

Mark IV shell proved to have a maximum range of 12,130 yards, giving an increase in range of well over a mile. America up to April 3, 1919, turned out about 524,000 of these streamline shell.

The French also built shell of semisteel, steel to which iron was added. It was claimed that these shell, by bursting into fine fragments upon exploding, were more effective against troops than all-steel shell, because the fragments of the latter were larger. We adopted this shell also and produced it experimentally. In contour it was a compromise between the old cylindrical shell and the extreme streamline type and was easier to make than the latter.

Artillery ammunition, complete rounds—Acceptances in United States and Canada on U. S. Army orders only.

[Figures in thousands of rounds.]

	To Jan. 1.	1918												Total.
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
<i>Calibers for American Expeditionary Force program.</i>														
75-mm. gun H. E.						235	287	809	1,168	1,122	1,175	790	5,586	
75-mm. gun shrapnel.	20	121	124	483	888	1,011	1,049	730	732	802	1,057	812	738	8,567
75-mm. gun gas.									188	164	213	15		580
75-mm. A. A. shrapnel.									92	97	185	134	126	634
3-inch A. A. shrapnel.											11	50	2	72
4.7-inch gun H. E.										32	45	43	46	166
4.7-inch gun, shrapnel.	9	9	14	17	18	23	35	23	38	29	28	15	19	277
5-inch S. C. gun H. E.										7			5	12
6-inch S. C. gun H. E.							2			1	36	23		62
155-mm. gun H. E. ¹											9	33	51	93
155-mm. howitzer H. E. ¹								11	113	193	119	173	140	749
155-mm. shrapnel.									12	22	66	41	93	234
8-inch howitzer H. E.											91	8		99
9.2-inch howitzer H. E.										13	8	24	3	48
240-mm. howitzer H. E.											2			2
8-inch S. C. gun H. E.											20	11		31
10-inch S. C. gun H. E.										20	50	4	11	85
Total	29	130	138	500	906	1,034	1,321	1,051	1,984	2,548	3,062	2,570	2,024	17,297
<i>Calibers for use in United States only.</i>														
2.95-inch mountain gun H. E.	22													22
2.95-inch mountain gun shrapnel.	37							9	14	2				62
3-inch F. G. H. E.	333	73	212	142	128	95	3	1	84					1,071
3-inch F. G. shrapnel.	957	164	231	174	55	60	15							1,656
3.8-inch howitzer H. E.	3	3	2	2	1									11
3.8-inch howitzer shrapnel	12	1												13
4.7-inch howitzer H. E.	14	4			5	1	1	1					12	39
4.7-inch howitzer shrapnel						4		23	5	8	10			60
6-inch howitzer H. E.	20	1	3	24	35									83
6-inch howitzer shrapnel.							1		3					4
Total	1,398	246	448	342	224	160	20	34	107	10	10	22		3,021
Grand total	1,427	376	586	842	1,130	1,194	1,341	1,085	2,091	2,558	3,072	2,592	2,024	20,318

¹ All thick walled type; not all supplied with fuses.

² Shrapnel only.

EXPLOSIVES, PROPELLANTS, AND ARTILLERY AMMUNITION. 129

The following table lists the name of each manufacturer of the various types and sizes of shell for big guns and states the quantity turned out by each:

Contractor.	Forgings.		Machinings.	
	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.
<i>3-inch antiaircraft high-explosive shell.</i>				
Hydraulic Pressed Steel Co., Cleveland, Ohio.....	1,938,806	135,435		
John Inglis Co., Toronto, Ontario.....	500,000	131,542		
Saskatchewan Bridge & Iron Works, Moose Jaw, Saskatchewan.....			84,000	
West Shell & Box Co., North Edmonton, Alberta.....			83,000	
Manitoba B. & I. Co., Winnipeg, Manitoba.....			83,000	
Medicine Hat P. & B. Co., Medicine Hat, Alberta.....			83,000	
Dominion Bridge Co., Winnipeg, Manitoba.....			84,000	
Salisbury Wheel & Axle Co., Jamestown, N. Y.....			500,000	1,097
<i>3-inch antiaircraft shrapnel.</i>				
Symington Machine Corporation, Rochester, N. Y.....	1,052,099	1,013,199	1,000,000	1,000,000
<i>75-millimeter antiaircraft high-explosive shell.</i>				
Moline Forge Co., Moline, Ill.....	939,866	540,532		
Jackson Munitions, Jackson, Mich.....	225,000			
Spencer Engine Co., Toledo, Ohio.....	500,000	28,203		
Chamberlain Machine Works, Waterloo, Iowa.....	365,000	23,669		
<i>75-millimeter antiaircraft shrapnel.</i>				
Symington Manufacturing Co., Rochester, N. Y.....	672,625	672,625	672,625	672,625
<i>75-millimeter gas and high-explosive shell.</i>				
T. A. Gillespie, Paris, N. J.....	1,400,000	1,400,000	4,400,000	1,977,149
American International Corporation, New York City.....	8,000,000	2,433,438		
American Can Co., New York City.....	7,000,000	2,523,151	4,000,000	399,728
Hydraulic Pressed Steel Co., Cleveland, Ohio.....	12,000,000	4,455,090		
Valley Forge Co., Verona, Pa.....	4,000,000	880,263		
New York Air Brake Co., New York City.....	2,000,000	192,774	1,300,000	17,652
Worthington Pump Machine Co., New York City.....	2,650,000	1,473,929	2,650,000	634,159
The Canadian Allis-Chalmers Co., Toronto, Ontario.....	2,267,062	1,802,117	435	140,647
Canada Car & Foundry Co., Montreal, Quebec.....	1,656,302	1,592,877		
A. P. Smith Co., Orange, N. J.....			125,000	
S. A. Wood Manufacturing Co., Boston, Mass.....			1,500,000	405,344
Vermont Farm Machine Co., Bellows Falls, Vt.....			750,000	188,300
American Machinery Corporation, Port Huron, Mich.....			200,000	
Consolidated Car Heating Co., Albany, N. Y.....			810,000	181,885
Wire Wheel Corporation, Springfield, Mass.....			300,000	71,239
The Canadian Crocker Wheeler, St. Catharines, Ontario.....			475,000	160,935
Lachine Manufacturing Co., Lachine, Quebec.....			660,000	255,264
The Electric Steel & Metal Co., Welland, Ontario.....			11,458	11,458
J. Bertram & Co., Dundas, Ontario.....			100,000	51,141
Canadian Fairbanks Morse, Toronto.....			1,584,548	1,377,800
W. H. Banfield & Sons, Toronto.....			1,620,000	670,000
Canadian Bridge Co., Walkerville, Ontario.....			1,450,000	456,963
Canadian Metal Co., Toronto.....	3,250,000	1,154,371		
Goldie & McCullough, Galt, Ontario.....	1,100,000	921,206	410,000	61,476
John Inglis Co., Toronto.....	1,700,000	775,033	75,000	42,400
Cluff Ammunition Co., Toronto.....	600,000	509,343		
G. W. McFarland Engineering Co., Paris, Ontario.....	1,500,000	285,335		
Dayton, Ohio, Products Co., New York City.....	3,500,000	732,842		
E. W. Bliss Co., Brooklyn, N. Y.....	1,300,000	701,804		
Lymburner (Ltd.) Co., Montreal, Quebec.....	800,000	630,978	2,474,000	1,120,556
Moline Forging & Machining Co., Moline, Ill.....	1,500,000	471,281		
Laconia Car Co., Laconia, N. H.....	550,000			
Symington Machine Co., Rochester, N. Y.....	4,025,000		6,025,000	1,200,686
Roberts Filter Co., Darby, Pa.....			600,000	151,975
Auto Transportation Co., Buffalo, N. Y.....			350,000	107,441
Dominion Bridge Co., Montreal, Quebec.....			795,000	301,144
Canadian Ingersoll Rand Co., Sherbrooke, Quebec.....			1,100,000	290,431
Steel Co. of Canada, Brantford, Ontario.....			515,000	162,399
Allis-Chalmers Co., Milwaukee, Wis.....			1,520,000	347,635
Jackson Munitions, Jackson, Mich.....			775,000	67,570
Maxwell Motor Co., Detroit, Mich.....			800,000	61,761

Contractor.	Forgings.		Machinings.	
	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.
<i>75-millimeter gas and high-explosive shell—Continued.</i>				
Batavia Steel Products, Batavia, N. Y.			1,175,000	311,417
Wheeling Mold & Foundry, Wheeling, W. Va.			500,000	118,496
Eddystone Munitions, Eddystone, Pa.			1,000,000	190,100
Lachine Manufacturing Co., Lachine, Quebec.				
The International Clay & Machine, Dayton, Ohio.			124,000	3,812
Smead & Co., Jersey City, N. J.			1,100,000	246,841
Manufacturing Production Co., Dayton, Ohio.			1,600,000	340,885
Chicago Pneumatic Tool Co., Chicago, Ill.			250,000	132,321
Mueller Manufacturing Co., Port Huron, Mich.			500,000	78,300
The Westfield Manufacturing Co., Westfield, Mass.			1,740,000	413,578
The Platt Iron Works, Dayton, Ohio.			1,600,000	170,812
The Mueller Metal Co., Wayne, Mich.			750,000	
<i>75-millimeter field-gun shrapnel.</i>				
American Can Co., New York City.	969,039	969,039	904,067	904,067
Eddystone Munitions Co., Eddystone, Pa.	769,961	769,961	750,000	750,000
Bartlett-Hayward Co., Baltimore, Md.	6,565,519	4,272,900	6,200,000	3,492,863
Symington Machine Co., Rochester, N. Y.	5,459,378	4,868,942	8,375,000	3,329,025
Frankford Arsenal, Philadelphia, Pa.	650,000	4,713	750,000	4,713
Laconia Car Co., Laconia, N. H.	450,000	369,483		
Bossert Corporation, Utica, N. Y.	200,000			
Hydraulic Pressed Steel Co., Cleveland, Ohio.	2,285,000	10,000		
Canada Forge Co., Welland, Ontario.	730,000			
The Liberty Ordnance Co., Bridgeport, Conn.	1,000,000	27,000		
<i>165-millimeter howitzer high-explosive shell, Mark I, type B.</i>				
Whittaker Glessner, Portsmouth, Ohio.	130,000	137,406		
American Rolling Mills, Middletown, Ohio.	100,000	49,785		
Pressed Steel Car Co., Pittsburgh, Pa.	600,000	552,867		
American Car & Foundry Co., New York City.	2,800,000	1,110,964		
New York Air Brake Co., New York City.	350,000	1,158	138,316	
Wm. Wharton Manufacturing Co., Philadelphia, Pa.	280,000	61,224		
Standard Steel Car Co., Pittsburgh, Pa.	450,000			
Standard Forging Co., Chicago, Ill.	21,141			
Curtis & Co., Manufacturing Co., St. Louis, Mo.	500,000	404,645		
American Steel Foundry Co., Chicago, Ill.	412,042	412,042		
Midvale Steel & Ordnance Co., Philadelphia, Pa.	130,000	130,000		
Detroit Shell Co., Detroit, Mich.			500,000	45,563
J. J. Cavrick, Batavia, N. Y.			300,000	92,974
Standard Sanitary Co., Pittsburgh, Pa.			600,000	94,400
Potter & Johnson, Pawtucket, R. I.			175,000	
North American Motor Co., Pottstown, Pa.			30,000	29,446
Minneapolis Steel & Machine Co., Minneapolis, Minn.			400,000	245,344
W. J. Oliver Manufacturing Co., Knoxville, Tenn.			130,000	88,662
Twin City Forge & Foundry Co., Stillwater, Minn.			600,000	54,483
Winslow Bros. Co., Chicago, Ill.			600,000	176,091
American Brake Shoe & Foundry Co., New York City.			750,000	184,697
American Clay & Machine Co., Bucyrus, Ohio.			700,000	
Elyria Machine Co., Elyria, Ohio.			100,000	32,139
American Machine & Manufacturing Co., Atlanta, Ga.			240,000	75,068
Haroun Motor Corporation, Wayne, Mich.			200,000	23,899
Wagner Electric Manufacturing Co., St. Louis, Mo.			300,000	12,599
<i>165-millimeter howitzer high-explosive shell, Mark IV, type D.</i>				
National Tube Co., Pittsburgh, Pa.	800,000	48,263		
P. Lysal & Sons, Montreal, Quebec.	400,000	4,774	150,000	2,559
National Iron Works, Toronto, Ontario.	400,000	9,137		
Dominion Steel Foundry, Hamilton, Ontario.	400,000	23,270		
Studebaker Corporation, Detroit, Mich.	800,000		800,000	
Fairfax Forge Co., Montreal, Quebec.	400,000		150,000	
Pressed Steel Car Co., Pittsburgh, Pa.	1,000,000	15,122		
Cleveland Crane Co., Wickliffe, Ohio.	500,000			
Bethlehem Steel Co., South Bethlehem, Pa.	600,000	139,103		
G. W. McFarland, Paris, Ontario.	370,000	521		
LaCledde Gas Light Co., St. Louis, Mo.	850,000		850,000	
Standard Forging Co., Chicago, Ill.	500,000			
Whittaker Glessner Co., Portsmouth, Ohio.	900,000	31,909		
Curtis & Co., St. Louis, Mo.	130,000			
Warden King & Co., Montreal, Quebec.	180,000			
John Inglis Co., Toronto, Ontario.	400,000			
Canada Iron Foundry Co., Montreal, Quebec.	100,000		100,000	
Cluff Ammunition Co., Toronto, Ontario.	500,000			
Taylor Forbes (Ltd.), Toronto.	90,000			
Moon Motor Co., St. Louis, Mo.			200,000	

Contractor.	Forgings.		Machinings.	
	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.
<i>155-millimeter howitzer high-explosive shell, Mark IV, type D—Continued.</i>				
Standard Sanitary, Pittsburgh, Pa.			150,000	
Holden Morgan Thread Co., Toronto, Ontario.			100,000	
E. Leonard & Sons, London, Ontario.			80,000	
Otis Fenson Elevator Co., Hamilton, Ontario.			200,000	
Dominion Copper Products, Montreal, Quebec.			150,000	2,056
Caron Bros., Montreal, Quebec.			125,000	235
Potter & Johnson, Pawtucket, R. I.			350,000	
Biscoe Motor, Jackson, Mich.			325,000	
Hudson Motor, Detroit, Mich.			400,000	
Munition & M. N. (Ltd.), Sorel.			50,000	
John Bartram Sons, Dundas, Ontario.			450,000	
<i>155-millimeter howitzer gas shell.</i>				
American Rolling Mills, Middletown, Ohio.	500,000	492,399		
Midvale Steel & Ordnance Co., Philadelphia, Pa.	120,000	96,799		
American Radiator Co., Washington, D. C.	625,000	500	416,667	
Wilson Foundry & Machine Co., Pontiac, Mich.	400,000		300,000	
Rathbone Sard & Co., Aurora, Ill.	600,000		400,000	
<i>155-millimeter gun high-explosive shell, Mark III, type B.</i>				
Standard Steel Car Co., Pittsburgh, Pa.	1,000,000	568,092	1,000,000	431,238
Whittaker Glessner Co., Portsmouth, Ohio.	350,471	350,471		
Standard Forging Co., Indiana Harbor, Ind.	800,000	730,950		
Mead Morris & Co., Gloucester, Mass.	300,000	2,056		
Twin City Forge & Foundry Co., Stillwater, Minn.	425,000	136,053		
Chicago Rig. Equipment Co., Chicago, Ill.	400,000	23,356		
Minneapolis Steel & Machine Co., Minneapolis, Minn.			200,000	41,254
International Arms & Fuse, Bloomfield, N. J.			500,000	310,130
North American Motors, Pottstown, Pa.			70,000	
Potter & Johnson, Pawtucket, R. I.			100,000	73,836
Templer Motor Co., Cleveland, Ohio.			450,000	45,014
New York Air Brake Co., New York City.			211,684	
Jackson Munitions, Jackson, Mich.			177,500	25,981
Pullman Co., Pullman, Ill.			300,000	
New Home Sewing Machine Co., Orange, Mass.			200,000	
<i>155-millimeter gun high-explosive shell, Mark V, type D.</i>				
Symington Chicago Corporation, Chicago, Ill.	1,000,000		805,000	
American Rolling Mills, Middletown, Ohio.	755,000	36,161		
Milton Manufacturing Co., Milton, Pa.	10,000			
Whittaker Glessner Co., Portsmouth, Ohio.	750,000			
Dominion Foundry & Steel Co., Hamilton, Ontario.	500,000			
Winslow Bros., Chicago, Ill.			400,000	
Grant Motor Car Co., Cleveland, Ohio.			260,000	
Cribbon Sexton Co., Chicago, Ill.			200,000	
<i>155-millimeter gun gas shell.</i>				
Bethlehem Steel Co., South Bethlehem, Pa.	100,000	92,430		
Kohler Co., Kohler, Wis.	850,000	100	657,000	100
American Radiator Co., Washington, D. C.	125,000		83,333	
Whittaker Glessner Co., Portsmouth, Ohio.	5,000	5,000		
American Car & Foundry Co., New York City.			1,350,000	63,914
<i>155-millimeter gun and howitzer shrapnel.</i>				
Dayton, Ohio, Production Co., Dayton, Ohio.	850,000	131,329		
Wm. Wharton, Jr., Philadelphia, Pa.	540,947	345,457		
Bartlett-Hayward Co., Baltimore, Md.	200,000		1,600,000	135,590
Frankford Arsenal, Philadelphia, Pa.	100,000			
<i>3.8-inch howitzer shell.</i>				
Frankford Arsenal, Philadelphia, Pa.	1,000	1,000	15,928	11,757
Hydraulic Pressed Steel Co., Cleveland, Ohio.	105,000			
F. R. Wilford & Co.	105,000			
<i>3.8-inch howitzer shrapnel.</i>				
Frankford Arsenal, Philadelphia, Pa.	18,522	14,264	43,522	14,264
Hydraulic Pressed Steel Co., Cleveland, Ohio.	35,000			

Contractor.	Forgings.		Machinings.	
	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.
<i>4.72-inch shell.</i>				
National Tube Co., Christie Pks. Works.....	12,500	5,614		
United States Government.....	1,850	1,850	1,850	1,850
Buffalo Pitts Co., Buffalo, N. Y.....			12,705	
Twin City Forge, Stillwater, Minn.....			2,500	
<i>4.7-inch antiaircraft shell.</i>				
National Tube Co., Christie Pks. Works.....	230,000	188,495		
Maritime Manufacturing Co., Montreal, Quebec.....			100,000	
Spartan Manufacturing Co., Montreal, Quebec.....			45,000	45,159
Darling Bros., Montreal, Quebec.....			42,500	15,060
Alberta Foundry & Machinery Co., Alberta.....			42,500	6,170
<i>4.7-inch antiaircraft shrapnel.</i>				
The E. W. Bliss Co., Brooklyn, N. Y.....	10,000			
Frankford Arsenal, Philadelphia, Pa.....	60,000		60,000	
National Tube Co., Christie Pks. Works.....	100,000	42,840		
Alberta Foundry & Machinery Co., Alberta.....			42,500	
<i>4.7-inch drill projectile.</i>				
Grand Rapids Brass Co., Grand Rapids, Mich.....	2,975	404	2,975	405
<i>4.7-inch gun gas shell.</i>				
Milton Manufacturing Co., Milton, Pa.....	400,000	194,612	400,000	92,342
American Radiator Co., Buffalo, N. Y.....			189,360	
<i>4.7-inch gun shrapnel.</i>				
Frankford Arsenal, Philadelphia, Pa.....	22,897	22,440	22,897	22,440
Bartlett-Hayward Co., Baltimore, Md.....	312,005	327,183	701,500	306,635
National Tube Co., Christie Pks. Works.....	754,777	338,507		
Metal Production Co., Beaver, Pa.....			150,000	11,264
<i>4.7-inch howitzer shell.</i>				
Frankford Arsenal, Philadelphia, Pa.....	87,833	26,614	87,833	26,614
<i>4.7-inch howitzer shrapnel.</i>				
Bartlett-Hayward, Baltimore, Md.....	46,115	46,294	40,000	40,000
Frankford Arsenal, Philadelphia, Pa.....	79,865	19,999	79,865	20,379
<i>4.7-inch gun high-explosive shell.</i>				
National Tube Co., Christie Pks. Works.....	1,284,848	903,543		
Allegheny Steel Co., Pittsburgh, Pa.....	900,000	435,978		
The E. W. Bliss Co., Brooklyn, N. Y.....	10,000			
Frankford Arsenal, Philadelphia, Pa.....		12,047	40,286	12,047
Milton Manufacturing Co., Milton, Pa.....	700,000	351,731	700,000	285,000
Hydraulic Pressed Steel Co., Cleveland, Ohio.....	200,000			
Darling Bros., Montreal, Quebec.....			65,000	
Spartan Machine Co., Montreal, Quebec.....			165,000	
Robb Engineering Co., Amherst, N. J.....			95,000	3,720
Motor Trucks Co., Brantford, Ontario.....			205,000	11,083
P. Lyall & Sons, Montreal, Quebec.....			845,000	318,578
Steel Products Co., Huntington, W. Va.....			100,000	9,023
Armstrong Ck. Co., Lancaster, Pa.....			475,000	20,238
Campbell Howard Machine Co., Sherbrooke, Quebec.....			350,000	
Thurlow Steel Works, Chester, Pa.....			136,500	35,116
Bell Manufacturing Co., Fairmont, Ind.....			75,000	5,289
Buffalo Pitts Co., Buffalo, N. Y.....			350,000	70,975
Indiana Fiber Co., Marion, Ind.....			75,000	12,520
Canadian Westinghouse Co., Hamilton, Ontario.....			300,000	94,156
Ry. Ind. Engineering Co., Greensburg, Pa.....			100,000	34,347
Sherbrooke Ironworks, Sherbrooke.....			60,000	14,026
Bridgeport Project Co., Bridgeport, Conn.....			20,000	16,802
American & British Manufacturing Co., Bridgeport, Conn.....			87,319	57,932
Maritime Manufacturing Co., St. Johns, New Brunswick.....			100,000	
Alberta Foundry & Machinery Co., Alberta.....			50,000	

Contractor.	Forgings.		Machinings.	
	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.
<i>8-inch gun and howitzer high-explosive and gas shell.</i>				
Carnegie Steel Co., Pittsburgh, Pa.	561,548	210,171		
Root & Vandervoort Engineering Co., East Moline, Ill.	40,000	40,928	190,000	144,815
Wagner Electrical & Manufacturing Co., St. Louis, Mo.	40,000	40,000	170,000	48,586
McMyler Interstate Co., Cleveland, Ohio	500,000	263,674	450,000	238,470
Pollak Steel Co., New York City	100,000			
Curtis & Co., St. Louis, Mo.	295,000	167,202		
Midvale Steel & Ordnance Co., Philadelphia, Pa.	140,000	135,176		
Standard Steel Car Co., Butler, Pa.	100,000	6,072		
Pressed Steel Car Co., Pittsburgh, Pa.	250,000			
Westinghouse Electric & Manufacturing Co., Pittsburgh, Pa.			360,000	166,803
Willys Overland Co., Toledo, Ohio			600,000	
Motor Products Corporation, Detroit, Mich.			100,000	
British War Mission, Munsey Building, Washington, D. C.	101,817	100,277		
Imperial Munitions Board, Ottawa	8,612	7,722		
Pollak Steel Co., New York City	75,000	22,681		
American Steel Foundry Co., Chicago, Ill.	570,000	247,649		
Dominion Steel Foundry Co., Hamilton, Ontario	100,000	91,191		
Canada Cement Co., Montreal, Quebec	150,000	22,304	650,000	4,700
British Forgings (Ltd.), Toronto, Ontario	275,000	24,833		
Dominion Bridge Co., Montreal, Quebec	150,000	55,324		
Standard Forging Co., Chicago, Ill.	300,000	38,659		
Pressed Steel Car Co., Pittsburgh, Pa.	250,000	85,750		
Wm. Wharton, Jr. & Co., Philadelphia, Pa.	125,000			
Dominion Foundries & Co. (Ltd.), Hamilton, Ontario	250,000	10,746		
American Brake Shoe & Foundry Co., New York City			250,000	197,260
Maritime Manufacturing Corporation, St. John, New Brunswick			460,000	26,000
<i>9.2-inch howitzer high-explosive shell.</i>				
Russell Motor Car Co., Toronto, Ontario			335,000	15,049
St. Lawrence Bridge Co., Montreal			335,000	31,880
United States Ammunition Corporation, Poughkeepsie, N. Y.			250,000	6,486
Fisher Motor Co., Orilla, Ontario			180,000	100
Canadian Bridge Co., Walkersville, Ontario			110,000	
<i>240-millimeter high-explosive shell.</i>				
Carnegie Steel Co., Pittsburgh, Pa.	190,000	92,316		
Curtis & Co. Manufacturing Co., St. Louis, Mo.	275,000	174,174		
American Car & Foundry Co., New York City	90,000		400,000	47,953
American Steel Foundries Co., Chicago, Ill.	80,000	3,277		
Scullin Steel Co., St. Louis, Mo.	350,000			
A. F. Smith Manufacturing Co., East Orange, N. J.			25,000	
Motors Truck (Ltd.), Brantford, Ontario			125,000	
Laclede Gas Light Co., St. Louis, Mo.			526,014	
<i>5-inch seacoast gun shell.</i>				
Cleveland Crane & Engineering Co., Wickliffe, Ohio	244,812	122,324		
McMyler Interstate Co., Cleveland, Ohio	5,000	5,107		
Milton Manufacturing Co., Milton, Pa.	30,000	29,121		
Machine Products Co., Cleveland, Ohio			75,000	21,532
A. J. Vance & Co., Winston-Salem, N. C.			40,000	1,578
Twin City & Foundry Co., Stillwater, Minn.			400	
A. B. Ormsby Co. (Ltd.), Toronto, Ontario			50,000	10,029
P. Tyrall Construction Co., Montreal			105,000	38,385
<i>6-inch seacoast gun shell.</i>				
Frankford Arsenal, Philadelphia, Pa.	40,950	25,957	40,950	25,957
Bethlehem Steel Co., Bethlehem, Pa.	16,000	22,053	16,000	15,910
Columbian Iron Works, Chattanooga, Tenn.	40,000	40,346	132,542	149,281
The Pressed Steel Car Co., McKeesport, Pa.	385,000	370,677		
Standard Steel Car Co., Hammond, Ind.	400,000	376,827		
Anniston Steel Co., Anniston, Ala.	243,812			
Westinghouse Electric Manufacturing Co., Pittsburgh, Pa.	35,000	31,310	385,000	192,684
Wm. Wharton, Jr., Easton, Pa.	24,000			
The Southern Machinery Co., Chattanooga, Tenn.			447,458	19,537

Contractor.	Forgings.		Machinings.	
	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.	Quantity ordered to Nov. 1, 1918.	Quantity accepted to Nov. 1, 1918.
<i>10-inch seacoast gun shell.</i>				
American Car & Foundry Co., New York City.....	24,360	24,360	275,000	130,040
Carnegie Steel Co., Pittsburgh, Pa.....	60,000	61,770	.....	.....
Carnegie Steel Co., Munhall, Pa.....	225,000	137,168	.....	.....
<i>12-inch seacoast gun shell.</i>				
Carnegie Steel Co., McKees Rocks, Pa.....	165,000	7,627	.....	.....
Watertown Arsenal, Watertown, Mass.....	15,000	1,449	.....	.....
Washington Steel & Ordnance Co., Giesboro Manor, D. C.....	28,631	6,129	38,000	1,907
Leaside Munitions Corporation, Toronto, Ontario.....	105,000	.....	105,000	.....
Standard Forging Co., Chicago, Ill.....	15,000	.....	.....	.....
Bethlehem Steel Co., Bethlehem, Pa.....	32,000	.....	.....	.....
American Clay Machine Co., Bucyrus, Ohio.....	.....	.....	15,000	.....
<i>14-inch seacoast gun shell.</i>				
Carnegie Steel Co., McKees Rocks, Pa.....	10,000	220	.....	.....
Watertown Arsenal, Watertown, Mass.....	9,000	.....	.....	.....
Washington Steel & Ordnance Co., Washington, D. C.....	.....	.....	80	.....
<i>16-inch seacoast howitzer shell.</i>				
Washington Steel & Ordnance Co., Washington, D. C.....	140	.....	140	.....