Table of Ranges.

12 Pdr. Napoleon					10 Pdr Parrott & 3 inch Rifle					20 Pdr. Parrott					
Powder	Projectile	Elevation	Range	Time	Powder	Projectile	Elevation	Range	Time	Powder	Projectile	Elevation	Range	Time	Note.
Lbs.	Shot.	Deg.	Yds.	Sec.	Oz.	Sph. Case	Deg.	Yds.	Sec.	Oz.	Sph. Case	Deg.	Yds.		
2.5	"	0	325		1	"	1	670	2	Two 2	"	1	740		The time of flight for 10 pdr. Parrott shell is given for the elevation of 1 deg. The time for the 20 pdr. Parrott shell is given for the elevation of 2 deg. The time for the 12 pdr. Napoleon shell is given for the elevation of 1 deg.
"	"	1	620		"	"	2	1000	2 3/4						
					"	"	3	1320	3 3/4	"	"	2	1075		
					"	"	4	1600	4 3/4						
"	"	2	875		"	"	5	1865	6	"	"	3	1390		
					"	"	6	2115	7						
"	"	3	1200		"	"	7	2370	8	"	"	4	1680		
					"	"	8	2620	9						
"	"	4	1320		"	"	9	2860	9 3/4	"	"	5	1955		
					"	"	10	3080	10 3/4						
"	"	5	1680		"	"	11	3310	11 3/4	"	"	6	2230		
					"	"	12	3525	12 1/2						
2.5	Sph. Case	1/2	300	1	"	"	13	3740	13 1/2	"	"	7	2515		
"	"	1	575	1 3/4	"	"	14	3940	14 1/2						
					"	"	15	4135	15 1/4						
"	"	1 1/2	633	2 1/2	"	"	16	4335	16 1/4	"	"	9	3050		
					"	"	17	4530	17						
"	"	2	730	3	"	"	18	4710	18	"	"	10	3320		
					"	"	19	4865	18 3/4						
"	"	3	960	4											
					"	"	20	5015	19 1/2	"	"	11	3580		
"	"	3 1/2	1080	4 3/4	"	"	21	5145	20 1/2						
										"	"	12	3835		
"	"	3 3/4	1135	5	"	"	22	5270	21						
										"	"	13	4075		
2.0	Shell	0	300	3/4	"	"	23	5385	22						
										"	"	14	4300		
"	"	1/2	425	1 1/4	"	"	24	5490	22 3/4						
										"	"	15	4510		
"	"	1	616	1 3/4	"	"	25	5590	23 1/2						
										"	"	16	4700		
"	"	1 1/2	708	2 1/4	"	"	26	5680	24 1/4						
										"	"	17	4895		
"	"	2	787	2 3/4	"	"	27	5740	25 1/4						
										"	"	18	5050		
"	"	2 1/2	925	3 1/2	"	"	28	5790	26						
										"	"	19	5210		
"	"	3	1080	4	"	"	29	5840	27						
										"	"	20	5375		
"	"	3 3/4	1300	5	"	"	30	5890	27 3/4						
										"	"	21	5525		
										"	"	22	5650		
										"	"	23	5750		
										"	"	24	5840		

Richmond Arsenal
Oct. 17th 1863 —

Table of Ranges —
for
12 Pdr. Napoleons
10 Pdr. Parrotts
20 Pdr. Parrotts
3 Inch Rifles