

Comparative Efficiency Returns for Dominion Artillery—1888.

Field Batteries.

Battery.	Commanding Officer.	Clothing and Accountments.	Guns, Carriages and Equipment.	Horses.	Harness and Harnessing.	Marching Past.	Gun Drill.	Sword Drill.	Manœuvres.	Discipline and Camping.	Questions.		½ Score Gun Practice.	Total.	Inspecting Officers.
											Officers.	N. C. Officers.			
	Full marks.	12	16	12	16	15	28	8	16	12	40	64			
*No. 1 Battery, 1st Brigade	Major Nicoll.....	10	13	8	13	13	27	8	13	12	34	59	72.2	282.2	Lt.-Col. Irwin.
Hamilton.....	“ Van Wagner.	11	15	10	15	15	27	8	14	9	36	64	56.8	280.8	do
Montreal.....	Lt.-Col. Stevenson..	12	16	10	16	11	25	7	15	10	39	37	78.8	276.8	Lt.-Col. Montizambert.
Quebec.....	Major Lindsay.....	11	16	9	13	13	25	6	15	10	39	55	55	267	do
No. 2 Battery, 1st Brigade.	“ Hood.....	11	13	9	14	12	20	3	9	12	34	53	68	258	Lt.-Col. Irwin.
Durham.....	“ McLean.....	10	12	12	14	13	20	6	12	8	25	59	54.4	245.4	do Cotton.
Woodstock.....	“ Dibblee.....	10	12	12	12	10	16	4	10	10	24	54	61.4	235.4	do do
Welland Canal.....	“ King.....	9	12	7	11	13	25	6	12	9	16	40	65	225	Lt.-Col. Irwin.
Kingston.....	“ Dreman.....	11	16	10	16	14	14	4	12	10	37	37	39.4	220.4	do Cotton.
Ottawa.....	“ Stewart.....	10	14	10	14	12	14	4	12	12	28	32	57.8	219.8	do do
Gananoque.....	Lt.-Col. McKenzie..	8	10	10	10	12	16	4	12	8	29	24	75.6	218.6	do do
London.....	“ Peters.....	9	12	11	12	13	22	5	10	12	25	37	48.2	216.2	do Irwin.
Toronto.....	†Capt. Beatty.....	9	10	8	10	11	20	4	11	8	16	39	47.6	193.6	do do
Newcastle.....	Lt.-Col. Call.....	10	12	10	8	14	16	4	10	10	.....	18	62.2	174.2	do Cotton.
‡Winnipeg.....	Major Coutlee.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Lieut.-Col. Macdonald Commanding Brigade.

† Major Mead on sick list.

‡ Inspected by the D. A. General.

Garrison Batteries.

Battery.	Commanding Officer.	Clothing and Accountments.	Manual and Firing.	Company Drill.	Gun drill, 10 each detachment.	Discipline and Interior Economy.	Questions.		Total.	Inspected by.
							Officers.	N. C. Officers.		
	Full marks.	5	10	10	40	5	30	48		
No. 2 Battery, P. E. I. Brigade.....	Capt. Longworth.....	5	7	8	39	4	24	48	135	Lt.-Col. Irwin.
No. 1 do N. B. Brigade.....	Capt. Seeley.....	5	8	9	37	4	30	33	126	do do
No. 4 do do do.....	Lieut. Armstrong.....	5	8	9	38	4	12	43	119	do do
Cobourg Battery.....	Capt. Dumble.....	5	8	8	30	5	29	32	117	Lt.-Col. Cotton.
No. 1 Battery, Levis.....	Capt. Martineau.....	4	8	7	31	5	19	34	108	Lt.-Col. Montizambert.
No. 2 do Quebec.....	Capt. Boulanger.....	4	8	7	19	5	22	39	104	do do
No. 3 do N. B. Brigade.....	Capt. Crawford.....	3	7	6	15	4	27	39	101	Lt.-Col. Irwin.
No. 1 do Halifax do.....	Major Purcell.....	4	5	4	16	4	19	43	95	do do
No. 2 do N. B. do.....	Capt. Gordon.....	4	7	7	19	4	19	34	94	do do
No. 6 do Halifax do.....	Capt. Parker.....	5	5	5	20	4	15	39	93	do do
No. 3 do do do.....	Capt. Maxwell.....	5	7	3	16	4	19	35	89	do do
No. 2 do do do.....	Lieut. Newman.....	4	5	4	13	4	16	40	86	do do
No. 2 do Levis.....	Capt. Vien.....	4	7	6	21	5	21	18	82	Lt.-Col. Montizambert.
No. 7 do Halifax Brigade.....	Capt. Anderson.....	5	7	5	16	4	20	21	78	Lt.-Col. Irwin.
No. 5 do do do.....	Lieut. Bland.....	5	5	5	11	4	8	30	68	do do
No. 5 do N. B. do.....	Capt. Scammell.....	3	5	3	17	4	3	23	58	do do
No. 4 do Halifax do.....	Capt. Botsford.....	4	6	4	8	4	10	18	54	do do
No. 1 do P. E. I. do.....	Capt. Morson (acting).....	5	8	7	38	4	.....	.....	.....	do do
No. 3 do do do.....	Capt. Owen.....	3	6	7	26	4	.....	.....	.....	do do

Long Range Artillery Fire.

A correspondent of the London *Times*, writing from Okehampton after witnessing the practice in connection with the recent artillery camp, concludes as follows, after a detail of the daily practice:—* * As to the important question of the distances at which artillery is effective, a few observations may interest your readers. Prince Hohenlohe says that the effect of artillery becomes noticeable at 5,500 yards, but that no great results are obtained until shrapnel fire is effective. This commences at 3,000 yards, is decisive at 2,000 yards, and annihilating at 1,100 yards. As to infantry he does not consider it important at over 1,300 yards. The result of the practice which I have seen here during the last two days shows that even against a firing line, kneeling guns are very effective at from 1,550 to 2,200 yards. At the latter distance out of fifty men kneeling in a shelter trench eleven men were struck; out of 200 men kneeling in the open, 22 men were struck at 1,550 yards, and at 1,600 yards 100 men kneeling lost 30 men, the

number of rounds fired being respectively 8 common and 12 shrapnel shells, 4 common and 12 shrapnel shells, and 6 common and 14 shrapnel shells, the common shells being chiefly used to find the range. At ranges above 1,550 yards the fire of infantry is practically insignificant against artillery. Against battalions of infantry, batteries limbered up, and cavalry in column, I have no doubt that the effect would be very destructive at even 4,000 yards, even under rather unfavourable conditions of light and ground, provided the enemy were halted. I do not think, however, that cavalry advancing rapidly in line, or infantry advancing in formation of attack, has much to fear from artillery at over 3,000 yards, owing to the difficulty of seeing where the trial shells burst; i.e., where they burst with relation to the troops fired at. Even at 4,000 yards infantry kneeling in a shelter trench would suffer appreciably with fairly favourable conditions of ground and light. The general opinion here seems to be that 4,000 yards would be generally the extreme effective range of artillery, but that at that distance the artillery duel might and should be commenced. Whereas the writers on tactics have