



SPRINGFIELD RESEARCH SERVICE

P.O. Box 4181 • Silver Spring, Maryland 20904

SPRINGFIELD RESEARCH DATA
ISSUE NUMBER 12
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GENERAL NOTES

Distribution of THE KRAG RIFLE STORY began during the past quarter. It has been very well received so far, and we recently ordered the second printing. We regret the delay in getting specially inscribed copies to those who ordered early, but we trust that the results were worth the wait. A few of these are still available at \$20 plus \$1 shipping.

Our next effort in the arms book field will be a follow-on to D. C. M. RIFLE SALES titled SPRINGFIELD TARGET AND SPORTING RIFLES. This book will cover all rifles made especially for target or sporting use by Springfield Armory between 1875 and 1963. Included will be trapdoor Officers Model, Marksman, and Long Range rifles; Krag Gallery Practice rifles and NRA carbines; Model 1903 Gallery Practice, National Match, and Sporter rifles; Model 1922 rifles; and M1 National Match rifles. We plan to illustrate each model and furnish data on production and serial numbers. Contributions in the form of photos of these arms, their markings, etc., are welcome and will be acknowledged in the book.

SPRINGFIELD ARMORY PRODUCTION

This issue continues the publication of Springfield Armory production records began in Issue no. 9. Due to the high cost of reproduction and the difficulty in obtaining satisfactory reproduction quality for the older handwritten records, we are furnishing typed abstracts rather than copies of the original records as in the past. We have included all data likely to be of interest to small arms collectors, omitting data on production of spare parts and heavy ordnance.

TRAPDOOR SERIAL DATA

Trapdoor serial data is very sparse this time, consisting only of two Cadet rifles issued to South Dakota Agricultural College and 18 service rifles used by Alabama and Kentucky militia units.

KRAG SERIAL DATA

Krag serial numbers reported consist of those of 62 arms. The most significant of these are the following:

88604 & 88830 - the rifles were used to determine the suitability of the 2,200 f.p.s. cal. .30 ball cartridge for use in the Krag. The adoption of an increased velocity load for the Krag was proposed by the commanding officer of Frankford Arsenal as a consequence of tests and analysis of captured 7 mm Spanish Mausers.

316238 - this was one of the few Krags which suffered barrel rupture in service. The ruptured barrel was analyzed at Watertown Arsenal,

where it was determined that failure had been due to stresses in the steel induced by the stamping of the letter "P" near the breech. In Dec., 1908, the order was given that "Hereafter no stamp marks shall be placed nearer the butt of the barrel than one half of the barrel length".

331652 & 332195 - these were two "light stock" rifles issued to engineers to replace "dark stock" Model 1898 rifles. It is not known whether the purpose of this exchange was to equip the engineers with an arm having a distinctive appearance or merely to make the appearance of their arms uniform.

M1903 SERIAL DATA

M1903 serial data reported in this issue consist of the numbers of rifles on hand in companies A-E of the 25th Infantry in 1909, plus 44 individual serial numbers. Of the individual numbers, 258165 and 258311 are significant as having been used in the test of Cole oval-bore rifling for the M1903 rifle. Also, 96416 is a Hoffer-Thompson rifle and 352742 is a rifle equipped with M1908 Warner-Swazey 'scope.

TRADING POST

WANTED: Early 1903 Springfield no-bolt stock; 1-bolt stock w/CN 1909 or CN 1910 cartouche; RIA or S.A. barrel dated 1906 or 1905; cal. .22 1922 N. R. A. stock. K. Mulligan, Rt. 1, Box 608B, Tucson, AZ 85704.

WANTED: Krag: .22 r. f., any type of military in fair or better condition; Parkhurst device, also a Parkhurst cartridge belt (either type); a Conroy or Pope sight micrometer (need not be working); bayonets for rebuilding, can have pitting, no grips, poor or broken blades. M1903: 1903 ramrod bayonet: front band, bayonet catch assembly, receiver; M1903/05: receiver, barrel ('03 or '06), stock; M1903/06: O'Hare sight micrometer, rubber recoil boot for grenade launcher; M1903/P17: grenade launcher; Pederson Device magazine or misc. device parts, also empty 40 rd ammo boxes and the 200 rd clip-case box that goes in the bandolier, also the bandolier and any tech manuals or reprints of manuals on the Device. .22 cal. Hoffer-Thompson rifle cleaning rod. 1908 Warner-Swazey 'scope, does not need to be in working order. Misc. items: issue Navy cartridge belt for 1895 Lee Straight-pull rifle; tool for 1874 Ward-Burton rifle; almost any odd-ball item associated with U. S. bolt action rifles. Bruce Ellis, 73 Abbey Rd., Halifax, Nova Scotia.

SPRINGFIELD ARMORY PRODUCTION

Fiscal Year 1900

Fabricated

5,150 Magazine carbines, model 1899
 54,701 Magazine rifles, model 1898
 200 Artillery officers sabres
 301 Cavalry officers sabres
 500 Line & Staff officers swords
 2 General officers swords

51,082 Bayonet scabbards, caliber .30
 150 Bayonet scabbards, cadet, caliber .30
 18,606 Screw drivers, model 1897
 134,000 Sight & muzzle covers, model 1898

10 Attachments for securing Springfield barrels to 3".2 B. L. rifles for gallery practice
 120 Dummy cartridges, caliber .30
 28 .30 caliber pressure barrels
 4 .30 caliber pressure barrels with crusher gauge
 1 .45 caliber pressure barrel with crusher gauge

Experiments, Investigations, and Reports

<u>Date</u>	<u>Subject</u>
Aug. 30, 1899	Merits of two revolvers submitted by the Colts Pat. Fire Arms Co. and Smith & Wesson
Aug. 31, 1899	Safety device for revolvers, submitted by Mr. Hoag
Oct. 25, 1899	Experiments to determine the effect upon the physical qualities of rifle barrels rolled & annealed at different temperatures
Nov. 17, 1899	Tests of Parkhurst clip
Mar. 22, 1900	Test of automatic ejecting device, fitted to a Smith & Wesson side action revolver, submitted by H. L. Gaylord
Apr. 17, 1900	Test of Carr automatic machine gun
Apr. 27, 1900	Tests of Mauser self loading pistol, the Mannlicher automatic pistol, and the Colts automatic
May 2, 1900	Examination of drawing and description of a proposed pistol invented by Mr. Farwell
May 5, 1900	Test of Bolts with fillets at junction of lug with body

SPRINGFIELD ARMORY PRODUCTION

Fiscal Year 1901

Fabricated

2,820 Magazine rifles, cal. .30, without sights
45,579 Magazine rifles, cal. .30, with sights
100 Magazine rifles, cal. .30 with Parkhurst attachments
10,801 Magazine carbines, cal. .30
100 Magazine carbines, cal. .30 with Parkhurst attachments

32,000 Bayonet scabbards, cal. .30, Model '99
100 Bayonet scabbards, cal. .30, Cadet, Model '99
381 Bayonet scabbards, Cadet, with Hoffmans attachment
73,286 Small arms oilers
18,295 Screw drivers, model 1897
94 Waist belt plates, Cadet
125 Wooden wiping rods, carbine
945 Wooden wiping rods, rifle
2,000 Scabbards for knife bayonet & intrenching tools
2,000 Parkhurst clips
93,000 Sight & muzzle covers, rifle, model '98
35,750 Sight covers, carbine, model 1900
200 Front sight covers, cal. .45, model 1890
2,870 Front sight covers, cal. .45, model 1888

2,742 Rear sights, model 1896, complete
2,408 Rear sights, model 1901, complete

2,000 Combination knife bayonets & intrenching tools

25 Pressure barrels, cal. .30
1 Pressure barrel, cal. .30, complete
1 Range rod (Colts revolver)
2 Sub caliber attachments for 7" Howitzer
2 Sub caliber attachments for 5" siege gun
210 Steel gun barrels, cal. .45, "Navy"

Altered

25 Springfield carbines from model '77 to '84
5,243 Magazine rifles from model '92 to '96
5,512 Springfield rifles to Springfield Cadet rifles

17,500 Bayonet scabbards altered to model '99
10,300 Bayonet scabbards altered to model '96

Experiments, Investigations, and Reports

Fiscal Year 1901

<u>Date</u>	<u>Subject</u>
July 12, 1900	Examination of device for suppressing noise and smoke from fire arms, presented by Mr. R. M. Washington, Dallas, Tex.
Oct. 2, 1900	Test of Springfield Magazine rifle, caliber .30
Nov. 12, 1900	Test of Ideal Shell Extractor
Mar. 20, 1901	Test of Rifle Cleaning Cords, submitted by Mr. E. A. Pottier
Apr. 3, 1901	Examination of construction and operation of the Borchardt-Luger automatic pistol submitted by Mr. H. Taucher, representative of the manufacturers
May 9, 1901	Tests of Paper Clips and of Bandolier submitted by Doctor Gibson
May 9, 1901	Test of Scott Clip for use with the .30 caliber magazine rifle

SPRINGFIELD ARMORY PRODUCTION

Fiscal Year 1902

Fabricated

20,000 Magazine carbines, cal. .30, model '99
 43,241 Magazine rifles, cal. .30, model '98
 200 Artillery officers sabres
 300 Cavalry officers sabres
 6 General officers swords
 550 Officers swords

 5,289 Barrack cleaning rods
 53,000 Bayonet scabbards, cal. .30, model '99
 18,100 Screw drivers, model '97
 9,000 Sight covers
 83,000 Sight & muzzle covers
 410 Wooden wiping rods

 500 Front sight covers for Springfield rifles
 15 Stocks for Springfield shot guns

 30 Barrels, rifle, for 1pdr. drill cartridge
 663 Barrels, rifle cal. .45, Navy
 12 Barrels, rifle, cal. .45 for rapid fire guns
 133 Barrels, rifle, cal. .30 for 6 pdr. drill cartridge
 185 Barrels, rifle, cal. .30 for 15 pdr. drill cartridge
 4 Barrels, rifle, cal. .45 for 4 pdr. drill cartridge
 12 Barrels, rifle, cal. .30 for 75 pdr. drill cartridge
 76 Sub caliber attachments for 7" howitzer
 8 Sub caliber attachments for 5" siege guns

Altered and Repaired

5,420 Magazine rifles altered from model '92 to model '96
 18,066 Bayonet scabbards altered to model '99

Experiments, Investigations, and ReportsDateSubject

Nov. 4, 1901 Test of Bergmanns automatic pistol
 Nov. 12, 1901 Test of Morris aiming tube
 Dec. 14, 1901 Test of the Cole rifle
 Dec. 28, 1901 Examination of model Colts automatic pistol
 Dec. 28, 1901 Test of muzzle pierced barrels submitted by Mr. Perry E. Kent
 Feb. 8, 1902 Test of variety of reduced range ammunition
 Feb. 1, 1902 Test of Automatic Pistols with extra length of barrels and extension stocks, for use of Signal Corps; submitted by Colts Pat. Fire Arms Co.

Experiments, Investigations, and Reports (con't)

Fiscal Year 1902

Apr. 11, 1902 Examination and test of the latest model Mauser Automatic
Pistol, caliber 7.63mm
June 16, 1902 Test of Remington Shot Guns and ammunition
June 3, 1902 Test of improved model Colts Automatic Pistol, cal. .38

SPRINGFIELD ARMORY PRODUCTION

Fiscal Year 1903

Fabricated

61,838 Magazine rifles, cal. .30, model '98
1 Magazine carbine, cal. .30, model '99
8 Springfield magazine rifles, cal. .30, model 1902
1 Springfield magazine carbine, cal. .30, model 1902
50 Officers swords
1,505 Officers sabres
100 Fencing sabres

2,357 Barrack cleaning rods
21,200 Bayonet scabbards, model '99
1,500 Front sight covers, cal. .30
21,800 Screw drivers, model '97
36,083 Sight & muzzle covers

100 Sabre blades, fencing
2 Sabre blades, special

50 Rear sights, complete, model 1902

292 Barrels, rifle, cal. .45, Navy
1 Barrel, rifle, cal. .30, finished special
2 Bolt, special, for Springfield magazine rifles, model 1903
10 Drill cartridge barrels for 75mm mountain guns
1 Drill ctge barrel, cal. .30, 1 pdr.
1 Drill ctge barrel, cal. .30, 15 pdr.
360 Drill ctge barrels, cal. .30, 3 pdr.
640 Drill ctge barrels, cal. .45, 1 pdr.
267 Drill ctge barrels for 3" gun
100 Fencing bayonets, leather covered
116 Movable front sights for gallery practice
1 Pressure barrel, rifle, cal. .30
1 Pressure barrel, rifle, cal. .30 with housing
9 Sub cal. attachments for 3".2 gun
10 Sub cal. attachments for 7" Howitzer
13 Sub cal. attachments for 5" siege gun

Experiments, Investigations, and Reports

<u>Date</u>	<u>Subject</u>
Aug. 6, 1902	Test of various clips and packets for use in the new Springfield magazine rifle
Mar. 19, 1903	Report of tests of the "New Service" Colts revolver, cal. .45

SPRINGFIELD ARMORY PRODUCTION

Fiscal Year 1904

Fabricated

17,424 Magazine rifles, model 1898
30,503 Magazine rifles, model 1903
2,245 Officers sabres

18,712 Barrack cleaning rods
48,868 Bayonet scabbards
39,179 Sight and muzzle covers
 415 Sight covers, carbine

 6 Bolo bayonets, complete
 15 Barrels, special
 873 Drill cartridge barrels
13,868 Front sights, movable
 295 Hospital corps knives
 72 Intrenching spades
 5 Pressure barrels
 1 Pressure barrel with crusher
 1 Pressure barrel with housing and firing attachment, complete
 12 Sub-caliber attachments for 5" siege gun
 77 Sub-caliber attachments for 3".2 gun
 240 Fixtures (for Rock Island Arsenal)
 915 Gauges (for Rock Island Arsenal)
 27 Jigs (for Rock Island Arsenal)

Altered & Repaired

6,508 Bayonets altered and repaired
2,421 Bayonet scabbards altered and repaired
 200 Hammers, cal. .45 repaired
 71 Luger pistols repaired
 282 Machetes repaired
2,584 Rear sights, carbine, altered and repaired
 28 Springfield carbines altered and repaired
2,425 Springfield Cadet rifles altered and repaired
 899 Spiral springs nickelized

Experiments, Investigations, and Reports

Fiscal Year 1904 (con't)

<u>Date</u>	<u>Subject</u>
July 23, 1903	Report on different calibers and lengths barrels of Luger Automatic Pistols
Aug. 7, 1903	Report on the determination of the twist of rifling for the U. S. Magazine Rifle, Model 1903
Aug. 15, 1903	Test of Mannlicher Automatic Pistol
Sept. 15, 1903	Preliminary tests of self loading Magazine Rifle submitted by Lt. Jens Schouboe
Nov. 27, 1903	Experiments to determine the proper thickness of through vent of cartridge for the U. S. Magazine Rifle, model 1903
May 10, 1904	Report on rifle and cartridges submitted by Mr. J. W. Mullins
May 15, 1904	Test of Gallery Practice Cartridges invented by Capt. Thos. S. King, Inspector of Rifle Practice, 1st Regt. NGDC
June 10, 1904	Test of "Sight Scoops", the invention of Mr. W. D. Bowman
June 16, 1904	Test of recoil "controlling device for counteracting the recoil of muskets", the invention of Mr. L. N. McClean
June 18, 1904	Test of the "Hypsoscope", the invention of Mr. William Youlton of England
June 30, 1904	Test of "Vented Muzzle", the invention of Mr. Perry E. Kent