



## SPRINGFIELD RESEARCH SERVICE

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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 Reports

<u>Date</u>	<u>Subject</u>
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 rifles, cal. .30, model 1902  
 Springfield carbine, cal. .30, model 1902

Springfield rods  
 Springfield, model '99  
 Springfield, cal. .30  
 Springfield, model '97

Springfield  
 Springfield  
 Springfield

Springfield, model 1902

Springfield, cal. .45, Navy  
 Springfield, cal. .30, finished special  
 Springfield for Springfield magazine rifles, model 1903  
 Springfield barrels for 75mm mountain guns  
 Springfield, cal. .30, 1 pdr.  
 Springfield, cal. .30, 15 pdr.  
 Springfield, cal. .30, 3 pdr.  
 Springfield, cal. .45, 1 pdr.  
 Springfield barrels for 3" gun  
 Springfield, leather covered  
 Springfield sights for gallery practice  
 Springfield barrel, rifle, cal. .30  
 Springfield barrel, rifle, cal. .30 with housing  
 Springfield attachments for 1" 2 gun  
 Springfield attachments for 1" Howitzer  
 Springfield attachments for 5" siege gun

## Experiments, Investigations, and Reports

### Subject

Apr. 11, 1902 Test of various clips and packets for use in the new Springfield magazine rifle  
 Apr. 16, 1902 Report on tests of the "New Service" Colts revolver, cal. .44



# 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 nicked



## 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 "Hyposcope", the invention of Mr. William Youlton of England
June 30, 1904	Test of "Vented Muzzle", the invention of Mr. Perry E. Kent