HFR-207

ANNUAL PRODUCTION DATA, ARMS AND TOOLS AND EXPENDITURES AT THE UNITED STATES ARMORY AT HARPER'S FERRY, VA.

ORIGINAL

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1796 THROUGH 1829

For a photostatic copy of the "Statement of the Expenditures at the United States Armory, Harper's Ferry, Va., and of the arms made, repaired therein from the year 1796 to 1829," see Map Case, Drawer No. 6. This report contains a detailed and annual statement of the funds spent and of the weapons and tools produced each year.

Figures for the period 1830-1860 copied from material compiled and loaned by Mr. Donald B. Webster, 10 Bayberry Road, Kinston, R. I., December, 1959.

Statement of the expenditures at the Harper's Ferry Armory, and of the arms made therein during the year 1830.

Arms &c. made

10130 muskets, at a cost of 11.25 each
51575 flint caps, at a cost of 1¢ each
564 arms chests, at 2.16 ea.

Expenditures

Lands, buildings, repairs, etc. $ 14,431.93

Manufacture of muskets $ 117,540.19

Manufacture of Hall's rifles $ 32,377.06 (not yet completed)

Miscellaneous $ 1,218.24

Total $ 165,567.42

(from) detailed statement of expenditures on Hall's rifles

Value of component parts on hand Jan. 1, 1830 $ 48,778.47
" " " " " " Dec.31, " $ 66,533.96

Credit, by value of supplies furnished contractors for small arms $ 145.00 (sent to Col North ???)

House Executive Document 125, 21st Congress, 2nd session, p.2,3

Property of
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Statement of the expenses at the Harper's Ferry Armory, and of the arms made therein, during the year 1831.

Arms &c. Manufactured

11160 muskets , at cost of $11.09+ each
7454 flint caps, at 1¢ ea.
274 arms chests, at 2.02+ ea.

Expenditures

Lands, buildings, repairs, etc. $ 18,237.33

manufacture of arms $ 129,919.67

manufacture of Hall's rifles $ 38,745.28 (not yet completed)

miscellaneous $ 608.85

Total $ 187,511.13

Cost of muskets manufactured at the National Armories, viz.

	Springfield	Harpers Ferry
1829	$ 10.02	$25.13
1830	10.99	11.25
1831	11.44	11.09
Mean cost at each	10.81 2/3	12.49

House executive document 170, 22nd Congress, 1st session, p.2-4

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Statement of the expenses at the Harper's Ferry Armory, and of the arms made therein, during the year 1832.

Arms &c. manufactured

12000 muskets, at $ 11.62 7/8 each
4360 Hall's rifles without bayonets, at cost of 13.01 3/4 ea.
4360 screw drivers, at 7 1/4 ¢ ea.
436 spring vices, at 24¢ ea.
6632 flint caps, at 1¢ ea/
137 arms chests, at 1.95 7/8 each
20 ammunition flasks, at 1.25 each
436 bullet molds, at 40¢ ea.

Expenditures

buildings, canals, etc. $ 18,408.68

Manufacture of arms $ 153,318.88

Manufacture of Hall's rifles $50,892.17

Miscellaneous $674.26

Total. $ ~~67~~ $ 223,293.99

House Exec. Doc. 121, 22nd congress, 2nd session, p. 2-4

Statement of tne expenses, and detailed operations, at the Harper's Ferry Armery, during tne year 1833.

Arms &c. made

12000 muskets, average cost 11.80 3/4
15440 wipers for muskets, cost 12 1/2¢ ea.
12 screw drivers " , " 7¢
17084 flint caps, for " , " 1¢
102 arms cnests " " , " 2.10 1/5

3670 Hall's rifles, average cost 14.45+ eacn
3670 screw drivers for Hall's rifles, cost 7 1/4¢ ea/
3670 wipers " " " , " 19¢ ea.
367 bullet molds " " " , " 40¢ ea.
367 spring vices " " " , " 25 1/4¢ ea
20 ammunition flasks" " " , " 1.25 ea.

Expenditures

Buildings, canals, etc. $ 36,022.91

Manufacture of arms $133,436.85

Manufacture of Hall's rifles $ 38,348.55

Miscellaneous $ 1,192.08

Total $ 209,000.39

House Executive Dácument 322, 23rd Congress, 1st session, p. 2-4

Statement of the expenses and detailed operations at the Harper's Ferry Armory, and the arms made therein, during the year 1834.

Arms &c. Manufactured

12000 muskets, complete, average cost 11.66+ each
21400 wipers, for muskets, at 13¢ each
6896 ball screws " , " 15 ¢ each
6000 flint caps, " , " 1¢ ea.
25001 screw drivers " , " 7¢ ea.
74 arms chests " , " 2.14+ ea.

970 Hall's rifles
940 screw drivers for Hall's
960 wipers " "
47 spring vices " " Individual expenses of Hall's and
47 bullet molds " " accessories not given.
4734 flasks for rifles
1040 belts for rifles

Expenditures

Buildings, canals, etc. $ 45,038.16
Manufacture of arms $ 133,822.04
Manufacture of Hall's rifles $ 40,000.00
Miscellaneous $ 1,550.28
Total $ 1/ 220,410.48

House Executive Document 188, 23rd Congress, 2nd session, p. 2-4

Statement of exepnses, and of detailed operations at the Harper's Ferry Armory and Hall's Rifle Factory during the year 1835.

Musket Factory, arms &c. manufactured

10000 muskets, at an average cost of 10.78 6/10
2000 flint caps, at 1¢ eacn

Hall's Rifle Factory, arms &c. manufactured

1714 Hall's rifles at 15.70 eacn
3489 bayonets at 1.17 eacn
1714 wipers at 20¢ eacn
1714 screw drivers at 8¢ ea.
171 bullet molds at 40¢ ea.
171 spring vices at 26¢ ea.

Expenditures

Buildings, canals, etc. $ 23,432.47

Manufacture of Arms $ 107,880.73

Manufacture of Hall's rifles $ 30,679.61

Miscellaneous $ 7,696.83

Total $ 169,689.64

House Executive Document 294, 24th Congress, 1st Session, p.2-5

Statement of the expenditures and detailed operations at the Harper's Ferry Armory, and the Hall Rifle Factory, during the year 1836.

Musket Factory, Arms &c. manufactured.

9150 muskets at 11.73+ each
10000 flint caps at 1¢ each
1 model musket (509.14 including the 2 model Hall carbines)
447 arms chests

Hall Rifle Factory, arms &c. manufactured

1809 rifles, at 15.24 each
1518 bayonets, at 1.17 ea.
1770 screw drivers, at 8¢ ea.
1770 wipers, at 20¢ ea.
177 bullet molds, at 40¢ ea.
3000 rifle chargers,(flasks)complete with belts, at 1.25 each
177 spring vices at 26¢ ea.
2 model Hall carbines, cost above. (1837?)

Expenditures not given as totals.

House Executive Document 186, 24th Congress, 2nd session, p. 3,4

Statement of the expenses and detailed operations at the Harper's Ferry Armory, and Hall's Rifle Works, during the year 1837

Musket factory, Arms &c. manufactured

8200 muskets, complete, at 12.79 9/10 each
15,218 wipers
614 ball screws
70000 flint caps
592 screw drivers

Other expenses not broken down individually.
2,811.88 total for accessories

Expenditures

Permanent improvements $ 9,821.33
Manufacture of arms $ 109,971.24
Miscellaneous $ 2,839.42
Total $ 122,631.99

Hall's Rifle Factory, arms &c. manufactured

1200 rifles, at 15.17 4/5 each
1017 carbines, at 19.50 each
2217 wipers
200 spring vices
2217 screw drivers*
200 bullet molds
101 buckshot molds
1881 flasks, complete with belts
1017 hooks, bolts, and nuts for bolts

remainder 1,935.68 total, as above

* includes 1017 for carbines at 25 cents each

Expenditures

Permanent improvements $ 3,720.85
Manufacture of arms $ 42,500.71
Total $ 46,231.56

House executive document 428,25th Congress, 2nd session, p.3-5

Statement of the expenditures at the Harper's Ferry Armory, and of the arms and appendages manufactured therein, during the year 1838.

Arms &c. manufactured (not separated by factories)

12000 muskets, complete
22490 screw drivers
39,019 wipers
1041 spring vices also 3000 lead flint caps
1136 ball screws
All accessories for muskets
2934 Hall's rifles
2934 screw drivers
2000 wipers
293 spring vices
1973 bayonets
293 bullet molds, rifle
102 bullet molds, carbine
Accessories for rifles
Costs are not broken down individually

Expenditures

Permanent improvements $ 55,541.11

Manufacture of muskets, &c. $141,491.58

Manufacture of Hall's rifles, &c. $36,740.12

Miscellaneous $ 6,711.18

Total $ 240,483.99

House Executive Document 237, 25th Congress, 3rd Session, p.2

Statement of the expenditures at the Harper's Ferry Armory, and of the arms and c. manufactured therein, from 1 January to 30 September 1839.*

Arms &c. manufactured

5850	Muskets, complete
29027	screw drivers
21934	musket wipers
980	rifle wipers
4941	spring vices
842	bayonets, for rifles
100	battery springs
200	mainsprings
200	rifle stocks
100	ramrods
300	side pins, for supporters
50	cocks
100	upper jaws
200	neck pins
50	batteries

Expenditures

Permanent improvements $ 10,925.72

Manufacture of Arms $ 155,635.02

Machinery etc., under different appropriations $ 15,826.77

Total $ 182,387.51

* Agreeably to the new regulations, the accounts of the National armories are to be made up on the 30th September annually. The above statement, therefor, embraces only 9 months; but hereafter they will extend an entire year.

House executive document 101, 26th Congress, 1st session, p.2

Statement of the expenditures at the Harper's Ferry Armory from 1 October 1839 to 30 September 1840

8,304	muskets
3	model muskets
1,023	rifles, without bayonets (Hall)
1003	carbines (Hall)
2996	spring vices for muskets
422	" " " rifles
3580	screw drivers for muskets
1622	" " " rifles
9318	wipers for muskets
1622	" " rifles
500	musket bayonets
810	rifle "
1225	parts of arms, assorted, for muskets
2225	" " " " , for rifles
55	bullet molds
1	lock, model musket
3	side and tang screws, model musket
2	arms chests
10080	flint-caps

Expenditures

Lands, buildings, and other permanent improvements $ 18,089.78

Manufacture of small arms, &c. $ 153,388.03

Machinery, &c., under different appropriations $ 3,175.75

Total $174,653.56

Senate Executive Document, 20th Congress, 2nd. Session, p.2,3

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Statement of the expenses of the Harper's Ferry Armory, and the number of arms &c. made therein, during the year ending the 30 th of September, 1841.

8650	Muskets, complete
190	Hall's rifles
3799	Screw drivers for muskets
400	" " for rifles
4030	Wipers for muskets
398	Wipers for rifles
1663	Ball screws for muskets
49	Spring vices for rifles
25	Bullet molds for rifles
14817	Flint caps
8	Model rifles

Expenditures

Buildings, Dams, Canals, Machinery, &c. $ 74,002.87

Unwrought materials, tools, component parts of arms $ 22,709.95

Work performed prior to 30 Sept. 1840, payment for which was deferred until 1841. $ 48,887.17

Cleaning and oiling arms in store, repair, &c. $ 814.50

Cost of the arms, &c. made, including all expenses. $ 108,721.54

Total $ 255,136.03

On April 15, 1841, Edward Lucas was removed from the office of Superintendant of the armory on the order of the president. No successor was immediately appointed, due to the conviction that a superintendant not subject to the authority of a military officer, was considered injurious to the military service. An officer of the Ordnance corps was ordered to direct the operations. (Report of Sec. of War, Doc. 345, Senate Exec. Doc, 27th Congress, 2nd Session)

Statement of Expenses and Arms Manufactured at Harper's Ferry Armory during the year ending September 30, 1842.

6575 muskets, complete
10685 screw drivers for muskets
14867 wipers " "
567 spring vices " "
3234 flint caps
9 model rifles, with implements
1 model carbine, " "
3 sets of verifying gauges for rifles, models of 1841

Expenditures

Repairs, improvements, and machinery $ 45,260.31

Materials, tools, and component parts, not put together, and parts issued in that state. $ 34,346.74

Implements, flint caps, model arms, and guages $ 4,503.97

Cost of arms manufactured, total. $ 75,714.13

Total, including $7,288.01 due at Harper's Ferry on 30 September 1842, for labor. $ 159,825.15

House Executive Document 113, 27tn Congress, 3rd Session, p.2

Statement of the cost of materials, labor, and all other expenses, at the national armories, during the years 1840, 1841, and 1842, prepared in obedience to a resolution of the House of Representatives of the 3rd of January, 1843

Cost of the materials for the fabrication of fire arms

	-Springfield-	-Harpers Ferry-		
1840	$ 32,790.01 -	Muskets	$28,107.37	Rif.& Carb. $7,625.02
1841	50,613.94 -	"	27,737.09	" " " 4,727.50
1842	44,069.41 -	"	20,664.56	" " " 5,657.00

Price paid for labor on the Musket

	-Springfield-			
1840	Old model musket	$ 6.50	New model musket	$ 8.27
1841	" " "	----	" " "	8.27
1842	" " "	6.50	" " "	8.27

	-Harpers Ferry-			
	Old Model	New Model	Hall Rifles	Hall Carbines
1840	$ 6.99	$----	$ 6.00	$ 7.44
1841	6.99	----	6.44	----
1843	6.97	----	----	5.36

(From House Doc. 150, 27tn Congress, 3rd Session)

Statement of the number of public armories and arsenals under the direction of the Department of War; where the same are situated, the time when established, the quantity of land occupied by eac h, and the cost of the same, &c., &c., in compliance with the resolution of the House of Representatives of August 6, 1842.

Harper's Ferry Armory

Main or Musket factory-
Located at the junction of the Shenandoah river with the Potomac, in the state of Virginia.
Date of first deed for the land - June 15, 1796
Total of 2 deeds, of about 345 acres combined.
Cost of land - $ 17,016.66
Number of buildings erected - 8 buildings for officers and clerks, 154 buildings for workmen, 2 arsenals, 4 store houses, 1 magazine, 2 offices, 9 work shops, and 5 others in which machinery is driven by water; 1 foundry and annealing house, and 12 others used as coal and lime houses, stables, &c. Machinery to value of $ 147,574.
Whole amount paid for total, from its establishment, $ 1,036, 172.13
Money value of stores on hand Sept 30, 1841. $ 2,246,236.55

Rifle Factory-
Main location on the left bank of the Shenandoah, a short distance above the Armory.
Date of first deed for the land, June 27, 1833
One deed, including certain water rights; the site is included in the 345 acres.
Cost of land - $ 2,610.00
Number of buildings erected - 3 store houses, 1 office, 10 work shops, 4 others in which the machinert is driven by water; 3 annealing houses and 5 others for coal, lime, &c. Machinery to value of $ 95,783.00

Secondary property-
1 deed of Aug. 26, 1813, the right to cut fire wood on 1395 acres located on the right bank of the Shenandoah river, opposite the factory
Cost - 20,860.00 No buildings

1 deed of Oct. 17, 1818, to 68 acres and 80 perches, on the right bank of the Shenandoah, ~~opposite the factory~~, at its junction with the Potomac. Cost- 5,000.00 No buildings

Statement of the expenses and arms fabricated at the Harper's Ferry Armory from September 30 1842 to the close of the new fiscal year ending June 30, 1843.

3105 Muskets
300 Rifles (Hall's)
1001 Carbines (Hall's)
1999 Wipers
1950 Screw drivers
501 Spring vices
131 Bullet, ball, and buckshot molds

Expenditures

Repairs, improvements, and new machinery $ 29,527.37

Other repairs $ 2,952.69

Materials, tools, and labor $ 36,713.39

Same, for expenses incurred within the year. $ 49,501.25

Total $ 118,694.70

House Executive Document 23, 28th Congress, 1st Session, p.2

Statement of the number and value of the Fire Arms in deposite at the Harper's Ferry Armory, The number of men employed, the number & grade of officers stationed there, and the amount of money disbursed In compliance with request of the House of Representatives.

Fire arms in deposit 30 September, 1842

	-Number-	-Value-
Muskets	26,699	$ 347,015.00
Rifles	4,117	65,709.84
Carbines	1,265	22,137.50
Pistols	8	57.00

Average number of men employed each year 1841,'42

	Mil. Enlisted	Civ. Hired
1841	316	18
1842	278	

Officers 1841 1 Storekeeper
" 1842 " " , also 1 Major

Money disbursed 1841 $ 255,382.72
1842 152,536.54

House Doc. 3, 28th Cong., 3rd Sess., p.4

Statement of the expenses of the Harper's Ferry Armory, and the arms &c. made thereat, from July 1 1843 to June 30, 1844

608 Muskets, flintlock
1 Musketoon
2700 Halls rifles
1 Model percussion rifle
73 Ball screws
15315 Wipers
3123 Screwdrivers
304 Spring vices
3191 Bullet molds

Expenditures

Repairs, improvements, and machinery $ 32,736.40

Other repairs $ 2,309.66

Expenses incurred prior to the year $ 2,202.28

Materials, tools, and labor $ 91,844.95

Total $ 129,093.29

Much of the appropriation was expended in preparing for the manufacture of the new model percussion arms, (1842)

28 House Exec. Doc. 43, 28th Congress, 2nd Session, p.5

Statement for the year ended June 30, 1845
Harpers Ferry Armory, Commanded by Major Symington

Arms &c. fabricated during the year ended 30th June, 1845

2225 Percussion muskets, new model, with appendages
361 Mainsprings, musket)
108 sear springs ")
44 tumbler screws ")
296 bayonets ")
2056 barrels ")
46 packing boxes ")
2 musket components, assorted, standard model)
6 musket battery screws, " " ")
* All model of 1822, issued for repair of arms in service.
*issued as models to private contractors
1 standard model percussion rifle, with appendages
30 rifle components, standard model, for issue to private contractors
1 set of verifying gauges for new model rifle.

Senate Executive Document 1, 29th Congress, 1st session, p. 418, 419

Expenditures

Repairs, improvements, and new machinery $ 28,701.20

Expenses incurred prior to the year $ 138.21

Materials, tools, and labor $ 139,612.23

Total $ 168,451.54

House Exec. Doc. 96, 29th Cong., 1st Session, p.2

Statement of the principal operations at the Harper's Ferry Armory during the year ended June 30, 1846

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR SYMINGTON

The Annual report of the Secretary of War was included with the less detailed expense report beginning in 1844, but 1845 was the first year in which the breakdown of separate armories included a list of the arms etc. manufactured. As of 1846 tne arms are not yet listed under Musket factory and Rifle factory subheadings.

Arms &c. fabricated during the year.

12,203 percussion muskets
6121 wipers for "
8629 screwdrivers for "
476 ball screws " "
1239 spring vices " "
7000 extra cones " "
2080 cone picks " "

700 percussion rifles (this and the following probably from the
426 wipers for rifles Rifle factory)
2 screwdrivers for rifles
2 ball screws " "
2 spring vices " "
2 bullet molds " "
702 extra cones " "
2 rifles, pattern or sample
3 sets complete verifying gauges for new model (1841) rifle
800 musket barrels, Model 1822)- for issue to different arsenals
405 bayonets " ") to replace defective parts
9477 flint caps, lead)
500 rough stocks, turned ")

Repairs to buildings, new construction, etc. is broken down by factories since 1844.

House Executive Document 4, 29th Congress, 2nd Session, p.163

Expenditures

Repairs and improvements $ 62,468, 77

Materials and labor, total $ 173,144.84

Total $ 235,613.61

House Exec. Doc. 41, 29th Cong., 2nd Session, p.2

Statement of the principal operations at Harper's Ferry Armory, during the year ended June 30, 1847

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR J. SYMINGTON

Small Arms

11600 muskets, complete
400 " , without bayonets

For Muskets:
15402 screw drivers
2456 spring vices
10130 extra cones
1661 ball screws
1133 wipers
8818 cone picks
3054 rifles

For Rifles:
2613 wipers
4157 screw drivers
3054 extra cones
387 ball screws
382 bullet molds
53 " " , conical
842 spring vices

6 sets complete of machines and implements for altering flintlock muskets to percussion.

A large quantity of components, including barrels, bayonets, ramrods and bullet molds, have been fabricated and issued to other arsenals for repairs of arms in service, as follows:

1590 assorted components of percussion musket
2117 " " " " rifle
20979 " " of muskets, models of 1822 and 1840, and of the old pattern rifle (1817).
112 sets of swivels and rivets for carbines
1 set of armorers tools.

House Executive Document 8, 30th Congress, 1st Session, p. 690-92

Expenditures

Repairs and improvements $ 55,346.27

Materials, tools, and all salaries $ 207,478.34

Total $ 262, 824.61

House Exec. Doc. 22, 30th Cong., 1st Sess., p.3

Statement of the principal operations at the Harpers Ferry Armory during the year ended June 30, 1848.

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR SYMINGTON.

Arms and appendages fabricated

11000 percussion muskets
600 bayonets, extra
12310 screw drivers
8111 wipers
15648 extra cones
1428 ball screws
1321 spring vices
} For Muskets

2802 percussion rifles
554 screw drivers
2802 extra cones
237 bullet molds
229 " " , conical
2095 wipers
382 ball screws
} For Rifles

2 rifled rampart arms, with stands and appendages, experimental.
2018 musket wipers, model of 1822
432 " screwdrivers, " " "
457 " ball screws, " " "
440 carbine wipers
484 carbine cone wrenches
432 carbine cones
137 carbine screw drivers
27 musket)
14 rifle) Standard taps for die stocks
123 browned muskets, 4th class, model of 1822, repaired and returned to 3rd class.
40519 cones for muskets)
1296 " " rifles) Altered and replaced in the arms.
2963 " " patent rifles)
600 musket barrels, model of 1822
7300 assorted musket components, 1822
6875 carbine components, assorted, 1822 (?)
624 arms chests of all types

House Executive Document 1, 30th Congress, 2nd Session, p.345-49

Expenditures

Repairs and improvements $ 75,269.63

Materials, tools, and labor $ 183,264.55

Total $ 258,534.18

House Exec. Doc. 25, 30th Cong., 2nd Session, p.2

REPORT of the SECRETARY OF WAR in answer to A Resolution of the Senate calling for information in relation to armories, arms, &c.

War Department
Washington, June 10, 1848

Sir:

In answer to the resolution of the Senate, dated April 28, 1848, calling for certain information in regard to Armories, the manufacture of fire arms, &c., I have the honor to transmit, herewith, a report from the Colonel of Ordnance.

Very respectfully, your obedient servant,

W.L. MARCY
Secretary of War

Hon. George M. Dallas,
President of the Senate

Statement of expenditures at the United States Armory at Harper's Ferry, Virginia, and of the arms and appendages made therein, from its establishment to the 31st of March, 1848.

To accompany report of the Secretary of War of June 10, 1848.

Years	For land including mill sites, and the houses on the land when purchased	Buildings, milldams, canals or races, &c.	Repairs of buildings dams, &c.	Total for lands, buildings, and improvements.
From its establishment to the 31st of December, 1821*				
	$42,877.28	$256,509.41	$ 66,793.32	$ 366,180.01
1822		5,134.75	350.00	5,484.75
1823		11,037.80		11,037.80
1824		16,271,96		16,271.96
1825		4,101.50	2,171.50	6,273.00
1826		9,847.66	431.97	10,279.63
1827		7,550.87		7,550.87
1828		6,533.00	5,500.00	22, 033.00
1829		1,461.82		157.33
1830		14,431.93		14,431.93
1831		18,237.33		18,237.33
1832		18,408.68		18,408.68
1833	2,600.00	33,422.91		36,022.91
1834		45,038.16		45,038.16
1835		23,432.47		23,432.47
1836		28,678.42		28,678.42
1837		81,579.27		81,579.27
1838		55,541.11		55,541.11
1839	(Sep. 30)	26,752.49		26,752.49
1840		18,315.53		18,315.53
1841		57,578.88	16,423.99	74,002.87
1842		37,598.60	7,661.71	45,260.31
1843	(Jun. 30)	29,527.37	2,952.69	32,480.06
1844		32,736.40	2,309.66	35,046.06
1845		28,386.04	315.06	28,701.10
1846		62,468.77		62,468.77
1847		55,346.27		55,346.27
	Totals $45,477.28	985,939.40	105,067.23	1,136,483.91

* This line gives totals of report made Nov. 30, 1822 (See State Papers, vol.2, military affairs, page 481)

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Statement of the principal operations at the Harper's Ferry Armory during the year ended June 30, 1849
HARPER'S FERRY ARMORY, COMMANDED BY MAJOR SYMINGTON

Arms and appendages fabricated

8300	percussion muskets
1925	" rifles
278	flintlock muskets altered to percussion
16120	extra cones
836	ball screws
14537	wipers
11887	screw drivers
1415	spring vices
285	bullet molds
1741	screw drivers for altered muskets
10838	hammers for percussioning flint muskets
19826	cones for percussioning muskets
330	musket barrels, model of 1822
147	ball screws, " " "
1	percussion rifle lock, complete
10310	assorted components for percussion rifles and muskets, fabricated for issue to other posts.
1	set complete, of machines and implements for altering flintlock muskets.

Expenditures

Repairs and improvements $ 55,674.70

Materials and workmanship $ 168,184.14

For altering flint lock muskets $ 13,368.72

Total $ 237,227.56

Senate Executive Document 27, 31st Congress, 1st Session, p.3,4
" " " 1, " " " " , p.362-66

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR J. SYMINGTON

Report of the operations at this armory during the fiscal year ended June 30, 1850

Small arms &c. fabricated

Musket factory

9600 percussion muskets
5088 extra cones for percussion muskets
2603 screw drivers " " "
544 spring vices " " "
2420 wipers " " "
366 ball screws " " "
14325 components, assorted, for issue to other posts
163 lock components, " " " " " "

Altering flint lock muskets to percussion

10836 muskets altered to percussion
34502 cones fabricated
41580 screw drivers "
31806 hammers "
75 barrels, model 1822, fabricated
30 muskets, model 1840, "
52 muskets, model 1822, "
1 musket, 'a la tige', fabricated
1 musket, 'Perry's plan', fabricated

Remarks

New north wing of stocking and machine shop
" lumber house
" Polishing shop

Riflefactory

2676 percussion rifles
4701 extra cones for percussion rifles
2989 screwdrivers " " "
5046 wipers " " "
536 ball screws " " "
140 bullet molds, conocal " "
318 bullet molds, round " "
512 spring vices, for percussion rifles
1983 components, assorted, for issue to other posts
1 lock
1522 components, assorted, model of 1822, for issue to other posts
200 ball screws, " " " " " " " "
1845 wipers, " " " " " " " "

Remarks

New tilt hammer shop

Senate Executive Document 1, 31st Congress, 2nd session, p. 474-76

Expenditures

For eapairs, improvements, and new machinery	$ 157,185.37
For manufacture of arms	$ 38, 173.24
Total	$ 195,358.61

Harper's Ferry Armory, Commanded by Major J. Symington

Report of the operations at this armory during the fiscal tear ending June 30, 1850.

Small Arms &c fabricated

9600	percussion muskets
5088	extra cones for percussion muskets
2603	screw drivers " " "
544	spring vices " " "
2420	wipers " " "
366	ball screws " " "
14325	components, assorted, for issue to other posts
163	lock components, for issue " " "
2676	percussion rifles
4701	extra cones, for percussion rifles
2989	screwdrivers " " "
5046	wipers " " "
536	ball screws " " "
140	bullet molds, conical, " " "
318	bullet molds, round, " " "
512	spring vices, for percussion rifles
1983	components, assorted, for issue to other posts
1	lock, " " " " "
1522	components, assorted, model of 1822, for issue to other posts
200	ball screws, " " " " " " " " "
1845	wipers, " " " " " " " " "

Altering flint lock muskets to percussion

10836	muskets altered to percussion
34502	cones fabricated
41580	screw drivers "
31806	hammers "
75	barrels, model 1822, fabricated
30	muskets, model 1840, "
52	muskets, model 1822, "
1	musket, 'a la tige', fabricated
1	musket, 'Perry's plan', fabricated

Buildings &c. - Musket factory

1st. The center building, and north wing of the new stocking and machine shop, described in the last annual report, when partially completed, has been finished.

2d. The new lumber house, also described in the last report, has been completed.

3d. The excavation, stone foundation, and brick walls, with cut stone coping, water table, window and door sills of new tilt hammer and barrel welding shop have been completed, and the roof is now being put on. This shop is 190 feet long by 53 1/2 feet wide, of one story, floor to be laid with stone flagging, and roof (having a continuous ventilator along the ridge) to be covered with slate. The door and window frames are of cast iron.

4th. The front enclosing wall of armory yard has been finished; its extent, about 340 linear feet. The gate front is built with piers and low panels, the upper part of the panels fitted with iron railing to the height of the piers.

5th. A new polishing shop has been erected, 40 by 22 feet, two stories high, of brick, on stone foundation, and covered with slate. This shop is built in connection with the bell shop and boring mill, and covers the large iron overshot wheel that drives in part the machinery in those two shops.

6th. A double annealing furnace and stack of brick work, with cast iron front, has been erected in one of the old smith shops; also in the same shop, a new charring furnace, with cast iron cylinder.

7th. A number of permanent places of deposit for coal and other heavy articles, not liable to injury from weather, have been made under the superstructure of the Baltimore and Ohio railroad, by filling up with quarry rubble, and flooring with rough boards.

8th. Various important improvements have been made in the interior arrangements of the shops, as well as extensive repairs to dwellings.

Rifle Factory

9th. The new tilt hammer shop, 110 feet long, by 35 1/2 feet wide, the center projecting in the rear 14 1/2 feet, on a width of 35 1/2 feet, for office for foreman, has been put up. The building is one story, of brick, over a stone basement, with cut stone water table, steps, sills, and coping, cast iron door and window frames, and covered with slate. This shop will be completed in a few weeks - the laying of the floor, paving the basement, and putting in the window sash, being all that is required to finish it.

10th. There has been a considerable amount of grading done on the grounds around the shops at the rifle factory, rendered necessary by the unevenness of the surface, the old race ways having to be filled up.

Senate Executive Document 1, 31st Cong., 2nd Session, p. 474-476

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR SYMINGTON

Report of the operations at the Harper's Ferry Armory for the year ended June 30, 1851

Musket Factory

11100 percussion muskets fabricated
5692 extra cones for muskets "
2095 spring vices " " "
10652 wipers " " "
3895 screw drivers " " "
41001 components, assorted, fabricated and issued to other posts
1 bullet mold for musket 'a la tige' fabricated
1 chisel "B " " " " "
1 set tools for four armories in the field, fabricated and issued to other posts
1242 wipers for musket, model 1822, fabricated
44830 cones for percussioning flint lock muskets, fabricated
34983 hammers " " " " "
45607 screw drivers " " " " rifles, "
The whole of the above fabricated during the year

Remarks

Three new turbine water wheels
Heating of buildings improved

Rifle factory

3050 percussion rifles, brass mounting, fabricated
3550 extra cones for rifles "
1699 wipers " " "
134 bullet molds, conical, for rifles "
61 " " round, " " "
2516 screw drivers for rifles, fabricated
12664 components for rifles, assorted, fabricated for issue to other posts

Remarks, additional, Musket factory

New tilt hammers and barrel welding shop
New grinding, saw mill, and carpenter shop

Remarks, Rifle factory

New trip hammer and smith's shop

In presenting this report, it is proper to remark that, owing to the prevalence of cholera in this place and vicinity, during the three first months of the year, the operations of the armory were interrupted, averaging a total interruption of six weeks during that period.

Expenditures

25

Repairs and improvements, including buildings, dams, fences, &c. $ 62,399.44

Manufacture of arms, and salaries, &c. $ 175,641.25
Parts for altering of flint lock muskets $ 14,048.00
Total $ 252,088.69

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR SYMINGTON

Report of the operations at the Harper's Ferry Armory, for the year ended June 30, 1851

Musket factory

11100 percussion muskets fabricated.
5692 extra cones for muskets fabricated.
2095 spring vices " " "
10652 wipers " " "
3895 screw drivers " " "
41001 components, assorted, fabricated and issued to other posts.
1 bullet mold for 'musket a la tige' fabricated
1 chisel " " " " " "
1 set tools for four armories in the field, fabricated and issued to other posts.
1242 wipers for musket, model 1822, fabricated
44830 cones for percussioning flint lock muskets, fabricated.
34983 hammers " " " " " "
45607 screw drivers " " " rifles "
The whole of the above fabricated during the year.

Remarks

Three turbine water wheels have been placed in position - one at the new grinding and saw mill, and two at the new tilt hammer shop; and substantial wheel pits of masonry sunk, together with cast iron head gates, set in solid walls of grouted masonry; also three water wheel regulators placed in position, complete. Heavy foundation walls of masonry have been erected in new grinding mill, to support the cast iron frames for the stones, which have been transfered from the old to the new shop, and placed in position. New housings for the stones have been made and attached, and extensive repairs done to the fixtures generally of the mill, which is now in complete running order.

The machinery for tilting and barrel welding has undergone considerable repairs, as has also the pit gears attached to replace those worn out. One fan blast has been placed in position in the new tilt hammer shop, together with fifty feet of pipe for carrying blast to forges. Heavy repairs have been made upon the dam across the Potomac river, and extensive repair to the armory tools in current service.

The facilities for warming shops have been very much improved at the musket and rifle factories, by six hundred and forty four feet of sheet iron stove pipe, eleven inches in diameter.

Rifle factory

3050 percussion rifles, brass mounting, fabricated
3550 extra cones for rifles " "
1699 wipers " " "
134 bullet molds, conical, for rifles "
61 " " round " " "
2516 screw drivers for rifles
12664 components for rifles, assorted, fabricated for issue to other posts

Remarks

In the new tilt and smith's shop, anvil blocks of oak timber have been placed in position at each of the forges, and the floor of the building covered with stout sheet iron. Nine cast iron forges and fixtures have been placed in position, complete, together with furnace for heating iron and steel for tilting

One fan blast, and pipe for conducting blast to forges, have been placed in position, complete; the whole being now in working order. Extensive repairs have been made to armory tools in current service.

Buildings &c.

Musket factory

1. New tilt hammer and barrel welding shop described in last report has been completed, and a portion of the machinery placed in position, including two iron turbine wheels, the whole of the main line of shafting, four trip hammers, (belt) and one fan blast and pipe; the remaining machinery, &c. for this building, is in hand.
2. New grinding and saw mill and carpenter's shop has been erected, and is now occupied. This building, 110 by 36 feet, is similar in style to the other new shops; it is of brick, on stone foundation, with cut stone water table, coping, door and window sills, &c, cast iron door and window frames, roof covered with slate, and gutters and spouts of copper. The centre building (one third of the whole length) is of two stories; the wings of one story. One of the wings is the grinding mill, now in full operation; the other wing, with the center building, will accomodate the saws, planing machine, wood turning lathes, and other machinery necessary for making arm chests, &c. The turbine wheel now in operation will suffice for the whole of the machinery in this shop.
3. A new store room for files, 11 by 30 feet, of brick on stone foundation has been built in connection with suitable compartments for the different varieties of files. The building is covered with sheet tin.
4. The excavation and stone masonry for foundation of annealing shop and brass foundry, is nearly complete and ready for the brick masonry. This building will be 109 1/2 by 36 feet, divided by partition walls into three compartments, and of the same style and finish as the other new shops.
5. The grading of the street along the canal, and the building of the stone wall on one side of said street, at the foot of the precipitous slope, to prevent the wash being deposited in the canal, is nearly completed. The grading of the road extends about 1100 feet along the canal on an average width of about 40 feet, requiring an average depth of excavation and filling of 1 4/12 feet; the wall is 667 feet in length, and 2 1/2 feet thick.
6. An additional number of bins for the deposit of coal, &c., has been made under the Baltimore and Ohio railroad, by filling up with quarry rubble, covered with a rough floor of old plank.

Rifle factory

7. The trip hammer and smith's shop, partially completed and described in last report, is now completed and occupied. There are five trip hammers (belt) in operation in this shop; the forges, nine in number, are all of cast iron, and one cast iron turbine wheel will suffice for all the machinery designed for this building.
8. The stone foundation for the annealing shop and proof house is completed and ready for the brick masonry. The furnace, with its flue, is also completed and in use. This building will be 60 by 36 feet, divided by two partitions into three compartments, and in style and finish like the other new shops.
9. Two abutments of masonry, with wing walls, for a bridge over the canal, have been erected, together with considerable filling in, rendered necessary by the improvement.

In addition to the foregoing, there has been much filling and grading of the grounds, both at the musket and rifle factories, to an extent of 3000 cubic yards, and some necessary repairs have been made to the quarters of officers and clerks, and also to the dwellings occupied by work-

Two coats of patent paint, in oil, have been applied to the exterior walls of all the shops (except three not yet completed) and storehouses also to the commanding officer's, paymaster's, and master armorer's quarters. Lightning rods have also been attached to all these buildings.

In presenting this report, it is proper to remark that, owing to the prevalence of cholera in this place and vicinity, during the three first months of the year, the operations of the armory were interrupted averaging a total interruption of six weeks during that period.

House Exec. Doc.2, 32nd congress, 1st session, p.456-459

HARPER'S FERRY ARMORY, COMMANDED BY BREVET COL. B. HUGER

Report of the principal operations at Harper's Ferry armory, during the fiscal year ended June 30, 1852

Musket Factory, Arms and appendages fabricated.

13400 percussion muskets (No muskets completed during May or June because of damage from flood of April 20)
9793 cones, extra
29524 screw drivers
21371 wipers
1886 ball screws
1553 spring vices
2078 components, assorted, for issue to other posts
35415 cones for percussioning flint muskets
6313 screwdrivers for " " "
6745 Hammers " " " "

Remarks

The grounds were overflowed by the flood of April 20, 1852. Water was 10 feet deep over the yard, and six feet deep in the shops. All was cleaned up, and the walkways and roads rebuilt.

Rifle factory, Arms and appendages fabricated

3227 percussion rifles, steel barrels, brass mountings
3227 cones, extra
6118 screw drivers
5592 wipers
615 ball screws
161 bullet molds, round balls
74 bullet molds, conical

~~Expenditures~~/ Expenditures

The ~~manu~~facture of arms, appendages, and tools $ 197,478.29
For repairs and improvements, and new machinery $ 44,631.80
Total $ 242,110.09

Grounds, &c.

The principal workshops at the rifle works were not injured by the flood of April 20. The lower buildings and ground were covered. These works were suspended a day only. The grounds have been cleaned up and partially graded.

Remarks

26

The flood of 20th April overflowed the old arsenal, which is built on low ground, and damaged over 20,000 stand of arms. These had to be stripped and cleaned, and no muskets were manufactured during the two remaining months of the fiscal year. All the force that could be so employed were set to repairing these damaged arms, among which were 9000 new percussion muskets, all of which were stripped and the parts thrown into boxes. When they had been cleaned and repolished, they were put together again without any difficulty, all the parts [illegible]

Employment as of June 30, 1852, from report of R.L.Baker, Inspector of Armories and arsenals, to Col. H.K.Craig, Chief of Ordnance

1 Master armorer
4 clerks
1 asst. clerk
16 foremen
32 machinists
5 barrel forgers (average days pay 2.25)
5 lock forgers)
3 bayonet forgers)- ave. days pay 2.04
8 mounting forgers)
4 trip hammer men
12 asst. forgers
4 annealers
9 borers (ave. pay 2.03)
34 turners and drillers
3 grinders
12 lock filers (ave. pay 1.95
29 mounting filers (ave. pay 1.89)
7 polishers (ave. pay 1.98)
19 stockers (" " 1.82)
23 barrel finishers(ave. pay 1.77)
1 arm assembler
7 blacksmiths, for jobbing.
1 job filer
9 carpenters
103 laborers *

* Many of the laborers are temporarily employed in cleaning the wet arms, &c., and will be discharged when that work shall be finished.

HARPERS FERRY ARMORY, COMMANDED BY BREVET COLONEL BENJAMIN HUGER

Report of the principal operations at Harpers Ferry Armory, during the fiscal year ended June 30, 1853.

Musket factory - Arms and appendages fabricated.

10101 percussion muskets, complete
23026 cones, extra
1911 ball screws
26,374 wipers
30,478 screw drivers
935 spring vices
134 bullet molds
15535 cones for percussioning flint lock muskets
8785 hammers for altering flint lock arms to percussion
24295 (total) screw drivers, hammers, and wipers for flint lock arms

Remarks

The dam over the Potomac, injured by the 1852 flood, has been repaired.

Rifle factory - Arms and appendages fabricated

2762 percussion rifles
7863 components for rifles
9 experimental rifles and appendages

Remarks

The 9 experimental rifles were tested with 'a la tiges and Minie bullets. Tests were suspended early, but results were generally unfavorable.

Expendatures

For repairs and improvements, and new machinery $47,979.19
For manufacture of arms $ 133,248.83
Parts for altering flint muskets to percussion $ 3,853.22
Total $ 185,081.24

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Senate Executive Document 1, 33rd Congress, 1st session, p.276-79
" " " 15, " " " " p.2-3

HARPER'S FERRY ARMORY, COMMANDED BY MAJOR W.H. BELL

Report of the principle operations at this armory , during the fiscal year ended June 30, 1854

Musket factory, Arms and appendages fabricated.

9000 percussion muskets, model 1842, complete
10973 cones, extra
2755 wipers
1065 spring vices
5256 hammers for percussioning flint muskets (or 6556)
7897 screw drivers for " " "
9652 components, assorted, for issue to other posts
5000 rifle cartridges, " " " " "
2 swedges for elongated balls for issue to other posts

Remarks

Foundation for the new arsenal nearly finished.
New rolling mill nearly completed.

Rifle factory, Arms and appendages fabricated.

2761 percussion rifles, steel barrels, brass mountings
2761 cones, extra
3109 wipers
3105 screw drivers
550 ball screws
685 spring vices
880 bullet molds, for round balls
209 " " for conical balls
1001 components, assorted, for issue to other posts
6 bullet molds, for elongated balls
Experimental arms
1 percussion rifle, steel barrel, 32 to the pound
2 percussion rifles, steel barrels, 24 to the pound
5 bullet molds, for elongated balls
5 swedges, for elongated balls

Expenditures

For repairs, improvements, and new machinery $ 60,023.04
For manufacture of arms $ 111,672.58
For ordnance stores and supplies $ 5,114.04
For flood damages $ 20,000.00
Total $ 196,809.66

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House Executive Document 33, 33rd Congress, 2nd session, p.2-3
" " " 1 , " " , " " , p.360-62

HARPER'S FERRY ARMORY, UNDER THE SUPERINTENDENCE OF HENRY W. CLOWE

The principal operations at this armory , during the fiscal year ended June 30, 1855

Musket factory, Arms and appendages fabricated

7700 percussion muskets, model of 1842, complete
2148 cones, extra
11279 wipers
2672 spring vices
10322 screw drivers, percussioned flint lock musket
5,329 screw drivers
907 ball screws
5340 components, assorted, for issue to other posts
2000 ball cartridges, " " " " "
172 bullet molds, brass, for elongated balls
44 swedges, for elongated balls
1639 sword bayonets for rifles, stud attachment
1646 sword bayonets for rifles, ring attachment
40 sword bayonets for rifles, (musicians')stud attachment
8 reamers for sword bayonets
92 sword bayonet boxes
3199 long range back sights for rifles, screw pattern
1662 long range back sights for rifles, slide pattern
3 experimental muskets
176 arm chests

Remarks

New powder magazine, on the bluff above the canal basin
New stock house, foundation same as reported last year as for new arsenal.

Rifle factory, Arms and appendages fabricated.

1300 percussion rifles, brass mountings
590 " " with long range sights, screw pattern
449 " " " " " " , slide pattern
2339 Total
1041 percussion rifles, brass mountings, recieved from Washington arsenal, adjusted with long range sights, screw pattern, and studs for sword bayonets.
1200 percussion rifles, brass mountings, rec'd from Washington arsenal, adjusted with long range sights, slide pattern, and studs for sword bayonets.
3589 wipers fabricated
3597 screw drivers "
41 ball molds, round "
100 " " conical "
2439 cones, extra
326 carbine barrels
325 carbine cones, extra
929 rod ferrules
2499 components, assorted, for issue to other posts
40 swedges for balls
2 bullet molds, brass, for elongated balls
3 experimental arms

Expenditures

For repairs, improvements, and new machinery $ 37,292.67
For manufacture of arms $ 122,968.93
Ordnance and Ordnance stores $ 19,009.05
Total $ 179,270.65

House Executive Document 1, 34th Congress, 1st session, p.555-58
" " " 21, " " " " p.2

HARPER'S FERRY ARMORY, HENRY W, CLOWE, SUPERINTENDENT

Report of the operations at the armory, during the fiscal year ended June 30, 1856

Musket factory, Arms and appendages fabricated

1500 bright percussion muskets altered, i,e. rifled and sighted
500 " " " " " " " " and browned
6702 screw drivers for percussion muskets.
5246 wipers
1420 ball screws
16273 cones, extra
35 ball molds, expanding balls, brass, .69 caliber
5805 long range rear sights for percussion muskets
82 flint lock muskets rifled, sighted, and arranged for Maynard primer
99 screw drivers for flint lock muskets
1 ball mold for North's carbine, expanding ball
134,495 tools and assorted parts for rifle musket and rear sights, part finished, and part in various stages of manufacture.
2684 ball screws and cones for muskets altered
3104 rear signts for percussion rifles
2111 tompions for percussion rifles
367 ball molds, brass, expanding balls for percussion rifles
3179 sword bayonets for percussion rifles
5426 parts of sword bayonets, in various stages
59302 pounds wrought iron blooms and billets, made from scraps
20, 836 various parts, forged for rifle musket, new model
71825 pounds iron rolled, for macninery and components
4458 pounds brass, cast from scrap for components
195 packing boxes
32 wrought iron snapes for gun carriage axles

Remarks

Stock nouse, reported last year, completed.
Bridge across the canal has been covered.
Much walling, dry and masonry, completed to protect the banks of the canal fron injury from floods and heavy rains.

Rifle factory, Arms and appendages fabricated

800 percussion rifles, steel barrels, .58 caliber, altered for long range sights
250 percussion rifles, .54 caliber, altered for long range sights.
1000 percussion rifles, steel barrels, .58 caliber, in a forward state of alteration
3942 appendages for percussion rifles finisned
35613 components for percussion rifles finisned
9761 components for percussion rifles in progress

Expenditures

32

For repairs, improvements, and new machinery. $ 39,858.00
For manufacture of arms $ 123,376.01
Ordnance and ordnance stores $ 34.42
For arming and equipping militia, applied to manufacturing for them $ 66.28

Total $ 163,334.71

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HARPER'S FERRY ARMORY, HENRY W. CLOWE, SUPERINTENDENT

Report of the principal operations at Harper's Ferry Armory, during the fiscal year ending June 30, 1857

Musket factory, Arms and appendages fabricated

8126 bright percussion muskets altered for long range sights and rifled
1000 browned percussion muskets altered for long range sights and rifled.
15790 long range sights for rifled percussion muskets
6500 front signts for rifled percussion muskets
18798 screwdrivers for altered percussion muskets
50 bullet molds, sixty nine caliber, for casting eight balls each
10 ninge sights, long range, for rifles
29 swages for balls, percussion rifle muskets, sixty nine caliber
418 ball screws, " " " " " "
384 rod spring pins
2 sword bayonets for rifles
1 flint lock musket altered to percussion and rifled
2 percussion musket barrels rifled
50 upper bands for percussion muskets, sighted
28 long range signts for percussion rifles, fifty four caliber
2 sword bayonets for rifle, model 1855
9 rifling rods
1 rifle musket, model 1855, with appendages
50 screws for sights for rifle musket
6 bullet molds, eight balls eacn, fifty eight caliber
250 leaves and slides for sights for altered rifle
48 springs for sights for altered rifle
50966 pounds of iron made and rolled from blooms for fence
4225 pounds of iron made and manufactured into components
1725 pounds of iron manufactured
106 packing boxes
4000 rifle muskets in various stages of manufacture
8911 barrels " " " " "

Rifle factory, Arms and appendages fabricated

803 percussion rifles, .58 caliber, altered and arranged with sword bayonets
142 percussion rifles, .54 caliber, altered and arranged with sword bayonets
6033 swivels, wipers, spring vices, and bands, for rifles
10 percussion rifles, model of 1855
62 components and appendages for rifles
23 guages, assorted
1 percussion rifle, iron mounting
2 bands for rifle, iron mounting
2021 components of rifle
53 swages for balls, caliber .58 and .54
9 upper bands with swivels
2305 rifle stocks, first and second turned, for supplies

Remarks
New rifle factory finishing shop

EXPENDITURES

For repairs, improvements, and new machinery	$ 45,081.91
Manufacture of arms and pay of civil superintendents	139,916.74
Ordnance and ordnance stores	11,414.97
Arming and equipping the militia, applied to manufacturing for them.	91.66
Recieved from the sale of lots	20,515.75
Total	$ 217.023.03

House Executive Document 2, 35th Congress, 1st session, p.549-553
" " " 55, " " " " , p. 2-3

HARPER'S FERRY ARMORY, H.W. CLOWE, SUPERINTENDENT

Report of the operations of this armory for the fiscal year ending June 30, 1858

Musket factory, Arms and appendages fabricated

8581 rifle muskets, model 1855
1434 percussion muskets, caliber 69, rifled and sighted
15,826 spare parts of arms for issue to other posts
23629 appendages for rifle muskets
6004 tompions for rifle muskets
372 ball screws
130 locks, complete, for percussion muskets
1364 tumbler and band spring punches for rifle muskets
892 screwdrivers, forged and tempered
3335 long range sights, and 494 spare parts of same
293 musket barrels, polished, unserviceable
2484 rifle musket barrels in various stages, unserviceable
6 musket barrels, model 1840, experimental
2 swages for musket balls, caliber 69
74 bullet molds for expanding balls
50 arms chests for rifles
400 arms chests altered for new model musket
69 packing boxes for swords

Rifle factory, Arms and appendages fabricated

374 rifles, complete, model 1855
1345 rifles, without long range rear sights, model 1855
1663 percussion rifles, altered to sword attachment and long range sight
3852 screwdrivers and extra cones, for rifles.
2251 sword bayonets, for rifles
1719 moveable sights for rifles, model 1855
85 swages for balls
1 drift for swage, .54 caliber
2 locks, model 1855
1416 spring vices
2491 wipers and spring vices
2582 rifle stocks finisned for percussion rifles
8 core pins for bullet molds
20 rear sights for altered muskets
5867 parts for repair of arms, supplied to other posts.

Expenditures

Repairs, improvements, and new macninery $ 25,044.68
Manufacture of arms and pay of civil superintendants $ 197,777.72
Ordnance stores and purcnase of breecnloading arms $ 4,764.37
Arming and Equipping the militia, etc. $ 274.50
Recieved from tne sale of lots $ 14, 503.50

Total $ 242,364.77

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House Executive Document 1, 35th Congress, 2nd session, p. 1317-21
" " " 34, " " " " p. 2

HARPER'S FERRY ARMORY, ALFRED M. BARBOUR, SUPERINTENDENT

Report of the operations at this armory during the year ending June 30, 1859

Musket factory, Arms and appendages fabricated

4400 rifle muskets, complete
1 " " , without bayonet or rear sight
2088 " " , without rear sight
955 " " , taken from stores and rear sighted
1500 percussion muskets rifled and altered with sights
200 flint lock muskets rifled and alteredwith sights, and browned
8794 screw drivers
8283 wipers
692 ball screws
7136 cones, extra
1765 band and tumbler punches
6335 tompions, wood
1024 spring vises
1044 rear sights
128 rear sights for altered muskets, caliber 69
40 bullet molds, expanding ball, caliber 54
119 " " " " , caliber 58, casting four balls
68 " " " " , caliber .58, casting six balls
2 bullet molds, round balls for Colt's pistols
1 bullet mold , round balls for Colt's rifle, caliber .58
14 bullet molds, expanding ball, caliber 69, casting six balls
1 bullet mold, expanding ball, caliber 69, casting eight balls
7560 barrels, unserviceable
615 barrels polished
10 barrels, polished with rear sights
234 barrels, polished, serviceable for issue
5 barrels, polished, rifle musket, caliber 48 experimental
1000 hammers
600 hammers for percussioning rifles
16132 lbs. iron manufactured and rolled from scraps
270 rifle musket bayonets
214 " " ramrods
188 packing boxes
10463 parts of rifle musket, for issue to other posts
10 planes for stockers
41556 pounds old cast iron)
343 pounds scrap brass)- Saved from articles broken up
14, 139 pounds scrap steel)

Rifle factory, arms and appendages fabricated

1500 rifles, new model, witnout rear sights
316 rifles, new model, with rear sights
650 rifles, new model, without rear sights, iron mountings
1062 percussion rifles, caliber .58, altered
842 percussion rifles, caliber .54, altered
2 rifles, breech loading, Arnold's plan
2 chambers and wipers for same
2358 cones, extra, for new model rifle
200 moveable front sights, new model rifle
4242 sword bayonets for rifles
315 stocks finished for issue to other posts
150 percussion rifle mainsprings for issue to other posts
240 swages for balls, caliber .54, .58, .69, for issue to

HARPER'S FERRY ARMORY, A.M. BARBOUR, SUPERINTENDENT

A report of the operations at this armory during the fiscal year ended June 30, 1860

Musket factory, Arms and appendages fabricated

5049 rifle muskets, model 1855
2300 rifle muskets, with long range rear sights
400 percussion rifles, model 1842, altered to the MONTSTORM plan
576 flint lock rifles altered to percussion
12846 appendages for rifle muskets
4426 cones, extra
12929 tompions, wood
1436 musket barrels
707 tumbler and band spring punches
201 bullet molds
11 barrels for rifle muskets sighted
99 packing boxes
359 arm chests for muskets and rifles
250 tin linings for arm chests for sea voyages
3400 ball and buckshot cartridges
5 long range sights for altered muskets
1 set patch box gauges for rifle musket
359 bayonets for fifle muskets
2 letter presses
8648 components, assorted, for issue to other posts
41533 pounds scrap iron and steel turned over to storekeeper
2790 pounds iron, rolled, for various purposes
190 percussion muskets

Experimental arms

1 breech loading cannon, complete
Experimental arms, caliber .48
1 cast steel breech loading cannon in progress
A large amount of labor and materials expended on the alteration of old arms to patent breech loaders.

Rifle factory, Arms and appendages manufactured

2701 rifles, model of 1855
223 rifles, model of 1855, sighted only
1071 rifles altered to .58 caliber
3226 sword bayonets
2501 extra cones
249 bullet swages
690 spring vices
1 wire press for Arnold's gun
4 rifle locks
299 barrels, unserviceable
400 band springs, extra
100 leaf sights and screws
7005 pounds scrap steel and iron
538 components
30 long range sights

730 upper bands, rifle model 1842, for issue to other posts
240 ramrods for issue to other posts
155 guard bows for issue to other posts
1 rear sight and brass lower band, sample
1 barrel and 1 lock for rifle, sample
2 barrels, (Arnold(s) experimental
1 rear sight for rifle, sample
2 barrels, model 1855 rifle, sample
2 barrels, rifle, sample
100 studs for sword bayonets
209 rear sights for altered rifles, caliber .58
2 rifle barrels with rear sights, sample
16 rear sights for rifles, caliber .58, sample
16 bridles " " " " "
16 tumblers " " " " "
40 sear springs " " " " "
8 upper band swivels " " " "
30 hammers, caliber .58
146 sword blades, unserviceable
561 barrels
3472 spare parts of rifles, serviceable, for issue to other posts

Senate Executive Document 2, 36th Congress, 1st session, p. 1111-15