens.....	1
Galvanometer, complete.....	1
Exploders.....	4
Pieces, camouflage.....	4
Pins, camouflage.....	100
Sand bags.....	50
Spanners, D, E.....	4
Tape, marking, sets.....	4
Tape, insulating..... yards.....	250
Triangles, right.....	1
Wire, insulated, twisted, pair, 100-yard lengths.....	4
Recorders, time interval.....	2
Pliers, 4-inch, side cutting.....	4

NOTE.—1 Livens projector complete consists of: 1 barrel, projector, 8-inch diameter, 2 feet 9 inches length; 1 base plate; 1 cover muzzle.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

CIRCULAR }
No. 20. }

WAR DEPARTMENT,
WASHINGTON, January 26, 1922.

**ORDNANCE PRICE LIST—GROUP G MATÉRIEL: ARTILLERY REPAIR TRUCK,
MODEL 1918.**

The following regulations governing the sale of certain ordnance stores are published for the information and guidance of all concerned:

1. The following price list of ordnance stores will, unless otherwise ordered, govern in all cases of charges on pay rolls, sales, transfers, invoices, inventories, and all other official papers which require to have prices affixed, except in the following cases:

Sales to other branches of the War Department of articles manufactured by the Ordnance Department will be made at prices herein given, less 15 per cent.

Sales to persons receiving instruction at training camps of articles manufactured by the Ordnance Department will be made at prices herein given, less 5 per cent. (Prices listed herein are cost, including War Department overhead, and to comply with section 47d, National Defense Act, as amended by the act of Congress approved June 4, 1920 (Bul. No. 25, W. D., 1920), deduction of 5 per cent should be made.)

In subtracting the above percentages, the deduction will be made in one sum as a total per cent to complete the bill, but not from each item.

Articles purchased are indicated by placing a capital letter "P" before the item; all other articles are manufactured by the Ordnance Department.

2. The nomenclature and classification used in this price list are the same as that in the Ordnance Provision System, and will be used in making requisitions, transfers, and inventories of the items listed herein.

3. The following classes of articles are considered as expendable within the meaning of regulations governing property accounting, and as such will be dropped from the property records when issued in prescribed allowances, under proper authority for current use:

a. Articles which are "consumed" as distinguished from "worn" by proper use in the military service, such as oils, etc.

b. Articles, such as spare or repair parts and components, to be used to complete or repair other articles and thereby losing their identity.

4. When sale of ordnance stores is authorized, application for same should be made, in the case of officers or enlisted men, to the local ordnance officer, if he keeps the articles desired on hand for issue, but otherwise application should be made by them and others to the district arsenal supplying the department or corps area in which they are stationed; that is, Raritan Arsenal for the First, Second, and Third Corps Areas; Augusta Arsenal for the Fourth Corps Area; San Antonio Arsenal for the Eighth Corps Area; Rock Island Arsenal for the Fifth, Sixth, and Seventh Corps Areas; Benicia Arsenal for the Ninth Corps Area; the Hawaiian Ordnance Depot for the Hawaiian Department; the Philippine Ordnance Depot for the Philippine Department; and the Panama Ordnance Depot for the Panama Canal Department.

5. A remittance in payment for ordnance property should be by post-office money order, certified check, or draft made payable to the Chief of Ordnance or to the commanding officer of the proper arsenal or depot. If other methods of remitting funds

are employed, delay may result in shipment of the articles purchased. The commanding officer of any arsenal or depot is authorized to indorse such remittances made payable to the Chief of Ordnance.

6. The order will show the manner in which shipment is desired made, whether by parcel post, express, or freight, and will give the shipping address. If the method of shipment requires the prepayment of shipping charges, the additional amount required will be included in the remittance. Any overpayment will be promptly returned as soon as the sale is completed.

7. When a purchaser desires an article no longer standard, and not on hand and not manufactured in quantity, he is required to pay the cost of manufacture or purchase of the article irrespective of any price herein stated for it.

8. Authority for sales:

Sales to—

Officers of the Army.....	}	Paragraphs 1520, 1521, and 1526, Army Regulations, and the act of Congress approved March 3, 1909 (G. O. No. 49, W. D., 1909).
Officers of the Navy.....		
Officers of the Marine Corps.....		
Contract surgeons.....		
Veterinarians.....		
Civilian employees of the Army.....		
American Red Cross.....	}	Paragraph 354, Army Regulations.
Exploring and surveying expeditions authorized by law.....		
Enlisted men of the Army.....	}	Act of Congress approved April 23, 1904 (G. O. No. 76, W. D., 1904).
*American designers.....		
Any State, Territory, or District of Columbia.....	}	Act of Congress approved June 3, 1916 (Bul. No. 16, W. D., 1916).
Cuba.....		
Educational institutions.....	}	Act of Congress approved August 29, 1916 (Bul. No. 33, W. D., 1916).
Rifle clubs organized under the rules of the National Board for the Promotion of Rifle Practice.....		
*Government departments.....	}	Acts of Congress approved May 11, 1908 (G. O. No. 80, W. D., 1908), and July 17, 1914.
*Cobelligerent governments.....		
*Patriotic organizations.....	}	Act of Congress approved March 3, 1905 (Sec. III, G. O. No. 46, W. D., 1905), July 9, 1918 (Bul. No. 43, W. D., 1918).
	}	Acts of Congress approved August 24, 1912 (Bul. No. 15, W. D., 1912), and July 9, 1918.
	}	Act of Congress approved July 9, 1918.
	}	Act of Congress approved May 28, 1908.

GROUP G.

ARTILLERY REPAIR TRUCK, MODEL 1918.

P Chassis.....	\$3,283.52
P Body.....	1,166.54
P Load.....	3,369.15
P Equipment.....	27.57
P Truck, Artillery repair, model 1918, complete.....	\$7,846.78

* Sales must be approved by the Chief of Ordnance.

PRICES OF ARTILLEPY REPAIR TRUCK AND COMPONENTS, MODEL 1918.

BODY LOAD.

Drp. No. or O. P. M.	Description.	Unit price.
P 14-0-89	Ammeter, No. 1002 Eveready, 0-35 ampere range	\$0.45
P	Batteries, tungsten, American Eveready No. 793	.26
P MC62C	Blades, hack saw, 10 inches, 24 teeth	.05
P MC62D	Blades, hack saw, 10 inches, 14 teeth	.05
P MC59E	Blocks, drill, with clamp	2.28
P	Book, American Machinists' Handbook	2.80
P	Book, "Audel's Automobile Questions and Answers for Operators and Repairmen."	1.25
P	Book, "Automobile Repairing Made Easy," by Victor W. Page	1.86
P	Bulbs, for flashlight, Mazda 2.7-volt	.18
P	Bulbs, 5-watt, carbon, 110-volt	.18
P MC56C-UA	Bushing, expansion, for taper mandrels, 23 in set, $\frac{1}{4}$ inch to $1\frac{1}{4}$ inches, advancing by sixteenths, per set	30.67
P	Cabinet, bench	181.30
P	Cabinet, lathe frame	41.44
P MC53E	Calipers, 10 inches, outside, lock joint transfer	1.66
P MC53F	Calipers, 10 inches, inside, lock joint transfer	1.66
P MC53A	Calipers, 6 inches, hermaphrodite, firm joint, with adjustable point	.67
P MC53B	Calipers, 6 inches, outside, spring	.68
P MC53C	Calipers, 6 inches, inside, spring	.68
P MC53H	Calipers, 3 inches, outside, spring	.52
P MC53K	Calipers, 3 inches, inside, spring	.52
P MC83Z	Calipers, 3 inches, pocket, slide rule, English	2.07
P MC55A	Calipers, micrometer, inside, set: 10 extension rods	6.73
	1 gauge, $\frac{1}{4}$ inch	
	1 case, leather	
P MC55D	Calipers, micrometer, outside, metric (set): 1-0 to 25 mm. (2 standards, 1 leather case)	27.45
	1-25 to 50 mm	
	1-50 to 75 mm	
P MC55C	Calipers, micrometer, outside, set: 1-1 inch caliper	24.35
	1-2 inches caliper	
	1-3 inches caliper	
	1 test gauge, 1 inch	
	1 test gauge, 2 inches	
	2 adjustable wrenches	
	1 leather case	
P MC83T	Chisel, 6 inches, cold, $\frac{1}{4}$ inch, octagon steel	.10
P MC83U	Chisel, 6 inches, cold, $\frac{1}{4}$ inch, octagon steel	.12
P MC83S	Chisel, 5 inches, cold, $\frac{1}{4}$ inch, octagon steel	.07
P U127B	Chisel, 8 inches, cold, $\frac{1}{4}$ inch, octagon steel	.15
P MC119A	Chuck, combination, screw geared, 3-jaw, rated size 6 inches	30.22
P MC59G	Chuck, drill, capacity 0 to $\frac{1}{4}$ inch, with No. 2 Morse taper shank	6.60
P MC59A	Chuck, wrench, drill	1.00
	Clamp, hose, adjustable	.04
P MC65G	Clamps, "C" (Vulcan), 24 inches	1.33
P MC65K	Clamps, "C" (Vulcan), 64 inches	3.78
P MC65H	Clamps, "C" (Vulcan), 44 inches	2.46
P MC59C	Clamps, toolmaker, $\frac{1}{4}$ inches	.70
P MC59D	Clamps, toolmaker, $\frac{3}{4}$ inches	1.75
P MC62B	Clippers, bolt, 18 inches long, $\frac{1}{4}$ inch capacity	2.03
	Compound, valve grinding, 7 ounces, box	.13
P MC40E	Copper, soldering, $1\frac{1}{2}$ pounds, pointed pattern, with handle	.90
P MC40F	Copper, soldering, $\frac{1}{2}$ pound, pointed pattern, with handle	.45
P 15-21-117	Compressor, air, unit—consisting of: 1 compressor, 24 by 3 inches	136.75
	1 base, with idler	
	1 motor, compound wound, $1\frac{1}{2}$ H. P., 1,700 revolutions per minute	
P MC83QA	Countersink, 82°, round shank, $\frac{1}{4}$ inch diameter	.68
P MC83SA	Countersink, 82°, square shank, $\frac{1}{4}$ inch diameter	.32
P MC83CB	Countersink, 90°, angle, shank, $\frac{1}{4}$ inch diameter, body 1 inch diameter, 2 $\frac{1}{4}$ inches long	.86
P 38-9-8	Cover, canvas, for bench grinder	4.25
P 38-9-10	Cover, canvas, for generating unit	8.00
P 38-9-9	Cover, canvas, for drill press	3.95
P 38-9-7	Cover, canvas, for lathe	22.00
P 38-9-2	Cover, canvas, for truck	108.00
P 38-9-11	Cover, canvas, for American Machinists' Handbook, cover A	.25
P 38-9-11	Cover, canvas, for "Automobile Questions and Answers," cover B	.25
P 38-9-11	Cover, canvas, for "Automobile Repairing Made Easy," cover C	.30
P 38-9-18	Cover, canvas, for searchlight	1.55
P MC58A	Cutters, side milling, $\frac{1}{4}$ inch	1.92
P MC58B	Cutters, side milling, $\frac{3}{8}$ inch	2.02
P MC58C	Cutters, side milling, $\frac{1}{2}$ inch	2.15
P MC58D	Cutters, side milling, $\frac{3}{4}$ inch	2.23
P MC58E	Cutters, side milling, $\frac{1}{2}$ inch	2.33

PRICES OF ARTILLERY REPAIR TRUCK AND COMPONENTS, MODEL 1918—Continued.

BODY LOAD—continued.

Drq. No. or O. P. M.	Description.	Unit price.
P MC58T.....	Cutters, milling, 45° angle, right hand, $\frac{1}{2}$ by 2 $\frac{1}{2}$ by $\frac{3}{4}$ inch.....	\$2.28
P MC58FB.....	Cutters, milling, 45° angle, left hand, $\frac{1}{2}$ by 2 $\frac{1}{2}$ by $\frac{3}{4}$ inch.....	2.28
P MC58F.....	Cutters, milling, convex, carbon steel, $\frac{1}{2}$ inch.....	1.76
P MC58G.....	Cutters, milling, convex, carbon steel, $\frac{1}{2}$ inch.....	2.18
P MC58H.....	Cutters, milling, convex, carbon steel, $\frac{3}{4}$ inch.....	2.75
P MC58K.....	Cutters, milling, convex, carbon steel, $\frac{1}{2}$ inch.....	3.16
P MC58S.....	Cutters, milling, 60° double angle, $\frac{1}{2}$ by 2 $\frac{1}{2}$ by 8 inches.....	2.28
P MC58L.....	Cutters, slitting, $\frac{1}{2}$ by 2 $\frac{1}{2}$ inches by $\frac{1}{8}$ inch hole.....	.83
P MC58M.....	Cutters, slitting, $\frac{3}{8}$ by 2 $\frac{1}{2}$ inches by $\frac{1}{8}$ inch hole.....	.78
P MC58N.....	Cutters, slitting, $\frac{1}{2}$ by 2 $\frac{1}{2}$ inches by $\frac{1}{8}$ inch hole.....	.73
P MC58P.....	Cutters, slitting, $\frac{3}{8}$ by 2 $\frac{1}{2}$ inches by $\frac{1}{8}$ inch hole.....	.88
P MC58Q.....	Cutters, slitting, $\frac{1}{2}$ by 2 $\frac{1}{2}$ inches by $\frac{1}{8}$ inch hole.....	.73
P MC58R.....	Cutters, slitting, $\frac{3}{8}$ by 2 $\frac{1}{2}$ inches by $\frac{1}{8}$ inch hole.....	.88
P MC67BA-QA.....	Cutters, threading, single point, U. S. Form thread, to cut standard pitches, 6 to 16, 18, 20. Set consists of: 1 cutter, No. OOT, single point..... 1 cutter, No. 50, single point.....	8.66
P MC68W.....	Cutters, circular, glass, adjustable, 3 inches to 22 inches, with graduated bar and locking device, each.....	.62
P MC84A.....	Cylinders, oxygen, 200 cubic feet capacity, filled.....	27.66
P MC116B.....	Cylinders, acetylene, 200 cubic feet capacity, filled.....	113.96
P MC70B.....	Die stock, A. S. M. E. standard, set consists of: 13 dies and collets, complete..... 13 tap or taps..... 13 plug taps..... 13 bottoming taps..... Nos. 6-80 Nos. 4-48 Nos. 8-36 1-72 5-44 9-32..... 2-64 6-40 10-30..... 3-56 7-36 12-28..... 14-24..... 1 tap wrench, adjustable..... 1 die stock.....	16.78
P MC53D.....	Dividers, 6 inches, spring.....	.68
P MC53L.....	Dividers, 3 inches, spring.....	.58
P MC53L.....	Dogs, lathe, clamp, 3 inches.....	1.10
P MC53M.....	Dresser, lathe, clamp, 4 $\frac{1}{2}$ inches.....	1.88
P MC58GB.....	Dresser, emery wheel, $\frac{1}{2}$ by 12 $\frac{1}{2}$ inches.....	4.14
P MC56B.....	Drill, electric, portable, type E.E. Cincinnati, 110-volt, direct current capacity, $\frac{1}{2}$ inch steel, No. 2 slip socket, 30 feet extension cord.....	102.15
P MC57B.....	Drill, hand and breast, with chuck, capacity 6 to $\frac{1}{2}$ inch.....	2.39
P MC60B.....	Drill, press, sensitive, bench type, friction drive, motor $\frac{1}{2}$ horsepower, 110-volt direct current.....	
P MC59B.....	1 V-block.....	151.00
P MC59K.....	1 cup center.....	
P MC59H.....	1 point center.....	
P MC69A-SA.....	Drill's, twist, taper shank, $\frac{1}{2}$ inch to 1 $\frac{1}{2}$ inches. Sizes advancing by 64ths, $\frac{1}{2}$ inch to 1 inch. Advancing by sixteenths from 1 $\frac{1}{4}$ inches to 1 $\frac{1}{2}$ inches, inclusive, standard Morse taper.....	45.60
P MC69AC-HD.....	Drill's, twist, straight shank, carbon steel, 14 sizes, 6 of each, $\frac{1}{8}$ inch to $\frac{3}{4}$ inch, advancing by 64ths, 84 in set, per set..... 7 sizes, 3 of each, $\frac{1}{2}$ inch to $\frac{3}{4}$ inch, advancing by 64ths, 21 in set, per set..... 8 sizes, 2 of each, $\frac{1}{2}$ inch to $\frac{3}{4}$ inch, advancing by 64ths, 16 in set, per set.....	8.14 4.32 6.22
P MC83X.....	Drill and countersink, $\frac{1}{8}$ inch drill, $\frac{1}{4}$ inch body.....	.17
P MC83W.....	Drill and countersink, $\frac{1}{2}$ inch and $\frac{1}{4}$ inch diameter, drill, .302 diameter of body.....	.19
P MC59P.....	Drill holder, No. 2, Morse taper 116-5 ounces.....	1.00
P MC59N.....	Drill drift, No. 2, Morse, 4 ounces.....	.25
P 15-21-1L.....	Extension cord, 30 feet, No. 13..... 1 lamp guard, No. 112..... 1 swivel attachment plug..... 1 aluminum shell socket with wooden handle.....	2.54
P U69U.....	File, flat, 10 inches, double cut, bastard.....	.21
P U129B.....	File, flat, 12 inches, double cut, bastard.....	.28
P MC83C.....	File, flat, 14 inches, double cut, bastard.....	.40
P MC83D.....	File, flat, 10 inches, double cut, second cut.....	.24
P MC83E.....	File, flat, 12 inches, double cut, second cut.....	.31
P MC21K.....	File, half round, 10 inches, double cut, bastard.....	.26
P MC83M.....	File, half round, 12 inches, double cut, bastard.....	.34
P MC83N.....	File, half round, 6 inches, double cut, second cut.....	.16
P MC83P.....	File, half round, 8 inches, double cut, second cut.....	.20
P MC83Q.....	File, half round, 10 inches, double cut, second cut.....	.22
P MC83R.....	File, half round, 12 inches, double cut, second cut.....	.26
P MC83LA.....	File, round, 6 inches, double cut, second cut.....	.11
P MC83MA.....	File, round, 8 inches, double cut, second cut.....	.13
P MC83NA.....	File, round, 10 inches, double cut, second cut.....	.18
P MC83PA.....	File, round, 12 inches, double cut, second cut.....	.22

PRICES OF ARTILLERY REPAIR TRUCK AND COMPONENTS, MODEL 1918—Continued.

BODY LOAD—continued.

Drq. No. or O. P. M.	Description.	Unit price.
P MC83KA	File, round, 12 inches, double cut, bastard	\$0.20
P MC83F	File, mill, 6 inches, single cut, smooth	.12
P MC83G	File, mill, 8 inches, single cut, smooth	.16
P MC83H	File, mill, 10 inches, single cut, smooth	.20
P MC83K	File, mill, 12 inches, single cut, smooth	.22
P MC83DB	File, mill, 8 inches, single cut, bastard	.13
P MC83EB	File, mill, 10 inches, single cut, bastard	.16
P MC83FK	File, mill, 12 inches, single cut, bastard	.22
P MC83EA	File, square, 6 inches, double cut, second cut	.15
P MC83FA	File, square, 8 inches, double cut, second cut	.17
P MC83GA	File, square, 10 inches, double cut, second cut	.22
P MC83HA	File, square, 12 inches, double cut, second cut	.30
P MC83CA	File, square, 12 inches, double cut, bastard	.28
P MC83DA	File, square, 14 inches, double cut, bastard	.36
P U69Q	File, taper, saw, 4 inches, single cut	.07
P U69S	File, taper, saw, 6 inches, single cut	.10
P U174A	File, taper, saw, 8 inches, single cut, second cut	.16
P MC83BA	Files, 3-square, 6 inches, slim, double cut, second cut	.12
P 14-4-17	Flashlight, No. 1991, Eveready	.82
P MC62G	Frame, hack saw, adjustable	.83
P	Funnels, filtering, set. This includes:	
P U46E	1 small special funnel	
P MC18A-E	1 No. 2 filtering funnel	
P 76-15-1E	3 filtering rings for No. 2 funnel	4.04
	1 container box, piece mark 1E	
	Fuse, 5-amperes, union, 250-volt	.08
	Fuse, 10-amperes, union, 250-volt	.10
	Fuse, 20-amperes, union, 250-volt	.10
	Fuse, 50-amperes, union, 250-volt	.14
P MC83AA	Gauge, center	.20
P MC54E	Gauge, micrometer, depth, with 2 extra rods	4.58
P MC54H	Gauge, screw threading tool, 29°, includes setting gauge	2.40
P MC54G	Gauge, worm thread, tool	2.30
P MC53M	Gauge, V-thread, screw pitch	1.19
P MC54K	Gauge, jobbers drill, $\frac{1}{4}$ to $\frac{1}{2}$ inch	1.86
P MC53P	Gauge, thickness, 9-blade	1.55
P MC54L	Gauge, universal, surface, with 9-inch spindle, base not hardened	2.00
P 14-1-5	Generating unit, Universal, 4-kilowatt, 110-volt, direct current, with switchboard and spare parts.	557.33
	This includes:	
	Generating unit	\$480.00
	Switchboard	54.91
	4 pair connecting rod bearings, at \$0.50 per pair	2.00
	4 piston rings $\frac{1}{2}$ inch, at \$0.08 each	.32
	2 piston rings $\frac{3}{4}$ inch, at \$0.12 each	.24
	2 cylinder head gaskets, at \$0.50 each	1.00
	2 valves, at \$0.40 each	.80
	1 valve tappet	.60
	8 armature brushes	
	4 spark plugs, at \$0.37	
	Included with generator.	
P MC57C	Grinder, automobile valve	1.71
P MC61B	Grinder, bench, 110-volt, direct current, $\frac{1}{2}$ horsepower	75.00
	This includes:	
MC72M	2 alundum wheels, 10 by 1 inch, grain 46, grade O.	
	2 adjustable steel guards.	
MC61C	1 detachable water pot.	
	1 electric operating switch.	
P MC61A	Grinder, tool post, $\frac{1}{2}$ horsepower, 110-volt, direct current	34.00
	This includes:	
MC61D	1 alundum wheel, $4\frac{1}{2}$ by $\frac{3}{4}$ inch, grain 3860, grade N	\$2.25
MC61E	1 alundum wheel, $1\frac{1}{2}$ by $\frac{3}{4}$ inch, grain 3860	.47
MC61F	1 extension mandrel, $4\frac{1}{2}$ inches long, $\frac{3}{8}$ inch diameter.	
MC61G	1 tooth rest.	
MC	1 shank, 5.8 by 1 by $4\frac{1}{2}$ inches.	
	2 cords, extension, 7 inches, with fuse plugs.	
	2 fuse plugs extra—6 amp. 250-volt.	
MC61H	Grinder wheel, Norton alundum, $4\frac{1}{2}$ by $\frac{3}{4}$ inch, grain 3860, grade N (extra for tool post grinder).	.50
P MC61D	Grinder wheel, Norton alundum, $1\frac{1}{2}$ by $\frac{3}{4}$ inch, grain 3860 grade N (extra for tool post grinder).	.27
P MC61E	Grinder wheel, Norton alundum, $1\frac{1}{2}$ by $\frac{3}{4}$ inch, grain 3860 grade N (extra for tool post grinder).	.27
P MC72M	Grinder wheel, Norton alundum, 10 by 1 inch, grain 46, grade N (extra for bench grinder).	2.38
P MC40D	Hammer, claw, bell face, 1 pound, 3 ounces	.70
P MC40A	Hammer, machinists', ball pein, 12 ounces	.48
P MC40B	Hammer, machinists', ball pein, octagon, 1 pound	.52
P MC40C	Hammer, rounding, 2 pound	.95

PRICES OF ARTILLERY REPAIR TRUCK AND COMPONENTS, MODEL 1918—Continued.

BODY LOAD—continued.

Drq. No. or O. P. M.	Description.	Unit price.
P 15-21-65.....	Hammer, pneumatic, complete.....	\$45.19
	This includes:	
	Pneumatic hammer.....	\$29.00
	6 sets buttonhead rivets, $\frac{1}{8}$ inch, $\frac{1}{4}$ inch, $\frac{3}{8}$ inch, $\frac{1}{2}$ inch, $\frac{5}{8}$ inch, $\frac{3}{4}$ inch, \$9.93 per set.....	5.58
	12 chipping chisels, 2 each, $\frac{1}{4}$ inch, $\frac{3}{8}$ inch, $\frac{1}{2}$ inch, $\frac{5}{8}$ inch, $\frac{3}{4}$ inch, 1 inch, per set.....	9.32
	1 wrench spanner.....	1.04
	1 nipple, $\frac{3}{8}$ inch for $\frac{1}{4}$ inch hose.....	.25
P MC67AA.....	Holder, boring tool, No.80.....	2.85
	This includes:	
	1 sleeve bar.....	
	1 cutter, 45°.....	
	1 cutter, 90°.....	
	1 wrench.....	
P MC67Z.....	Holder, cutting-off tool, No. 20-R, $\frac{1}{2}$ by $\frac{1}{2}$ inch.....	1.57
P MC67A.....	Holder, cutting-off tool, No. 30-R, $\frac{1}{2}$ by $\frac{1}{2}$ inch.....	1.57
P MC67B.....	Holder, cutting-off tool, No. 30-L, $\frac{1}{2}$ by $\frac{1}{2}$ inch.....	1.57
P MC67D.....	Holder, side tool, No. 30-B, $\frac{3}{8}$ by $\frac{1}{2}$ inch.....	1.78
P MC67C.....	Holder, side tool, No. 30-L, $\frac{3}{8}$ by $\frac{1}{2}$ inch.....	1.78
P MC67E.....	Holder, threading tool, No. 50, $\frac{3}{8}$ by $\frac{1}{2}$ inch.....	1.86
P MC67X.....	Holder, turning tool, No. OS, $\frac{3}{8}$ by $\frac{1}{2}$ by 5 inches, straight shank.....	1.50
P MC67F.....	This includes:	
	2 cutters, $\frac{1}{4}$ inch, high speed.....	
	1 hexagon, head cam.....	
	1 hardened wrench.....	
MC67K.....	Holder, turning tool, No. OR, $\frac{3}{8}$ by $\frac{1}{2}$ by 5 $\frac{1}{2}$ inches, right hand, offset shank.....	1.50
P MC67G.....	This includes:	
	2 cutters, $\frac{1}{4}$ inch, high speed.....	
	1 hexagon head cam.....	
	1 hardened wrench.....	
MC67K.....	Indicator, test, Universal.....	2.00
P MC53N.....	Locks, with chains.....	1.80
P JB5K.....	Ladle, metal, 1 pint, The Fairbanks Co.....	.80
P MC57D.....	Lamp stands, portable, adjustable, floor, No. 1, Mathews, with 12-foot cord.....	5.13
P MC70A.....	Lathe, 9 inches, with taper attachments, complete.....	\$61.56
P 31-18-68.....	This includes:	
	Lathe.....	\$283.86
	1 block, 2 inches, for straight tool post.....	17.61
	2 bolts, steady rest (spare).....	.52
	1 bolt, steady rest, with blocking.....	2.28
	4 centers, point No. 2, Morse, at \$1.55 each.....	6.20
	1 chart, metric gear change.....	1.00
	1 chart, milling and gear cutting attachment.....	1.00
	1 chuck "draw in".....	20.72
	1 clamp for steady rest.....	3.00
	10 collets, No. 2 split, at \$2.35 each.....	24.30
	1 dog lathe center.....	2.50
	1 gear, metric transposing.....	7.04
	11 gears, regular set.....	
	1 gear, 45-tooth.....	1.00
	1 gear, 80-tooth.....	2.60
	1 guard, spindle.....	1.00
	1 inilling and gear cutting attachment.....	195.97
	Consisting of:	
	1 vertical slide column.....	
	1 clamp for vertical slide column.....	\$1.25
	1 clamp for bar support.....	1.35
	1 crank for vertical column.....	3.03
	1 crank, dividing head.....	2.50
	1 cutter-block, with shaft and collar.....	
	1 dividing head.....	
	1 overhanging bar with tail center.....	
	1 support, overhanging bar.....	
	1 vise, milling.....	
	1 motor, shunt wound, $\frac{1}{2}$ horse power, 115-volt, direct current, with rheostat.....	50.50
	1 plate, face, 9 inches.....	
	1 post, tool, straight.....	\$7.25
	Including:	
	1 washer.....	
	1 rocker.....	
	1 screw.....	
	1 wrench \$0.50.....	
	1 rest, follow.....	
	1 rest, steady.....	
	1 sleeve, lathe center.....	
	1 wrench, tail stock.....	

PRICES OF ARTILLERY REPAIR TRUCK AND COMPONENTS, MODEL 1918—Continued.

BODY LOAD—continued.

Qty. No. or G. F. M.	Description.	Unit price.
P MC58WA-DR.	Mandrels, taper, Nos. 3 to 9, inclusive.	\$17.26
P 15-21-69.	Mills, and, spiral, No. 1, Morse taper, right hand, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch; left hand, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch, per set.	1.21
P 15-21-69.	Mills, and, spiral, No. 2, Morse taper, right hand, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch; left hand, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch, $\frac{1}{4}$ inch, $\frac{1}{8}$ inch, per set.	10.86
P 76-15-81.	Outfit, welding and cutting, oxy-acetylene, complete.	\$41.23
	This includes:	
	1 welding tool case.	\$7.77
	Containing:	
	11 hammers (1 set), special.	2.59
	1 burner, Hansen (acetylene)	3.89
	1 pair gloves, canvas	.66
	3 pairs goggles, at \$1.10.	3.30
	1 hose, 25 feet, standard black.	3.97
	1 hose, 25 feet, standard red.	3.97
	1 book of instructions.	
	1 lighter, spark.	.31
	6 lighter renewals, spark (set).	.70
	1 regulator gauge, No. 2, acetylene, including wrench, 26 to 400 pounds.	21.37
	1 regulator gauge, No. 2, oxygen, 400 to 3,000 pounds.	24.38
	10 tips, 2 each, cutting, Nos. 1, 2, 3, 4, 5, at \$2.33.	23.30
	10 tips, 2 each, welding, Nos. 6, 7, 8, 9, 10, at \$1.55.	15.50
	5 tips, 1 each, special welding (for light gauge metal) Nos. 6, 1, 2, 3, 4, at \$1.55.	7.75
	1 torch, cutting, No. 3000, two hose, including two wrenches and wheel.	54.39
	1 torch, welding, No. 146, standard.	31.08
	1 torch, decarbonizing.	5.62
	1 wrench, regulator (included with regulator).	.60
	2 wrenches, torch (included).	
	1 wheel, torch guide (with torch No. 3000.)	
	1 welding supply case.	7.77
	Containing:	
	1 pound flux, Marvel (in can).	.44
	1 pound flux, Peerless aluminum (in can).	.88
	2 pairs gloves, canvas, at \$0.66 per pair.	1.32
	1 pound can powder, cast iron sealing.	.26
	9 pounds rods, Atlas cast iron welding, $\frac{1}{4}$ inch.	1.50
	4 $\frac{1}{2}$ pounds rods, Atlas cast iron welding, $\frac{1}{4}$ inch.	.89
	2 $\frac{1}{2}$ pounds rods, aluminum welding $\frac{1}{4}$ inch.	3.07
	4 pounds rods, gas welding (malleable iron), $\frac{1}{4}$ inch.	2.71
	5 $\frac{1}{2}$ pounds rods, Marvel welding (bronze and brass), $\frac{1}{4}$ inch.	3.53
	11 $\frac{1}{2}$ pounds rods, nickel steel, $\frac{1}{4}$ inch.	3.55
	1 pound rods, vanadium steel, $\frac{1}{4}$ inch.	.23
	6 $\frac{1}{2}$ pounds rods, wrought iron and steel, $\frac{1}{4}$ inch.	1.18
	6 $\frac{1}{2}$ pounds rods, wrought iron and steel, $\frac{1}{4}$ inch.	1.17
	5 $\frac{1}{2}$ pounds rods, wrought iron and steel, $\frac{1}{4}$ inch.	1.02
P MC66F.	Parallel, $\frac{1}{4}$ by $\frac{1}{4}$ by 6 inches.	2.98
P MC66G.	Parallel, $\frac{1}{4}$ by 1 by 6 inches.	3.77
P.	Paulin, 12 by 12 feet.	22.73
P MC68A-M.	Plates, automobile screw, $\frac{1}{4}$ inch to 1 inch, SAE standard.	22.38
	This includes:	
	1 stock, 22 inches long.	
	11 plug taps.	
	11 dies and guides, 2 $\frac{1}{2}$ inches. O. D. $\frac{1}{8}$ inch—18; sizes $\frac{1}{4}$ inch—28, $\frac{3}{8}$ inch—18, $\frac{1}{2}$ inch—24, $\frac{5}{8}$ inch—15, $\frac{3}{4}$ inch—24, $\frac{7}{8}$ inch—16, $\frac{15}{16}$ inch—20, $\frac{1}{4}$ inch—14, $\frac{1}{2}$ inch—20, 1 inch—14.	
P MC62E.	Pliers, long round nose, 5 $\frac{1}{2}$ inches.	.38
P MC62F.	Pliers, curve nose, 5 $\frac{1}{2}$ inches.	.47
P MC53G.	Punch, machine center, 2 ounces, $\frac{1}{4}$ inch.	.07
P 15-21-69.	Reamers, hand, set of 25, advancing by 32ds, $\frac{1}{4}$ inch to 1 inch, per set.	40.00
P MC63RA.	Reamers, taper pin, No. 0 to 5, set.	5.34
P MC66B.	Rule, 3 inches, graduation.	.35
P MC66H.	Rule, 6 inches, graduation.	.50
P MC66K.	Rule, 6 inches, flexible, graduation.	.55
P MC68C.	Rule, metric folding.	1.10
P MC66E.	Rule, 36 inches, steel, English graduation.	4.00
P MC40G.	Screwdriver, 4 inches, perfect handle.	.22
P MC40H.	Screwdriver, 6 inches, perfect handle.	.30
P MC40K.	Screwdriver, 8 inches, perfect handle.	.42
P MC66A.	Scale, flexible, 300 millimeter.	.90
P MC66D.	Scale, semiflexible, 150 millimeter.	.45
P MC53BB.	Scribers, adjustable groove.	.41
P MC59F.	Sleeves, with No. 1 Morse taper hole and No. 2 Morse taper outside.	.51
P MC62A.	Snips, 10 inches thinner, forged steel.	.67
P MC54C.	Square, 3 inches try, solid steel.	2.80

PRICES OF ARTILLERY REPAIR TRUCK AND COMPONENTS, MODEL 1918—Continued.

BODY LOAD—continued.

Drq. No. or O. P. M.	Description.	Unit price.
P MC68N-U.....	Taps, hand, U. S. standard set..... Consisting of: 7 taps, taper. 7 taps, plug. 7 taps, bottoming, as follows: $\frac{1}{2}$ inch—20, $\frac{3}{4}$ inch—18, $\frac{1}{2}$ inch—16, $\frac{3}{8}$ inch—14, $\frac{1}{2}$ inch—13, $\frac{3}{4}$ inch—11, $\frac{1}{2}$ inch—10.	\$7.23
P MC68QA-WA.....	Tap, pipe, Briggs standard, set..... This contains: 6 taper pipe taps: $\frac{1}{2}$ inch, $\frac{3}{4}$ inch, $\frac{1}{2}$ inch, $\frac{1}{2}$ inch, $\frac{1}{2}$ inch, 1 inch.	4.70
P.....	Tools, pipe, set, $\frac{1}{2}$ inch to 1 inch..... This includes: MC63P..... 1 die stock. MC63S..... 1 wrench, 14 inches Wells pipe, $\frac{1}{2}$ inch to $1\frac{1}{2}$ inches. MC63E..... 1 cutter, Wells roller pipe, $\frac{1}{2}$ inch to $1\frac{1}{2}$ inches. MC63Q..... 1 vise, pipe, malleable iron hinge, $\frac{1}{2}$ inch to $2\frac{1}{2}$ inches. MC63N..... 1 oil can. MC68A..... 1 pound pipe joint cement (in can). MC63B-F&T..... 1 set bushings— $\frac{1}{2}$ inch to 1 inch. MC63G-M&U..... 1 set dies— $\frac{1}{2}$ inch to 1 inch.	10.36
P MC57A.....	Torch, gasoline, double jet, 1 quart.....	5.42
P MC55B.....	Trammel, 14 inches beam calliper.....	2.24
P 14-0-88.....	Voltmeter, Eveready No. 1005, 0-10-volt.....	.50
U367A.....	Vise, machinists', $3\frac{1}{2}$ inches, swivel jaw and swivel base.....	10.06
P.....	Vise, machinists', 4 inches.....	12.43
	Welding and cutting outfit—See Outfit.	
P MC72A.....	Wrench, "Trimo," monkey, 1912 pattern, 10 inches.....	.80
P MC72B.....	Wrench, "Trimo," monkey, 1912 pattern, 12 inches.....	1.05
P MC72N.....	Wrench, "Trimo," pipe, 14 inches, metal handle.....	1.81
P MC72D.....	Wrench, 6 inches "Crescent," adjustable, $22\frac{1}{2}$ angle.....	.45
P MC72C.....	Wrench, 8 inches, "Crescent," adjustable, $22\frac{1}{2}$ angle.....	.54
P MC72E.....	Wrench, 6 inches, adjustable.....	.45
P.....	Wrench, double end auto set, semifinish for S. A. E. cap screw, per set.....	1.30
MC72F to L.....	$1\frac{1}{2}$ inch and $\frac{1}{4}$ inch. $1\frac{1}{2}$ inch and $\frac{3}{8}$ inch. $1\frac{1}{2}$ inch and $\frac{1}{2}$ inch. $1\frac{1}{2}$ inch and $\frac{3}{4}$ inch. $1\frac{1}{2}$ inch and 1 inch.	
P MC56A.....	Wrench socket, patent ratchet (set in box)..... This contains: 27 hexagon steel sockets by 32ds from $\frac{1}{4}$ to 1 inch, also $1\frac{1}{2}$ inches. $1\frac{1}{2}$ inches, $1\frac{1}{2}$ inches, $1\frac{1}{2}$ inches. 2 square steel sockets, $\frac{1}{2}$ and $\frac{3}{4}$ inch. 1 ratchet wrench, with reversible pawl. 1 spark plug socket. 1 universal joint. 2 screw-driver bits.	9.95
P.....	Wrench, adjustable, tap set..... This includes: MC68LA..... No. 107, 7 inches long for $\frac{1}{4}$ inch to $\frac{1}{2}$ inch..... \$1.19 MC68MA..... No. 211, 11 inches long for $\frac{1}{4}$ inch to $\frac{1}{2}$ inch..... 1.57 MC68NA..... No. 315, 15 inches long for $\frac{1}{4}$ inch to $\frac{1}{2}$ inch..... 1.97 MC68PA..... No. 320, 20 inches long for $\frac{1}{4}$ inch to 1 inch..... 2.76	7.48

EQUIPMENT.

P U51D.....	1 ax.....	\$1.10
P H59D.....	1 body, bucket holder.....	.72
P HB1B.....	2 bodies, lantern bracket.....	.36
P HB1A.....	2 bottoms, lantern bracket.....	.28
P HB14H.....	1 bracket, ax handle.....	.10
P FF39A.....	2 brackets, fire extinguisher.....	.33
P HB2F&Q.....	2 brackets, hatchet blade, right and left.....	.06
P HB12H.....	2 brackets, hatchet handle.....	.06
P HB5M.....	2 brackets, shovel blade.....	.17
P HB5A.....	2 brackets, shovel handle.....	.25
P 15-7-50.....	2 buckets, water, canvas.....	1.81
P MC8B.....	1 can, safety, Pyrene patent.....	1.97
P MC8A.....	1 extinguisher, fire, Pyrene.....	5.00
P Z114F.....	24 eyes, hanger.....	.10
P 15-2KN-1.....	11 fasteners, strap.....	.05
P U51B.....	2 hatchets.....	.55
P 15-3-8.....	1 lantern.....	1.28
P 15-5-106.....	2 pads, lantern.....	.54
P U51A.....	1 pickax.....	.85

EQUIPMENT—Continued.

Drg. No. or O. P. M.	Description.	Unit price.
P HB14J.....	1 plate, ax handle bracket.....	\$0.08
P HB14G.....	1 pocket, ax, left.....	.11
P HB2L.....	1 rest, hatchet handle, left.....	.02
P HB2R.....	1 rest, hatchet handle, right.....	.02
P HB12D.....	1 rest, pickax handle.....	.10
P U51C.....	2 shovels, short handle.....	1.24
P 15-21-7.....	1 strap, ax handle, 12 inches long.....	.21
P 15-21-7.....	1 strap, bucket, water.....	.42
P 15-21-7.....	2 straps, hatchet handle, 12 inches.....	.21
P U8D.....	2 straps, lantern.....	.18
P 15-21-7.....	2 straps, shovel, 15 inches.....	.30

[062.1, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

JOHN J. PERSHING,
*General of the Armies,
Chief of Staff.*

CIRCULAR }
No. 26. }

WAR DEPARTMENT,
WASHINGTON, January 30, 1922.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR COAST ARTILLERY TROOPS—
TABLE IV-G, ANTI-AIRCRAFT ARTILLERY—SUPPLEMENTAL TO CIRCULAR
NO. 169, WAR DEPARTMENT, 1921.**

The following tables with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribe the basic allowances of individual and organizational equipment for anti-aircraft artillery, Coast Artillery Corps.

TABLE IV-G.

ANTI-AIRCRAFT ARTILLERY.

- SECTION I.—Individual equipment.**
 II.—Automatic rifles.
 III.—Anti-aircraft machine guns.
 IV.—Ammunition and armament for anti-aircraft guns.
 V.—Searchlight equipment.
 VI.—Engineering equipment.
 VIIa.—Fire-control equipment, common to all units.
 VIIb.—Fire-control equipment, special for anti-aircraft machine guns.
 VIIc.—Fire-control equipment, special for anti-aircraft guns.
 VIII.—Miscellaneous equipment.
 IX.—Communication equipment.
 X.—Transportation.
 XI.—Notes.

SECTION I.—Individual equipment.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
0	Ammunition.....	(a)	.....	a (Note 1.)
Q	Cases: Record.....	1	.....	Per master sergeant, first sergeant, and staff sergeant.
0	Pistols.....	1	.....	Per officer and enlisted man.

SECTION II.—Automatic rifles.

(Ordnance.)

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Ammunition	(a)	.....	^a (Note 1.)
Rifles, automatic	(a)	.....	^a 2 per brigade and battalion head- quarters, 4 per headquarters battery, 5 per combat train, 8 per gun bat- tery, searchlight battery, and service battery.

SECTION III.—Antiaircraft machine guns.

(Ordnance.)

Ammunition, dummy rounds .....	.....	50	Per machine gun.
Ammunition, service	(a)	.....	^a (Note 1.)
Attachments for firing blank ammuni- tion.	.....	1	Per machine gun.
Barrels, spare	2	.....	Do.
Belt-filling machine with box, each box containing 12 extra needles.	(a)	.....	^a 1 per machine gun and 1 spare per platoon.
Belts, cartridge, for machine guns, 250 rounds.	40	.....	Per machine gun.
Boxes:			
Ammunition	23	.....	Do.
Spare parts and contents	1	.....	Per machine gun. (Note 2.)
Water	4	.....	Per machine gun.
Cartridge belt guides	2	.....	Do.
Covers:			
Canvas, machine gun	1	.....	Do.
Spare barrel	1	.....	Per spare barrel.
Device, steam condensing	1	.....	Per machine gun.
Gunner's pouch	1	.....	Do.
Machine guns, antiaircraft	12	.....	Per machine gun battery.
Mittens, asbestos, pairs	1	.....	Per machine gun.
Pick mattocks	1	.....	Do.
Rods, cleaning	1	.....	Do.
Shovels, short-handled	1	.....	Do.
Tripods, antiaircraft machine gun	(a)	.....	^a 1 per machine gun; 1 spare per section.
Tripods, machine gun	1	.....	Per machine gun.

SECTION IV.—Ammunition and armament for antiaircraft guns.

(Ordnance.)

Ammunition	(a)	.....	^a 300 rounds per gun.
Ammunition, sectionalized, set .....	.....	1	Per gun battery.
Carriages, gun, complete	1	.....	Per gun. (Note A.)
Drill cartridges .....	.....	5	Do.
Fuze setters, hand	2	.....	Do.
Guns, complete	4	.....	Per gun battery. (Note A.)
Quadrant, gunner's, with pouch	(a)	.....	^a 1 per gun and 1 spare per gun battery.
Sights:			
Bore, set	1	.....	Per gun.
For carriage, set	(a)	.....	^a 1 per gun and 1 spare per gun battery.
Spare parts for:			
Guns, set	1	.....	Per gun battery. (Note A.)
Gun carriages, set	1	.....	Do.
Gun truck or trailer	1	.....	Do.
Tools and accessories for:			
Gun and carriage, set	1	.....	Per gun and carriage.
Gun truck or trailer	1	.....	Per truck or trailer.
Trailer, for gun carriage	1	.....	Per gun mounted on trailer.
Truck, gun	1	.....	Per gun mounted on truck.

NOTE.—Equipment to accompany antiaircraft guns mounted on motor carriage chassis will be published when matériel is issued to the service.

SECTION V.—*Searchlight equipment.*

(Engineers.)

Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Searchlight units, 60-inch (36-inch units may be substituted after all 60-inch have been issued).	12	.....	Per searchlight battery. (Note 3.)

SECTION VI.—*Engineering equipment.*

DRAFTING EQUIPMENT.

(Engineers.)

Compass, beam, micrometer adjustment.	1	.....	Per brigade headquarters.
Dividers, proportional, 8½ inches, in case.	1	.....	Per gun battery, searchlight battery, and battalion headquarters.
Drafting equipment:			
Company.....	1	.....	Per gun battery, searchlight battery, and battalion headquarters. (Note 4.)
Battalion.....	1	.....	Per regimental headquarters. (Note 5.)
Regimental.....	1	.....	Per brigade headquarters. (Note 6.)
Drafting supplies.....	(e)	.....	Per brigade headquarters. (Note 7.)
Glass:			
Magnifying, pocket.....	(e)	.....	1 per battalion and regimental headquarters; 3 per brigade headquarters.
Reading, 3-inch, with handle.....	(e)	.....	1 per battalion and regimental headquarters; 2 per brigade headquarters.
Protractor, semicircular-xyloite:			
10 inches, graduated in degrees.....	(e)	.....	Do.
6 inches, graduated in degrees.....	(e)	.....	Do.
10 inches, graduated in mils.....	(e)	.....	Do.
6 inches, graduated in mils.....	(e)	.....	Do.
Ruler, parallel, rolling, 15-inch.....	1	.....	Per battalion, regimental, and brigade headquarters.
Scales:			
Map, 20-inch, graduated in meters and yards, 1/10,000.	(e)	.....	1 per gun battery, searchlight battery, and battalion headquarters; 3 per regimental and brigade headquarters.
Map, 10-inch, graduated in meters and yards, 1/32,500.	(e)	.....	Do.
Straightedge, steel, 1 yard.....	1	.....	Per brigade headquarters.
Tables:			
Logarithm, numbers, trigonometric functions of degrees and mils, 5 place.	1	.....	Per gun battery, battalion, regimental, and brigade headquarters.
Units of weight and measure.....	1	.....	Do.
Tape, steel, map, graduated in yards, scale 1/20,000, 50 inches long.	2	.....	Per battalion, regimental and brigade headquarters.
Water colors, set.....	1	.....	Per brigade headquarters. (Note 8.)

MAP REPRODUCTION EQUIPMENT.

(Engineers.)

Cyclostyle.....	1	Per regimental and brigade headquarters. (Note 9.)
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SECTION VI.—*Engineering equipment*—Continued.

SURVEYING EQUIPMENT.

(Engineers.)

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Alidade, miniature, telescope, with leather case.	1	.....	Per battalion, regimental, and brigade headquarters.
Arrows, steel, 10-inch, set of 11.....	1	.....	Do.
Chain, band, 300 feet, with reel.....	1	.....	Per gun battalion and regimental headquarters.
Kit, repair, steel tape.....	1	.....	Per regimental headquarters.
Plane table, 24 by 31 inches, consisting of drawing board 24 by 31 inches with Johnson movement tripod attachment and canvas case, plumbing arm and plummet, Johnson movement split-leg tripod.	1	.....	Per battalion, regimental, and brigade headquarters.
Poles, ranging 6 foot in two sections....	2	.....	Per transit.
Rods, stadia, 12-foot, folding.....	4	.....	Per battalion and regimental headquarters.
Sketching outfits.....	(a)	.....	a 1 per battery and battalion headquarters; 2 per regimental and brigade headquarters. (Note 10.)
Supplies, surveying equipment.....	(a)	.....	a Per battalion, regimental, and brigade headquarters. (Note 11.)
Tape, steel, 100 feet, graduated in meters and feet.	1	.....	Per gun battery, searchlight battery, battalion, regimental and brigade headquarters.
Transit, least reading one minute, complete with tripod.	1	.....	Per battalion and regimental headquarters.

CAMOUFLAGE EQUIPMENT.

(Engineers.)

Camouflage equipment, set.....	1	Per lettered battery. (Note 12.)
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SECTION VIIa.—*Fire control, equipment common to all units.*

(Ordnance.)

Battery, flashlight, spare.....	1	Per flashlight.
Bulb, flashlight, spare.....	1	.....	Do.
Compass, lensatic, with case.....	1	.....	Per machine gun platoon, and per lettered battery.
Eyeglasses, amber colored (antiaircraft goggles) pair.	(a)	.....	a 1 per gunner, gun pointer, observer, and searchlight operator; 2 additional per lettered battery.
Flashlights with hoods, each complete with battery and bulb.	8	.....	Per lettered battery; additional to allowance prescribed in Circular No. 169, War Department, 1921.
Flashlights, without hoods, each complete with battery and bulb.	16	.....	Do.
Glasses, field, 6-power, pairs.....	6	.....	Per lettered battery, battalion, regimental and brigade headquarters.
Protractor, parallax.....	1	.....	Per lettered battery.
Squares, zinc.....	2	.....	Do.
Telescope, observation, battery commander's, antiaircraft with tripod and carrying case.	(a)	.....	a 1 per battalion headquarters; 4 per searchlight battery. (Note A.)
Time-interval recorders with chains and shock absorbers.	6	.....	Per lettered battery.

SECTION VIIb.—Fire control, equipment special for antiaircraft machine guns.

(Ordnance.)

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Clinometer, machine gun, with case.	1	.....	Per machine gun.
Graphs, trajectory.	32	.....	Per machine gun battery.
Instruments, angle of site with carrying case.	(e)	.....	a 1 per platoon and 1 additional per ma- chine gun battery.
Range finders, complete with carrying case, adjustment bar, and tripods.	1	.....	Per machine gun battery.
Rules:			
Hitt-Brown.	1	.....	Per machine gun.
Zinc.	(e)	.....	a 1 per platoon and 1 additional per machine gun battery.
Sights:			
Antiaircraft.	1	.....	Per machine gun.
Luminous, front and rear.	1	.....	Do.
Machine gun, panoramic with tri- pod and case.	1	.....	Per platoon.
Stadia, antiaircraft range indicator.	1	.....	Per machine gun. (Note A.)
Tables, indirect fire.	(e)	.....	a 2 per machine gun; 4 per machine gun battery, machine gun battalion, regi- mental and brigade headquarters.

SECTION VIIc.—Fire control, equipment special for antiaircraft guns.

(Ordnance.)

Altimeter set, complete. Consists of: 1 B' station instrument with tripod and carrying case. 1 B'' station instrument with tripod and carrying case.	1	.....	Per gun battery. (Note A.)
Charts, trajectory.	4	.....	Per gun battery, gun battalion, regi- mental and brigade headquarters.
Corrector, Brocq, complete with tripods.	1	.....	Per gun battery equipped with 3-inch trailer mount. (Note A.)
Corrector, mechanical, with special tri- pod and packing case.	1	.....	Per 75-mm. and 3-inch pedestal gun bat- tery. (Note A.)
Deflection computer, with tripod and carrying case.	1	.....	Per gun battery. (Note A.)
Horizontal distance altimeter set, com- plete. Consists of: 1 B' station instrument with tripod and carrying case. 1 B'' station instrument with tripod and carrying case.	1	.....	Do.
Observation grills.	2	.....	Do.
Range computer, with tripod and carry- ing case.	1	.....	Do.
Speed computer, with tripod and carry- ing case.	1	.....	Do.
Tables, range.	(e)	.....	a 6 per gun battery and gun battalion headquarters; 2 per regimental and brigade headquarters.
Wind and parallax computer, with tri- pod and carrying case.	1	.....	Per gun battery.

(Signal Corps.)

Plotting board, sound locating appara- tus, set.	(a)	.....	a 1 per gun battery; 3 per searchlight battery. (Note A.)
Sound locating apparatus, set.	(e)	.....	a 1 per gun battery and gun battalion headquarters; 3 per searchlight bat- tery. (Note A.)

SECTION VIII.—*Miscellaneous equipment.*

(Quartermaster Corps.)

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Shears, 12 inch..... Tents, wall, small, complete, with poles, pins, ropes, and flies.	(e) 1	.....	Per brigade headquarters. 1 per battalion and regimental head- quarters for radio station; 1 per bat- tery, for office, additional to allowance prescribed in Table III, Circular No. 169, War Department, 1921.

SECTION IX.—*Communication equipment.*

(Signal Corps.)

Axes, hand, with helve, 4-pound.....	(e)	.....	2 per lettered battery; 4 per battalion, regimental, and brigade headquar- ters; 1 per radio set.
Bag, tool, service complete.....	1	.....	Per lettered battery, battalion, reg- imental, and brigade headquarters. (Note 13.)
Batteries:			
Type BA-1.....	(e)	.....	2 (1 spare) per each monocord opera- tor's switchboard set, type EE 64, and universal test set, type EE 65.
Type BA-2.....	(e)	.....	5 (additional spares) per each radio set, type SCR-132, 4 (2 spares) per universal test set, type EE 65.
Type BA-9.....	(e)	.....	2 (1 spare) per each telephone, type EE 5.
Type BA-10.....	(e)	(b)	4 (2 spare) per decremeter SCR-87. 4 (2 spare) per set, buzzer instruc- tion, type EE 14.
Cipher device.....	(e)	.....	1 per battalion headquarters; 2 per regimental and brigade headquarters.
Clips, Frankel testing.....	(e)	.....	2 per each universal test set, type EE 65, and telephone switchboard; 6 per each radio set and battery charging set.
Cords, switchboard, monocord type.....	(e)	.....	2 per switchboard, type BD 9; 3 per switchboard, type BD 11.
Decremeter.....	1	.....	Per regimental headquarters.
Electrolite, in 12-gallon carboy.....	1	.....	Per battery charging set.
Encyclopes, field message.....	500	.....	Per battalion, regimental, and brigade headquarters.
Flashlights, complete, each with spare bulb and battery.	(e)	.....	18 per lettered battery; 6 per battal- ion and regimental headquarters. Additional to allowance prescribed in Circular No. 169, War Department, 1921.
Fuses, monocord switchboard.....	1	.....	Per 2 lines.
Gloves, rubber, light, pairs.....	2	.....	Per battery charging set.
Grips, Buffalo, with pulleys, complete, pairs.	(e)	.....	1 per lettered battery, battalion, and regimental headquarters; 2 per brig- ade headquarters.
Groundman's equipment, type TE-23..	2	.....	Per lettered battery, battalion, reg- imental, and brigade headquarters. (Note 14.)
Hammers:			
Claw.....	2	.....	Per lettered battery, battalion, reg- imental, and brigade headquarters.
Sledge, 8-pound.....	2	.....	Per battalion, regimental, and brigade headquarters.
Head sets, telephone, high efficiency, with soft rubber ear caps.	(e)	.....	6 per lettered battery, battalion, and regimental headquarters; 12 per brig- ade headquarters.
Hydrometers, Signal Corps, type HY-2.	(e)	.....	1 per battalion; 2 per regimental and brigade headquarters, and battery charging set.

SECTION IX—Communication equipment—Continued.

(Signal Corps)—Continued.

Articles of equipment	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Insulators, wooden knobs.....	(e)		1,000 per lettered battery; 2,000 per battalion, regimental, and brigade headquarters.
Kits:			
Flag, combination.....	6		Per battalion, regimental, and brigade headquarters. Additional to allowance prescribed in Table III, Circular No. 189, War Department, 1921.
Inspector's pocket.....	(e)		1 per wire truck and radio set; 4 per lettered battery, battalion, regimental, and brigade headquarters. (Note 15.)
Soldering.....	1		Per lettered battery, battalion, regimental, and brigade headquarters. (Note 16.)
Lineman's equipment, type TE-21.....	2		Per lettered battery, battalion, regimental, and brigade headquarters. (Note 17.)
Marlin.....	(e)		5 pounds per lettered battery, battalion, and regimental headquarters; 10 pounds per brigade headquarters.
Megaphones.....	2		Per gun battery and searchlight battery.
Nails, 20d, pounds.....	20		Per lettered battery, battalion, regimental, and brigade headquarters.
Pliers:			
Diagonal cutting, 5-inch.....	2		Do.
Long oval nose, 5-inch.....	2		Do.
Reel carts, pack type, RL-16.....	(e)		2 per lettered battery and battalion headquarters; 3 per regimental headquarters; 4 per brigade headquarters. (Note 18.)
Reels, pay-out.....	2		Per regimental and brigade headquarters.
Rods, ground, type GP-16.....	2		Per switchboard.
Saws, hand, crosscut, 26-inch, 8-point.....	1		Per lettered battery, battalion, regimental, and brigade headquarters.
Screw driver, cabinet type.....	1		Per switchboard.
Set:			
Battery charging, 1½ kw., or type SCR-82 French, complete.....	1		Per regimental and brigade headquarters. (Note 19.)
Buzzer instruction, type EE-14.....		1	Per battalion, regimental, and brigade headquarters. (Note 20.)
Monocord operator, type EE-64.....	1		Per each monocord switchboard. (Note 21.)
Radio telegraph, and telephone, type SCR-136, or SCR-109.....	1		Per battalion and regimental headquarters. (Note 22.)
Radio telegraph and telephone, type SCR-132.....	1		Per regimental and brigade headquarters. (Note 23.)
Test, universal, type EE-65.....	1		Per battalion, regimental, and brigade headquarters. (Note 24.)
Shovels, short-handed, round point.....	2		Per lettered battery, battalion, regimental and brigade headquarters.
Staples, Blake insulated No. 5, gross.....	(e)		2 per lettered battery; 4 per battalion, regimental and brigade headquarters.
Strips, terminal 5 pair.....	(e)		4 per lettered battery, and battalion headquarters; 8 per regimental and brigade headquarters.
Switchboards, Signal Corps:			
Type BD-9 (4-line).....	(e)		4 per gun battery and searchlight battery; 3 per machine gun battery; 1 per battalion and regimental headquarters.
Type BD-11 (12-line).....	(e)		1 per searchlight battery and battalion headquarters; 2 per regimental and brigade headquarters.
Switchboard units, type EE-2.....	2		Per lettered battery, battalion, regimental and brigade headquarters.

SECTION IX—Communication equipment—Continued.

(Signal Corps)—Continued.

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Tape:			
Friction, pounds.....	(e)	.....	• 5 pounds per lettered battery; 10 pounds per battalion, regimental and brigade headquarters; 1 pound per radio set and switchboard.
Rubber, pounds.....	(e)	.....	• 2½ pounds per lettered battery; 5 pounds per battalion, regimental and brigade headquarters; ½ pound per radio set and switchboard.
Telephones, type EE-5.....	(e)	.....	• 12 per gun battery, searchlight battery and brigade headquarters; 6 per machine gun battery, battalion and regimental headquarters.
Voltammeter, battery, 0-35 amperes; 0-11 volts.	1	.....	Per lettered battery, battalion and regimental headquarters.
Wire:			
Field, twisted pair, miles.....	(e)	.....	• 5 per lettered battery; 10 per battalion; 15 per regimental headquarters; 35 per brigade headquarters.
Outpost, twisted pair, miles.....	2	.....	Per lettered battery, battalion and regimental headquarters; 5 per brigade headquarters.

SECTION X.—Transportation.

Branch.	Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Q	Ambulances, motor.....	2	.....	Per regiment. (Note A.)
Q	Cars, motor, 5-passenger.....	(e)	.....	• 1 per battery battalion, and regimental headquarters; 2 per brigade headquarters. (Note A.)
Q	Cars, reconnaissance.....	1	.....	Per brigade headquarters. (Note A.)
Q	Motorcycles with side cars.....	(e)	.....	• 2 per headquarters, machine-gun battalion; 4 per machine-gun battery; 5 per searchlight battery; and brigade headquarters; 6 per gun battery, service battery, and regimental headquarters; 7 per headquarters, gun battalion. (Note A.)
Q	Spare parts for motor cars, motor cycles, trucks, and trailers, set.	1	.....	Per service battery.
Q	Trailers: Kitchen.....	1	.....	Per battery and combat train. (Note A.)
Q	Tank, water, 180 gallons.....	1	.....	Do.

SECTION X.—Transportation—Continued.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts and camps or stations of a relatively permanent nature.	Remarks.
Q	Trucks: F. W. D., 3-ton; cargo, type "A" body.	(e)	.....	a 1 per 125 rounds of 3-inch antiaircraft-gun ammunition, complete; 1 per 200 rounds 75 mm. antiaircraft-gun ammunition complete; 1 per machine gun, accessory equipment, ammunition, and operating personnel; 1 spare for each 10 trucks (issued to service battery); 1 per each 30 men not otherwise carried. (In figuring seats for men the following assignments are considered the maximum permissible: 2 men per motor cycle and side car; per artillery supply trucks; per tank truck; per 4-ton truck, 5 men per motor car, 5-passenger, 8 men per equipment, ration, baggage, and radio truck, 11 men per reconnaissance car. 30 men per empty 3-ton truck); 1 per lettered battery for wire and reels; 2 per battalion and regimental headquarters for wire and reels; 2 per battalion, and regimental headquarters, for equipment, baggage and rations; 2 per battery, for equipment, baggage and rations. (Note A.)
O	F. W. D., 3-ton, artillery supply; load A.	1	.....	Per gun battery. (Note A.)
Q	Light repair.....	1	.....	Per battalion. (Note A.)
S	Radio divisional.....	1	.....	Per regimental and brigade headquarters. (Note A.)
Q	Cargo, 1-ton.....	1	.....	Per battery, battalion, regimental, and brigade headquarters. (Note A.)
Q	Tank, 750 gallons.....	(e)	.....	a 1 per searchlight battery; 2 per service battery. (Note A.)

SECTION XI.—Notes.

NOTE A.

Standard equipment according to the most recent specifications of the particular supply department and as described in the latest edition handbook or pamphlet for that article, its accessories and spare parts.

NOTE 1.—SERVICE AMMUNITION FOR SMALL ARMS AND MACHINE GUNS.

Pistol ammunition, cal. .45.

	Carried—	
	On person.	In combat train.
Per pistol.....	21	21

NOTE 1.—SERVICE AMMUNITION FOR SMALL ARMS AND MACHINE GUNS—Continued.

Automatic rifle ammunition, cal. .37.

	Carried—	
	With rifle.	In combat train.
Per automatic rifle, rounds.....	440	2,000

Machine-gun ammunition.

	Carried—	
	With gun.	In combat train.
Per machine gun, rounds.....	6,000	10,000
Includes—		
Tracer.....	600	1,000
Armor-piercing.....	600	1,000
Ordinary.....	4,800	8,000

NOTE 2.—BOX, SPARE PARTS, FOR MACHINE GUN.

(Complete with contents.)

Number.		Number.
1	Accelerator.....	1
1	Bolt (assembled).....	1
2	Disks, buffer.....	1
1	Ejector.....	1
1	Extension, barrel (assembled).....	1
1	Extractor (assembled).....	2
1	Handle, bolt.....	1
1	Hider, flash (assembled).....	1
1	Lever, belt feed.....	1
3	Packing, asbestos, yards (for front and rear packing).....	1
2	Pins: Belt-holding pawl, split.....	1
2	Breech lock.....	12
3	Ejector.....	3
2	Firing-pin spring.....	1
1	Pin, firing (assembled).....	1
1	Pin, trigger.....	1
1	Pivot, belt feed lever (assembled).....	1
2	Plug, water (assembled).....	1
1	Sear.....	1
1	Slide, belt feed.....	1
2	Springs, barrel-locking.....	1
	Spring:	
	Barrel plunger.....	1
	Belt-holding pawl.....	1
	Cover extractor.....	1
	Driving.....	1
	Trigger pin.....	1
	Springs:	
	Lock, for pins.....	12
	Sear, assembled.....	3
	Trigger.....	1

(Accessories and tools contained in above cases.)

1	Brush, chamber cleaning, for machine gun.....	2
1	Can, oil.....	1
1	Cup, filling (assembled).....	1
	Drift:	
1	Large.....	1
1	Medium.....	1
1	Small.....	1
2	Envelopes, fabric, spare parts.....	1
	Extractors, defective shell.....	1
	Pliers, Bernard, 5-inch, side cutting, pair.....	1
	Fabric:	
	Spare parts, roll.....	1
	Tool, roll.....	1
	Tin, small parts.....	1
	Tool, combination.....	1

NOTE 3.—SEARCHLIGHT UNIT, MOBILE, CADILLAC.

- 1 power unit, searchlight, mobile, Cadillac, complete consisting of:
- 1 ea. body, special.
 - 1 set bows with side strips.
 - 1 ea. box, tool, with padlock.
 - 1 ea. cabinet, switchboard, with switchboard and instruments.
 - 300 feet cable, duplex, with cable plug.
 - 1 ea. chassis, Cadillac, model 57.
 - 1 ea. cover, canvas.
 - 1 ea. crank, cable reel.
 - 1 set curtains, front and side.
 - 1 ea. generator, 15 kw., D. C.
 - 1 ea. governor, motor, with connections and canvas cover.
 - 1 set handles for training control.
 - 2 ea. reels, cable.
 - 1 ea. seat, front, with back and cushions.
 - 1 ea. seat, rear, with back and cushions.
 - 1 ea. tank, gasoline, 10 gallons, auxiliary.
 - 1 ea. tire, spare, etc.
 - 2 ea. tubes, lamp carrying, with closing devices.
 - 1 ea. tube, tool carrying, with padlock.
- 1 set spare parts and supplies for power unit, searchlight, mobile, Cadillac, consisting of:
- 6 ea. brushes, generator, with shunts and clips.
 - 2 ea. caps, valve.
 - 2 ea. fuses, 1.8 ampere.
 - 2 ea. fuses, 30 ampere.
 - 1 can grease, medium cup.
 - 1 ea. kit, tire repair.
 - 4 sheets paper, sand, No. 00.
 - 1 box pins, cotter, assorted.
 - 4 ea. plugs, spark.
 - 25 feet rope, $\frac{3}{4}$ -inch manila.
 - 6 ea. springs, brush holder.
 - 2 rolls tape, friction, $\frac{1}{2}$ pound.
 - 2 ea. tubes, inner, 35 by 5 inches.
 - 1 spool wire, soft iron, No. 30.
- 1 set tools for power unit, searchlight, mobile, Cadillac, consisting of:
- 1 ea. bag, tool, large.
 - 1 ea. bag, tool, small.
 - 1 ea. bar, pinch.
 - 1 ea. bucket, canvas, collapsible.
 - 1 ea. chart.
 - 1 ea. chisel, 6-inch, cold.
 - 1 ea. crank, starting.
 - 1 ea. extingulaber, fire, Pyrens with bracket.
 - 1 ea. file and handle, 6-inch.
 - 1 ea. gasket, spark plug.
 - 1 ea. gun, oil.
 - 1 ea. filler, gas tank extension, special.
 - 1 ea. Instructions, mobile, searchlight unit.
 - 1 ea. Instructions, Cadillac, care and operation.
 - 1 ea. Instructions, Cadillac, part and price list.
 - 1 ea. hammer, 12-ounce.
 - 1 ea. handle, jack.
 - 1 ea. hose and gauge for tire air pump.
 - 1 ea. jack, auto.
 - 1 ea. lamp, handy.
 - 2 ea. lanterns, oil.
 - 1 ea. pick, with handle.
 - 1 ea. pliers, combination, 6-inch.
 - 1 ea. plug, spark.
- 1 set tools for power unit, searchlight, mobile, Cadillac, consisting of—Continued.
- 1 ea. punch, octagonal.
 - 1 ea. pump, tire, hand.
 - 1 ea. screw driver, large.
 - 1 ea. screw driver, small.
 - 1 ea. shovel.
 - 1 pair tongs for Kelsey universal demountable rim.
 - 2 ea. wrench, adjusting outside brakes.
 - 1 ea. wrench, bicycle.
 - 1 ea. wrench, brace and socket, for Kelsey universal demountable rim.
 - 1 ea. wrench, distributor, with gauges.
 - 1 ea. wrench, governor, adjusting.
 - 1 ea. wrench, headless set screw.
 - 1 ea. wrench, hub cap.
 - 1 ea. wrench, monkey.
 - 1 ea. wrench, plain, for distributor.
 - 1 ea. wrench, spark plug and air cock.
 - 1 ea. wrench, water pump.
- 1 searchlight, mobile, open type, 60-inch, Sperry, complete, consisting of:
- 1 ea. casting, extension, for lamp.
 - 1 ea. chassis, assembled.
 - 1 ea. control, training, with canvas cover.
 - 2 ea. finders, G. E., with attaching screws.
 - 2 ea. finders, Sperry, slotted, with wing nuts and screws.
 - 1 ea. lamp, open type, medium intensity, Sperry.
 - 1 ea. lamp, open type, high intensity, Sperry.
 - 1 ea. mirror, open type, 60-inch, glass silvered.
 - 1 ea. tarpaulin, searchlight, cover.
 - 4 ea. wheels, rubber-tired.
- 1 set parts and supplies for searchlight, mobile, open type, 60-inch, Sperry, consisting of:
- 1 bottle alcohol and water, precipitate of chalk, pint.
 - 3 ea. bushings, positive tip, H. I.
 - 3 ea. bushings, positive tip, M. I.
 - 1 box cotton, absorbent, $\frac{1}{2}$ pound.
 - 50 pairs carbons, H. I., positive and negative.
 - 50 pairs carbons, M. I., positive and negative.
 - 2 ea. finder, pinhole.
 - 2 pairs goggles.
 - 1 ea. head, positive, H. I., assembled complete.
 - 1 ea. head, positive, M. I., assembled complete.
 - 1 set insulations, lamp mounting, 4 washers, 4 bushings, and 1 ring.
 - 2 sets insulations, negative carbon.
 - 2 sets insulations, positive carbon feed.
 - 2 ea. insulations, positive, H. I.
 - 3 ea. insulations, positive, M. I.
 - 1 set insulations, stray light.
 - 1 ea. knob, striker, negative.
 - 8 ea. leads.
 - 4 ea. nuts, wing.
 - 1 sheet paper, crocus.
 - 24 ea. screws, round-head, No. 14.
 - 12 ea. screws.
 - 2 ea. screws, thumb.
 - 1 ea. skin, chamols.
 - 1 ea. socket, carbon, negative, M. I.
 - 1 ea. socket, carbon, positive, M. I.

NOTE 3.—SEARCHLIGHT UNIT, MOBILE, CADILLAC—Continued.

- 1 set parts and supplies for searchlight, mobile, open type, 60-inch, Sperry, consisting of—Con.
 - 1 ea. socket, carbon, negative, H. I.
 - 1 ea. socket, carbon, positive, H. I.
 - 4 ea. springs, positive head brush, H. I.
 - 12 ea. washers.
- 1 set of tools for 60-inch open type searchlight, as follows:
 - 1 ea. board, observing.
 - 1 ea. chisel, $\frac{1}{2}$ -inch, cold.
 - 1 ea. file, 8-inch, half round (medium) with handle.
 - 1 ea. hammer, 1-pound, ball pen.
 - 1 ea. pliers, side cutting, 6-inch.
 - 1 ea. pliers, gas, 8-inch.
 - 1 ea. rasp, 8-inch, half round with handle.
 - 1 ea. screw driver, 6-inch.

- 1 set of tools for 60-inch open type searchlight, as follows—Continued.
 - 1 ea. screw driver, 10-inch, square shank.
 - 1 pair tongs, carbon.
 - 1 ea. wrench, double head, open end, $1\frac{1}{8}$ and $\frac{3}{4}$ inch.
 - 1 ea. wrench, double head, open end, $1\frac{1}{2}$ by $\frac{3}{4}$ inch.
 - 1 ea. wrench, double head, open end, $\frac{3}{4}$ by $1\frac{1}{8}$ inches.
 - 1 ea. wrench, double head, open end, $1\frac{1}{4}$ by $1\frac{1}{2}$ inches.
 - 1 ea. wrench, hexagonal box, for nut on turntable pin.
 - 1 ea. wrench, monkey, 6-inch.
 - 1 ea. wrench, monkey, 12-inch.

SEARCHLIGHT UNIT, MOBILE, MACK.

- 1 ea. power unit, searchlight, mobile, Mack, consisting of:
 - 1 ea. body, special.
 - 1 set bows.
 - 3 ea. boxes, tool, with padlocks.
 - 1 ea. cabinet, switchboard, with switchboard and instruments.
 - 400 feet cable, duplex, No. 1.
 - 1 ea. chassis, $5\frac{1}{2}$ -ton, Mack, assembled.
 - 1 ea. cover, canvas.
 - 1 set curtains, front, side, and rear.
 - 2 ea. cushions, seat.
 - 1 ea. cushions, back.
 - 1 ea. generator, 15 kw., D. C.
 - 1 ea. governor, for motor.
 - 1 ea. radiator, extra.
 - 1 ea. reel, cable.
 - 1 ea. rheostat.
- 1 set parts and supplies, spare, for power unit, searchlight, mobile, Mack, consisting of:
 - 1 ea. bar, magneto breaker, complete with platinum.
 - 2 ea. bearing, connecting rod (lower).
 - 2 ea. bearing, connecting rod (upper).
 - 1 ea. belt, fan, and fastener, assembly.
 - 1 ea. bracket, fire extinguisher.
 - 1 ea. bracket, magneto contact screw, complete with platinum.
 - 6 ea. brush, magneto carbon, and spring.
 - 1 roll cable, $\frac{1}{2}$ -inch galvanized iron, 2-pound.
 - 1 ea. cap, gasoline tank.
 - 3 ea. clamp, hose, 2, 2 $\frac{1}{2}$, and 2 $\frac{3}{4}$ inch.
 - 12 ea. cloth, emery, 6 sheets No. 00 and No. 1.
 - 1 ea. condenser, magneto.
 - 1 ea. connection, carburetor and gas tube.
 - 1 ea. connection, gas tank and tube.
 - 1 ea. extinguisher, fire.
 - 1 ea. float, carburetor.
 - 2 ea. gasket, cylinder water cover.
 - 2 ea. gasket, exhaust manifold flange.
 - 2 ea. gasket, flange, carburetor.
 - 8 ea. gasket, exhaust manifold cylinder.
 - 2 ea. gasket, float chamber, carburetor.
 - 4 ea. gasket, inlet manifold.
 - 8 ea. gasket, valve cap.

- 1 set parts and supplies, spare, for power unit, searchlight, mobile, Mack, consisting of—Con.
 - 1 can grease.
 - 4 ea. hose, water, assorted.
 - 1 can kerosene, sealed, quart.
 - 12 ea. keys, flat, assorted.
 - 8 ea. link, master, 2-inch pitch.
 - 8 ea. link, roller, 2-inch pitch.
 - 8 ea. link, offset, 2-inch pitch.
 - 100 ea. lock washers, assorted.
 - 2 ea. needle, carburetor, float.
 - 3 ea. nozzle, carburetor, auxiliary, 3 sizes.
 - 3 ea. nozzle, carburetor, priming, 3 sizes.
 - 50 ea. nuts, assorted, S. A. E. plain hexagonal.
 - 50 ea. nuts, assorted, U. S. S. plain hexagonal.
 - 1 ea. nuts, carburetor, high speed adjusting.
 - 1 ea. nuts, carburetor, low speed adjusting.
 - 2 ea. nuts, valve-lifter screw.
 - 2 cans oil.
 - 1 ea. packing, water pump.
 - 1 bag pins, cotter, assorted.
 - 8 ea. pins, valve spring.
 - 4 ea. plugs, spark, standard S. A. E. $\frac{7}{8}$ -inch, 18-thread.
 - 1 ea. plunger and spring, carburetor, high speed lock.
 - 1 ea. plunger and spring, carburetor, low speed lock.
 - 100 feet rope, manila, $\frac{3}{8}$ -inch.
 - 50 ea. screws, assorted S.A.E. hexagonal head cap.
 - 50 ea. screws, assorted U. S. S. hexagonal head cap.
 - 1 ea. screws, plunger, carburetor, high speed lock.
 - 2 ea. screws, valve lifter.
 - 1 ea. seat, carburetor, needle valve.
 - 2 ea. spring, bumper, carburetor.
 - 1 ea. spring, carburetor, high speed.
 - 1 ea. spring, carburetor, low speed.
 - 2 ea. spring, valve.
 - 1 ea. stem, carburetor, throttle lever.
 - 2 rolls tape, friction, $\frac{1}{2}$ -inch.
 - 1 ea. valve, exhaust.
 - 1 ea. valve inlet.

NOTE 3.—SEARCHLIGHT UNIT, MOBILE, CADILLAC—Continued.

SEARCHLIGHT UNIT, MOBILE, MACK—Continued.

1 set parts and supplies, spare, for power unit, searchlight, mobile, Mack, consisting of—Contd.

- 2 ea. washers, valve spring.
 - 1 spool wire, iron, $\frac{1}{2}$ pound No. 16.
 - 1 spool wire, iron, $\frac{1}{2}$ pound No. 18.
 - 4 ea. wire, spark plug, No. 1, 2, 3, and 4.
 - 1 ea. wire, switch and magneto.
- 1 set tools for power unit, searchlight, mobile, Mack, consisting of:
- 1 ea. ax, with handle.
 - 1 ea. bar, jack.
 - 12 ea. blades, 10-inch medium cut hack saw.
 - 1 ea. brush, file, wire bristle.
 - 2 ea. cans, oil.
 - 1 set chains, skid, rear wheels, complete.
 - 1 ea. chain, 18-foot towing, with grip hooks.
 - 1 ea. chain, valve, lifter.
 - 1 ea. chisel, $\frac{1}{2}$ -inch cape, 15 inches long.
 - 1 ea. chisel, $\frac{1}{2}$ -inch cape, 15 inches long.
 - 1 ea. chisel, $\frac{1}{2}$ -inch cape, standard.
 - 1 ea. chisel, cold, $\frac{1}{2}$ -inch.
 - 1 ea. chisel, cold, $\frac{1}{2}$ -inch.
 - 1 ea. diagram, magneto oiling instructions.
 - 1 ea. diagram, motor oil.
 - 1 ea. diagram, oil.
 - 1 ea. file, flat single cut mill, 6-inch.
 - 1 ea. file, flat single cut mill, 10-inch.
 - 1 ea. file, half round bastard, 10-inch.
 - 1 ea. file, mill bastard, 10-inch.
 - 1 ea. frame, adjustable, hack saw, 10-inch.
 - 1 ea. gun, grease.
 - 1 ea. hammer, 2-pound, ball pein.
 - 1 ea. hammer, 16-ounce, ball pein.
 - 2 ea. handle, file, large.
 - 2 ea. handle, file, small.
 - 1 ea. instructions, care of Timken bearings.
 - 1 ea. instructions, carburetor.
 - 1 ea. instructions, catalogue book.
 - 1 ea. instructions, clutch.
 - 1 ea. instructions, magneto.
 - 1 ea. instructions, Spicer, universal joint.
 - 1 ea. jack, 5-ton.
 - 1 ea. key, switch.
 - 1 ea. lamp, 8-inch flash, complete.
 - 1 ea. pick with handle.
 - 1 ea. pliers, 6-inch combination.
 - 1 ea. pliers, 7-inch, gas.
 - 1 ea. pliers, 8-inch, long round nose flat jaw.
 - 1 ea. puller, cotter-pin.
 - 1 ea. punch, solid, 5-inch, $\frac{1}{4}$ -inch point.
 - 1 ea. punch, solid, 15-inch, $\frac{1}{2}$ -inch point.
 - 1 ea. screw driver, 3-inch.
 - 1 ea. screw driver, 6-inch.
 - 1 ea. screw driver, 10-inch, square shank.
 - 1 ea. screw driver, $\frac{1}{2}$ -inch, offset.
 - 1 ea. screw driver, magneto.
 - 1 ea. shovel, short handle, round point.
 - 1 ea. tool roll, canvas.
 - 1 ea. wrench, No. 97, black finish.
 - 1 ea. wrench, double-head, $\frac{1}{2}$ by $\frac{1}{2}$ inch.
 - 1 ea. wrench, double-head, $\frac{1}{2}$ by $\frac{1}{2}$ inch.
 - 1 ea. wrench, double-head, $\frac{1}{2}$ by $\frac{1}{2}$ inch.
 - 1 ea. wrench, double-head, $\frac{1}{2}$ by $\frac{1}{2}$ inch.

1 set tools for power unit, searchlight, mobile, Mack, consisting of—Continued.

- 1 ea. wrench, Eng., $1\frac{1}{4}$ by $1\frac{1}{2}$ inches.
 - 1 ea. wrench, Eng., $1\frac{1}{4}$ by $1\frac{1}{2}$ inches.
 - 1 ea. wrench, Eng., $1\frac{1}{4}$ by $2\frac{1}{2}$ inches.
 - 1 ea. wrench, front wheel.
 - 1 ea. wrench, iron handle, 12-inch.
 - 1 ea. wrench, rear wheel.
 - 1 ea. wrench, S, $\frac{1}{4}$ by $\frac{1}{2}$ inch.
 - 1 ea. wrench, S, $\frac{1}{4}$ by $\frac{1}{2}$ inch.
 - 1 ea. wrench, S, $\frac{3}{4}$ by $\frac{1}{2}$ inch.
 - 1 ea. wrench, S, $\frac{1}{2}$ by 1 inch.
 - 1 ea. wrench, spark plug.
 - 1 ea. wrench, Stillson, 6-inch.
 - 1 ea. wrench, Stillson, 10-inch.
 - 1 ea. wrench, Stillson, 14-inch.
 - 1 ea. wrench, S handle, adjustable, 6-inch.
 - 1 ea. wrench, straight handle, adjustable, 4-inch, 22 $\frac{1}{2}$ degree.
 - 1 ea. wrench, straight handle, adjustable, 6-inch, 22 $\frac{1}{2}$ degree.
 - 1 ea. wrench, straight handle, adjustable, 10-inch, 22 $\frac{1}{2}$ degree.
- 1 set wrench, socket, standard, with extension bar, universal joint, and ratchet handle, 31 sockets to set.
- 1 searchlight, mobile, barrel type, 36-inch, consisting of:
- 1 ea. box, instrument, with thermostat, on drum.
 - 1 ea. chassis, assembled.
 - 1 ea. cover, canvas for searchlight.
 - 1 ea. drum, with glass front door, ventilating hood and fan motor.
 - 1 ea. lamp, 36-inch H. I., Sperry, with control box.
 - 1 ea. mirror, 36-inch, glass, silvered.
 - 1 ea. switchboard, with instruments, on chassis.
 - 4 ea. wheels, rubber tired.
- 1 set tools for searchlight, mobile, barrel type, 36-inch, complete, consisting of:
- 1 ea. brush, dust, large.
 - 1 ea. can, oil, long spout.
 - 1 ea. glass, observing, in board.
 - 2 pairs goggles.
 - 1 ea. hammer, machinist, $\frac{1}{2}$ -pound, ball pein.
 - 1 ea. handle, focusing screw.
 - 1 ea. lamp, hand portable, with attachment plug and 25 feet No. 16 lamp cord.
 - 1 ea. pliers, 6-inch, long nose chain.
 - 1 ea. pliers, 8-inch, combination, side cutting.
 - 1 ea. pliers, 6-inch, side cutting.
 - 1 ea. punch, pin, $\frac{1}{4}$ inch diameter.
 - 1 ea. rasp, 8-inch, half round.
 - 1 ea. screw driver, $1\frac{1}{2}$ -inch.
 - 1 ea. screw driver, 8-inch, cabinet.
 - 1 ea. screw driver, $4\frac{1}{2}$ -inch.
 - 1 pair tongs, carbon.
 - 1 ea. wrench, bicycle, 6-inch.
 - 1 ea. wrench, monkey, 6-inch.
 - 1 ea. wrench, open end, $\frac{1}{2}$ inch opening.
 - 1 ea. wrench, open end, $\frac{1}{4}$ inch opening.
 - 1 ea. wrench, pawl.

NOTE 3.—SEARCHLIGHT UNIT, MOBILE, CADILLAC—Continued.

SEARCHLIGHT UNIT, MOBILE, MACK—Continued.

1 set spare parts and supplies, complete for searchlight, mobile, barrel type, 36-inch Sperry, consisting of:

- 2 sets brushes, lamp motor (2 per set).
- 10 ea. bushing, quartz, positive head.
- 10 ea. caps, front, positive head.
- 50 pairs carbons, H. I.
- 1 ea. glass, ground, for finder.
- 1 ea. graphite, compound, 1/2-pound can.
- 1 ea. head, negative, upper half.
- 1 ea. head, negative, lower half.
- 1 set insulation, for lamp, as follows:
 - 6 bushings, insulating, positive head.
 - 4 bushings, insulating, negative head.
 - 1 bushing, insulating, air duct.
 - 2 bushings, cable insulating, large.
 - 3 bushings, cable insulating, small.
 - 1 bushing, insulating, thermostat magnet armature bearing screw.
- 2 clamps, wire insulating, drilled holes.
- 2 clamps, wire insulating, tapped holes.
- 1 clamp, thermostat magnet wire.
- 1 coupling, insulating, complete, with hole.
- 1 coupling, insulating, complete, with slot.
- 1 insulator, mica, negative head, ash pan.
- 1 insulator, mica, positive head, ash pan.
- 2 washers, mica, insulating, thermostat magnet armature bearing screw.
- 10 washers, insulating, negative and positive.

1 set spare parts and supplies, complete for searchlight, mobile, barrel type, 36-inch Sperry, consisting of—Continued.

- 1 sheet paper, crocus, 000.
- 1 ea. plate, insulating, positive head.
- 1 ea. plate, insulating, negative head.
- 2 ea. roller, carbon, large, positive head.
- 2 ea. roller, carbon, small, negative head.
- 1 ea. skin, chamois.
- 1 set springs, lamp, as follows:
 - 1 spring, balance, volt reg.
 - 2 springs, brush, positive head.
 - 3 springs, cap, positive head.
 - 1 spring, carbon roller bracket, positive head.
 - 1 spring, carbon roller bracket, negative head.
 - 1 spring, centralizing volt, reg., long.
 - 1 spring, centralizing volt, reg., short.
 - 1 spring, cone with cone attached, volt, reg.
 - 1 spring, contact compression, negative head.
 - 1 spring, lever shaft, terminal magnet.
 - 1 spring, lock pin.
 - 1 spring, star wheel feed shaft, positive head.
 - 2 springs, stop pin.
 - 2 springs, upper pawl.
- 10 ea. washers, asbestos, large hole.
- 10 ea. washers, asbestos, small hole.

NOTE 4.—DRAFTING EQUIPMENT, COMPANY.

	Number.
Board, drawing, 23 by 31 inches, with trestle..	1
Books, record, I. P. No. 103, with fillers and indexes.....	3
Chest, drafting, company, engineer.....	1
Eraser, steel.....	1
Instruments, drawing, office set.....	1
Measurer, map.....	1
Protractor, G. S., semicircular, 6-inch.....	1
Scales:	
Architect's, triangular, 12-inch, with sheath	1
Engineer's, triangular, 12-inch, with sheath.	1
Map, metric, flat, 30 cm. graduated 1/20,000, and 1/50,000, with sheath.....	1
Shield, erasing.....	1
Slab, ink, slate, rectangular, 5 1/2 by 2 inches, with plate-glass top.....	1
T-square, steel, 24-inch, with protractor head..	1
Triangles, xylonite, transparent:	
30°-60°, 10-inch.....	1
45°-8-inch.....	1
Tubes, tin, 39 inches long by 4 inches diameter..	3
<i>Supplies.</i>	
Cloth, tracing, 30-inch, 24-yard roll.....	1
Erasers:	
Rubber, pencil.....	2
Rubber, ink.....	1

Supplies—Continued.

	Number.
Fillers, book, I. P. No. 103, sets of 50 sheets....	6
Ink:	
Drawing, black, 1/2-ounce bottles.....	2
Drawing, blue, 1/2-ounce bottle.....	1
Drawing, carmine, 1/2-ounce bottle.....	1
India, stick.....	1
Pads:	
Pencil pointing, 1 1/4 by 4 inches.....	1
Scratch, 6 by 9 inches.....	2
Paper:	
Blotting, 3 3/4 by 9 1/2 inches, dozen.....	1
Drawing, sheets, 22 by 30 inches, gross.....	1
Profile, tracing, 29-inch, 50-yard roll.....	1
Pencils:	
Drawing, H.....	6
Drawing, 3H.....	6
Drawing, 5H.....	6
Pens:	
Crow-quill, dozen, on card, with holder....	1
Drawing, 5 points assorted, gross.....	1
Mapping, dozen, on card, with holder.....	1
Pins, cone.....	1
Tacks, thumb, gross.....	2
Tape, adhesive, transparent, 3/8 inch by 12 yard rolls.....	2
Twine, hemp, 2-ounce ball.....	1

NOTE 5.—DRAFTING EQUIPMENT, BATTALION.

	Number.
Board, drawing, 31 by 42 inches, with trestles...	1
Books, record, I. P. No. 103, with fillers and indexes.....	3
Chest A, drafting, regimental, engr.....	1
Crate C, drafting, regimental, engr.....	1
Dividers, proportional, 8½-inch, with case.....	1
Erasers, steel.....	1
Instruments, drawing, office sets.....	1
Measurers, map.....	1
Protractors, G. S. semicircular, 8 inches, with arm, in case.....	1
Rules, slide, Mannheim, 16-inch, with case.....	1
Scales:	
Architect's, triangular, 12-inch, with sheath	1
Engineer's, triangular, 12-inch, with sheath.	1
Map, metric, flat, 30 cm., one graduated 1/20,000 and 1/50,000, the other 1/10,000 and 1/50,000.....	1
Shields, erasing.....	1
Slab, ink, slate, rectangular, 5½ by 2 inches, with plate-glass top.....	1
T-squares, steel, 42-inch, with protractor head..	1
Tables, logarithm, 7-place.....	1
Triangles, xylonite, transparent:	
30°-60°, 10-inch.....	1
45°, 8-inch.....	1
Tubes, tin, 39 inches long by 4 inches diameter..	4
<i>Supplies.</i>	
Cloth, tracing, 30-inch, 24-yard roll.....	1
Erasers:	
Rubber, pencil.....	2
Rubber, ink.....	1

<i>Supplies—Continued.</i>		Number.
Fillers, book, I. P. No. 103, sets of 50 sheets....		6
Ink:		
Drawing, black, ¼-ounce bottles.....		2
Drawing, blue, ¼-ounce bottle.....		1
Drawing, brown, ¼-ounce bottle.....		1
Drawing, carmine, ¼-ounce bottle.....		1
India, stick.....		1
Pads:		
Pencil pointing, 1½ by 4 inches.....		1
Scratch, 6 by 9 inches.....		4
Paper:		
Blotting, 3½ by 9½ inches, dozen.....		1
Cross section, drawing, 20 inches wide, ruled in green, 10 by 10 to 1 inch, 10-yard roll.....		1
Drawing, 30-inch, 30-yard roll.....		1
Tracing, 30-inch, 10-yard roll.....		1
Wrapping, 40 by 48 inches, dozen.....		2
Paste, library, 8-ounce jar.....		1
Pencils:		
Drawing, H.....		6
Drawing, 3H.....		6
Drawing, 5H.....		6
Pens:		
Crow-quill, dozen, on card, with holder....		1
Drawing, 5 points, assorted, gross.....		1
Mapping, dozen, on card, with holder.....		1
Pins, cone.....		1
Tacks, thumb, gross.....		3
Tape, adhesive, transparent, ¼-inch by 12-yard rolls.....		2
Twine, hemp, 2-ounce ball.....		1

NOTE 6.—DRAFTING EQUIPMENT, REGIMENTAL.

	Number.
Boards, drawing, 31 by 42 inches, with trestles.	2
Books, record, I. P. No. 103, with fillers and indexes.....	6
Chest A, drafting, regimental, engr.....	1
Chest B, drafting, regimental, engr.....	1
Crate C, drafting, regimental, engr.....	1
Dividers, proportional, 8½-inch, with case.....	2
Erasers, steel.....	2
Instruments, drawing, office sets.....	2
Measurers, map.....	2
Pantograph, hollow brass bars, 28-inch, with case.....	1
Protractors, G. S. semicircular, 8 inches, with arm, in case.....	2
Rules, slide, Mannheim, 16-inch, with case....	2
Scales:	
Architect's, triangular, 12-inch, with sheath.	2
Engineer's, triangular, 12-inch, with sheath.	2
Map, metric, flat, 30 cm., one graduated 1/20,000 and 1/50,000, the other 1/10,000 and 1/50,000.....	2
Shields, erasing.....	2
Slab, ink, slate, rectangular, 5½ by 2 inches with plate-glass top.....	1
T-squares, steel, 42-inch, with protractor head.	2
Tables, logarithm, 7-place.....	1
Triangles, xylonite, transparent:	
30°-60°, 10-inch.....	2
45°, 8-inch.....	2
Tubes, tin, 39 inches long by 4 inches diameter.	4
<i>Supplies.</i>	
Cloth, tracing, 30-inch, 24-yard roll.....	2

<i>Supplies—Continued.</i>		Number.
Erasers:		
Rubber, pencil.....		4
Rubber, ink.....		2
Fillers, book, I. P. No. 103, sets of 50 sheets....		12
Ink:		
Drawing, black, ¼-ounce bottles.....		4
Drawing, blue, ¼-ounce bottles.....		2
Drawing, brown, ¼-ounce bottles.....		2
Drawing, carmine, ¼-ounce bottles.....		2
India, sticks.....		2
Pads:		
Pencil pointing, 1½ by 4 inches.....		2
Scratch, 6 by 9 inches.....		4
Paper:		
Blotting, 3½ by 9½ inches, dozen.....		2
Cross section, drawing, 20 inches wide, ruled in green, 10 by 10 to 1 inch, 10-yard roll.....		1
Drawing, 30-inch, 30-yard roll.....		2
Tracing, 30-inch, 10-yard roll.....		1
Wrapping, 40 by 48 inches, dozen.....		4
Paste, library, 8-ounce jar.....		1
Pencils:		
Drawing, H.....		12
Drawing, 3H.....		12
Drawing, 5H.....		12
Pens:		
Crow-quill, dozen, on card, with holder....		2
Drawing, 5 points, assorted, gross.....		2
Mapping, dozen, on card, with holder....		4
Pins, cone.....		1
Tacks, thumb, gross.....		6
Tape, adhesive, transparent, ¼-inch by 12-yard rolls.....		4
Twine, hemp, 2-ounce balls.....		2

NOTE 7.—DRAFTING SUPPLIES.

(In addition to supplies furnished with drafting equipment, sets.)

<i>Supplies.</i>	<i>Brigade headquarters.</i>
Paper, cross section, tracing, 20-inch, 10-yard roll.....	2
Penholders, writing.....	6
Pins, colored head, map tacks, boxes of 100:	
Black.....	1
Blue.....	1
Brown.....	1
Green.....	1
Red.....	1

NOTE 8.—WATER COLORS, SET.

Japanned tin box containing 12 half pans of the following colors:	Japanned tin box containing 12 half pans of the following colors—Continued.
1. Ivory black.	9. Orange chrome.
2. Mauve.	10. Chrome yellow.
3. Hooker's green, No. 2.	11. Chinese white.
4. Emerald green.	12. Prussian blue.
5. Vandyke brown.	Also the following brushes:
6. Raw umber.	1 No. 2.
7. Crimson lake.	1 No. 4.
8. Vermillion.	1 No. 6.

NOTE 9.—MAP REPRODUCTION EQUIPMENT, CYCLOSTYLE.

<i>Equipment.</i>	<i>Number.</i>	<i>Supplies—Continued.</i>	<i>Number.</i>
Frame, printing, consisting of base, zinc plate, and hinged stretcher frame, 21 by 26 inches..	1	Ink, printer's:	
Frames, stretcher, for silk.....	6	Black, 1-pound tubes.....	5
Rollers, ink, hand, 14-inch.....	2	Blue, 1-pound tubes.....	5
Stylili, tooth-wheeled, ball points.....	4	Green, 1-pound tubes.....	5
		Red, 1-pound tubes.....	5
Supplies.		Yellow, 1-pound tubes.....	5
Celluloid, transparent, 24 by 28 inch sheets....	2	Paper, books, 19 by 24 inches, reams.....	3
		Silk, white, fine mesh, 24 by 28 inch sheets....	6
		Stencils, wax paper, 24 by 28 inch sheets.....	48

NOTE 10.—SKETCHING OUTFIT.

<i>Equipment.</i>	<i>Number.</i>	<i>Supplies.</i>	<i>Number.</i>
Alidade, boxwood.....	1	Celluloid, sheets, 12½ by 13½ inches.....	12
Boards, sketching, with W. P. covers.....	1	Erasers, rubber, pencil.....	4
Chest, sketching outfit.....	1	Paper, sketching, gross.....	½
Clinometer, service, with case.....	1	Pencils:	
Compass, prismatic, with case.....	1	Blue.....	4
Face tally.....	1	Drawing H.....	16
Strap, wrist.....	1	Green.....	4
Tripod, wood, folding.....	1	Red.....	4
		Protectors, pencil point.....	4
		Tape, adhesive, rolls.....	3

NOTE 11.—SUPPLIES, SURVEYING EQUIPMENT.

	Battalion head- quarters.	Regi- mental head- quarters.	Brigade head- quarters.
Books, transit.....	6	6	.....
Celluloid sheets, 20 by 30 inches.....	12	12	12
Crayons, lumber, red, boxes.....	1	1	1
Paper, plane table, 22 by 30 inches, sheets, dozen.....	2	2	2

NOTE 12.—CAMOUFLAGE EQUIPMENT, SETS.

The material required will be issued on special requisition of commanding officer and will depend upon local conditions.

NOTE 13.—BAG, TOOL SERVICE, COMPLETE.

Number.	Screw drivers:	Number.
Try-square, steel, 4-inch blade..... 1	6-inch blade..... 1	
Chisels:	10-inch blade..... 1	
Cold, 1/4-inch..... 1	Solder, resin core, pound..... 1	
Wood, 1/4-inch socket blade, iron, ring-topped handle, Jennings, No. 15..... 1	Wrenches:	
Hammer, claw, bell faced, 16-ounce..... 1	Screw, forged, 6-inch, monkey..... 1	
Holder, tool, and 10 high-grade steel tools..... 1	Socket, for telephone apparatus, 4-inch.... 1	
Knife, electrician's, 2 blades..... 1	Brace, ratchet, 8-inch throw..... 1	
Level, pocket spirit, 3-inch..... 1	Bits, auger, solid center, double cutter extension lips:	
Plane, block, 6-inch, 1 1/4-inch cutter..... 1	1/4-inch..... 1	
Pliers:	3/4-inch..... 1	
Pair, 6-inch, side-cutting..... 1	1/2-inch..... 1	
Pair, 8-inch, side-cutting..... 1	3/8-inch..... 1	
Rule, 4-foot, folding, boxwood, 8 parts..... 1	1-inch..... 1	
Saw, hack, 10-inch..... 1	Polarity indicator..... 1	

NOTE 14.—GROUNDMAN'S EQUIPMENT, TYPE TE-23, SETS.

Number.	Number.
Belts, plain..... 1	Gloves, leather, pair..... 1
Pliers, 8-inch..... 1	

NOTE 15.—KIT, INSPECTOR'S POCKET, COMPLETE.

Number.	Number.
Case, carrying, inspector's pocket kit..... 1	File, half-round bastard, with handle, 3-inch.. 1
Screw driver and skinning knife combined, with safety spring..... 1	Tweezers, 4 1/2-inch, pair..... 1
Scissors, electrician's, 5-inch..... 1	Screw driver, 2-inch..... 1
Pliers, side-cutting, 5-inch..... 1	Rule, 2-foot, four-fold, narrow boxwood..... 1

NOTE 16.—KIT, SOLDERING, COMPLETE.

Number.	Number.
Torch, gasoline, with hook support on burner, pint size..... 1	Sheets of sandpaper, No. 1..... 4
Soldering copper, 1/2-pound, with handle..... 1	Spools of resin core solder, 5 pounds each..... 2
	Oak containing case, 10 1/4 by 8 1/4 by 11 inches.... 1

NOTE 17.—LINEMAN'S EQUIPMENT, TYPE TE-21.

Number.	Number.
Ax, hand, lineman, 4-pound..... 1	Pliers, side-cutting, 8-inch..... 1
Belt, lineman, and safety straps..... 1	Screw driver, 10-inch blade..... 1
Clamp, splicing, combination, 10 1/2-inch..... 1	Wrench, lag, combination, 13 1/4-inch..... 1
Pair or set of climbers, lineman, with straps and pads (not over 16 1/2 inches)..... 1	

NOTE 18.—REEL CART, PACK, TYPE RL-16.

1. This cart was designed for use in the Cavalry and is constructed on the knock-down principle that it may be taken apart to pack on the back of an animal, and its total weight is approximately 105 pounds. When disassembled for packing, it consists of five parts, viz, two wheels, frame, pole, and axle for reel. The wheels are of motorcycle type, are ball bearing, and are equipped with solid rubber tires.

2. The entire cart may be assembled in a few moments without the use of tools, the several parts being provided with tapered sockets and are drawn together by eccentric clamps which hold them very rigidly. This cart will carry two steel spools of the French type, 7 inches wide and 22 inches in diameter, each holding 1 mile of single or one-half mile of twisted pair 11-strand field wire weighing, complete with spools, 112 pounds.

3. The cart with its full load of wire may be easily drawn by two men over ordinary ground, the wire being paid out or picked up as may be desired, a crank provided for picking up the wire being operated by a third man.

4. This equipment packs on the ordnance type aparejo and pack frame, two separate devices being provided for carrying the wheels. These are fastened to the frame by means of the eccentric catch, the same as is used for ammunition carriers of the mountain gun. The reels with wire are carried on separate animals, each animal carrying two reels. The same ordnance type equipment is used for these reels as for the cart, but the hanger for the reel is slightly different than that used for carrying the wheel of the cart.

5. Six empty reels are issued with each cart.

NOTE 19.—SET, BATTERY CHARGING, TYPE SCR-82.

One and one-half kilowatt, 25 and 125 volt, battery charging set, complete, with engine, direct-connected generator, switchboard, and accessories, comprises:

	Number.
Gasoline engine, type GE-2, four-cycle, air-cooled, 1,200 revolutions per minute, 3 horsepower, complete, with coupling, gasoline tank, muffler, piping, etc.....	1
Generator, type GN-9, direct-connected, 25 and 115 volts, 2,000 watts.....	1
Panel, type BD-4, charging, bakelite dielecto, 24 by 18 by $\frac{1}{2}$ inch.....	1
Panel, type BD-5, charging, three-circuit, bakelite dielecto, 24 by 18 by $\frac{1}{2}$ inch.....	1

NOTE 20.—SET, BUZZER INSTRUCTION, TYPE EE-14.

	Number.		Number.
Buzzer.....	1	Head receivers and necessary connecting cords.....	1
Telegraph key.....	1	Jacks.....	1

NOTE 21.—SET, MONOCORD OPERATOR'S, TYPE EE-61.

1. This set has been designed to replace the several types of telephone which have been used as operator's sets in connection with the monocord switchboards, type EE-2. It is contained in a fiber-covered wooden case and provided with adjustable webbing shoulder carrying strap. It is ten (10) inches long, six and three-fourth ($6\frac{3}{4}$) inches wide, and seven and one-eighth ($7\frac{1}{8}$) inches high, and weighs approximately fifteen (15) pounds.

2. The equipment of the set consists of a generator, buzzer, induction coil, single head receiver, adjustable transmitter, buzzer for night alarm, operator's switch and ringing key, two (2) BA-1 batteries with a switch that either may be used, and connection cord and plug. The circuit is so arranged that the operator answers the call by inserting the plug connected to the switchboard unit in the jack of the calling line, and on ascertaining the line desired completes the connection by placing the plug of the calling line in the jack of the desired line and ringing the telephone on that line by operating the generator of the switchboard without the manipulation of any keys. He then may listen on the line until the called party answers, after which he can remove his plug. Should, however, the calling party leave his telephone and it is desired to recall him before the operator's plug is removed, this may be done by throwing the ringing key in the opposite direction and operating the generator of the switch board. The buzzer for the night alarm is connected to the same key, and should the operator leave the switchboard this buzzer may be switched in circuit and the battery of the transmitter cut out at the same time.

3. The set is entirely self-contained and on closing the cover the several parts are protected from mechanical injury and the battery switch is automatically thrown to the "off" position, thereby cutting the battery out of circuit.

NOTE 22.—SET, RADIOTELEGRAPH, SCR-133.

Ground telephone and telegraph radio set capable of being packed on mule or transported in operating truck. SCR-121: Set to work with airplanes for adjustment of fire. Working range, telephone 30 miles, telegraph 50-90 miles; transmitting wave length 350-900 meters; receiving 150-1,200 meters.

NOTE 23.—SET, U. W. RADIOTELEGRAPH AND TELEPHONE, TYPE SCR-132.

Ground set to work with Army observation planes. Working range in miles, telephone 80-100, telegraph 200-250; transmitting wave length 800-1,900 meters, receiving 550-2,200.

NOTE 24.—SET, TEST, UNIVERSAL, TYPE EE-65.

1. This testing set is designed for testing and locating practically all troubles on magneto telephone lines and apparatus, and combines all the features of a condensed wire chief's desk that is used in connection with commercial telephone exchanges. It is inclosed in a suitable carrying case approximately six (6) inches deep; eight and one-fourth ($8\frac{1}{4}$) inches wide, and ten and seven-eighths ($10\frac{7}{8}$) inches high, weighs about fourteen (14) pounds and is provided with a shoulder-carrying strap that it may be easily transported in the field.

2. The equipment of the set consists of a generator, condenser, voltmeter, buzzer, five (5) keys, induction coil, single head receiver, transmitter, test clips and cords, ground rod, BA-1 battery for transmitter and two (2) BA-2 batteries for testing, and is designed for making the following principal tests on either grounded or metallic circuits:

- (a) Talking to other telephones connected to the line.
- (b) Ringing.
- (c) Continuity tests.
- (d) Tests for short circuits.
- (e) Tests for grounds.
- (f) Tests for crosses with lines carrying current, such as telegraph lines and common battery telephone lines.
- (g) Tests for crosses with other telephone lines.
- (h) Measuring voltage of batteries.

3. The telephone equipment consists of a generator, buzzer, induction coil, transmitter and receiver and provides all the necessary ringing and talking equipment that the test man may not need an additional telephone, and he may also use this as the ordinary lineman's test set. The voltmeter is of the Weston model 280 pattern and has a range of fifty (50) volts, thereby providing means of reading the voltage of outside batteries of this potential or less.

4. By means of the several keys, the several tests already named can be made without changing the connections. Curves are provided that the resistance measurements may be easily read regardless of the voltage of the self-contained battery or of an external battery if used.

[400.34, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.



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WAR DEPARTMENT,
Washington, January 30, 1922.

MEMORANDUM CIRCULAR.

The following circulars issued this date are too long to be mimeographed and are being printed and will be distributed as soon as available.

m Circular No. 26, War Department, 1922 (Basic allowances of equipment special for Coast Artillery troops—Table IV-G, antiaircraft artillery—Supplemental to Circular No. 169, War Department, 1921).

ms Circular No. 27, War Department, 1922 (Basic allowances of equipment special for Coast Artillery troops—Table IV-G, Sound ranging service—Supplemental to Circular No. 169, War Department, 1921).

~~Circular No. 28, War Department, 1922 (Basic allowances of equipment special for Coast Artillery troops—Table IV-G, Trench artillery—Supplemental to Circular No. 169, War Department, 1921).
(400.34, A.G.O.)~~

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

Hjl

CIRCULAR
No. 28. }WAR DEPARTMENT,
WASHINGTON, January 30, 1922.BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR COAST ARTILLERY TROOPS—
TABLE IV-G. TRENCH ARTILLERY—SUPPLEMENTAL TO CIRCULAR NO. 169,
WAR DEPARTMENT, 1921.

The following tables with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribe the basic allowances of individual and organizational equipment for trench artillery, Coast Artillery Corps.

TABLE IV-G.

EQUIPMENT—TRENCH ARTILLERY.

SECTION I.—Individual equipment.

II.—Automatic rifles and machine guns.

III.—Ammunition and ordnance, special for 6-inch trench mortar.

IV.—Engineering equipment.

V.—Fire-control equipment.

VI.—Communication equipment.

VII.—Transportation.

VIII.—Notes.

(The term "battery" used in these tables refers to the lettered batteries unless otherwise specifically indicated.)

SECTION I.—Individual equipment.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Addi- tional for use at posts and camps or stations of a rela- tively per- man- ent nature	Remarks.
Q	Cases, record	1	.....	Per mastersergeant, first sergeant, and staff sergeant.
O	Pistols	1	.....	Per officer and enlisted man.

SECTION II.—Automatic rifles and machine guns.

(ORDNANCE.)

Articles of equipment.	A War set for field and gar- rison service.	B Addi- tional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
Cartridges, ball, caliber .30, for auto- matic rifles.	750	.....	Per automatic rifle.
Cartridges, ball, for antiaircraft ma- chine guns.	5,500	.....	Per antiaircraft machine gun.
Machine guns, antiaircraft	2	.....	Per battery. (Note A.)
Rifles, automatic	(a)	.....	8 per battery, and service battery, 2 per headquarters battery. (Note A.)
Spare parts, tools, and accessories for antiaircraft machine guns.	1	.....	Per antiaircraft machine gun. (Note A.)

SECTION III.—*Ammunition and armament, special for 6-inch trench mortars.*

ORDNANCE.

Articles of equipment.	A	B	Remarks.
	War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Ammunition.....	(a)		a 50 rounds per mortar.
Bars, barrel, carrying.....	1		Per mortar.
Bars, platform, carrying.....	2		Do.
Boxes, platoon, complete with contents.	1		Per 2 mortars or platoon. (Note A.)
Boxes, tool and spare parts, complete with contents.	1		Per mortar. (Note A.)
Mortars, trench, 6-inch, complete.....	6		Per battery. (Note A.)

SECTION IV.—*Engineering equipment.*

DRAFTING EQUIPMENT (ENGINEERS).

Articles of equipment.	A	B	Remarks.
	War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Drafting equipment, company.....	(a)	(b)	a 1 per battalion and regimental headquarters. (Note 1.) b 1 per company.
Glass, magnifying, pocket.....	1		Per battery, battalion, and regimental headquarters.
Protractor, semicircular-xyloite:			
10-inch, graduated in degrees.....	1		Do.
10-inch, graduated in mils.....	1		Do.
Scales:			
Map, 20-inch, graduated in meters and yards, 1/10,000.....	(a)		a 1 per battery and battalion headquarters; 3 per regimental headquarters.
Map, 10-inch, graduated in meters and yards, 1/62,500.....	(a)		Do.
Tables:			
Logarithm, numbers, trigonometric functions of degrees and mils, 5 place.....	1		Per battery, battalion, and regimental headquarters.
Units of weight and measure.....	1		Do.
Tape, steel, map, graduated in yards, scale 1/20,000, 50 inches long.	(a)	(b)	a 1 per battalion and regimental headquarters. b 1 per battery.

MAP REPRODUCTION EQUIPMENT (ENGINEERS).

Cyclostyle.....	1		Per regimental headquarters. (Note 2.)
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SURVEYING EQUIPMENT (ENGINEERS).

Sketching outfits.....	1		Per battery, battalion, and regimental headquarters. (Note 3.)
Tapes:			
Pocket, 2M, graduated in meters and inches.....	1		Per battery, battalion, and regimental headquarters.
Steel, 100 feet, graduated in meters and feet.....	1		Per battery and battalion headquarters.

CAMOUFLAGE EQUIPMENT (ENGINEERS).

Camouflage equipment, set.....	1		Per battery. (Note 4.)
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SECTION V.—Fire-control equipment.
(ORDNANCE.)

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a rela- tively perman- ent nature.	Remarks.
Battery, flashlight, spare.....	1	.....	Per flashlight.
Boards, firing:			
Small, 20 by 30 inches, with cover	1	.....	Per battery.
Large, 30 by 45 inches, with cover	1	.....	Per battalion and regimental headquarters.
Bulb, for flashlight, spare.....	1	.....	Per flashlight.
Circle, aiming, complete with tripod, lighting device, and carrying case.	2	.....	Per battery and battalion headquarters.
Com pass, lensatic.....	1	.....	Per battery.
Flashlights, complete with battery and bulb.	6	.....	Per battery and battalion headquarters.
Glasses, field, pairs.....	2	.....	Do.
Sitigonometers, trench mortar.....	1	.....	Per battery.
Squares, sine, graduated for plotting coordinates.	1	.....	Per battery, battalion and regimental headquarters.
Tables, range.....	(e)	.....	o 8 per battery and battalion headquarters; 2 per regimental headquarters.
Telescope, battery commander's, com- plete with carrying case and tripod.	2	.....	Per battery, battalion and regimental headquarters.
Time-interval recorders, with chains and shock absorbers.	6	.....	Per battery.

SECTION VI.—Communication equipment.
(SIGNAL CORPS.)

Articles of equipment.	A War set for field and gar- rison service.	B Additional for use at posts and camps or stations of a rela- tively perman- ent nature.	Remarks.
Bag, tool, service, complete.....	1	.....	Per battery, battalion and regimental headquarters. (Note 5.)
Batteries:			
Type BA-1.....	(e)	.....	o 2 (1 spare) per each telephone, type EE 4, monocord operator's switchboard set, type EE 64, and universal test set, type EE 65.
Type BA-2.....	(e)	.....	o 4 (2 spare) per universal test set, type EE 65.
Cipher device.....	(e)	.....	o 1 per battalion and regimental head- quarters.
Clips, Frankel testing.....	(e)	.....	o 2 per each universal test set, type EE 65, and telephone switchboard.
Cords, switchboard, monocord type.....	(e)	.....	o 2 per switchboard, type BD 9; 3 per switchboard, type BD 11.
Envelopes, field message.....	500	.....	Per regimental headquarters.
Flashlights, complete with spare bulb and battery.	(e)	.....	o 18 per battery, 6 per battalion and regi- mental headquarters.
Fuses, monocord switchboard.....	1	.....	Per 2 lines.
Grips, Buffalo, with pulleys, complete, pairs.	(e)	.....	o 1 per battery, battalion and regimental headquarters.
Groundman's equipment, type TE-23..	2	.....	Per battery, battalion and regimental headquarters. (Note 6.)
Hammers, claw.....	2	.....	Per battery, battalion and regimental headquarters.
Headsets, telephone, high efficiency, with soft-rubber ear caps.	(e)	.....	o 6 per battery, battalion and regimental headquarters.

SECTION VI.—*Communication equipment*—Continued.
(SIGNAL CORPS)—Continued.

Articles of equipment.	A War set for field and gar- rison service.	B Addi- tional for use at posts and camps or stations of a rela- tively perma- nent nature.	Remarks.
Insulators, wooden knobs.....	(a)	.....	a 500 per battery; 1,000 per battalion and regimental headquarters.
Kits:			
Inspector's pocket.....	(a)	.....	a 1 per wire truck; 2 per battery; 4 per battalion and regimental headquarters. (Note 7.)
Soldering.....	1	.....	Per battery, battalion and regimental headquarters. (Note 8.)
Lineman' equipment, type TE 21.....	2	.....	Per battery, battalion and regimental headquarters. (Note 9.)
Marlin, pounds.....	(a)	.....	a 5 pounds per battery, battalion and regimental headquarters.
Megaphones.....	2	.....	Per battery.
Nails, 20d, pounds.....	10	.....	Per battery, battalion and regimental headquarters.
Pliers:			
Diagonal cutting, 5-inch.....	2	.....	Do.
Long oval nose, 5-inch.....	2	.....	Do.
Reel carts, pack, type RL 16.....	(a)	.....	a 2 per battery and battalion headquarters; 3 per regimental headquarters. (Note 10.)
Reels, payout.....	2	.....	Per regimental headquarters.
Rods, ground, type CP 16.....	2	.....	Per switchboard.
Saws, hand, cross-cut 26-inch, 8 point.....	1	.....	Per battery, battalion and regimental headquarters.
Screw driver, cabinet type.....	1	.....	Per switchboard.
Screws, iron, r. h., 1½-inch, No. 8, gross.	(a)	.....	a 1 per battery, battalion and regimental headquarters.
Set:			
Monocord operator, type EE 64.....	1	.....	Per each monocord switchboard. (Note 11.)
Test, universal, type EE 65.....	1	.....	Per battalion and regimental headquarters. (Note 12.)
Shovels, short handled, round point.....	2	.....	Per battery, battalion and regimental headquarters.
Staples, Blake insulated, No. 5, gross.....	(a)	.....	a 2 per battery; 4 per battalion and regimental headquarters.
Strips, terminal, 5 pair.....	(a)	.....	a 4 per battery and battalion headquarters; 8 per regimental headquarters.
Switchboards, Signal Corps:			
Type BD 9 (4-line).....	(a)	.....	a 4 per battery; 1 per battalion and regimental headquarters.
Type BD 11 (12-line).....	(a)	.....	a 1 per battalion headquarters; 1 per regimental headquarters.
Switchboard units, type EE 2.....	2	.....	Per battery, battalion and regimental headquarters.
Tape:			
Friction, pounds.....	(a)	.....	a 5 pounds per battery; 10 pounds per battalion and regimental headquarters; 1 pound per switchboard.
Rubber, pounds.....	(a)	.....	a 2½ pounds per battery; 5 pounds per battalion and regimental headquarters; 3 pound per switchboard.
Telephones, type EE 4.....	(a)	.....	a 12 per battery; 6 per battalion and regimental headquarters.
Voltammeter, battery, 0-35 amperes; 0-11 volts.	1	.....	Per battery, battalion and regimental headquarters.
Wire:			
Field, twisted pair, 11-strand, type W 40, miles.....	(a)	.....	a 5 per battery; 10 per battalion and 15 per regimental headquarters.
Outpost, twisted pair, miles.....	1	.....	Per battery, battalion and regimental headquarters.

SECTION VII.—*Transportation.*

Articles of equipment.	A	B	Remarks.
	War set for field and garrison service.	Additional for use at posts and camps or stations of a relatively permanent nature.	
Ambulance, motor.....	1		Per battalion. (Note A.)
Cars, motor, 5-passenger.....	(a)		^a 2 per regimental headquarters. (Note A.)
Motorcycles with side cars.....	(a)		^a 2 per battery and battalion headquarters, headquarters battery and regimental headquarters; 3 per service battery. (Note A.)
Spare parts for motor cars, motorcycles, trucks, and trailers, set.	1		Per service battery.
Trailers:			
Antiaircraft machine gun.....	1		Per battery. (Note A.)
Kitchen.....	1		Per battery, headquarters battery, and service battery. (Note A.)
Water (180-gallon).....	1		Do.
Trucks:			
F. W. D., 3-ton, cargo, type "A" body.	(a)		^a 1 for every two 6-inch trench mortars, accessories, etc.; 1 per battery, battalion and regimental headquarters—equipment, baggage, and rations; 1 spare for each 10 trucks (issued to service battery).
F. W. D., 3-ton, artillery supply, load A.	1		Per battalion. Assigned to service battery. (Note A.)
Light repair.....	1		Per service battery. (Note A.)
Cargo, 1-ton.....	(a)		^a 1 per service battery; 1 per headquarters battery; 2 per regimental headquarters. (Note A.)
Tank, 750-gallon.....	1		Per service battery. (Note A.)

SECTION VIII.—*Notes pertaining to Table IV-G, trench artillery.*

NOTE A.

Standard equipment according to the most recent specifications of the particular supply department and as described in the latest edition handbook or pamphlet for that article, its accessories and spare parts.

NOTE 1.—DRAFTING EQUIPMENT, COMPANY.

Number.	SUPPLIES—continued.	Number.	
Board, drawing, 23 by 31 inches, with trestle..	1	Fillers, book, I. P. No. 103, sets of 50 sheets....	6
Books, record, I. P. No. 103, with fillers and indexes.....	3	Ink:	
Desk, drafting, company, engineer.....	1	Drawing, black, 1-ounce bottles.....	2
Eraser, steel.....	1	Drawing, blue, 1-ounce bottles.....	1
Instruments, drawing, office set.....	1	Drawing, carmine, 1-ounce bottles.....	1
Measurer, map.....	1	India, stick.....	1
Protractor, G. S., semicircular, 6-inch.....	1	Pads:	
Scales:		Pencil pointing, 1½ by 4 inches.....	1
Architect's, triangular, 12-inch, with sheath.	1	Scratch, 6 by 9 inches.....	2
Engineer's, triangular, 12-inch, with sheath.	1	Paper:	
Map, metric, flat, 30 cm., graduated 1/20,000 and 1/50,000 with sheath.....	1	Blotting, 3½ by 9½ inches, dozen.....	1
Field, erasing.....	1	Drawing, sheets, 22 by 30 inches, gross.....	1
Tab, ink, slate, rectangular, 5½ by 2 inches, with plate-glass top.....	1	Profile, tracing, 29-inch, 50-yard roll.....	1
Square, steel, 24-inch, with protractor head..	1	Pencils:	
Triangles, Xylonite, transparent:		Drawing, H.....	6
30°-60°, 10-inch.....	1	Drawing, 3H.....	6
45°, 8-inch.....	1	Drawing, 5H.....	6
Tubes, tin, 39 inches long by 4 inches diameter..	3	Pens:	
SUPPLIES.		Crow-quill, dozen on card, with holder.....	1
Cloth, tracing, 30-inch, 24-yard roll.....	1	Drawing, 5 points assorted, gross.....	1
Erasers:		Mapping, dozen, on card, with holder.....	1
Rubber, pencil.....	2	Pins, cone.....	1
Rubber, ink.....	1	Tacks, thumb, gross.....	2
		Tape, adhesive, transparent, ½ inch by 12 yard rolls.....	2
		Twine, hemp, 2-ounce ball.....	1

NOTE 2.—MAP REPRODUCTION EQUIPMENT, CYCLOSTYLE.

EQUIPMENT.		SUPPLIES—continued.	
	Number.		Number.
Frame, printing, consisting of base, zinc plate and hinged stretcher frame, 21 by 26 inches..	1	Ink, printer's:	
Frame, stretcher, for silk.....	6	Black, 1-pound tubes.....	3
Rollers, ink, hand, 14-inch.....	2	Blue, 1-pound tubes.....	3
Stylli, tooth-wheel'd, ball points.....	4	Green, 1-pound tubes.....	3
		Red, 1-pound tubes.....	3
		Yellow, 1-pound tubes.....	3
		Paper, books, 19 by 24 inches, reams.....	3
		Silk, white, fine mesh, 24 by 28 inch sheets.....	6
		Stencils, wax paper, 24 by 28 inch sheets.....	48
SUPPLIES.			
Celluloid, transparent, 24 by 28 inch sheets....	2		

NOTE 3.—SKETCHING OUTFIT.

EQUIPMENT.		SUPPLIES.	
	Number.		Number.
Alldade, boxwood.....	1	Celluloid, sheets, 12½ by 13½ inches.....	12
Boards, sketching, with W. P. covers.....	1	Erasers, rubber, pencil.....	4
Chest, sketching outfit.....	1	Paper, sketching, gross.....	3
Clinometer, service, with case.....	1	Pencils:	
Compass, prismatic, with case.....	1	Blue.....	4
Pace tally.....	1	Drawing, H.....	16
Strap, wrist.....	1	Green.....	4
Tripod, wood, folding.....	1	Red.....	4
		Protectors, pencil point.....	4
		Tape, adhesive, rolls.....	3

NOTE 4.—CAMOUFLAGE EQUIPMENT, SETS.

The material required will be issued on special requisition of commanding officer and will depend upon local conditions.

NOTE 5.—BAG, TOOL SERVICE, COMPLETE.

EQUIPMENT.		SUPPLIES.	
	Number.		Number.
Try-square, steel, 4-inch blade.....	1	Screw drivers:	
Chisels:		6-inch blade.....	1
Cold, ½-inch.....	1	10-inch blade.....	1
Wood, ¾-inch socket blade, iron ringtopped handle, Jennings, No. 15.....	1	Solder, resin core, pound.....	1
Hammer, claw, bell faced, 16-ounce.....	1	Wrenches:	
Holder, tool, and 10 high-grade steel tools.....	1	Screw, forged, 6-inch, monkey.....	1
Knife, electrician's, 2 blades.....	1	Socket, for telephone apparatus, 4-inch.....	1
Level, pocket spirit, 3-inch.....	1	Brace, ratchet, 8-inch throw.....	1
Plane, block, 6-inch, 1½-inch cutter.....	1	Bits, auger, solid center, double cutter extension lips:	
Pliers:		½-inch.....	1
Pair, 6-inch, side-cutting.....	1	¾-inch.....	1
Pair, 8-inch, side-cutting.....	1	1-inch.....	1
Rule, 4-foot, folding, boxwood, 8 parts.....	1	½-inch.....	1
Saw, back, 10-inch.....	1	1-inch.....	1
		Polarity indicator.....	1

NOTE 6.—GROUNDMAN'S EQUIPMENT, TYPE TE-23, SETS.

EQUIPMENT.		SUPPLIES.	
	Number.		Number.
Belts, tool, plain.....	1	Pliers, 8-inch, side cutting.....	1
Gloves, leather, pair.....	1		

NOTE 7.—KIT, INSPECTOR'S POCKET, COMPLETE.

EQUIPMENT, TYPE TE-5.		SUPPLIES.	
	Number.		Number.
Case, carrying, inspector's pocket kit.....	1	File, half-round bastard, with handle, 3-inch..	1
Screw driver and skinning knife combined, with safety spring.....	1	Tweezers, 4½-inch, pair.....	1
Scissors, electrician's, 5-inch.....	1	Screw driver, 2-inch.....	1
Pliers, side-cutting, 6-inch.....	1	Rule, 2-foot, 4-fold, narrow boxwood.....	1

NOTE 8.—KIT, SOLDERING, COMPLETE.

Number.	Number.
1	4
1	2
1	1

NOTE 9.—LINEMAN'S EQUIPMENT, TYPE TE-21.

Number.	Number.
1	1
1	1
1	1
1	1

NOTE 10.—REEL CART, PACK, TYPE RL-16.

1. This cart was designed for use in the Cavalry and is constructed on the knock-down principle that it may be taken apart to pack on the back of an animal, and its total weight is approximately 105 pounds. When disassembled for packing, it consists of five parts, viz, two wheels, frame, pole, and axle for reel. The wheels are of motor-cycle type, are ball bearing, and are equipped with solid rubber tires.
2. The entire cart may be assembled in a few moments without the use of tools, the several parts being provided with tapered sockets and are drawn together by eccentric clamps which hold them very rigidly. This cart will carry two steel spools of the French type, 7 inches wide and 22 inches in diameter, each holding 1 mile of single or one-half mile of twisted pair 11-strand field wire weighing, complete with spools, 112 pounds.
3. The cart with its full load of wire may be easily drawn by two men over ordinary ground, the wire being paid out or picked up as may be desired, a crank being provided for picking up the wire being operated by a third man.
4. This equipment packs on the ordnance type aparejo and pack frame, two separate devices being provided for carrying the wheels. These are fastened to the frame by means of the eccentric catch, the same as is used for ammunition carriers of the mountain gun. The reels with wire are carried on separate animals, each animal carrying two reels. The same ordnance type equipment is used for these reels as for the cart, but the hanger for the reel is slightly different than that used for carrying the wheel of the cart.

NOTE 11.—SET, MONOCORD OPERATOR'S, TYPE EE-64.

1. This set has been designed to replace the several types of telephone which have been used as operator's sets in connection with the monocord switchboards, type EE-2. It is contained in a fiber-covered wooden case and provided with adjustable webbing shoulder carrying strap. It is ten (10) inches long, six and three-quarters (6 $\frac{3}{4}$) inches wide, and seven and one-eighth (7 $\frac{1}{8}$) inches high, and weighs approximately fifteen (15) pounds.
2. The equipment of the set consists of a generator, buzzer, induction coil, single head receiver, adjustable transmitter, buzzer for night alarm, operator's switch and ringing key, two (2) BA-1 batteries with a switch that either may be used, and connection cord and plug. The circuit is so arranged that the operator answers the call by inserting the plug connected to the switchboard unit in the jack of the calling line, and on ascertaining the line desired completes the connection by placing the plug of the calling line in the jack of the desired line and ringing the telephone on that line by operating the generator of the switchboard without the manipulation of any keys. He then may listen on the line until the called party answers, after which he can remove his plug. Should, however, the calling party leave his telephone and it is

desired to recall him before the operator's plug is removed, this may be done by throwing the ringing key in the opposite direction and operating the generator of the switch board. The buzzer for the night alarm is connected to the same key, and should the operator leave the switchboard this buzzer may be switched in circuit and the battery of the transmitter cut out at the same time.

3. The set is entirely self-contained and on closing the cover the several parts are protected from mechanical injury and the battery switch is automatically thrown to the "off" position, thereby cutting the battery out of circuit.

NOTE 12.—SET, TEST, UNIVERSAL, TYPE EE-65.

1. This testing set is designed for testing and locating practically all troubles on magneto telephone lines and apparatus, and combines all the features of a condensed wire chief's desk that is used in connection with commercial telephone exchanges. It is inclosed in a suitable carrying case approximately six (6) inches deep, eight and one-quarter (8 $\frac{1}{4}$) inches wide, and ten and seven-eighths (10 $\frac{7}{8}$) inches high, weighs about fourteen (14) pounds and is provided with a shoulder carrying strap that it may be easily transported in the field.

2. The equipment of the set consists of a generator, condenser, voltmeter, buzzer, five (5) keys, induction coil, single head receiver, transmitter, test clips and cords, ground rod, BA-1 battery for transmitter and two (2) BA-2 batteries for testing, and is designed for making the following principle tests on either grounded or metallic circuits:

- (a) Talking to other telephones connected to the line.
- (b) Ringing.
- (c) Continuity tests.
- (d) Tests for short circuits.
- (e) Tests for grounds.
- (f) Tests for crosses with lines carrying current, such as telegraph lines and common battery telephone lines.
- (g) Tests for crosses with other telephone lines.
- (h) Measuring voltage of batteries.

3. The telephone equipment consists of a generator, buzzer, induction coil, transmitter and receiver, and provides all the necessary ringing and talking equipment that the test man may not need an additional telephone, and he may also use this as the ordinary lineman's test set. The voltmeter is of the Weston model 280 pattern and has a range of fifty (50) volts, thereby providing means of reading the voltage of outside batteries of this potential or less.

4. By means of the several keys, the several tests already named can be made without changing the connections. Curves are provided that the resistance measurements may be easily read regardless of the voltage of the self-contained battery or of an external battery if used.

[409.34, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

WAR DEPARTMENT,
Washington, February 9, 1922.

MEMORANDUM CIRCULAR.

Circular No. 34, War Department, 1922 (Basic allowances of equipment special for Infantry tank units, Table IV-E--Supplemental to Circular No. 169, War Department, 1921--Rescission of Circular No. 46, War Department, 1920), is too long to be mimeographed. The circular is being printed and will be distributed as soon as available.

(400.34, A.G.O.)

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

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See memo 46/1922

CIRCULAR }
No. 35. }

WAR DEPARTMENT,
WASHINGTON, February 9, 1922.

**ANIMAL TRANSPORTATION CART, MEDICAL, MODEL 1917, COMPLETE—
AMENDMENT TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921.**

Circular No. 169, War Department, 1921 (Tables of basic allowances), as amended by Circulars Nos. 269 and 285, War Department, 1921, and by Circular No. 18, War Department, 1922, is further amended by striking out on page 60, under the heading "Animal transportation," all that pertains to "Cart, medical, model 1917, complete," and substituting therefor the following:

Combat wagon, medical.—Escort wagon to be issued until a suitable medical combat wagon is produced.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
*General of the Armies,
Chief of Staff.*

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

92573*—22

WAR DEPARTMENT,
Washington, February 15, 1922.

MEMORANDUM CIRCULAR.

Circular No. 40, War Department, 1922 (Basic allowances of equipment special for Field Artillery troops, Table IV-C, Brigade, Light Field Artillery, G.H.Q. Reserve, Portee--Supplemental to Circular No. 169, War Department, 1921) is too long to be mimeographed. The Circular is being printed and will be distributed as soon as available.

(400.34, A.G.O.)

P. C. HARRIS,
The Adjutant General.

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none printed 4/13/22 mem.

(Cir. 42)

Circular
No. 42.

WAR DEPARTMENT,
Washington, February 18, 1922.

GYMNASIUM SHOES--AMENDMENT TO CIRCULARS NOS.
169 AND 224, WAR DEPARTMENT, 1921--RESCIN-
SION OF CIRCULAR NO. 372, WAR DEPARTMENT,
1920, AS AMENDED.

1. The issue of gymnasium shoes is discontinued and the initial money clothing allowance will be reduced by the value of those shoes in the cases of soldiers enlisted subsequently to the receipt of this circular.

2. Gymnasium shoes will be kept for sale to persons in the military service.

3. Circular No. 169, War Department, 1921 (Tables of basic allowances), and Circular No. 224, War Department, 1921 (Clothing money allowance for enlisted men), are amended in accordance with the foregoing provisions.

4. Circular No. 372, War Department, 1920 (Gymnasium shoes), as amended by Circular No. 61, War Department, 1921, is rescinded.

(421.5, A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

Reproduced at
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jcm.

Circular
No. 45.

WAR DEPARTMENT,
Washington, February 21, 1922.

SEGREGATION OF SUPPLIES.

1. Supplies actually held in station and depot storage will be classified as follows:

a. Current Supply Stocks.--Those required for initial issue and current replacement.

b. War Reserves.--(1) Stocks segregated and held for Insular and Panama projects.

(2) Mobilization stocks - all on hand in addition to the above, retained to meet the general mobilization plans.

2. War reserves for insular and Panama projects, wherever stored, will be segregated in accordance with the instructions contained in the several projects and will not be depleted for current use without specific War Department authority. In order to insure that these supplies are serviceable, turnover will be provided for by local supply officers, by replacing segregated supplies with new stock whenever practicable.

3. All stocks, other than those specified in paragraph 2, that have been heretofore segregated and tagged for special purposes will be returned to the control of the chiefs of supply branches and will be considered available both for current supply and for inclusion in the amounts prescribed for mobilization stocks in existing instructions.

4. The determination of mobilization stocks and the method of storing and reporting them is being studied. It is contemplated, however, that under the provision of the preceding paragraphs of this circular they will ultimately be accumulated in depot storage.

(100.345, A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

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Circular
No. 46.

WAR DEPARTMENT,
Washington, February 21, 1922.

LOCATION, STORAGE, AND SUPPLY OF EQUIPMENT--
AMENDMENT TO CIRCULAR NO. 169, WAR DEPART-
MENT, 1921.

Circular No. 169, War Department, 1921 (Tables of basic allowances), as amended by Circulars Nos. 69, and 285, War Department, 1921, and by Circulars Nos. 16 and 35, War Department, 1922, is further amended as follows:

1. Change paragraph 5, page 2, to read as follows:

5. Location, storage, and supply of equipment.

a. The following equipment will be issued to each active unit of the Regular Army: Equipment A and B, Tables I, II, III, and IV, less animals, for authorized peace strength.

b. A reserve not greater than 5% of the equipment required for the total authorized peace strength may be kept on hand in the organization storeroom when necessary to prevent undue frequency of transactions with the property officer.

c. Commanding officers will be issued the number of animals necessary for the actual requirements of their commands, but not to exceed allowances of Table IV unless such excess has been duly authorized by department and corps area commanders.

d. Individual and organizational equipment A are taken into the field on concentration in time of war unless otherwise directed by the War Department or by department or corps area commanders.

2. Add paragraph 5½ as follows:

5½. a. The instructions contained in paragraph 5 supersede all previous regulations, orders and instructions published by the War Department or the various branches relative to the issuing, segregation, tagging or maintaining of equipment of inactive units of the Regular Army, and equipment of active organizations for strength in excess of the authorized peace strength plus 5%.

b. All supplies and equipment now held by organizations in excess of that authorized in paragraph 5, will be turned in to the nearest supply officer for

the branch concerned. All excess stock resulting from the above will be disposed of as directed by chiefs of supply branches concerned.

c. Supplies and equipment for inactive units and for the difference between peace and war strength of active units outside of the continental limits of the United States will be provided for in the depots designated to supply them under existing orders or instructions. Supplies and equipment required for this purpose within the continental limits of the United States will be provided for by the chiefs of supply branches in so far as practicable within the limits of available stock and funds.

(400.345, A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

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CIRCULAR }
No. 50. }

WAR DEPARTMENT,
WASHINGTON, February 27, 1922.

ALLOWANCE OF WHITE CAPS, COATS, AND TROUSERS—AMENDMENT TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921.

Circular No. 169, War Department, 1921 (Tables of basic allowances), as amended by Circulars Nos. 269 and 285, War Department, 1921, and by Circulars Nos. 16, 35, 42, and 46, War Department, 1922, is further amended as follows:

1. In Table I, page 8, change the remarks opposite the article "Caps, white, cooks," to read as follows:

For cooks and bakers, and for students at schools for bakers and cooks.

2. Add to Table I, in the proper alphabetical arrangement, the following:

Branch.	Articles of clothing.	A War set.	B Additional for use at posts and camps.	Remarks.
Q	Coats, white.....		*4	For students at schools for bakers and cooks and to enlisted men of the Medical Department on duty in dispensaries and wards.
Q	Trousers, white.....		*4	For students at schools for bakers and cooks and to enlisted men of the Medical Department on duty in dispensaries and wards.

[400.345, A. G. O.]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

92840*—22

Circular
No. 52.

WAR DEPARTMENT,
Washington, February 27, 1922.

ANIMAL-DRAWN VEHICLES.

1. With a view to reducing the number of separate kinds of animal-drawn vehicles used by the Army, the manufacture of the following types will be discontinued; and when the present supply of those types is exhausted, substitutive types will be issued as indicated:

<u>Types to be discontinued.</u>	<u>Types to be substituted.</u>
1. Cart, Medical.	:Escort wagon.
2. Cart, ration.	:Escort wagon until more suitable type of special vehicle is developed, (Issue to be made on basis of one escort wagon to two ration carts).
3. Cart, sanitary, 4-wheel.	:Garbage cart, 2-wheel.
4. Cart, water.	:Escort wagon until more suitable type of special vehicle is developed. For Cavalry the substitution will be the mountain spring wagon (3-seated). (Issue to be made on basis of one escort wagon to two water carts).
5. Wagon, buckboard.	:Mountain spring wagon (3-seated).
6. Wagon, Dougherty.	:Mountain spring wagon (3-seated).
7. Wagon, dump.	:Escort wagon with slat bottom.
8. Wagon, limbered combat.	:Escort wagon until more suitable type of special vehicle is developed.
9. Wagon, medical combat (experimental).	:Escort wagon.
10. Wagon, mountain spring 2-seated.	:Mountain spring wagon (3-seated).
11. Wagon, spring for Cavalry and Field Artillery (experimental).	:Mountain spring wagon (3-seated).
12. Wagon, spring delivery.	:Mountain spring wagon (3-seated).
13. Wagonette.	:Mountain spring wagon (3-seated).

(Cir. 52)

-2-

2. The 2-wheel sanitary cart will hereafter
be known as the garbage cart.
(451.7, A.G.O.)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

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CIRCULAR }
No. 54. }WAR DEPARTMENT,
WASHINGTON, March 2, 1922.BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR FIELD ARTILLERY TROOPS,
TABLE IV-C, BRIGADE, LIGHT FIELD ARTILLERY, G. H. Q. RESERVE, TRACTOR
DRAWN—SUPPLEMENTAL TO CIRCULAR NO. 169, WAR DEPARTMENT, 1921.

The following tables, with notes, supplemental to Circular No. 169, War Department, 1921 (Tables of basic allowances), prescribe the allowances of individual and organizational equipment for a brigade, Light Field Artillery, G. H. Q. Reserve, tractor drawn:

TABLE IV-C.

The term "company" is used to include all company organizations, as headquarters battery, service battery, and battery. When the allowance does not apply to all such organizations, the specific designation is made.

All items in the following tables are to be equipment of approved types, issued complete and equipped with spare parts, tools, and accessories, as prescribed in current specifications for each item.

Brigade headquarters battery.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts, gar- risons, and semiper- manent camps.	Remarks.
CO	Bicycle.....	1	.....	One staff observation car will be issued, when available, in lieu of one 5-passenger car.
CO	Cars, motor, 5-passenger.....	3	.....
CO	Cars, motor, reconnaissance.....	3	.....	(Note 4.) Per sergeant major and first sergeant. (Note 5.)
CO	Communications equipment, sets.....	1	.....
CO	Dispatch cases, canvas.....	1	.....	Per individual.
CO	Fire-control equipment, sets.....	1	.....
CO	Motorcycles with side cars.....	8	.....	Additional to allowance in Cir. 169, W. D. 1921, for protection of instruments and radio stations. (Note 6.)
CO	Pistols.....	1	.....
CO	Roel.....	1	.....	Per individual.
CO	Tents, wall, small, complete, with poles, pins, ropes, and flies.....	3	.....
E	Topographical equipment, sets.....	1	.....	(Note 6.)
CO	Tractor, light artillery.....	1	.....
CO	Trucks, cargo, F. W. D., 3-ton.....	3	.....	Per individual.
CO	Trucks, cargo, 1-ton.....	2	.....

Regiment, Light Field Artillery, G. H. Q. Reserve, 75 mm. guns, tractor drawn.

O	Ammunition.....		.....	Quantities as specified by War Department.
O	Ammunition for drill and instruction purposes, sets.....		1	Per gun battery. (Note 1.)
CO	Bicycle.....	1	.....	Per company. (Note 2.)
CO	Camouflage equipment.....	1	.....	Per gun section.
O	Caissons, 75-mm. gun.....	4	.....	Per caisson section.
O	Carriages, 75-mm. gun.....	1	.....	Per gun.
CO	Cars, motor, 5-passenger.....	3	.....	Per regimental headquarters.
		2	.....	Per battalion headquarters.
		1	.....	Per service battery and per gun battery.
Q	Cars, motor, reconnaissance.....	3	.....	Per regimental headquarters.
		2	.....	Per battalion headquarters.
		1	.....	Per gun battery.

Regiment, Light Field Artillery, G. H. Q. Reserve, 75 mm. guns, tractor drawn—Con.

Branch.	Articles of equipment.	A War set for field and garrison service.	B Additional for use at posts, gar- risons, and semiper- manent camps.	Remarks.
O	Cartridges, ball, caliber .30, for anti-aircraft machine gun.	1,500	.....	Per A. A. machine gun.
Q	Cleaning and preserving materials, sets.	1	.....	Per company. (Note 3.)
S	Communications equipment, sets.	1	.....	Per regimental headquarters, battalion headquarters, and gun battery. (Note 4.)
Q	Dispatch cases, canvas	1	.....	Per sergeant major and first sergeant.
O	Fire control equipment, sets.	1	.....	Per regimental headquarters, battalion headquarters, and gun battery. (Note 5.)
O	Guns, 75-mm.	1	.....	Per gun section.
O	Machine guns, anti-aircraft.	2	.....	Per gun battery.
Q	Motorcycles, with side cars	4	.....	Per regimental headquarters, per service battery, and per battalion headquarters.
Q	Outfits, stencil	2	.....	Per gun battery.
O	Pistols	1	.....	Per company.
Q	Tents, wall, small, complete, with pins, ropes, poles, and flies.	1	.....	Per individual.
Q	Tents, wall, small, complete, with pins, ropes, poles, and flies.	1	.....	Per regimental headquarters and per battalion headquarters for radio stations. Additional to allowance in Cir. No. 169, W. D. 1921.
E	Topographical equipment, sets.	1	.....	Per regimental headquarters, battalion headquarters, and gun battery. (Note 6.)
O	Tractors, light artillery.	13	.....	Per gun battery.
Q	Trailers, kitchen.	1	.....	Per company.
Q	Trailers, 1½-ton, cargo.	1	.....	Per gun battery for personnel and fire-control equipment.
O	Trailers, 3-inch field gun.	5	.....	Per gun battery (1 gasoline and oil, 1 supply, 1 rations and baggage, 2 personnel.)
Q	Trailers, tank, water, 300-gallon	1	.....	Per company.
Q	Trucks, cargo, F. W. D., 3-ton	3	.....	Per regimental headquarters.
Q	Trucks, cargo, F. W. D., 3-ton	3	.....	Per battalion headquarters.
Q	Trucks, cargo, ¾ ton	19	.....	Per service battery (3 for band; 4 for gasoline; 1 supply; 2 spare parts, etc.; 9 rations, baggage, and personnel).
Q	Trucks, cargo, ¾ ton	2	.....	Per regimental headquarters.
Q	Trucks, light repair	1	.....	Per battalion headquarters.
O	Trucks, light repair	1	.....	Per service battery and per gun battery.

NOTE 1.

Ammunition for drill and instruction purposes.

Articles.	Number.
Cartridges, drill	8
Kits, drill cartridge	4
Pins, rotating	36
Pins, stop	36
Rings, graduated time train	6
Rings, time train	1
Shell, gas, 75 mm., complete round, with long fuze, sectionalized	1
Shell, H. E., 75 mm., complete round, with short fuze, sectionalized	1
Shrapnel, common, 75 mm., complete round, sectionalized	1

NOTE 2.

Camouflage equipment.

The material required will be issued on special requisition of commanding officer and will depend on local conditions.

NOTE 3.

Cleaning and preserving materials and supplies carried with organizations.

Articles.	Regimental head-quarters.	Service battery.	Battalion head-quarters.	Gun battery.
Borax, lump, pounds.....		5		5
Brushes, camel's hair, No. 1 round.....				1
Burners, lantern, Dietz Vesta.....	2	2	2	2
Cans, 2-gallon capacity.....				20
Cans, 1-gallon capacity.....	9	9	4	3
Cloth, emery, No. 00, quires.....	1	1	1	1
Globes, lantern.....	2	2	1	2
Kerosene, gallons.....	5	5	2	5
Oil, lubricating.....	2	2	1	15
Oil, neat's-foot, gallons.....	1	1	1	2.5
Oil, sperm, gallons.....	1	1		2.5
Oil, clock, 1-ounce bottles.....	1	1	1	1
Paint, acid proof, black.....				2
Pumice stone, pounds.....				5
Rust-preventing compound, grade B.....				5
Soda, ash, pounds.....				20
Sponges.....	20		20	50
Waste, cotton, white, pounds.....				10
Wicks, lantern.....	5	5	5	5

NOTE 4.

Communications equipment (Signal).

Branch.	Articles.	Brigade head-quarters.	Regimental head-quarters.	Battalion head-quarters.	Gun battery.
	Axes, hand, lineman.....	1			
	Bags, tool, service.....	1			
	Batteries, type BA-2, spare.....	36	36	36	
	Batteries, type BA-9, spare.....	20	8	8	10
	Batteries, type BA-10, spare.....	8			
	Batteries, type BA-11, spare.....		16	16	12
	Bells, vibrating, 4-ohm.....	2			
	Books, field message.....	24	18	21	12
	Buttons, push.....	2			
	Case, battery, type CS-3.....	2			
	Chest, type BC-5.....	1			
	Climbers, lineman.....				1
	Clips, test, Frankel.....	6			
	Cutters, wire, with carrier.....	5			
	Device, cipher.....	2	1	1	
	Envelopes, field message.....	500	150	100	
	Fuses, 1-ampere, for switchboard.....	32	24	24	16
	Head sets, telephone.....	2	2	2	2
	Hydrometers, type HY-2.....	1	1	1	
	Kits, flag, combination.....		6	10	8
	Knives, electrician.....	5	6	6	6
	Lineman's equipment, type TE-21.....	1			
	Megaphones.....				2
	Panels, divisional artillery, type AP-9, sets.....	1	1	1	
	Pliers, side cutting, 6-inch.....	5	6	6	6
	Reels, breast, with spools.....		4	4	4
	Reelcarts, type RL-16.....		2	1	1
	Sets, radio, type SCR-109, complete.....	2	1	1	
	Sets, radio, type SCR-79A, complete.....	1			
	Sets, radio, type SCR-77, complete.....		2	1	
	Signal lamps, type EE-6, with batteries, complete.....				3
	Signal lamps, type EE-7, with batteries, complete.....		2	2	
	Strips, terminal, 5-pr.....	4			
	Studs, connector, 19 point, spare.....		6	6	6
	Switchboards, type BD-9.....		1	1	2
	Switchboards, type BD-10.....	3	1	1	
	Switchboards, unit type EE-2.....	3	2	2	2
	Tape, friction, pounds.....	3	2	2	3
	Tape, rubber, pounds.....	1	1	1	
	Telephone, type EE-5, with batteries, type A connectors, cords, and ground rods, complete.....	10	4	4	5
	Thermometers.....				2
	Tubes, type VT-1.....	12	12	12	
	Tubes, type VT-2.....	6	4	4	
	Tubes, type VT-4.....	8	8	8	
	Voltammeter, 0 to 35 amperes, 0 to 11 volts.....	1	1	1	
	Voltammeter, Weston type 230.....	1			
	Wavemeter, type SCR-125.....	1	1		
	Wire, outpost, twisted pair, miles.....		4	4	6
	Wire, 11-strand field, twisted pair, miles.....	12	4	2	2

NOTE 5.

Fire-control equipment (Ordnance).

Articles.	Brigade head-quarters.	Regimental head-quarters.	Battalion head-quarters.	Gun battery.
Batteries, flashlight, spare.....	10	5	10	21
Bulbs, flashlight, spare.....	10	5	10	21
Batteries, lighting devices.....				10
Circles, aiming, French type, complete, with tripod and cases.....		1	2	2
Devices, lighting, aiming posts, in case with batteries, complete.....				5
Flashlights.....	10	2	10	21
Glasses, field, type EE.....	10	6	10	5
Posts, aiming.....				8
Protractor, semicircular, coordinate window, with plotting scale on two adjacent sides of window and across diameter:				
8 1/2 inch.....	2	1	1	1
12-inch.....	2	1	1	1
Range finder, 1-meter base, complete, with tripod, adjustment bar, and cases.....			1	1
Recorders, time interval, complete, with shock absorbers and chain.....				2
Rulers, wood, B. C.....		8	7	7
Strings, B. C., ruler, spare.....		8	7	7
Scales, plotting, metallic, triangular.....		1	1	1
Tables, range, 75-mm. gun.....	4	8	7	5
Tape, steel, 100 feet.....	1	1	1	1
Telescope, B. C., complete, with tripod and cases.....		1	1	1

NOTE 6.

Topographical equipment (Engineer).

Articles.	Brigade head-quarters.	Regimental head-quarters.	Battalion head-quarters.	Gun battery.	Remarks.
Alidade, brass, open sight, leveling, complete with leather case and declinator with leveling bubble.....		1	1		
Compass, watch.....		4	6	2	Additional to allowance in Cir. No. 169, W. D. 1921.
Drafting equipment, Engineer company, sets.....	2				
Instruments, drawing, office sets.....		1	1		
Plane table, 18 by 24 inches.....				1	
Consisting of drawing board, 18 by 24 inches, with Johnson movement lightweight tripod attachment and canvas case, plumbing arm, and plummet; Johnson movement lightweight extension leg tripod with canvas case.					
Plane tables, 24 by 31 inches.....		1	1		
Consisting of drawing board, 24 by 31 inches, with tripod attachment, canvas covered case; plumbing arm and plummet, Johnson movement split-leg tripod.					
Sketching outfit, complete.....		1	1	1	
Straightedge, steel, 30-inch.....		1	1		
Straightedge, steel, 24-inch.....				1	
Tubes, tin, 4 by 39 inches.....		2	2	1	
SUPPLIES.					
Celluloid sheets:					
20 by 30 inches.....		6	6	6	
16 by 20 inches.....				2	
Erasers, pencil, art gum.....		2	2		
Paper, drawing:					
22 by 30 inches, sheets.....		24	24		
17 by 22 inches, sheets.....				24	
Pencils, drawing, 3 H.....		24	24	12	
Tacks, thumb, gross.....		1	1	1	

NOTE 7.

Gasoline trucks and trailers.—The normal load for each gasoline truck is as follows:

Gasoline, 50-gallon drums.....	8
Grease, cup, 5-pound cans.....	40
Oil, gasoline engine, medium, 5-gallon cans.....	10
Oil, transmission, "600 W," 5-gallon cans.....	4
Oil, kerosene, 5-gallon cans.....	2

The normal load for each gasoline trailer is as follows:

Gasoline, 50-gallon drums.....	12
Grease, cup, 5-pound cans.....	40
Oil, gasoline engine, medium, 5-gallon cans.....	10
Oil, transmission, "600 W," 5-gallon cans.....	4
Oil, kerosene, 5-gallon cans.....	2

Supply trucks.—In addition to the standard list of accessories for F. W. D. 3-ton cargo trucks, as specified in Circular 169, W. D., 1921, or for the 3-inch field-gun trailer, the following are authorized for supply trucks or supply trailers in the respective organizations:

Articles.	Organizations.	
	Service battery.	Gun battery.
Chests, carpenter, with tools, complete.....	1	1
Chests, blacksmith, with tools, complete.....	1	1
Chests, saddlers, with tools, complete.....	1	1
Chests, fluid "A".....	1	1
Chests, light lubricant.....	1	1
Chests, light auto supply.....	1	1
Chests, supply.....	2	1
Spare parts for motor vehicles as required by the number and types of vehicles with which the various organizations are equipped.		

[A.G. 403-345 (2-23-22).]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.



24

WAR DEPARTMENT,
Washington, March 4, 1922.

MEMORANDUM CIRCULAR.

Circular No. 55, War Department, 1922
(Property to be dropped from accountability
upon permanent installation), is being printed
and will be distributed as soon as available.
(A.G. 141.6 (3-1-22))

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

Circular
No. 56.

WAR DEPARTMENT,
Washington, March 4, 1922.

PROPORTION OF FUZES FOR FIELD ARTILLERY
TARGET PRACTICE, CALENDAR YEAR 1922.

1. During the remainder of the calendar year 1922, fuzes in the following proportions will be used in target practice by all Field Artillery organizations.

a. For H. E. Shell.

Type of cannon;	Percentage of fuzes			
	:Mark III: :Super :quick	:Kon- :delay	:Short: :delay:	Long :delay
2.95" pack how- itzer	: 30	: Mk V	: Mk V	:
	:	: 60	: 10	:
	:	: Mk V	: Mk V	:
75 mm. gun	: 30	: 60	: 10	:
	:	: Mk V	: Mk V	:
4.7" gun	: 30	: 45	: 25	:
	:	: Mk IV:	: Mk IV:	:
155 mm. howit- zer	: 30	: 40	: 30	:
	:	: Mk IV:	: Mk IV:	:
	:	: Star	: Star	:
155 mm. gun	: 30	: 35	: 35	:
	:	: Mk IV:	: Mk IV:	: Mk IV
8" howitzer	: 20	: 40	: 30	: 10
	:	: Mk IV:	: Mk IV:	: Mk IV
240 mm. howit- zer	: 20	: 40	: 30	: 10
	:	:	:	:

Note.—The use of Mark III (super quick) fuzes with reduced propelling charges in the 75 mm. field gun is prohibited.

b. For shrapnel, all calibers: 100% Combination time and percussion fuzes.

c. For gas or smoke shell: 100% Mark III (super quick) fuzes.

2. The Chief of Ordnance will issue fuzes for target practice by Field Artillery organizations in the proportions indicated, and the requisitions made by Field Artillery organizations for

(Cir. 56)

- 2 -

target practice fuzes will be based on the same proportions.

3. Short delay fuzes may be issued in the place of non-delay fuzes where the latter are not available.

(A.G. 471.82 (2-10-22))

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

CIRCULAR }
No. 62. }

WAR DEPARTMENT,
WASHINGTON, March 10, 1922.

**BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR THE MEDICAL DEPARTMENT—
AMENDMENT TO CIRCULAR NO. 289, WAR DEPARTMENT, 1921.**

Circular No. 289, War Department, 1921 (Basic allowances of equipment special for the Medical Department, Table IV-M), is amended as follows:

1. Change Section II to read as follows:

SECTION II.—Transportation.

Q	Ambulances, motor.....	20	Per Ambulance Company, motor.
Q	Ambulances, animal.....	20	Per Ambulance Company, animal-drawn.
Q	Ambulances, Veterinary, 2-mule.....	1	Per Veterinary Company.
Q	Bicycles.....	(e) 1	a 1 per Service Company; Headquarters Sanitary Battalion; Headquarters Ambulance Battalion; Ambulance Company; Headquarters Hospital Battalion; Hospital Company; Medical Supply Section; Medical Laboratory Section; Veterinary Company; 4 per Sanitary Company.
Q	Cars, motor, 5-passenger.....	1	Per Service Company; Headquarters Ambulance Battalion; Ambulance Company, motor; Headquarters Hospital Battalion; Hospital Company.
Q	Horses, draft.....	16	Per Veterinary Company.
Q	Horses, riding.....	(e) 16	a 8 per Regimental Headquarters; 12 per Service Company; 3 per Headquarters Sanitary Battalion; 10 per Sanitary Company; 14 per Ambulance Company, animal-drawn; 2 per Laboratory Section; 16 per Veterinary Company.
Q	Motorcycles, with side car.....	(e) 2	a 2 per Service Company and Hospital Company; 1 per Headquarters Sanitary Battalion; Sanitary Company; Ambulance Company; Medical Supply Section and Medical Laboratory Section.
Q	Mules, draft.....	(e) 94	a 94 per Ambulance Company, animal-drawn; 10 per Veterinary Company.
Q	Trailers, kitchen.....	1	Per Service Company; Sanitary Company; Ambulance Company, motor; Hospital Company; Veterinary Company.
Q	Trailers, spare parts (Med.).....	1	Per Ambulance Company, motor.
Q	Trailers, tank, 180 gallons.....	1	Per Service Company; Sanitary Company; Ambulance Company, motor; Hospital Company; Veterinary Company.
Q	Trucks, 1-ton, cargo.....	(e) 5	a 5 per Service Company; Ambulance Company, motor; Medical Supply Section; 4 per Sanitary Company; 2 per Laboratory Section.
Q	Trucks, 1½ to 2 ton, cargo.....	(e) 20	a 20 per Hospital Company; 2 per Veterinary Company.
Q	Wagons, escort, 4-mule.....	2	Per Ambulance Company, animal-drawn, and Veterinary Company.
Q	Wagons, spring.....	1	Per Ambulance Company, animal-drawn.

2. In (b) of Note 5, page 26, change the item "Case, post-mortem (par. 924, M. M. D.)," to read as follows:

Case, post-mortem (par. 924, M. M. D.), empty.

[A. G. 400.345 (3-3-22).]

BY ORDER OF THE SECRETARY OF WAR:

JOHN J. PERSHING,

General of the Armies,
HEADQUARTERS
Chief of Staff.

OFFICIAL:

P. C. HARRIS,
The Adjutant General.

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WASHINGTON: GOVERNMENT PRINTING OFFICE: 1922.

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(Cir. 65)

Circular
No. 65.

WAR DEPARTMENT,
Washington, March 17, 1922.

STEEL SPOOLS FOR REEL CART, PACK, TYPE
RL-16.

Reel cart, pack, type RL-16, mentioned in tables of basic allowances for signal communication purposes will hereafter include six empty steel spools. Organizations now supplied with reel cart, pack, type RL-16, equipped with less than the above authorized number of spools, will make requisition for the necessary additional spools.

(A.G. 400.345 (3-8-22))

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

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Circular
No. 68.

WAR DEPARTMENT,
Washington, March 24, 1922.

CLOTHING MONEY ALLOWANCE FOR ENLISTED MEN--
AMENDMENT TO CIRCULAR NO. 224, WAR
DEPARTMENT, 1921.

1. In view of the reduction in the prices of clothing and equipage being published in a revision of Special Regulations No. 40, to become effective April 1, 1922, and in view of Circular No. 42, War Department, 1922, eliminating the item of gymnasium shoes as an article of issue, Table IV, paragraph 2, Circular No. 224, War Department, 1921, is amended to read as follows:

TABLE IV.

a. Money allowance for clothing drawn by enlisted men stationed within the continental limits of the United States, Alaska, China, and other localities corresponding in climate to the United States.

(1) Three year enlistment period.

Initial allowance.	\$. 76.29
Monthly share of initial allowance.	12.71
Daily share of initial allowance . . . . .	.42
Semiannual allowance	18.85
Monthly allowance.	3.14
Daily allowance. . . . .	.10
Total money allowance for 3 years.	189.37

(2) One year enlistment period.

Initial allowance.	\$. 76.29
Monthly share of initial allowance	12.71
Daily share of initial allowance . . . . .	.42
Semiannual allowance	9.37
Monthly allowance.	1.56
Daily allowance. . . . .	.05
Total money allowance for 1 year	95.03

b. Money allowance for clothing drawn by enlisted men (including Philippine Scouts) stationed in the tropics--the Philippines, Hawaiian Islands, Panama and other tropical countries.

(1) Three year enlistment period.

Initial allowance.	\$ 56.54
Monthly share of initial allowance	9.42

Daily share of initial allowance . . . . \$	.31
Semiannual allowance	15.13
Monthly allowance.	2.52
Daily allowance. . . . .	.08
Total money allowance for 3 years. . . .	147.34

(2) One year enlistment period.

Initial allowance. \$	56.54
Monthly share of initial allowance	9.42
Daily share of initial allowance . . . .	.31
Semiannual allowance	8.42
Monthly allowance.	1.40
Daily allowance. . . . .	.05
Total money allowance for 1 year	73.38

2. The provisions of this circular will go into effect April 1, 1922, and will govern all initial clothing allowance credited to, and any portion of semiannual clothing allowances earned by, enlisted men subsequent to that date.

These provisions, however, will not affect any clothing settlements made, or initial clothing allowance credited to, or any portion of semiannual clothing allowances earned by, enlisted men prior to April 1, 1922.

(A.G. 246.5 (3-13-22))

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

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(Cir. 70)

Circular
No. 70.

WAR DEPARTMENT,
Washington, March 27, 1922.

CLOTHING MONEY ALLOWANCE FOR WARRANT OFFI-
CERS, ARMY MINE PLANTER SERVICE--AMEND-
MENT TO CIRCULAR NO. 234, WAR DEPARTMENT,
1921.

1. In view of the reduction in the prices of clothing and equipage being published in a revision of Special Regulations No. 40, to become effective April 1, 1922, Table III, paragraph 2, Circular No. 234, War Department, 1921, is amended to read as follows, effective April 1, 1922:

TABLE III.

Money allowance for clothing drawn by warrant officers, Army Mine Planter Service:

Initial allowance	\$188.73
Semiannual allowance	63.88
Monthly allowance	10.65
Daily allowance . . . . .	.35

2. The provisions of this circular should not be construed so as to disturb clothing allowances already settled, credited to, or earned by warrant officers prior to April 1, 1922, if computed in accordance with regulations in force at that time.

(A.G. 322.76 (3-21-22))

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

P. C. HARRIS,
The Adjutant General.

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CIRCULAR }
No. 76. }

WAR DEPARTMENT,
WASHINGTON, April 4, 1922.

RECRUIT CLOTHING AND EQUIPMENT—AMENDMENT TO CIRCULAR NO. 169,
WAR DEPARTMENT, 1921.

Circular No. 169, War Department, 1921 (Tables of basic allowances), as amended by Circulars Nos. 269 and 285, War Department, 1921, and by Circulars Nos. 16, 35, 42, 46, and 50, War Department, 1922, is further amended as follows:

Note 3, page 19, is rescinded and the following substituted therefor:

NOTE 3.—Recruit clothing and equipment.

In time of peace the following articles of clothing and equipment will be issued to recruits before joining their first station, unless otherwise directed by the War Department or required by department or corps area commanders to which recruits are assigned. Recruits for overseas service will be issued special equipment for overseas service at the last depot according to arm of service assigned to, except that no armament will be issued unless directed. If a clothing money allowance is prescribed by the War Department, the appropriate articles of clothing will be charged against this allowance. In time of war recruits will be issued the clothing prescribed in Equipment A, Table I, and the appropriate individual equipment for the arm of service to which they are assigned.

-2-

- | | |
|---|--|
| <ul style="list-style-type: none"> 1 bag, barrack. 1 belt, waist. 1 belt, cartridge, cal. .30, mounted or dismantled.¹ 1 blanket, olive drab; 2 issued when necessary. 2 breeches, service, cotton.* 1 breeches, service, woolen.* 1 canteen, M.1910. 1 canteen cover, M.1910, mounted or dismantled.¹ Chevrons and other sleeve insignia (where necessary). 1 coat, fatigue.
(Issued only when necessary at depots or on long journey. Not issued to recruits sent to units in the field.) 1 coat, service, cotton.* 1 coat, service, woolen.* 1 cord, hat.¹ 1 cup, M.1910. ** 2 drawers, cotton.* ** 2 drawers, woolen.* | <ul style="list-style-type: none"> 1 First-aid packet and pouch. 1 fork, M.1910. 1 gloves, woolen, olive drab or riding, pair¹ (when necessary). 4 handkerchiefs. 1 hat, service, with tying cord. 1 haversack and pack carrier.
(Recruit traveling bag or haversack with straps, models prior to 1910, may be issued until supply is exhausted. They will be used for any only, then returned to the infantry recruit's haversack and pack or leg- 1 knife, M.1910. 1 laces, shoe, extra pair. 1 leggins, spiral, woolen, 1 gins, mounted.¹ 1 meat can. 1 ornaments, collar, bronze (when necessary). 1 overcoat (according to local period of year). |
|---|--|

* Woolen for issue when necessary, according to period of year.

* Cotton for issue when necessary, according to period of year.

** An increase of 1 is authorized in the discretion of the commander of the department or corps area in which the recruit is enlisted.

¹ According to arm of service.

- 1 raincoat, mounted or dismounted.¹
- 2 shirts, flannel, olive drab.
- 1 shoes, pair.
- 1 soap, cake (allowance $\frac{1}{4}$ ounce per day).
- 1 spoon, M.1910.
- 4 stockings, cotton, pair.*
- 4 stockings, woolen, pair.*
- 2 tags, identification.
- 1 tape, for identification tags, yard.

[A. G. 400.845 (2-23-22).]

- Woolen for issue when necessary, according to period of year.
- * Cotton for issue when necessary, according to period of year.
- An increase of 1 is authorized in the discretion of the commander of the department or corps area in which the recruit is enlisted.
- ¹ According to arm of service.

BY ORDER OF THE SECRETARY OF WAR:

OFFICIAL:

ROBERT C. DAVIS,
Acting The Adjutant General.

- 1 toilet set.
- 2 towels, hand or bath.
- 1 trousers, fatigue.
(Issued only when necessary at depots or on long journey. Not issued to recruits sent to units in the field.)
- 2 undershirts, cotton.*
- 2 undershirts, woolen.*

JOHN J. PERSHING,
*General of the Armies,
Chief of Staff.*

Equipment Table

(Cir. 86.)

W
Circular
No. 86.

WAR DEPARTMENT,
Washington, May 2, 1922.

BASIC ALLOWANCES OF EQUIPMENT SPECIAL FOR FIELD ARTILLERY TROOPS, TABLE IV-C, DIVI- SIONAL BRIGADE (LIGHT FIELD ARTILLERY)-- AMENDMENT TO CIRCULAR NO. 299, WAR DEPART- MENT, 1921.

Circular No. 299, War Department, 1921, is amended as follows:

1. The designations "ammunition company" and "transport company", wherever they occur in the circular, are amended to read, respectively, "ammunition battery" and "transport battery".

2. In the table, under the heading "Brigade headquarters battery, and ammunition train", changes are made as follows, the additional articles to be in the proper alphabetical arrangement:

Branch	Articles of equip- ment	A	B	Remarks
Q	Bicycles	1	-	Per brigade headquar- ters, per ammunition train headquarters, per transport battery and per ammunition battery.
Q	kitchen, rolling	1	-	Per transport battery.
Q	Machines, clipping, with extra blades.	-	(b)	b as authorized by de- partment and corps area commanders, not exceeding 2 per company.
Q	Trailer, kitchen.	1	-	Per ammunition battery.
Q	Truck, F.W.D., 3-ton cargo.	30	-	Per transport battery. Per ammunition battery.

3. In the table under the heading "Regiment, 75-mm guns, Light Field Artillery", changes are made

-2-

as follows, the additional articles to be in the proper alphabetical arrangement:

Branch	Articles of equipment.	A	B	Remarks.
Q	Bicycles	2	-	Per regimental headquarters,
		1	-	Per battalion headquarters, per service battery, per combat train and per gun battery.
Q	Machines, clipping, with extra blades.	-	(b)	as authorized by department and corps commanders, not exceeding 2 per company.
O	Primers, 49-grain, saluting.	-	500	Per service battery.

4. The following is added after the table on page 3:

ATTACHED MEDICAL DEPARTMENT.

Branch	Articles of equipment.	A	B	Remarks.
Q	Ambulances, motor.	2	-	Per regiment.
Q	Bicycles	1	-	Per regiment.
Q	Horses, riding.	38	-	Per regiment.
Q	Motorcycles, with sidecars.	1	-	Per ammunition train.
		2	-	Per regiment.
Q	Mules, draft.	4	-	Per medical wagon.
Q	Wagons, medical.	1	-	Per ammunition train.
		3	-	Per regiment.

5. In Note 3, page 4, the heading "service battalion" of the fifth column is changed to "service battery", and the heading "combination transport" of the sixth column is changed to "combat train".

6. In Note 4, page 5, the article relating to telephones is changed to read "Telephones, type EE-5, with batteries, type A connectors, cords and ground rods, complete."

(A.G.400.34 (4-25-22).)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies,
Chief of Staff.

Official:

ROBERT C. DAVIS,
Acting The Adjutant General.

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CORRECTED COPY.

(Cir. 103)

Circular
No. 103.

WAR DEPARTMENT,
Washington, May 26, 1922.

ALLOWANCE OF WHITE COATS AND WHITE TROUSERS--
AMENDMENT TO CIRCULAR NO. 169, WAR DEPART-
MENT, 1921 AND CIRCULAR NO. 50, WAR DEPART-
MENT, 1922.

Paragraph 2, Circular No. 50, War Department,
1922, amendatory of Table I, Circular No. 169, War
Department, 1921 (Tables of basic allowances), is
rescinded and the following substituted therefor:

Add to Table I, in the proper alphabetical ar-
rangement, the following:

-2-

Branch	Articles of clothing	A	B	Remarks and basis of issue.
Q	Coats, white	-	4	For students at schools for bakers and cooks and at the Army Veterinary School. For enlisted men of the Medical Department (Medical Service) on duty or receiving practical instruction in wards, pharmacies, post-mortem rooms, mess rooms, kitchens, laboratories, and dental clinics; and for enlisted men of the Medical Department (Veterinary Service) on duty or receiving practical instruction in pharmacies, operating rooms, laboratories, and inspecting or handling food supplies at procurement, in storage, or at issue. To be charged against their clothing money allowance.

(Cir. 103)

Articles of clothing	A	B	Remarks and basis of issue
Q: Trousers, white	-	*4	For students at schools for bakers and cooks and at Army Veterinary School. For enlisted men of the Medical Department (Medical Service) on duty or receiving practical instruction in wards, pharmacies, post mortem rooms, mess rooms, kitchens, laboratories, dental clinics; and for listed men of the Medical Department (Veterinary Service) on duty or receiving practical instruction in pharmacies, operating rooms, laboratories, and inspecting or handling food supplies at procurement, in storage or at issue. To be charged against their clothing allowance.

(A.G. 400.345 (5-4-22).)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Army
Chief of Staff

Official:

ROBERT C. DAVIS,
Acting The Adjutant General.

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112.

WAR DEPARTMENT,
Washington, June 7, 1922.

CHEMICAL AMMUNITION FOR USE IN TRAINING.

In connection with the provisions of Circular
60, War Department, 1922 (Use of chemical war-
ammunition), the following allowances of chemi-
ammunition are authorized for use in training
the Regular Army during the training season of
22:

Each.	: Tear Gas:	: Non-toxic:	: W. P. Hand:	: W. P. Hand:	: Tear Gas:	: Hand and:	: and:
Regiment of	: candles	: smoke	: grenade	: and rifle	: hand	: rifle	: gas:
:	: candles	:	: grenade	: and rifle	: hand	: rifle	: gas:
Infantry	100	100	200	200	200	25	50
Cavalry	50	50	100	100	100	---	25
Engineers	50	50	100	100	100	---	25
Coast Artillery	50	---	---	---	---	---	---
Field Artillery	50	---	---	---	---	---	---
Each company of Coast Artillery	5	5	25	25	25	---	---
Total ammunition	6,200	5,700	11,700	11,700	11,700	950	2,425

(Cir. 112)

-2-

The material issued will be completely expended in training on or before the end of the present calendar year in order to avoid possibility of deterioration in storage. Detailed instructions will be furnished by the Chemical Warfare Service for the storage and for the use of this material in training.

(A.G. 471 (5-17-22).)

By order of the Secretary of War:

JOHN J. PERSHING,
General of the Armies
Chief of Staff.

Official:

ROBERT C. DAVIS,
Acting The Adjutant General.

Reproduced at
Hq Fourth Corps Area.

jem.

EQUIPMENT CIRCULARS

CIR. NO.

YEAR

SUBJECT

Placed 16

1921

Basic allowances of Equipment Special Sav A...

<u>C.I.R.NO.</u>	<u>YEAR</u>	<u>SUBJECT</u>
179	1921	Ice for the Fiscal Year 1922.
205	1921	Equipment to be kept at the Station of each mobile Unit of the Regular Army.
276	1921	Basic allowances of equipment special for Infantry.
289	1921	Basic allowances of equipment special for the Medical Department, Table IV-M-Supplemental to Circular No. 169, War Department 1921.
290	1921	Basic allowances of equipment special for Cavalry, Table IV-B-Supplemental to Circular No. 169, War Dept. 1921-Recission of Circular No. 134, War Department 1920.
16	1922	Dispensary Flight Surgeon's Equipment-Amendment to Cir. No. 169, W.D.1921.
19	1922	Basic Allowances of Equipment Special for Chemical Warfare Service Troops-Table IV-N-Supplemental to Circular No.169,W.D. 1921.
20	1922	Ordnance Price List -Group G Materiel: Artillery Repair Truck; Model 1918.

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