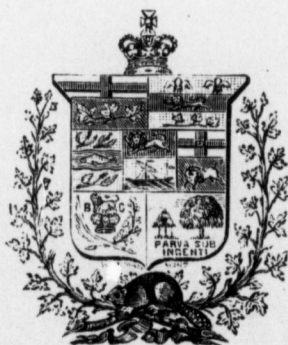


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ANNUAL REPORT  
— OF THE —  
DOMINION  
ARTILLERY ASSOCIATION

For the Year 1893.



OTTAWA:  
PRINTED AT THE OFFICE OF TAYLOR & GILBERT, SPARKS ST.  
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# Dominion Artillery Association.

1893.

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## PATRON.

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Canada.

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## VICE-PATRONS.

HIS HONOR THE LIEUT.-GOVERNOR, Province of Ontario.  
HIS HONOR THE LIEUT.-GOVERNOR, Province of Quebec.  
HIS HONOR THE LIEUT.-GOVERNOR, Province of Nova Scotia.  
HIS HONOR THE LIEUT.-GOVERNOR, Province of New Brunswick.  
HIS HONOR THE LIEUT.-GOVERNOR, Province of Prince Edward Island.  
HIS HONOR THE LIEUT.-GOVERNOR, Province of Manitoba.  
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HON. SIR A. P. CARON, K.C.M.G.  
COLONEL WALKER POWELL, Adjutant-General.

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## PRESIDENT.

LT.-COLONEL J. R. ARMSTRONG, Comdg. N. B. Batt., G. A., St. John.

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## VICE-PRESIDENTS.

LT.-COLONEL E. G. PRIOR, M.P., Victoria, B.C. Batt., G. A.  
LT.-COLONEL T. T. TURNBULL, Retd. List, Montreal.  
LT.-COLONEL F. S. MOORE, P. E. Island Battalion, G. A.  
LT.-COLONEL R. R. CALL, Newcastle Field Battery, N. B.

# COUNCIL FOR 1893.



## President.

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## Vice-Presidents.

- Lt.-Col. COLE, Comdg. Battn. G. A., Montreal.
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- " KING, M.D., Comdg. Welland Canal Field Battery.
- Major MAXWELL, Comdg. No. 3 By. G. A., Halifax.

## Members (Ex-Officio).

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- Lt.-Col. J. MACPHERSON, Director of Stores, Ottawa.
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- " W. NICOLL, Comdg. No. 1 By., 1st Bde., Field Artillery, Guelph.
- " J. R. ARMSTRONG, Comdg. N. B. Battn., G. A., St. John.
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- " W. MCLEAN, Comdg. Durham Field Battery, Port Hope.
- " H. P. VAN WAGNER, Comdg. Hamilton Field Battery.
- " DIBBLEE, Comdg. Woodstock Field Battery N. B.
- Major COUTLEE, Comdg. Field Battery, Winnipeg.
- " J. DAVIDSON, Comdg. No. 2 Battery, 1st Brigade, Guelph.
- " MEAD, Comdg. Toronto Field Battery.
- " Hon. J. S. HALL, Comdg. Field Battery, Montreal.
- " BOULANGER, Comdg. Field Battery, Quebec.
- " VIEN, Comdg. No. 2 Company, G. A., Levis.
- " OXLEY, Garrison Artillery, Halifax.

Major LO  
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Lt.-Col. Jo  
F. E. Kni

Captain J.

Major LONGWORTH, Garrison Artillery, Charlottetown.  
 Captain MCNAUGHTON, Comdg. Garrison Company, Cobourg.  
 " FLOWERS, Battalion G. A., Halifax.  
 " DAVISON, Battalion G. A., Charlottetown, P.E.I.  
 " MARTINEAU, Comdg. No. 1 Co., Levis.  
 " MOORE, Battalion G. A., Charlottetown.

#### **Members (Elected).**

Lt. Col. A. A. STEVENSON, Retired List, Montreal.  
 " T. T. TURNBULL, Retired List, "  
 Captain MCCRAE, Retired List, Guelph.

#### **Executive Committee.**

##### **Ex-Officio.**

Lt.-Col. D. T. IRWIN, Inspector of Artillery.  
 " C. E. MONTIZAMBERT, Assistant Inspector of Artillery.  
 " W. H. COTTON, " " "

##### **Elected.**

Lt.-Col. A. H. MACDONALD, Q.C., Comdg. 1st Bde., F.A.  
 " COLE, Comdg. M. G. A.

#### **Auditors.**

Lt.-Col. JOHN MACPHERSON, Director of Stores.  
 F. E. KNIGHT, Esq., Militia Dept.

#### **Secretary-Treasurer.**

Captain J. B. DONALDSON, Ottawa.



## LIST OF LIFE MEMBERS.

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| The Most Honorable the Marquis of Dufferin and Ava, K.P., etc., etc.       |  |
| His Excellency the Marquis of Lansdowne, G.C.M.G., etc., Viceroy of India. |  |
| The Right Honorable the Earl of Derby, G.C.M.G., etc.                      |  |
| The Right Honorable the Marquis of Lorne, K.T., etc.                       |  |
| The Right Honorable Lord Mount-Stephen.                                    |  |
| Angus, R. B., Esq.   | King, Lt.-Colonel F., M.D.             |
| Armstrong, Lt.-Colonel J. R.   | Lewes, Lt.-Colonel Price               |
| Benny, Robt., Esq.   | Lindsay, Lt.-Colonel Crawford          |
| Boulanger, Major   | Lindsay, R. A., Esq.                   |
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| Brainerd, Dwight, Esq.   | McGreevy, Hon. Thos.                   |
| Burnet, J., Esq.   | McIntyre, Duncan, Esq.                 |
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| Drummond, Hon. G. A.   | Montizambert, Lt.-Colonel C. E.        |
| Forget, L. J., Esq.  | Oswald, Lt.-Colonel W. R.              |
| Gilmour, Lt.-Colonel A.  | Palliser, Major E.                     |
| Gray, Lt.-Colonel J.   | Paton, Hugh, Esq.                      |
| Gzowski, Colonel Sir Casimir, A.D.C. to the Queen.                         | Bankin, John, Esq.                     |
| Hamilton, Robt., Esq.  | Raymond, Charles, Esq.                 |
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| Hope, John, Esq.   | Smith, Sir Donald A., M.P.             |
| Hosler, E. B., Esq.  | Smith, Capt. Geo. F.                   |
| Irwin, Lt.-Colonel D. T.   | Strange, Major General T. B.           |
| Joly de Lotbiniere, Hon. J. G.   | Turnbull, Lt.-Colonel T. T.            |

Amyrauld,  
Field

Bergeron,

Call, Lt.-C  
Batter

Coutlee, M  
Batter

Davidson, I  
Artiller

Davidson,  
Field B

Davison, Ca

Dibblee, L  
Field B

Doidge, Ca  
Batter

Dover, Lieu

Ducharme,  
Batter

Flowers, Cap

Good, Lieu

Gilchrist, Li  
Artillery

Hudon, Lieu

Irving, Lt.-C

Johnston, Li  
Field Ba

Longworth, M



## MEMBERS.

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| Amyrauld, Lt.-Colonel T., Shefford<br>Field Battery. | Maxwell, Major, Halifax Battalion.                        |
| Bergeron, Lieut., Levis G. A.                        | Martineau, Captain, Levis G. A.                           |
| Call, Lt.-Colonel, Newcastle Field<br>Battery.       | MacNachtan, Lieut. E. A., Cobourg<br>Company.             |
| Coutlee, Major, Winnipeg Field<br>Battery.           | MacNachtan, Lieut. N. F., Cobourg<br>Company.             |
| Davidson, Major, 1st Brigade, Field<br>Artillery.    | Maltby, Captain R. L., Newcastle<br>Field Battery.        |
| Davidson, Lieut. A. A., Newcastle<br>Field Battery.  | McLean, Lt.-Colonel, Durham Field<br>Battery.             |
| Davison, Captain, P.E.I. Battalion.                  | McCrae, Captain T., 1st Brigade,<br>Field Artillery.      |
| Dibblee, Lt.-Colonel, Woodstock<br>Field Battery.    | McCrae, Lieut. Jno., 1st Brigade,<br>Field Artillery.     |
| Doidge, Captain, Winnipeg Field<br>Battery.          | Moore, Captain, P. E. I. Battalion.                       |
| Dover, Lieut., P. E. I. Battalion.                   | Moore, Lt.-Colonel, P.E.I. Battalion.                     |
| Ducharme, Lieut., Winnipeg Field<br>Battery.         | Mowbray, Lieut., Halifax Battalion.                       |
| Flowers, Captain, Halifax Battalion.                 | Murchison, Captain, 1st Brigade,<br>Field Artillery.      |
| Good, Lieut., Woodstock Field By.                    | Nicoll, Lt.-Colonel, 1st Bde., Field<br>Artillery.        |
| Gilchrist, Lieut., 1st Brigade, Field<br>Artillery.  | Norman, Lieut., Winnipeg Field By.                        |
| Hudon, Lieut., Quebec G. A.                          | Oxley, Major, Halifax Battalion.                          |
| Irving, Lt.-Col., D.A.G., Halifax.                   | Roy, Lieut. A., Levis G. A.                               |
| Johnston, Lieut. H. H., Winnipeg<br>Field Battery.   | Roy, Lieut. F., Levis G. A.                               |
| Longworth, Major, P.E.I. Battalion.                  | Simpson, Lieut., 1st Brigade, Field<br>Artillery.         |
|  | Stewart, Lieut., P. E. I. Battalion.                      |
|  | Van Wagner, Lt.-Colonel H. P.,<br>Hamilton Field Battery. |
|  | Vien, Major, Levis G. A.                                  |

## LIST OF AFFILIATED BATTERIES, Etc.

Royal Military College, Kingston.				
"A" Battery, Royal Regt. C. A.				
"B" Battery, "				
No. 1 Battery, 1st Brigade, Field Artillery.				
" 2	"	"	"	"
Hamilton Field Battery.				
London	"	"		
Welland Canal Field Battery.				
Winnipeg Field Battery.				
Toronto	"	"		
Durham	"	"		
Gananoque	"	"		
Ottawa	"	"		
Montreal	"	"		
Shefford	"	"		
Quebec	"	"		
Newcastle	"	"		
Woodstock	"	"		
Montreal Battalion, Garrison Artillery (6 Companies).				
Halifax	"	"	8	"
P. E. Island	"	"	5	"
N. Brunswick	"	"	5	"
Cobourg Company	"	"		
No. 1	"	Levis	"	
No. 2	"	"	"	
No. 2	"	Quebec	"	
Digby	"	"	"	
Yarmouth	"	"	"	
Pictou	"	"	"	

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## Rules of the Association.

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1. That the Association be called the DOMINION OF CANADA ARTILLERY ASSOCIATION, and have for its object the development of Gunnery skill, and the dissemination of Artillery knowledge throughout the Dominion of Canada.
2. That the annual subscription for individual members be *two dollars*, which will give the right of voting at any regularly organized meeting, other than a meeting of Council. The donor of *twenty dollars*, in cash, at any one time, or a prize of not less value than *forty dollars*, to be competed for at a general prize meeting, may be elected a life member.
3. That any Canadian Artillery or Engineer Corps, the Royal Military College Cadets, and the Artillery detachment of the Northwest Mounted Police Force, subscribing not less than *ten dollars*, per Field, and *six dollars* per Garrison Battery, per annum, may become affiliated to this Association, and shall be entitled to a number of memberships in the proportion of one for each two dollars thus subscribed, the officers of each subscribing Battery to select from amongst themselves the person to hold such memberships and return their names and addresses, when selected, to the Secretary, to be registered by him previous to the Annual General Meeting.
4. The affairs of the Association to be managed by a Council to consist of *ex-officio* members and such officers on the Active or Retired lists as may be elected annually at a General Meeting. The Hon. the Minister of Militia and Defence; the Deputy Minister of Militia and Defence; the Major-General Commanding; the Adjutant-General; the Inspector and Assistant Inspectors of Artillery; the Deputy Adjutants-General of Districts, and Brigade Majors; All Officers Commanding, and Regimental Field Officers of Artillery Brigades; Officers Commanding Affiliated Batteries and Engineer Corps; the Director of Stores; the Commandant and Professors (being officers), Royal Military College; Military Secretary to the Governor-General, and President Dominion Rifle Association, shall, if members of the Dominion Artillery Association, be *ex-officio* members of Council. The Secretary and Treasurer shall likewise be *ex-officio* a member of the Council.
5. The Governor-General of the Dominion and the Lieutenant-Governors of the Provinces shall be respectfully requested to become Patron



and Vice-Patrons, respectively, of the Association; and at any General Meeting of the Association other names may be added to the list of Vice-Patrons.

6. A General Meeting of the Association shall be held annually, on the third Thursday after the meeting of Parliament, to receive the Annual Report of the Secretary and Treasurer, and to transact general business. No alteration of the Rules of the Association shall be made, excepting at such meeting. Twenty-one days' notice of any motion involving such alteration shall be given in writing by the member intending to propose it at the General Meeting to the Secretary, who shall forward it immediately to every member of the Association; and the notice shall be also published in two issues of the *Canadian Militia Gazette* prior to the Annual Meeting of this Association by the Secretary or other person authorized to act on his behalf—so long as such paper is published.

7. The office bearers shall consist of a President and four Vice-Presidents of the Association, to be elected annually at the Annual General Meeting of the Association, and a President and four Vice-Presidents of Council and a Secretary-Treasurer to be elected annually at the first meeting of the Council next after the Annual General Meeting. The Council shall have power to fill up vacancies occurring subsequently. There shall be also an Executive Committee to consist of the Inspector and Assistant Inspectors of Artillery, with two officers to be elected by the Council from among its members at the Meeting of Council after the Annual General Meeting, of which the Inspector of Artillery shall be chairman, to the charge of which Committee shall be entrusted all technical artillery matters and carrying out of annual competitions, appointment of umpires and the arrangement of details in connection therewith, three to form a quorum. The members of the Executive Committee to be eligible to any office and to report to the Council.

8. At all General Meetings of the Association the chair shall be taken by the President, in his absence by the senior Vice-President present, and in the absence of all the Vice-Presidents by the President of Council, and so on.

9. At all Meetings of Council five shall form a quorum, all questions shall be decided by the vote of the majority, and the chairman shall have a casting vote when the members are equal.

10. Ordinary meetings of Council shall be held on the day previous to, and immediately after the Annual General Meeting.

The Minutes of all Meetings of Council shall be entered in a book

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kept for that purpose by the Secretary, and open to the inspection of any member of the Council.

11. Extraordinary Meetings of Council shall be summoned by the Secretary when required by the President of Council, at such places as the President may direct, either at his own discretion, or upon the request, in writing, of six members of Council, of at least three different corps, duly qualified to vote at such meeting, one of whom shall be a Vice-President, notification being sent to each member of the Council at least fourteen days previous to such meeting, and the requisition for the meeting and the notices to the members must state the object, or objects, of such meetings. Members of Council shall be permitted to send a written vote to the Secretary upon subjects to be discussed at such meetings.

12. All subscriptions, other than through affiliation, to the Association shall become due on or before the 1st May for the current Association year, and the treasurer shall be required to deposit all sums of money paid over to him on behalf of the Association, in a Savings' Bank.

13. Two Auditors shall be appointed annually to examine the Treasurer's Accounts previous to the Annual Meetings.

14. The payment of money for current expenses must be authorized by the President of Council or in his absence by one of the Vice-Presidents, other payments to be made only on authority of Council.

15. The Council have the power of establishing such competitions as they may deem advisable. All technical details to be referred to the Executive Committee.

16. An annual report from the Secretary and Treasurer to be submitted to the Council before publication. The Council shall also make a report of the proceedings of the year to the General Association Meeting.

17. All competitions to be closed by the 31st December of each year, and all returns thereof, with list of men entitled to badges, must be sent to the Secretary by the 15th January ensuing the year for which the claim is made.

18. That members of Council, not being life members, must pay the annual subscription to remain as such.

19. That any Commanding Officer of a corps, being a member of Council, unable to attend any meeting of the same, may nominate, in writing, an officer of his own command to attend in his stead, and upon such officer delivering to the Secretary such nomination, he shall be entitled to speak and vote at such Meeting of Council, but any motion made or

seconded by him shall be made by him in the name of the member of Council for whom he acts.

20. Whenever an Artillery Association is formed for any of the Provinces of the Dominion, the Secretary shall be required to furnish such information from the records in his charge as may be required for the issue of Provincial prizes.

21. Officers who compete for prizes must be life or annual members of the Association.

22. All subscriptions for affiliation must be forwarded so as to reach the Secretary on or before the 1st of July in each year.



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## CUPS

### Competed for in the Association Competitions.

#### 1. General Efficiency, Field Batteries.—1st Prize.

Presented by His Excellency the Governor-General to Battery making the highest number of points for General Efficiency during the year (see table). Won by Hamilton Field Battery—Lt.-Colonel Van Wagner, Comdg.

#### BATTERIES WHICH HAVE WON CUPS PREVIOUSLY.

1880—No. 2 Battery, 1st Brigade, Guelph.  
1881—No. 2       "       "       "  
1882—No. 1       "       "       "  
1883—Quebec Field Battery  
1884—No. 1 Battery, 1st Brigade, Guelph.  
1885—Montreal Field Battery.  
1886—Ottawa       "       "  
1887—Hamilton       "       "  
1888—No. 1 Battery, 1st Brigade.  
1889—No. 1       "       "  
1890—No. 1       "       "  
1891—Hamilton Field Battery.  
1892—No. 2 Battery, 1st Brigade, Guelph.

#### 2. General Efficiency, Field Batteries.—2nd Prize.

##### LANSDOWNE CUP.

Held for the year by Battery second on list for General Efficiency, viz. :—No. 2 Battery, 1st Brigade, Guelph, Major Davidson, Comdg.

Held in 1888 by Hamilton Field Battery.  
1889 by Quebec       "       "  
1890 by Hamilton       "       "  
1891 by No. 1 Battery, 1st Brigade.  
1892 by Hamilton Field Battery.



### 3. General Efficiency, Garrison Artillery.—1st Prize.

Presented by His Excellency, same conditions as 1 (see table). Won by No. 1 Company, P. E. Island Battalion, Captain Davison, Comdg.

#### WON IN PREVIOUS YEARS BY:

1882—No. 1 Battery, P. E. Island Brigade.			
1883—No. 1	"	"	"
1884—No. 2	"	"	"
1885—No. 2	"	"	"
1886—No. 2	"	"	"
1887—No. 2	"	"	"
1888—No. 2	"	"	"
1889—No. 2	"	"	"
1890—No. 2	"	"	"
1891—No. 3	"	Halifax	"
1892—No. 3	"	"	"

### 4. General Efficiency, Garrison Artillery.—2nd Prize.

#### LANSDOWNE CUP.

Held for the year by Battery second on list for General Efficiency : No. 1 Battery, N.B. Bde., Captain Crawford, Comdg.

Held in 1888 by No. 1 Battery, New Brunswick Brigade.

1889 by No. 1	"	P. E. Island	"
1890 by No. 3	"	Halifax	"
1891 by No. 5	"	"	"
1892 by No. 5	"	"	"

### 5. Oswald Challenge Cup.

Firing Competition, Field Artillery.—Open to the Dominion. To be the Property of any Battery winning it two years in succession. Presented by Lt.-Colonel Oswald, late Montreal Brigade, Garrison Artillery. Won by Montreal Field Battery, Major the Hon. J. S. Hall, Comdg.

#### HELD PREVIOUSLY BY:

1884—Welland Canal Field Battery.			
1885—Montreal	"	"	
1886—Ottawa	"	"	
1887—Durham	"	"	
1888—Winnipeg	"	"	
1889—Quebec	"	"	
1890—No. 1 Battery, 1st Brigade.			
1891—Durham Field Battery.			
1892—Woodstock	"	"	

\* Cup previously won in 1891 by



### 6. Montizambert Challenge Cup.

Piring Competition, Field Artillery, Province of Ontario. Same conditions as No. 5. Presented by Lt.-Colonel C. E. Montizambert, Assistant Inspector of Artillery. Hamilton Field Battery, Lt.-Colonel Van Wagner, Comdg.

#### HELD PREVIOUSLY BY:

- 1883—No. 1 Battery, 1st Brigade.
- 1884—Welland Canal Field Battery.
- 1885—No. 2 Battery, 1st Brigade.
- 1886—Ottawa Field Battery.
- 1887—Durham “
- 1888—Gananoque “
- 1889—Hamilton “
- 1890—No. 1 Battery, 1st Brigade.
- 1891—Durham Field Battery.
- 1892—Not competed for.

### Gzowski Challenge Cup.\*

Presented by Colonel Sir Casimir Gzowski, K.C.M.G., A.D.C. to the Queen. To be held for one year by the Battery making shortest time in Drill and Driving Competition. Held 1893 by Durham Field Battery, Lt.-Col. McLean, Comdg.

### Mercier Challenge Trophy.

Presented by Hon. Honoré Mercier. To be competed for with 64-pr. R.M.L. guns. To become the property of any Battery winning it in three successive competitions. Held by No. 2 Detachment, No. 3 Company, Halifax Battalion, Captain Maxwell, Comdg.

- 1890—Held by Cobourg Garrison Battery.
- 1891— “ Digby “ “
- 1892— “ 3 Battery, Halifax Brigade.

### Turnbull Challenge Shield.

To be held for the year by the Battery making the highest aggregate score with 64-pr. R. M. L. and 40-pr. R. B. L. guns. Held by No. 1 Company, New Brunswick Battalion.

- 1890—Held by Cobourg Battery, Garrison Artillery.
- 1891— “ No. 4 “ Halifax Brigade.
- 1892— “ No. 3 “ “ “

\* Cup previously presented by Sir Casimir Gzowski for competition in 1884 was finally won in 1891 by the Durham Field Battery.

## CIRCULARS 1893.

### Annual Gun Practice—Field Batteries.

#### GENERAL REGULATIONS.

1. In accordance with G. O. (26), 14 Ap. '93, and G. O. (13), 13-5-'92, the following instructions are issued for the Annual Gun Practice of the Field Batteries in the Dominion :

2. Batteries which perform their drill in camp, in the vicinity of which a land or water range can be obtained, will carry out the following instructional practice.

#### Range Finding by Batteries.

3. The entire Battery will parade in drill order, march to the practice ground, and be halted in a suitable position, under cover if possible, in rear of the position to be selected for action.

(a.) The command "*Prepare for Action*" will be given, when limber boxes will be opened, one common shell per gun fuze with R. L. Fuze, tube pockets strapped on, sponge buckets filled, etc.

(b.) The C. O., Nos. 1 and Range-takers (if any) will advance, and dismounting under cover, select the positions for the guns. The target will be pointed out and its range taken or estimated. If necessary for the better observation of the results of fire, the C. O. will remain mounted during the practice.

(c.) Upon signal from the C. O. the Battery, under the command of the next senior officer, will advance as rapidly as the nature of the ground will allow, and each gun will come into action at the place marked by its own No. 1.

(d.) The C. O. will then give the command "with shell load," naming the target and range. Each gun will be laid at the named elevation, and the required deflection will be ordered by the Sectional Officer. The officer commanding is not limited to the employment of Nos. 1 as layers, the two best marksmen in each sub-division should be generally selected for this purpose, and should fall in as Nos. 7 and 8.

(e.) The C. O. will then order *slow fire* from the right or left, and will order the elevation for the next and succeeding rounds, care should be

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taken that each gun is laid at the elevation last ordered by the C. O. When the short bracket has been found, three rounds should be fired with the lesser of the two elevations found, vide pg. 132, Vol. II. When the range is found, common shell fire will be changed to shrapnel, the length of fuze being ordered for each gun by the C. O. and one round being fired by each.

(f.) The second target will now be used, and the range found by the above method, a second layer being selected, and one round of shrapnel fired as above.

Under ordinary circumstances, with careful observation, the range ought to be found with from 8 to 10 rounds. Should, however, the range not be found in 12 rounds, practice will be continued at the same target until it is so.

(g.) The Sectional Officers will be required to keep an accurate record of the elevation and deflection at which each of their guns is fired, noting the result as + or -. The C. O. and Captain, if available, will keep a record of the elevation of each round fired and will note the result as + or -, adding the estimated number of yards in each case.

(h.) The range party will keep a record of the observed result of each round, noting the estimated number of yards over or under of the burst, or first graze if blind. This record will be read out to the whole Battery after the practice is over, and the general results commented upon by the C. O. and Inspecting Officer.

4. Two targets, consisting of a float with cask and banrol, if a water range, will be placed at distances from 1200 to 1800 yds. range. They should be at a lateral interval of about 100 yds., and from 200 to 300 yds. apart. The Officer Commanding Artillery in Camp will make the necessary arrangements for providing targets and for range duties.

5. Officers Commanding Batteries will forward without delay, requisitions for the ammunition required for 24 rounds common and 8 rounds shrapnel shell. The supply for camp should, if possible, be drawn from their Battery reserve and taken into camp in the limbers—filled shell to be fitted with wads or primers and securely plugged.

It is most important to bear in mind that the instructional value of the above practice depends in a great measure upon its being carried out with every precaution supposed to be necessary in actual service, in consequence the greatest exactitude and celerity are indispensable in every movement.

No competition whatever will be sanctioned.

#### Annual Gun Practice.

6. Camps for Field Artillery Practice have been authorized to be held at Quebec and in Ontario during the month of September. The former



will be attended by detachments of four officers and eight N. C. O. or men from Field Batteries in Nova Scotia, New Brunswick and Quebec; and the latter by similar detachments from Field Batteries in Ontario.

The usual arrangements will be made for transport and allowances.

Revised Rules for Practice will be published.

The number of rounds to be expended and the general Rules and conditions will be the same as in 1892.

Officers commanding Batteries are requested to communicate directly with the Assistant Inspectors of Artillery at Quebec and Kingston with reference to requisitions for ammunition, dates of practice, etc., etc. These officers will act as Camp Commandants at these camps.

The Winnipeg and Sydney Field Batteries will practice at local headquarters.

D. T. IRWIN, Lt.-Colonel,  
*Inspector of Artillery.*

OTTAWA, 23rd May, 1893.

### Field Artillery.

GUN PRACTICE.—General Rules and conditions the same as in 1892, with the following exceptions, alterations, etc.:—

1. Winnipeg and Sydney Batteries practice at Local Headquarters and also the Woodstock Battery, unless satisfactory arrangements can be made for transport to Quebec.

Unless a suitable range can be found at Kingston, the Shefford Battery will practice at Quebec, and the Ontario Batteries at Port Hope.

2. If found practicable, the range will be altered for each battery competition, between defined limits, not exceeding 100 yds.—1700 to 1800. One trial shot will be fired at the commencement of each battery competition, the gun will be laid by the Umpire, who will inform the officer in charge as to the elevation and deflection given, and the result as signalled by the range party.

The officer in charge of the detachment will direct the elevation, deflection and length of fuze to be given.

OFFICERS' FIRING AND OBSERVING COMPETITIONS.—As last year. The latter to include the shrapnel shell, which *will not* be signalled. Distance of burst, or of graze, if blind, to be observed.

DRILL AND DRIVING COMPETITION.—Same as last year.

GENERAL EFFICIENCY COMPETITION.—Same conditions as previously published.

A subsistence allowance of *seventy-five cents per diem* will be made to each officer and man for such days as they are necessarily absent from

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Battery Headquarters for practice competition—absence after *six* p.m. going, and before *six* p.m. returning, shall not be considered as days necessarily absent. Subsistence allowance for men of detachment *while in camp* will be paid to the *Camp Caterer*.

All fees for affiliation must be paid on or before 30th June, inst.

Revised rules for practice will be published.

By order.

J. B. DONALDSON,

*Secretary.*

OTTAWA, 1st June, 1893.

### Garrison Artillery Competitions.

In accordance with authority received, the Annual Competition for gun practice and shifting ordnance will be held at Halifax, N.S., commencing on Tuesday, the 8th August.

Arrangements for transport, etc., to Halifax will be the same as last year, except that three officers are authorized to accompany each Company detachment. In the case of the Halifax Battalion, each company, if of a total strength of 84 N. C. O. and men, will count as two units for all competition. An entrance fee of six dollars must be paid for each unit entered.

#### REGULATIONS.

1. The following firing, drill and shifting ordnance competitions will be held, viz.:—

FIRING COMPETITION.—64-pr. R. M. L. gun.

Three Layers, selected from each detachment of seven N. C. officers or gunners, to fire each—

Common shell, plugged..... 4

Shrapnel shell, time fuze..... 1

The shrapnel shell to be fired after all the common shells have been fired. Fuze to be bored by No. 1 (gun captain). Elevation, deflection and length of fuze will be ordered by officer in charge of detachment.

One trial shot will be fired at the commencement of each Company competition. The gun to be laid by the Umpire, who will inform the officer in charge of the elevation and deflection given, and the result as signalled by the Range party.

There will be *no* individual prizes, except marksman's badges, in this competition.

2. OFFICERS' FIRING COMPETITION.—64-pr. R. M. L.

As last year. Officers to act as layers. To fire immediately before detachment.

3. DRILL INSTRUCTION AND COMPETITION.—Each detachment, with its officers, will be required to go through a course of instruction, from 4 to 5 hours, at drill with 9 inch or 10 inch R. M. L. guns, in Casemate or open batteries, under instructors from the Royal Artillery. During the last half hour's drill an examination in the drill previously practiced will be held, and prizes given for the best drilled detachments.

4. OFFICERS' OBSERVING COMPETITION.—As last year, to include shrapnel, which are not to be signalled.

5. SHIFTING ORDNANCE COMPETITION.—Rules same as last year. The following will be the details for the

*"A" Shift.*

A 64-pr. R. M. L. gun on a standing carriage to be dismounted by throwing it over the front on to the ground clear of the platform.

The gun to be then taken by means of plank and rollers round the platform and remounted by long skids with rollers.

Strength of detachment, nineteen numbers.

Stores allowed :—

Drag ropes, heavy.....	2				
Handspikes { 6 feet.....	8	Rollers { 14"x5".....	1		
{ 7 ".....	2	{ 24"x5".....	2		
Lashings, 1½ inch, 3 fathoms..	2	{ ground, 6"x3".....	3		
Luff tackles .....	2	Skids, fir, 14"x8"x8".....	2		
Planks { oak, 4"x12"x3".....	2	{ " oak, 3 x6 x9 .....	2		
{ fir { 10"x17"x3".....	2	{ " " 3 x6 x6 .....	2		
{ 6"x12"x3".....	2	{ " " 3 x4 x4 .....	3		
Scotches of Sorts.....	12	Selvagees.....	2		

Fifteen minutes allowed for the above operation. Detachments taking a longer time will be disqualified.

For dismounting .....	50 points.
" operation on rollers.....	75 "
" mounting .....	100 "

Points may be deducted by umpire for mistakes at drill, careless or awkward handling of stores, or other irregularities.

Four detachments to fire each day. Each detachment to remain two days in camp, one for drill instruction and the other for firing and shifting ordnance.

If found practicable, a daily trip will be arranged to visit one or more of the Forts in the vicinity.

*General Rules for above Competitions.* As for last year, except where modified by previous rules.

Batteries practicing at Local Headquarters will only be considered as eligible for participation in the General Prize List, upon the report of the Umpire that the conditions have been strictly observed, and the marking carried out by a thoroughly competent officer.

6. GENERAL EFFICIENCY COMPETITION.—The change in the establishment of the Halifax and British Columbia Batteries of Garrison Artillery, from 7 and 5 Batteries to 4 and 5 Companies respectively, will necessitate a change in the conditions regulating the General Efficiency Competition.

The present conditions are based upon a Battery unit of 3 officers, 6 N. C. officers and 35 gunners. Each of the Companies of the new establishment of the above Battalions, if not less than a total strength of 84 N. C. officers and men, will be considered as representing two units. As, however, there are only 5 officers per Company, in one of the half Companies the answers to officers' questions will be 12 instead of 8 each, thus giving the same total value to this subject. The N. C. officers' questions to remain the same, but to be answered by 6 N. C. O.'s, 2 Sergeants, 2 Corporals and 2 Bombardiers in each half Company.

The number of gun squads not to exceed four per half Company.

A subsistence allowance of *seventy-five* cents per diem will be made to each officer and man for such days as they are *necessarily* absent from Company Headquarters—leaving after 6 p.m. and arriving before 6 a.m. will not be counted as days necessarily absent. Subsistence allowance for men of detachment *while in Camp* will be paid to the *Camp Caterer*.

All affiliation fees must be paid on or before 30th June, inst.

By order.

J. B. DONALDSON,  
*Secretary.*

OTTAWA, 1st June, 1893.



## Garrison Artillery Competition.

DETAIL FOR THE MEETING AT HALIFAX, N. S.

DATE.	DRILL.	FIRING.	SHIFTING ORDNANCE.
Tuesday, 8th Aug.	Exam. Halifax Battalion.....	4 Detachments Halifax Battalion.	Halifax Battalion.
Wednesday, 9th Aug.	Exam. Halifax Battalion.....	4 Detachments Halifax Battalion.	
Thursday, 10th Aug.	Pictou Company.	3 Co.'s Montreal Battalion.....	Montreal Battalion.
Friday, 11th Aug.	3 Co.'s Montreal Battalion.....	Pictou Company.	
Saturday, 12th Aug.	Cobourg Company.	3 Co.'s Montreal Battalion.....	
Monday, 14th Aug.	3 Co.'s Montreal Battalion.....	Cobourg Company.	
Tuesday, 15th Aug.	4 Co.'s N. B. Battalion.....	3 Co.'s Quebec G. A. ....	N. B. Battalion.
		1 Co. N. B. Battalion.....	
		4 Co.'s N. B. Battalion.....	
		4 Co.'s P. E. I. Battalion.....	P. E. I. Battalion.
Wednesday, 16th Aug.	3 Co.'s Quebec G. A. ....	1 Co. P. E. I. Battalion.....	
	1 Co. N. B. Battalion.....	Digby Company.	
	1 Co. P. E. I. Battalion.....	Yarmouth Company.	
	Digby Company.	Mahone Bay Company.	
	Mahone Bay Company.		
	4 Co.'s P. E. I. Battalion.....		

Officers commanding will apply to the Deputy Adjutant General of their District for the necessary Transport Requisitions.

J. B. DONALDSON, *Secretary-Treasurer.*

OTTAWA, 14th July, 1893.

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To the silver cross To the in a garrison Score

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Officers commanding will apply to the Deputy Adjutant General of their District for the necessary Transport Requisitions.

J. B. DONALDSON, *Secretary-Treasurer.*

OTTAWA, 14th July, 1893.

## PRIZE LIST, 1893.

### Firing Competitions.

#### BADGES.

To the highest score in each battery—field or garrison—a badge of silver cross guns.

To the four next highest in a field battery, and the two next highest in a garrison battery, a badge of embroidered cross guns each.

Scores will not count for badges unless half the possible score is made.

#### ROYAL MILITARY COLLEGE.

Badges as for a Field Battery.

Prizes, value.....	\$25 00	
		\$25 00

#### ROYAL SCHOOLS OF ARTILLERY.

*9-pr. R.M.L. Guns.*

Aggregate .....	\$15 00
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Individual :—

1st Prize.....	6 00
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2nd " .....	4 00
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Badges as for Field Batteries.

*64-pr. R. M. L. or 40-pr. R. B. L. Guns.*

Aggregate .....	\$15 00
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Individual :—

1st Prize.....	6 00
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2nd " .....	4 00
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Badges as for Garrison Battery.....	50 00
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#### FIELD BATTERIES.

##### GENERAL COMPETITION.

*9-pr. R. M. L. Guns.*

Aggregate Scores—1* Oswald Cup.....	\$50 00
2 .....	40 00
3 .....	35 00
4 .....	30 00
5 .....	25 00
6 .....	*20 00
7 .....	15 00
8 .....	10 00

225 00

\*Cup to become the property of any Battery winning it two years in succession. Battery making highest score in Province of Ontario gets the Montizambert Cup on the same condition.

Individual Scores—1 at \$10 .....	\$10 00	
1 " 8 .....	8 00	
2 " 6 .....	12 00	
2 " 5 .....	10 00	
2 " 4 .....	8 00	
2 " 2 .....	4 00	
		\$52 00

## OFFICERS' FIRING COMPETITION.

1st Prize .....	value	\$20 00	
2nd " .....	"	15 00	
3rd " .....	"	10 00	
			45 00

## GARRISON BATTERIES.

## COMPETITIONS AT HALIFAX, N. S.

*64-pr. R.M.L. Guns.*

Aggregate Scores—1 .....	\$35 00	
2 .....	30 00	
3 .....	25 00	
4 .....	20 00	
5 .....	16 00	
6 .....	14 00	
7 .....	12 00	
8 .....	10 00	
9 .....	8 00	
		170 00

No individual prizes.

## DRILL COMPETITION.

*Outside Batteries.*

1st Prize .....	\$20 00	
2nd " .....	16 00	
3rd " .....	14 00	
4th " .....	12 00	
5th " .....	10 00	
6th " .....	8 00	
7th " .....	6 00	
		86 00

*Halifax Battalion.*

1st Prize .....	\$10 00	
2nd " .....	8 00	
3rd " .....	7 00	
		25 00

## OFFICERS' FIRING COMPETITION.

1st Prize.....	value	\$20 00	
2nd " .....	"	15 00	
3rd " .....	"	10 00	
			\$45 00

*64-pr. Guns.*

## OFFICERS' COMPETITION—LOCAL HEADQUARTERS.

1st Prize.....	\$15 00	
2nd " .....	10 00	
		25 00

Batteries practicing at local headquarters, including those in British Columbia, prizes at the rate of \$10 per Battery.

## Officers' Observing Competition.

To the officer making the most accurate average observations—for each nature of gun:—

1st Prize .....	value	\$20 00	
2nd " .....	"	15 00	
3rd " .....	"	10 00	
			45 00

## Drill and Driving Competition.

1 Gzowski Challenge Cup and .....	\$35 00	
2 .....	25 00	
3 .....	15 00	
4 .....	10 00	
		85 00

## Shifting Ordnance Competition.

Royal Schools of Artillery .....	\$25 00
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## GARRISON BATTERIES.

HALIFAX, N.S.

Shift A—1st Prize .....	\$40 00	
2nd " .....	30 00	
3rd " .....	15 00	
		85 00
Shift B—1st Prize .....	\$40 00	
2nd " .....	30 00	
3rd " .....	15 00	
		85 00

One first prize if only two detachments or under compete; two prizes if three detachments compete, and three prizes if five detachments compete.

## BRITISH COLUMBIA.

One prize if two or more Batteries compete .....	20 00
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**Short Course Efficiency.**

To N. C. Officer or Gunner obtaining highest decimal at R. S. A.,  
Kingston, Quebec and Victoria, each :—

1st Prize.....	\$15 00	
2nd " .....	10 00	
3rd " .....	8 00	
4th " .....	5 00	
		\$114 00

**Voluntary Drills.**

Highest Average attendance, Field or Garrison	\$20 00	
Second .....	10 00	
		30 00

**General Efficiency.**

1st. To Battery making highest total points in their respective arm, Cup or Trophy, value.....	\$50 00	
2nd To Battery making the 2nd highest total points, Lansdowne Cup to be held for the year, and .....	40 00	
3rd.....	25 00	
		115 00

By order.

J. B. DONALDSON, *Captain,*  
*Secretary-Treasurer.*

Ottawa, 25th July, 1893.



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## Rules for Practice.

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1. One trial shot, Common Shell with percussion fuze, or solid shot, will be allowed at the commencement of each Battery Competition or *when target has been moved to a different locality during a competition.*— Trial shots to be laid by the Umpire on the target, without any deflection and the results as signalled communicated by him to the officer in charge of the Detachment.
2. Before commencing, guns to be in action, time fuzes not bored, percussion fuzes may be screwed in, detachment in post at the guns or under cover.
3. Each competitor to prepare and fix his own time fuzes, and to lay his gun without verbal assistance except from the officer in command of his detachment, who will instruct the competitor as to length of fuze, elevation, deflection, etc., but who must not look over, or correct the laying of the gun. After the gun is laid, and the tangent scale lowered, the officer in charge of the detachment may, without interfering with the sights, ascertain if the gun is laid for the correct target, if not, the competitor will be required to re-lay the gun, losing the time necessarily so occupied, in addition to a penalty of two points.
4. Lots to be drawn for the order of competitive firing, and not divulged until the competitor is called out by the umpire.
5. The Range Officer is alone responsible for points given for elevation. No appeal.
6. The danger flag will be *hoisted*, and cease firing sounded by the Range Officer when it is necessary to visit the target. When these signals are *repeated* from the Battery and the firing flag lowered, he can visit the target, lowering the danger flag and sounding "commence firing" when he has returned to a place of safety.
7. The Officer in charge of the marking at the Battery is alone responsible for points given for direction. No appeal.
8. On all other matters the decision of the Officer superintending the practice is final. No appeal.
9. Each competitor may be told the points given for direction. The observation of the effect of each shot will be made by the officer in charge

of the detachment, who will communicate it to the competitors, at the same time giving necessary directions as to changes in elevation, deflection, or length of fuze. Except when sanctioned by the umpire, the observing officer is not to take any position in front of, or more than 20 yards from the gun.

10. On Land Ranges, when the circumstances of the case will permit, or when two or more Batteries are practising together, telephones may be used for signalling purposes.

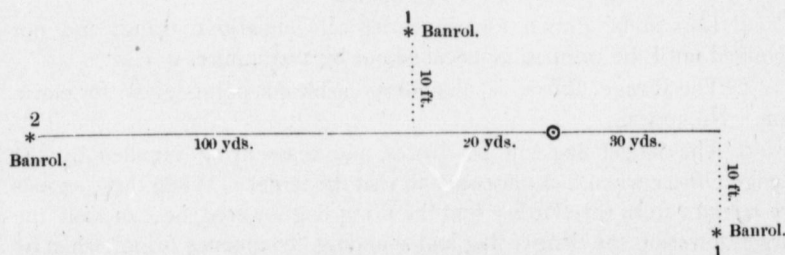
11. When the signalling is by flags, and if considered necessary by the umpire, a *white* flag may be hoisted at the Battery when shrapnel shell are to be used.

12. At all competitive gun practice, with Field or Garrison Guns, the result of the trial shots only, will be signalled at once by the range party.

13. When two or more detachments are firing over the same Range, the position of the target will be altered before the commencement of each practice. This alteration of range will not exceed 50 yards either over or under, and will be carried out by the Range party by direction of the umpire, who will be careful to see that no information is given as to the new position of the target.

### Rules for Marking.

#### SEA RANGES.



#### ELEVATION.

##### COMMON SHELL OR SOLID SHOT.

Under, between 1 and Target .....	3
Over, " 1 " .....	2
Over or under, within 5 yds. of target .....	4
Direct hit—extra .....	2

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## SHRAPNEL SHELL—FUZE GOOD.

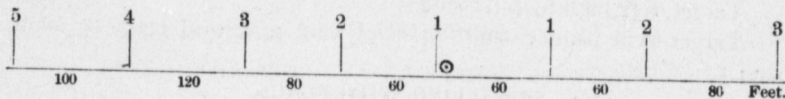
Under, between 1 and target .....	3
“ “ 1 and 2 .....	4
Over .....	0
If Fuze blind, half points as for common shell, under and over.	
Direct hit—1 extra.	

## DIRECTION.

In line .....	2
Within limits .....	1

NOTE.—The above system is to be used only when the system of marking for Land Ranges cannot be carried out.

## LAND RANGES.



## ELEVATION.

## COMMON SHELL OR SOLID SHOT.

Between 1 and 1 .....	6
“ 1 “ 2 .....	4
“ 2 “ 3 .....	2

## SHRAPNEL SHELL—FUZE GOOD.

Between 2 and Target .....	2
“ 2 “ 3 .....	4
“ 3 “ 4 .....	5
“ 4 “ 5 .....	3

If Fuze blind, half points as for common shell, under and over.

## DIRECTION.

In line .....	2
Within limits .....	1

## General Rules.

1. If a competitor breaks the bit in the fuze, he will be required to bore the Fuze with another bit, at the next graduation over, or under, as the Officer superintending the Practice may decide.
2. No points to be given for shrapnel shell bursting beyond the target, whether before or after a graze.

3. Shells grazing outside limits, over or under, to have no points for elevation or fuze.

4. Shells grazing and bursting within shrapnel limit to receive points according to position of burst.

5. The Umpire will have full discretionary powers to disqualify any detachment, or to inflict a penalty of from two to five points for each irregularity or mistake at drill noticed by him.

Ties to be decided by—

1. Points for direction.
2. Common shell score.
3. Time.

NOTE.—The above scale of distances for Land Ranges is calculated for ranges over 1300 yards; below this distance to be  $\frac{3}{4}$  the above.

Target, 6 ft. high by 6 ft. wide.

Target to be painted *white* or *black* with a vertical black or white band 3 ft. wide.

#### SIGNALLING WITH FLAGS.

Range Officer to face the Battery.

To signal values—each wave indicates 1 point.

In bounds, over—wave to the right.

“ under— “ left.

In line—flag to be held vertical.

Direct hit—flag to be waved right and left overhead.

To signal shots out of bounds—

Every 10 yds. out of bounds, over—one wave to the right.  
“ “ under— “ left. } *Blue flag.*

To signal blind shrapnel. First wave *white* flag horizontally, and then signal values of blind shrapnel with *blue* flag.

*Danger—Cease Firing—Red* flag held vertical.

Repeat previous signal—Red flag waved right and left.

#### TIME ALLOWANCE.

Field guns..... 1 min. 30 sec. each round.

Garrison guns..... 2 min. 30 sec.

A reduction of one point for every 30 sec. or fraction thereof beyond allowance.

D. T. IRWIN, Lieut.-Col.,

*Dominion Inspector of Artillery.*

Corporal G.  
Cadet Hayter

1 Montreal  
2 Newcastle  
3 Quebec  
4 Hamilton  
5 Durham  
6 Welland  
7 Ottawa  
8 Sheffield

1 Sergt. E.  
2 Sergt. W.  
3 Sergt.-Ma.  
4 Sergt. Ma.  
5 Corpl. F.  
6 Corpl. W.  
7 Sergt.-Ma.  
8 Sergt.-Ma.  
9 Sergt. Va.  
10 Bdr. C. S.

1 Lieut. Sn.  
2 Lieut. Gi.  
3 Lt.-Colon

1 Lt.-Col. A.  
2 Lt. Col. M.  
3 Lt.-Col. I.

## Summary of Prizes Awarded.

### ROYAL MILITARY COLLEGE.

Corporal G. Osborne .....	Prize value, \$12 50
Cadet Hayter .....	" 12 50

### ROYAL CANADIAN ARTILLERY.

#### FIELD BATTERIES.

##### FIRING COMPETITION—AGGREGATE PRIZES.

1 Montreal Battery .....	244 points.....	\$50 00
2 Newcastle " .....	243 " .....	40 00
3 Quebec " .....	219 " .....	Dir. 80..... 35 00
4 Hamilton " .....	219 " .....	" 74..... 30 00
5 Durham " .....	216 " .....	25 00
6 Welland Canal " .....	205 " .....	20 00
7 Ottawa " .....	201 " .....	Dir. 87..... 15 00
8 Shefford " .....	201 " .....	" 80..... 10 00

##### INDIVIDUAL SCORES.

		Score.	Dir.	C. S. Score.	
1 Sergt. E. Marcheterre .....	Quebec .....	41 .....			\$10 00
2 Sergt. W. Copp .....	Newcastle .....	38 .....	12 .....	28 .....	8 00
3 Sergt.-Maj. McMahon .....	Durham .....	38 .....	12 .....	26 .....	6 00
4 Sergt. McIntosh .....	No. 2, 1st Bde.. ..	38 .....	8 .....		6 00
5 Corpl. F. Jones .....	Newcastle .....	37 .....			5 00
6 Corpl. Worrell .....	Hamilton .....	36 .....	12 .....		5 00
7 Sergt.-Maj. Spry .....	Toronto .....	36 .....	10 .....	29 .....	4 00
8 Sergt.-Maj. Mesler .....	Welland .....	36 .....	10 .....	22 .....	4 00
9 Sergt. Van Wart .....	Woodstock .....	35 .....	11 .....	25 .....	2 00
10 Bdr. C. Seale .....	Shefford .....	35 .....	9 .....		2 00

##### OFFICERS' FIRING COMPETITION.

1 Lieut. Snyder, Durham Field Battery.....	\$20 00
2 Lieut. Gilchrist, No. 1 Battery, 1st Brigade.....	15 00
3 Lt.-Colonel Dibblee, Woodstock Field Battery.....	10 00

##### OFFICERS' OBSERVING COMPETITION.

1 Lt.-Col. Amyrauld, Shefford Field Battery.....	\$20 00
2 Lt. Col. McLean, Durham " .....	15 00
3 Lt.-Col. Dibblee, Woodstock " .....	10 00



## GENERAL EFFICIENCY.

1 Hamilton Battery.....	486.5 points.....	Cup value \$50 00
2 No. 2 By., 1st Brigade.....	481.2 ".....	40 00
3 Durham Battery.....	465.7 ".....	25 00

## DRILL AND DRIVING COMPETITION.

1 Durham Field Battery.....	\$35 00
2 Quebec " ".....	5 00
3 Woodstock " ".....	15 00
4 Newcastle " ".....	10 00

## GARRISON ARTILLERY.

## FIRING COMPETITIONS—AGGREGATE SCORES.

1 No. 2 Detachment, No. 3 Co'y., Halifax Battalion.....	\$35 00
2 No. 2 " " " " " ".....	30 00
3 No. 2 Company, Levis.....	25 00
4 No. 5 " N. B. Battalion.....	20 00
5 No. 1 Detachment, No. 4 Co'y., Halifax Battalion.....	16 00
6 No. 1 Company, Levis.....	14 00
7 No. 6 " Montreal Battalion.....	12 00
8 No. 2 Detachment, No. 4 Co'y., Halifax Battalion.....	10 00
9 No. 2 Company, Quebec.....	8 00

## DRILL COMPETITION.

## OUTSIDE BATTERIES.

1 No. 2 Company, Quebec.....	\$20 00
2 No. 4 " Montreal Battalion.....	10 00
3 No. 4 " N. B. ".....	14 00
4 No. 2 " Montreal ".....	12 00
5 No. 1 " N. Brunswick ".....	10 00
6 No. 3 " ".....	8 00
7 No. 6 " Montreal.....	6 00

## HALIFAX BATTALION.

1 No. 2 Detachment, No. 1 Company.....	\$10 00
2 No. 1 " 4 ".....	8 00
3 No. 2 " 3 " and No. 1 Detachment, No. 2 Co'y. (equal).....	7 00

## OFFICERS' FIRING COMPETITION.

1 Capt. Martineau, No. 1 Company, Levis.....	\$20 00
2 Lieut. Bergeron, No. 2 " ".....	15 00
3 Lieut. E. A. MacNachtan, Cobourg Company.....	10 00

## OFFICERS' OBSERVING COMPETITION.

1 Capt. Flowers, Halifax Battalion.....	20 00
2 Lieut. Stewart, P. E. I. ".....	15 00
3 Major Oxley, Halifax ".....	10 00

Shift A.—1

2

3

Shift B. —1

2

3

1 No. 1 Co.

2 No. 1

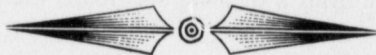
3 No. 1

## SHIFTING ORDNANCE COMPETITION.

Shift A.—1 P. E. Island Battalion.....	\$40 00
2 No. 4 Company, Halifax Battalion.....	30 00
3 No. 3 “ “ “.....	15 00
Shift B.—1 No. 1 “ “ “.....	40 00
2 P. E. Island Battalion.....	30 00
3 No. 3 Company, Halifax Battalion.....	15 00

## GENERAL EFFICIENCY.

1 No. 1 Company, P. E. Island Battalion.....	Cup, value \$50 00
2 No. 1 “ N. B. “.....	40 00
3 No. 1 “ Levis.....	25 00



## DOMINION ARTILLERY ASSOCIATION.

From Professor of Artillery,  
To Staff Adjutant, R. M. College.

R. M. COLLEGE,  
KINGSTON, ONT., 24, 6, '93.

SIR,

I have the honour to inform you that I have recommended that the two prizes (each of the value of \$12.50) and the badges given by the D. A. Association be awarded to the undermentioned N. C. Os. and Cadets.

PRIZES.—Corporal G. Osborne and Cadet Hayter.

BADGES.—Corporal G. Osborne, Cadet Osler, Cadet Beer, Sergeant Brigstoke and Corporal Muckleston.

I would again request that the President and Members of the Association be thanked for their kindness in giving these prizes and badges, which are of the greatest value to the College in as much as they give an impetus to the Cadets to acquire a theoretical Artillery knowledge, and also to carry out their drills with more smartness than would otherwise be obtained.

I have the honour to be,

Sir,

Your obedient Servant,

C. E. ENGLISH,

Captain, R. A.

Professor of Artillery, R. M. C.

RECOR

RANK

Qr.-Mr. Sgt.

Bde. Sgt.-Ma

Sergt. Wilkin

By. Sgt.-Maj.

Bomb. Gilchr

Bomb. Gould

Sergt. Locker

Corp. Roberts



[illegible]

## RECORD OF PRACTICE, ETC.—Continued.

## No. 2 Battery, 1st Brigade.

RANK AND NAMES.	No. of round	SCORE.			TIME.			REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.	Points lost for Overtime.	
Sergt. McIntosh.....	1	1	6	7				
	2	1	4	5				
	3	1	6	7				
	4	1	6	7				
	5	2	4	6				
	6	2	5	7	9	30	1	38
Corp. Smith .....	1	1	4	5				
	2	2	.	.				
	3	2	4	6				
	4	2	4	6				
	5	2	3	5				
	6	2	.	.	8	45		22
Qr.-Mr. Sgt. Thatcher .....	1	2	4	6				
	2	2	.	.				
	3	2	.	.				
	4	2	6	8				
	5	2	2	4				
	6	2	4	6	7	57		24
Sergt. J. H. Anderson.....	1	2	6	8				
	2	2	.	.				
	3	2	6	8				
	4	2	2	4				
	5	2	4	6				
	6	2	5	7	7	10		33
By. Sgt -Maj. Ritchie .....	1	2	6	8				
	2	1	2	3				
	3	2	.	.				
	4	1	.	.				
	5	2	3	5				
	6	2	5	7	7	40		23
Gunner Simmons .....	1	2	6	8				
	2	2	6	8				
	3	2	.	.				
	4	2	6	8				
	5	2	.	.				
	6	2	.	.	10	50	4	20
Corp. Jackson.....	1	2	6	8				
	2	2	.	.				
	3	2	.	.				
	4	2	6	8				
	5	2	5	7				
	6	2	.	.	8	42		23
Corp. Findlay .....	1	2	.	.				
	2	2	.	.				
	3	2	.	.				
	4	2	.	.				
	5	2	4	6				
	6	2	5	7	7	47		13
Battery total.....								196

### London Battery.

[illegible]



## RECORD OF PRACTICE, ETC.—Continued.

### Welland Canal Battery.

[illegible]

MARKS.

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min	Sec.			
Sergt. Homer.....	1	2	2	4					
	2	1	6	7					
	3	2	6	8					
	4	1	4	5					
	5	1	2	3					
	6	2	5	7	9	15	1	38	
Sergt. Hoodless .....	1	2	4	6					
	2	2	4	6					
	3	2	4	6					
	4	1	6	7					
	5	2	2	4					
	6	1	4	5	7	43		34	
Corp. Dawe .....	1	2	6	8					
	2	1	6	7					
	3	1	.	.					
	4	1	4	5					
	6	1	4	5					
	6	2	5	7	9	55	2	30	
Corp. Worrell.....	1	2	2	4					
	2	2	6	8					
	3	2	6	8					
	4	2	6	8					
	5	2	3	5					
	6	2	3	5	9	35	2	36	
Corp. McKeown.....	1	2	.	.					
	2	1	6	7					
	3	2	2	4					
	4	1	4	5					
	5	2	.	.					
	6	1	4	5	8	..		21	
Sgt -Maj. Wholton .....	1	1	4	5					
	2	2	2	4					
	3	1	6	7					
	4	1	4	5					
	5	2	3	5					
	6	2	3	5	8	55		31	
Corp. Warring.....	1	.	4	.					
	2	2	6	8					Out right.
	3	1	4	5					
	4	2	.	.					
	5	1	1	2					
	6	1	5	6	9	..		21	
Gunner Tuck .....	1	2	.	.					
	2	2	4	6					
	3	1	.	.					
	4	1	6	7					
	5	2	.	.					
	6	2	.	.	7	55		13	
Battery total.....								219	

## RECORD OF PRACTICE, ETC.—Continued

## Toronto Battery.

RANK AND NAMES.	No. of round	SCORE			TIME.			REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.	Points lost for Overtime.	
Corp. Abbott .....	1	1	4	5				
	2	2	4	6				
	3	2	2	4				
	4	1	2	3				
	5	2	2	4				
	6	2	.	.	7	10		22
Bomb. Warrington .....	1	1	.	.				
	2	2	.	.				
	3	2	.	.				
	4	2	.	.				
	5	1	.	.				
	6	2	1	3	9	..		3
Sgt.-Maj. Spry .....	1	2	6	8				
	2	1	4	5				
	3	2	6	8				
	4	2	6	8				
	5	1	2	3				
	6	2	2	4	8	30		36
Sergt. Cotter .....	1	1	4	5				
	2	.	.	.				Out left.
	3	2	4	6				
	4	1	6	7				
	5	2	3	5				
	6	2	1	3	10	..	2	24
Sergt. Thompson .....	1	2	6	8				
	2	1	2	3				
	3	1	2	3				
	4	2	2	4				
	5	2	1	3				
	6	1	.	.	7	30		21
Corp. Pullen .....	1	1	.	.				
	2	2	4	6				
	3	2	6	8				
	4	1	2	3				
	5	2	5	7				
	6	2	.	.	7	30		24
Gunner Bennett .....	1	1	.	.				
	2	2	4	6				
	3	2	6	8				
	4	2	6	8				
	5	2	.	.				
	6	2	3	5	7	30		27
Sergt. Johnston .....	1	1	6	7				
	2	2	2	4				
	3	2	4	6				
	4	2	6	8				
	5	2	2	4				
	6	2	.	.	8	15		29
Battery total .....								186

Sergt. Caswe

Sergt. Hend

Sergt Hay

Sergt. Hutch

Sergt. Kearns

Sergt. Kenne

Sgt.-Maj. Mo

Sergt. Davey.



## RECORD OF PRACTICE, ETC.—Continued.

### Durham Battery.

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Sergt. Caswell	1	1	.	.					
	2	2	.	.					
	3	2	4	6					
	4	2	6	8					
	5	1	.	.					
	6	1	2	3	10	42	4	13	
Sergt. Henderson	1	2	4	6					
	2	2	.	.					
	3	2	6	8					
	4	1	4	5					
	5	2	4	6					
	6	2	.	.	7	46		25	
Sergt Hay	1	1	2	3					
	2	1	.	.					
	3	1	4	5					
	4	2	.	.					
	5	2	2	4					
	6	2	5	7	6	39		19	
Sergt. Hutchinson	1	1	4	5					
	2	1	2	3					
	3	2	4	6					
	4	2	4	6					
	5	2	4	6					
	6	2	4	6	7	05		32	
Sergt. Kearns	1	2	4	6					
	2	2	4	6					
	3	2	4	6					
	4	1	4	5					
	5	2	4	6					
	6	2	2	4	6	25		33	
Sergt. Kenneally	1	2	4	6					
	2	2	4	6					
	3	2	.	.					
	4	2	4	6					
	5	2	3	5					
	6	2	2	4	7	47		27	
Sgt.-Maj. McMahon	1	2	4	6					
	2	2	4	6					
	3	2	4	6					
	4	2	6	8					
	5	2	4	6					
	6	2	4	6	5	27		38	
Sergt. Davey	1	2	4	6					
	2	2	4	6					
	3	2	2	4					
	4	2	4	6					
	5	2	5	7					
	6	2	.	.	8	29		29	
Battery total		216							

### Gananoque Battery.

[illegible]

## ARKS.

[illegible]



[illegible]

## RECORD OF PRACTICE, ETC.—Continued

## Shefford Battery.

RANK AND NAMES.	No. of round	SCORE			TIME.			REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.	Points lost for Overtime.	
Sergt. W. Irwin .....	1	1	2	3				
	2	2	.	.				
	3	1	4	5				
	4	2	.	.				
	5	2	.	.				
	6	2	3	5	7	30		Blind & out of bounds under
								13
Qr.-Mr. Sgt. Nealy .....	1	1	.	.				
	2	1	2	3				
	3	2	.	.				
	4	1	2	3				
	5	2	2	4				
	6	2	5	7	8	..		17
Bomb. C. Seale .....	1	1	4	5				
	2	2	6	8				
	3	1	4	5				
	4	2	6	8				
	5	1	1	2				Blind.
	6	2	5	7	9	..		35
Bomb. A. Seale .....	1	1	2	3				
	2	2	6	8				
	3	2	2	4				
	4	.	4	.				Out right.
	5	2	1	3				Blind.
	6	2	.	.	9	..		18
Corp. H. Runnells .....	1	2	2	4				
	2	2	6	8				
	3	2	2	4				
	4	1	2	3				
	5	2	4	6				
	6	2	3	5	8	30		30
Corp. J. Purdy .....	1	2	2	4				
	2	2	2	4				
	3	2	4	6				
	4	2	4	6				
	5	2	.	.				
	6	2	1	3	9	..		Out under.
								23 Blind.
Sergt. A. Bell .....	1	2	4	6				
	2	1	6	7				
	3	2	2	4				
	4	2	4	6				
	5	2	1	3				Blind.
	6	2	3	5	6	..		31
Sergt. W. A. Purdy .....	1	2	4	6				
	2	1	4	5				
	3	1	4	5				
	4	1	6	7				
	5	2	3	5				
	6	2	4	6	8	20		34
Battery total .....								201

[illegible]



## RECORD OF PRACTICE, ETC.—Continued.

## Newcastle Battery.

RANK AND NAMES.	No. of round	SCORE.			TIME.			REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.	Points lost for Overtime.	
Qr.-Mr. Sgt. Russell .....	1	1	4	5				
	2	2	4	6				
	3	1	4	5				
	4	2	6	8				
	5	2	1	3				
	6	2	2	4	6	53		Blind.
Sergt. O'Shaughnessy .....	1	2	.	.				
	2	2	6	8				
	3	2	4	6				
	4	2	4	6				
	5	2	.	.				
	6	2	.	.	5	32		20
Sgt.-Maj. Tushie .....	1	1	4	5				
	2	2	2	4				
	3	2	2	4				
	4	2	2	4				
	5	2	3	5				
	6	2	5	7	6	33		29
Sergt. Kethro .....	1	2	6	8				
	2	2	4	6				
	3	2	.	.				
	4	2	2	4				
	5	2	4	6				
	6	2	.	.	6	.		24
Corp. J. Willison .....	1	2	6	8				
	2	2	2	4				
	3	2	6	8				
	4	1	4	5				
	5	1	1	2				
	6	2	3	5	7	13		Blind.
Corp. F. Jones .....	1	1	4	5				
	2	2	4	6				
	3	2	4	6				
	4	2	6	8				
	5	2	5	7				
	6	2	3	5	8	03		37
Sergt. W. Copp .....	1	2	6	8				
	2	2	6	8				
	3	2	6	8				
	4	2	2	4				
	5	2	3	5				
	6	2	3	5	6	20		38
Bomb. M. Jones .....	1	2	2	4				
	2	2	2	4				
	3	2	2	4				
	4	2	6	8				
	5	2	3	5				
	6	2	5	7	8	20		32
Battery total .....								243

[illegible]

## RECORD OF PRACTICE, ETC.—Continued.

### Winnipeg Battery.

Only 5 rounds fired, 1 shrapnel shell being short from  
limber box.

RECORD OF PRACTICE, Etc.—Continued.  
**Officer's Firing Competition—Field Artillery.**

RANK AND NAMES.	No. of round	SCORE.			TIME. for		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Lieut. Snyder .....	1	2	4	6					
Durham Field Battery.	2	2	6	8					
	3	2	6	8	2	58		22	
Lieut. Gilchrist .....	1	2	6	8					
No. 1, 1st Bde.	2	2	4	6					
	3	2	6	8	4	15		22	
Lt.-Col. Dibblee .....	1	1	4	5					
Woodstock.	2	1	6	7					
	3	2	6	8	4	..		20	
Lieut. Gilmore .....	1	2	6	8					
Ottawa.	2	1	6	7					
	3	2	2	4	4	..		19	
Lieut. Norman .....	1	2	4	6					
Winnipeg.	2	2	4	6					
	3	2	4	6	2	41		18	
Lt.-Col. King .....	1	2	4	6					
Welland Canal.	2	2	4	6					
	3	2	4	6	3	19		18	
Capt. Hooper .....	1	2	6	8					
Montreal.	2	2	4	6					
	3	2	2	4	3	20		18	
Major Coutlée .....	1	2	4	6					
Winnipeg.	2	1	4	5					
	3	1	6	7	3	09		18	
Major Davidson .....	1	1	4	5					
No. 2, 1st Bde.	2	1	6	7					
	3	1	4	5	3	25		17	
Capt. Doidge .....	1	2	4	6					
Winnipeg.	2	2	4	6					
	3	2	2	4	2	46		16	
Capt. Merewether .....	1	2	2	4					
No. 2, 1st Bde.	2	2	4	6					
	3	2	4	6	3	58		16	
Capt. Irving .....	1	2	2	4					
Toronto.	2	2	4	6					
	3	2	4	6	4	..		16	
Lieut. Ducharme .....	1	2	2	4					
Winnipeg.	2	1	4	5					
	3	1	6	7	3	08		16	
Lt. Col. Stewart .....	1	2	6	8					
Ottawa.	2	..	..	..					Out right.
	3	2	6	8	3	30		16	
Lieut. Johnstone .....	1	1	4	5					
Newcastle.	2	2	4	6					
	3	2	2	4	2	15		15	
Lieut. Good .....	1	2	2	4					
Woodstock.	2	2	4	6					
	3	1	4	5	3	50		15	

RA

Major Mead  
Toronto.Lieut. Knowlton  
No. 1, 1st Bde.Lieut. Robinson  
Gananoque.Lieut. Benyon  
Montreal.Lt.-Col. Lindsay  
Quebec.Lt.-Col. Macdonald  
1st Bde.Lieut. Myles  
Toronto.Lt.-Col. Nicholson  
No. 1, 1st Bde.Lieut. McCrae  
No. 2, 1st Bde.Capt. Milligan  
Durham.Lieut. Armstrong  
Toronto.



RECORD OF PRACTICE, ETC.—*Continued.*

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Major Mead .....	1	2	2	4					
Toronto.	2	2	4	6					
	3	1	4	5	4	..		15	
Lieut. Knowles .....	1	1	6	7					
No. 1, 1st Bde.	2	2	6	8					
	3	1	.	.	3	51		15	
Lieut. Robinson .....	1	1	.	.					
Gananoque.	2	2	6	8					
	3	1	6	7	4	03		15	
Lieut. Benyon .....	1	2	2	4					
Montreal.	2	2	4	6					
	3	2	2	4	3	07		14	
Lt.-Col. Lindsay .....	1	2	2	4					
Quebec.	2	2	4	6					
	3	2	2	4	4	25		14	
Lt.-Col. Macdonald ..	1	1	2	3					
1st Bde.	2	1	6	7					
	3	2	2	4	3	..		14	
Lieut. Myles .....	1	2	4	6					
Toronto.	2	1	2	3					
	3	1	4	5	3	..		14	
Lt.-Col. Nicoll .....	1	2	4	6					
No. 1, 1st Bde.	2	1	6	7					
	3	2	.	.	3	15		18	
Lieut. McCrae .....	1	1	4	5					
No. 2, 1st Bde.	2	2	2	4					
	3	2	2	4	4	20		18	
Capt. Milligan .....	1	2	6	8					
Durham.	2	2	2	4					
	3	.	2	.	2	50		12	
Lieut. Armstrong .....	1	1	4	5					
Toronto.	2	1	4	5					
	3	2	2	4	5	10	2	12	

RECORD OF PRACTICE, ETC.—Continued.

**GARRISON ARTILLERY—64-pr. R.M.L. Guns.**  
**Montreal Battalion, No. 1 Company.**

[illegible]

### No. 2 Company.

[illegible]

## RECORD OF PRACTICE, ETC.—Continued

**Montreal Battalion, No. 3 Company.**

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Sergt. Eldridge.....	1	2	6	8					Fired 10th August.
	2	1	2	3					
	3	2	4	6					
	4	1	4	5	9	25		22	
Gunner Scott .....	1	.	.	.					Out of bounds left.
	2	2	6	8					
	3	1	4	5					
	4	1	4	5	9	30		18	
Bomb. Tattersal.....	1	.	.	.					Points for direction were lost by shells going to left.
	2	1	4	5					
	3	.	4	.					
	4	1	4	5	11	..	2	8	
Shrapnel Shell	1	2	5	7					16
	2	1	5	6					
	3	1	2	3					
Company total .....								64	

**No. 4 Company.**

[illegible]

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min	Sec.			
Corp. Hamilton .....	1	2	.	.					
	2	2	2	4					
	3	2	.	.					
	4	1	2	3	8	30		7	
Corp. Finlay .....	1	2	.	.					
	2	2	4	6					
	3	1	2	3					
	4	.	4	.	10	..		9	Out of bounds left.
Bomb. Lobblee .....	1	.	6	.					Out of bounds left.
	2	1	2	3					
	3	2	4	6					
	4	2	.	.	10	30	1	8	
Shrapnel Shell	1	2	.	.					
	2	2	3	5					
	3	2	3	5				10	
Company total .....								34	

Corp. Gardiner . . . . .	1	2	4	6		Fired 9th August, 1898.
	2	1	4	5		
	3	2	2	4		
	4	1	6	7	8 25	22
Sergt. Fyfe . . . . .	1	2	6	8		
	2	2	4	6		
	3	2	2	4		
	4	1	2	3	8 48	21
Corp. Wilson . . . . .	1	2	.	.		Out short.
	2	2	2	4		
	3	2	6	8		Hit.
	4	1	2	3	8 19	15
Shrapnel Shell {	1	1	3	4		
	2	2	3	5		
	3	1	3	4		13
Company total . . . . .						<hr/> 71



[illegible]

Sergt. Lemelin	1	1	6	7		
	2	2	4	6		
	3	1	4	5		
	4	.	6	.	9 30	18 Out left.
Corp. E. Barras	1	1	4	5		
	2	2	4	6		
	3	1	2	3		
	4	1	4	5	8 50	19
Corp. A. Bégin	1	1	2	3		
	2	1	6	7		
	3	2	2	4		
	4	2	4	6	9 06	20
Shrapnel Shell	1	2	5	7		
	2	2	5	7		
	3	2	5	7		21
Company total						<u>78</u>

**Halifax Battalion—No. 1 Detachment, No. 1 Company.**

RAN  
Sergt. Pritch  
Gunner Camp  
Sergt. Doane

Sergt. Marshall

Gunner White

Gunner Crooks

Sergt. Snow	1	2	6	8			
	2	2	6	8			
	3	1	2	3			
	4	2	6	8	8	03	27
Corp. Harmon	1	1	6	7			
	2	2	6	8			
	3	2	2	4			
	4	2	2	4	10	08	1 22
Gunner Watson	1	2	2	4			
	2	2	2	4			
	3	2	4	6			
	4	2	4	6	9	15	20
Shrapnel Shell	1	1	3	4			
	2	1	3	4			
	3	1	5	6			14
Total							83

## RECORD OF PRACTICE, ETC.—Continued.

**Halifax Battalion--No. 1 Detachment, No. 2 Company.**

RANK AND NAMES.	No. of round	SCORE.		TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.			
Sergt. Pritchard.....	1	2	.	.				
	2	2	.	.				
	3	2	.	.				
	4	2	.	.	10	40	2	-2
Gunner Campbell.....	1	2	4	6				
	2	2	.	.				
	3	2	4	6				
	4	1	.	.	10	30	1	11
Sergt. Doane .....	1	2	.	.				
	2	1	4	5				
	3	1	4	5				
	4	2	4	6	10	..		16
Shrapnel Shell {	1	2	5	7				
	2	2	5	7				
	3	2	5	7				21
Total .....								46

### No. 2 Detachment.

Sergt. Marshall	1	1	2	3		
	2	1	4	5		
	3	1	4	5		
	4	1	.	.	7	30
Gunner White	1	.	.	.		13
	2	1	.	.		
	3	2	.	.		
	4	1	2	3	9	15
Gunner Crooks	1	1	6	7	.	3
	2	.	2	.		
	3	2	6	8		
	4	2	.	.	8	25
Shrapnel Shell	1	2	3	5		
	2	2	5	7		
	3	2	.	.		12
Total						48

## RECORD OF PRACTICE, ETC.—Continued.

## Halifax Battalion—No. 1 Detachment, No. 3 Company.

RANK AND NAMES.	No. of round	SCORE.			TIME.			REMARKS.
		Dir.	Elev.	Total.	Min	Sec.	Points lost for Overtime.	
Sergt. Weatherbee.....	1	2	6	8				
	2	2	.	.				
	3	1	6	7				
	4	2	.	.	10	30	1	14
Corp. Cunningham.....	1	1	4	5				
	2	2	.	.				
	3	1	4	5				
	4	2	2	4	10	49	2	12
Gunner Morgan .....	1	1	4	5				
	2	1	2	3				
	3	2	.	.				
	4	2	6	8	10	40	2	14
Shrapnel Shell	1	2	3	5				
	2	2	.	.				
	3	2	.	.				5
Total .....								45

## No. 2 Detachment.

Co. Sgt. Maj. Case .....	1	1	4	5				
	2	2	4	6				
	3	1	4	5				
	4	1	2	3	9	45		19
Corp. Jensen.....	1	2	2	4				
	2	1	6	7				
	3	2	6	8				
	4	2	4	6	9	51		25
Gunner Sponce.....	1	2	6	8				
	2	2	6	8				
	3	2	4	6				
	4	2	2	4	10	04	1	25
Shrapnel Shell	1	2	3	5				
	2	2	3	5				
	3	2	5	7				17
Total .....								86



## RECORD OF PRACTICE, ETC.—Continued.

**Halifax Battalion—No. 1 Detachment, No. 4 Company.**

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Corp. Theakston	1	2	2	4					
	2	1	4	5					
	3	1	2	3					
	4	2	6	8	7	..		20	
Sergt. Theakston	1	2	2	4					
	2	2	4	6					
	3	1	2	3					
	4	2	4	6	6	30		19	
Gunner Macdonald	1	2	4	6					
	2	1	..	..					
	3	2	6	8					
	4	2	4	6	9	..		20	
Shrapnel Shell	1	2	5	7					
	2	2	3	5					
	3	1	3	4				16	
Total								75	

### No. 2 Detachment.

Sergt. Robinson	1	2	6	8			
	2	2	2	4			
	3	1	2	3			
	4	1	4	5	9	15	20
Sergt. Hooper	1	1	2	3			
	2	2	2	4			
	3	2					
	4	2	2	4	8	20	11
Corp. Mills	1	1	4	5			
	2	2	4	6			
	3	2	2	4			
	4	2	4	6	11	2	19
Shrapnel Shell	1	2	5	7			
	2	2	5	7			
	3	2	3	5			19
Total							69

**New Brunswick Battalion, No. 1 Company.**

**No. 2 Company.**

Bomb. Perry.....	1	2	.	.			Fired 14th August.
	2	2	.	.			
	3	2	.	.			
	4	1	.	.	8	10	..
Gunner Nicholls.....	1	2	2	4			Fired 15th August.
	2	1	.	.			
	3	2	.	.			
	4	1	.	.	8	15	4
Gunner Forbes .....	1	.	.	.			
	2	.	.	.			
	3	.	.	.			
	4	.	.	.	11	15	3 -3
Shrapnel Shell {	1	2	3	5			
	2	1	3	4			
	3	2	3	5			14
							<hr/>
Company total . . . . .							15

Gunner Law...

**New Brunswick Battalion, No. 3 Company.**

[illegible]

**No. 4 Company.**

Sergt. Brown	1	2	.	.				
	2	.	.	.				
	3	1	.	.				
Corp. McGowan	4	1	.	.	10	10	1	-1
	1	2	4	6				
	2	1	.	.				
	3	.	4	.				
	4	2	.	.	12	14	5	1
Gunner Law	1	1	2	3				
	2	2	6	8				
	3	1	6	7				
	4	2	2	4	8	..		22
Shrapnel Shell	1	2	5	7				
	2	2	5	7				
	3	2	3	5				19
Company total								41

## RECORD OF PRACTICE, ETC.—Continued.

**New Brunswick Battalion, No. 5 Company.**

[illegible]

**Yarmouth Company.**

[illegible]



RECORD OF PRACTICE, ETC.—*Continued***P. E. I. Battalion, No. 1 Company.**

RANK AND NAMES.	No. of round	SCORE.			TIME.			REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.	Points lost for Overtime.	
Gunner Quigley .....	1	2	.	.	.	.	.	Out left.
	2	1	.	.	.	.	.	
	3	1	.	.	.	.	.	
	4	2	.	.	11	36	4	
Fomb. Proud .....	1	.	.	.	.	.	.	Out left.
	2	1	.	.	.	.	.	
	3	1	.	.	.	.	.	
	4	2	.	.	10	.	.	
Gunner Scantlebury .....	1	1	.	.	.	.	.	
	2	1	.	.	.	.	.	
	3	1	.	.	.	.	.	
	4	2	2	4	10	29	1	
Shrapnel Shell	1	.	5	.	.	.	3	Out left.
	2	2	5	7	.	.	.	
	3	2	5	7	.	.	.	
							14	
Company total .....							13	

**No. 2 Company.**

Sergt. McNiven .....	1	1	.	.	.	.	.	
	2	2	4	6	.	.	.	
	3	2	4	6	.	.	.	
	4	2	.	.	8	39	12	
Gunner Campbell .....	1	1	2	3	.	.	.	
	2	2	4	6	.	.	.	
	3	1	.	.	.	.	.	
	4	1	4	5	10	46	2	
Gunner Howitt .....	1	1	.	.	.	.	.	Out left.
	2	.	4	.	.	.	.	
	3	2	4	6	.	.	.	
	4	1	2	3	10	39	2	
Shrapnel Shell	1	2	5	7	.	.	.	
	2	2	3	5	.	.	.	
	3	2	5	7	.	.	.	
							19	
Company total .....							50	

## RECORD OF PRACTICE, ETC.—Continued.

**P. E. 1. Battalion, No. 3 Company.**

[illegible]

### No. 4 Company.

[illegible]

RANE

Sergt. R. W.

Sergt. W. A.

Corp. R. C. I

Sgt. - Maj. Wood

Sergt. Burnham

## Gunner Vantas

## RECORD OF PRACTICE, ETC.—Continued.

**P. E. I. Battalion, No. 5 Company.**

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Sergt. R. W. Stewart . . . . .	1	1	6	7					
	2	2	6	8					
	3	2	.	.					
	4	1	2	3	9	52		18	
Sergt. W. A. Johnson . . . . .	1	2	4	6					
	2	1	6	7					
	3	1	4	5					
	4	2	6	8	10	40	2	24	
Corp. R. C. Dewar . . . . .	1	2	.	.					
	2	2	2	4					
	3	2	4	6					
	4	1	4	5	9	47		15	
Shrapnel Shell	1	2	.	.					
	2	1	.	.					
	3	1	.	.					
Company total . . . . .								57	

**Digby Company.**

Sgt.-Maj. Woodman	1	2	6	8			
	2	1	2	3			
	3	2	.	.			
	4	1	2	3	7	..	14
Sergt. Burnham	1	1	.	.			
	2	1	4	5			
	3	1	4	5			
	4	1	2	3	9	31	13
Gunner Vantassel	1	2	.	.			
	2	2	4	6			
	3	1	.	.			
	4	1	4	5	9	54	11
Shrapnel Shell	1	2	.	.			
	2	2	.	.			
	3	2	.	.			
Company total							38

## RECORD OF PRACTICE, ETC.—Continued

**Pictou Company.**

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Sergt. Galant .....	1	1	2	3					
	2	1	6	7					
	3		4	.					
	4	1	4	5	9			15	Out left.
Sergt. Wilmot .....	1	1	.	.					
	2	2	.	.					
	3	1	2	3					
	4	1	2	3	8			6	
Bomb. McLean .....	1	1	4	5					
	2	2	4	6					
	3	.	4	.					
	4	2	2	4	9	10		15	
* Shrapnel Shell	1	2	.	.					
	2	2	.	.					
	3	1	.	.					
Company total .....								36	

**No. 2 Company, Quebec.**

Sergt. A. Frenette	1	2	4	6		
	2	2	6	8		
	3	1	2	3		
	4	2	2	4	8 40	21
Sergt. Mignault	1	2	6	8		
	2	2	4	6		
	3	1	6	7		
	4	1	2	3	9 58	24
Sergt. Robitaille	1	2	2	4		
	2	.	4	.		
	3	2	4	6		
	4	2	4	6	. .	16
Shrapnel Shell	1	.	3	.		
	2	2	5	7		
	3	.	2	.		7
Company total						68



## RECORD OF PRACTICE, ETC.—Continued.

**Cobourg Company.**

RANK AND NAMES.	No. of round	SCORE.		TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.		
Gunner Burnham . . . . .	1	1	6	7				
	2	1	4	5				
	3	1	6	7				
	4	1	6	7	9	18		23
Sergt. Lunn . . . . .	1	1	6	7				
	2	1	4	5				
	3	2	4	6				
	4	1	4	5	9	53		23
Sgt.-Maj. Archer . . . . .	1	1	6	7				
	2	2	4	6				
	3	1	4	5				
	4	2	2	4				22
Shrapnel Shell	1	2	3	5				
	2	2	5	7				
	3	2	5	7				19
Company total . . . . .							90	

RECORD OF PRACTICE, ETC.—*Continued.*  
**Officers Firing Competition—Garrison Artillery.**

RANK AND NAMES.	No. of round	SCORE.			TIME.			Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.	Points lost for Overtime.		
Captain Marinneau.....	1	1	6	7					
No. 1, Levis.	2	1	6	7					
	3	2	6	8					
	4	1	6	7	8	30		29	
Lieut. Bergeron .....	1	1	6	7					
No. 2, Levis.	2	2	4	6					
	3	1	6	7					
	4	2	4	6	8	40		26	
Lieut. N. F. MacNachtan .....	1	2	4	6					
Cobourg.	2	1	4	5					
	3	2	6	8					
	4	2	4	6	8	44		25	
Capt. Flowers.....	1	2	2	4					
No. 3, Halifax.	2	2	4	6					
	3	2	4	6					
	4	2	6	8	6	38		24	
Lieut. Mowbray.....	1	2	2	4					
No. 4, Halifax.	2	2	4	6					
	3	2	4	6					
	4	2	6	8	10	..		24	
Capt. Reynolds .....	1	2	4	6					
Halifax.	2	2	6	8					
	3	1	2	3					
	4	2	4	6	9	46		23	
Capt. Craig.....	1	.	.	.					Out left.
Pictou.	2	2	4	6					
	3	1	6	7					
	4	2	6	8	10	..		21	
Major Vien.....	1	2	.	.					
No. 2, Levis.	2	2	6	8					
	3	1	6	7					
	4	1	4	5	9	46		20	
Lieut. Seeley .....	1	2	6	8					
Yarmouth.	2	2	4	6					
	3	2	2	4					
	4	2	4	6	12	30	5	19	
Lt.-Colonel Armstrong .....	1	2	4	6					
N. B. Batt.	2	1	2	3					
	3	2	4	6					
	4	2	2	4	10	..		19	
Lieut. Bacon .....	1	2	6	8					
Digby.	2	2	6	8					
	3	.	6	.					Out left.
	4	1	2	3	9	40		19	
Lieut. Marshall .....	1	2	2	4					
Halifax.	2	2	4	6					
	3	2	2	4					
	4	2	2	4	9	28		18	

RANK

Lieut. E. A.  
Cobourg.Major Oxley  
Halifax.Capt. Dimock  
Halifax.Capt. King  
Montreal.Capt. Hesse  
Halifax.Lieut. Peake  
Charlottetown.Lieut. Tanner  
Pictou.Capt. Parker  
Halifax.Lieut. Stewart  
Charlottetown.Capt. Steeves  
N. B. Bde.Lieut. Dover  
Charlottetown.Lieut. Gordon  
N. B. Bde.

RECORD OF PRACTICE, Etc.—*Continued*

RANK AND NAMES.	No. of round	SCORE.			TIME.		Points lost for Overtime.	Final Total.	REMARKS.
		Dir.	Elev.	Total.	Min.	Sec.			
Lieut. E. A. MacNachtan.....	1	1	.	.					
Cobourg.	2	1	2	3					
	3	2	6	8					
	4	2	4	6	7	10		17	
Major Oxley. ....	1	.	.	.					
Halifax.	2	2	4	6					
	3	1	6	7					
	4	2	2	4	8	55		17	
Capt. Dimock .....	1	1	.	.					
Halifax.	2	1	4	5					
	3	1	4	5					
	4	1	4	5	6	40		15	
Capt. King .....	1	1	.	.					
Montreal.	2	1	4	5					
	3	1	4	5					
	4	1	6	7	10	45	2	15	
Capt. Hesslein .....	1	.	4	.					
Halifax.	2	1	6	7					
	3	1	6	7					
	4	2	.	.	8	..		14	
Lieut. Peake. ....	1	2	.	.					
Charlottetown.	2	1	2	3					
	3	2	4	6					
	4	2	2	4	8	52		13	
Lieut. Tanner .....	1	2	2	4					
Pictou.	2	1	4	5					
	3	1	.	.					
	4	2	2	4	8	..		13	
Capt. Parker. ....	1	1	2	3					
Halifax.	2	1	2	3					
	3	1	.	.					
	4	2	4	6	8	10		12	
Lieut. Stewart.....	1	1	4	5					
Charlottetown.	2	1	6	7					
	3	1	.	.					
	4	1	.	.	9	50		12	
Capt. Steeves .....	1	1	4	5					
N. B. Bde.	2	.	6	.					
	3	1	4	5					
	4	2	2	4	10	31	2	12	
Lieut. Dover. ....	1	2	.	.					
Charlottetown.	2	1	4	5					
	3	.	.	.					
	4	2	4	6	9	57		11	
Lieut Gordon.....	1	1	.	.					
N. B. Bde.	2	1	6	7					
	3	.	2	.					
	4	1	6	7	11	08	3	11	

## Observing Competition.

### Field Batteries.

RANK AND NAME.	CORPS.	AVERAGE ERROR, YARDS.	PRIZE.
1 Lt.-Colonel Amyrauld .....	Shefford Battery	21 3/8	\$20 00
2 " McLean .....	Durham "	22 23/48	15 00
3 " Dibblee .....	Woodstock "	24 5/16	10 00
4 Lieut. Snyder .....	1st Brigade	24 13/16	
5 " J. McCrae .....	"	25 17/24	
6 Lt.-Colonel Van Wagner .....	Hamilton Battery	25	
7 Major Davidson .....	1st Brigade	26 11/24	
8 Lt.-Colonel Lindsay .....	Quebec Battery	28 9/16	
9 Lieut. Good .....	Woodstock "	28 23/24	
10 Capt. Doidge .....	Winnipeg "	32 22/45	
11 Lieut. Norman .....	" "	32 32/45	
12 Major Coutlée .....	" "	34 4/5	
13 Lt.-Colonel King .....	Welland "	37 1/16	
14 Lieut. Ducharme .....	Winnipeg "	37 11/15	
15 " Johnston .....	Woodstock "	38 23/48	
16 " Gilchrist .....	1st Brigade	46 5/16	
17 Lt.-Colonel Nicoll .....	"	48 1/12	
18 Lieut. Knowles .....	"	51 5/24	

### Garrison Batteries.

1 Capt. Flowers .....	Halifax Battalion	13 4/5	\$20 00
2 Lieut. Stewart .....	P. E. Island "	14 8/15	15 00
3 Capt. Oxley .....	Halifax "	17 4/5	10 00
4 " Martineau .....	No. 1 Co., Levis	18 4/15	
5 Major Vien .....	No. 2 Co., Levis	19 2/15	
6 " Boulanger .....	No. 2 Co., Quebec	19 7/12	
7 Lieut. Hudon .....	" "	20 5/12	
8 " F. E. Roy .....	No. 1 Co., Levis	24 1/3	
9 " Peake .....	P. E. Island Battalion	24 14/15	
10 " Bergeron .....	No. 2 Co., Levis	29 2/15	
11 " A. Roy .....	" "	29 1/3	
12 Capt. Moore .....	P. E. Island Battalion	31 2/3	
13 Lieut. Marshall .....	Halifax "	32 1/15	
14 Major Longworth .....	P. E. Island "	33 2/3	
15 Lieut. Crowe .....	Halifax "	34 4/5	
16 Capt. Brennan .....	P. E. Island "	38 1/3	
17 " Reynolds .....	Halifax "	39 11/15	
18 " Wynne .....	Montreal "	43 1/15	
19 " King .....	" "	62 4/5	



PRIZE.  
20 00  
15 00  
10 00

20 00  
15 00  
10 00

Table of Comparative Efficiency—Field Batteries.

BATTERY.	OFFICER COMMANDING.	Questions.										Absentees.	Total.	Officers Absent.	INSPECTING OFFICER.
		Clothing and Accoutrements.	Guns, Carriages and Equipment.	Horses.	Harness and Harnessing.	Marching Post.	Gun Drill.	Sword Drill.	Field Manoeuvres.	Discipline and Campling.	Officers.	N. C. Officers.			
	Full Marks.	24	42	24	32	15	53	16	32	36	80	128	100	576	
Hamilton	Lt.-Col. Van Wagner.	22	31	20	30	13	50	12	28	34	60	127	50.5	481.5	Lt.-Col. Irwin.
No. 2, 1st Bde*	Major Davidson.	22	28	20	30	13	53	15	28	31	75	124	53.2	481.2	do
Durham	Lt.-Col. McLean.	19	26	17	25	13	52	10	29	32	72	113	53.7	495.7	Lt.-C. Montzambert
No. 1, 1st Bde*	Lt.-Col. Nicoll.	20	28	18	28	12	52	15	28	30	74	125	53.9	490.9	do
Toronto	Major Mead.	20	31	18	28	13	54	14	24	27	72	112	50.5	438.5	Lt.-Col. Irwin.
Quebec	Lt.-Col. Lindsay.	23	28	23	25	10	56	13	26	32	60	108	59.5	448.3	do
Montreal	Capt. Hooper.	22	30	22	25	13	52	15	27	33	60	101	66.3	441.3	Lt.-Col. Irwin.
Newcastle	Lt.-Col. Call.	19	26	22	25	12	42	12	22	28	69	87	66	431.9	do
Woodstock	Major Dibble.	20	26	24	26	12	43	12	22	30	51	100	51.9	431.9	Lt.-C. Montzambert
London	Major Conliffe.	18	18	20	18	10	35	10	26	18	65	68	49.7	349.7	Lt.-Col. Cotton.
Sheffield	Lt.-Col. Peters.	20	28	22	27	10	42	12	26	30	41	81	54.2	339.2	Lt.-Col. Irwin.
Ottawa	" Steynaudt.	18	20	18	20	13	50	11	26	20	40	48	54.6	336.6	Lt.-C. Montzambert
Gananoque	" McKenzie.	20	20	20	22	10	44	8	28	20	54	58	51.9	328.9	do
Kingston	Major Drennan.	18	30	18	20	12	36	14	28	30	46	31	22.9	311.9	Lt.-Col. Cotton.
Sudley	Major McLeod.	12	24	12	15	10	44	15	20	18	56	82	2	302.7	do
Welland Canal	Lt.-Col. King.	11	16	22	18	10	36	8	20	18	28	60	55.7	289.7	Lt.-Col. Irwin.
															Lt.-Col. Cotton.

\* Lt.-Colonel Macdonald Commanding Brigade.

† Did not carry out Annual Practice

Table of Comparative Efficiency—Garrison Artillery.

BATTALION AND COMPANY.	OFFICER COMMANDING.	Clothing and Accoutrements.	Manual and Firing.	Company Drill.	Gun Drill.	Discipline and Interior Economy.	Questions.		Absentees.	Total.	Officers Absent.	INSPECTING OFFICER.
							Officers.	N. C. Officers.				
		10	20	20	80	10	48	72		290		
	Full Marks.....											
Montreal Battalion.	No. 1.....	8	16	12	58	7	25	25	1	150		Lt.-Col. Irwin. Batt'n Average, 122.8.
	" 2.....	5	14	12	47	7	31	31	6	100	1	
	" 3.....	6	15	14	32	7	6	15	4	91	1	
	" 4.....	7	16	14	30	7	14	42	5	125	1	
New Brunswick Battalion.	No. 1.....	6	14	12	15	7	10	29	5	87		Lt.-Col. Irwin. Batt'n Average, 198.4.
	" 2.....	6	13	12	45	9	8	27	5	124		
	" 3.....	8	18	18	72	8	45	40	2	179		
	" 4.....	8	14	15	55	8	43	72	2	212		
Halifax Battalion.	No. 1.....	10	18	18	63	10	43	72	3	235		Lt.-Col. Irwin. Batt'n Average, 151.
	" 2.....	10	16	10	20	7	29	35	3	123		
	" 3.....	9	15	18	63	9	41	65	36	220	1	
	" 4.....	9	14	14	59	9	40	53	24	198		
P. E. Island Battalion.	No. 1.....	9	15	16	30	9	30	56	5	201		Lt.-Col. Montizambert. Batt'n Average, 207.5.
	" 2.....	9	15	14	63	9	45	58	7	203	1	
	" 3.....	9	12	15	68	9	32	62	5	205		
	" 4.....	9	16	18	60	9	43	50	31	211		
Cobourg Company.	No. 1.....	10	20	18	75	10	48	68	31	240		Lt.-Col. Montizambert. Batt'n Average, 207.5.
	" 2.....	10	18	18	75	10	44	57	1	229		
	" 3.....	10	15	15	70	8	25	41	1	183	1	
	" 4.....	9	15	14	70	8	27	58	3	201	1	
Yarmouth Battalion.	No. 1.....	10	15	17	75	10	37	45	1	176		Capt. Fages, R.C.A. Lt.-Col. Montizambert.
	" 2.....	5	8	8	20	5	23	15	11	73		
	" 3.....	8	15	35	35	8	34	37	20	135	1	
	" 4.....	8	17	17	70	8	29	30	21	179		
Picton Battalion.	No. 1.....	8	14	5	48	10	48	65	21	185		Lt.-Col. Montizambert.
	" 2.....	8	18	18	68	10	48	65	21	235		
	" 3.....	7	13	15	70	15	40	72		233		
	" 4.....	10	15	18	68	13	27	61		210	1	

NOTE.—Not more than one special order of promotion from Inspection must have attended any

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Questions for which marks were awarded as shown in the tables :

## Field Artillery.

### OFFICERS.

*Questions (Value 10 each.)*

1. What are the duties of Drivers on arriving in camp after a march? State briefly the instructions for grooming.
2. At what distance short of, and at what height above the plane should shrapnel be burst to produce the best effect against an extended front? What is the increase due to one graduation of time fuze at 1000, 1500, 2000 and 2500 yards?
3. What are the principal duties of the Battery Commander, and the Sectional Officers, in action?
4. What are the *Rates of Fire* and when used? For how long can a Battery with 4 wagons maintain ordinary shrapnel fire?  
Explain the detail, on parade, for the following:—
5. From Line to Reverse when at Half Intervals.
6. From Line to Change front for Action.
7. From Column of Sections to wheel into Line.
8. From Quarter Column of Sections to form Line to a flank.

NOTE.—Not more than two of the above questions to be put to each officer present at inspection. No special order of precedence to be observed, and the same questions not to be asked twice. Officers absent from inspection may, if possible, be afforded an opportunity of answering the questions, provided they have attended annual drill, and their absence is satisfactorily accounted for.

### N. C. OFFICERS.

*Questions (Value eight each.)*

1. Describe how *Hooking in* is done by the Drivers.
2. What are the advantages gained by using an elongated projectile?
3. Define the meaning of Line of sight—Line of fire—Quadrant angle—Jump—Drift—Deflection.
4. State the weight of the Charges—Bursts—and Projectiles for 9-pr. R.M.L. gun.
5. Describe how common and shrapnel shell are filled and secured.
6. Describe the action of the R. L. Fuze on discharge and on impact.
7. By how many yards nearly, will 3 min. elevation alter the range at 1000, 1500, 2000, 2500 yards.
8. Explain how to obtain, and use, an auxiliary aiming point or target.
9. State the general instructions for Sentries paying compliments.
10. What are the Signals used at Field Gun Drill?
11. Detail the ammunition carried on Gun Limbers and how packed.
12. Define Column—Quarter column—Line and Mass of columns—Direct and oblique Echelon—Right or Left shoulders.
13. State Battery Intervals in line, and Distances in column.

14. State the general rules for Battery Markers.
15. Detail the equipment carried on gun limber and where packed.
16. What are the rules for giving deflection?

NOTE—Not more than two of the above questions to be put to each Sergeant or Corporal present at Inspection. No special order of precedence to be observed, and the same questions not to be asked twice. N.C. Officers absent from Inspection may, if possible, be afforded an opportunity of answering the questions, provided they have attended the annual drill, and their absence is satisfactorily accounted for.

## Garrison Artillery.

### OFFICERS.

*Questions (Value eight each).*

1. What are the general rules for the employment of common shell, as used against shipping? What Percussion fuzes are used with R. M. L. guns from 10-in. downward?
2. Explain fully the operation of obtaining the Range by trial shots.
3. Describe the different methods of parbuckling a gun. What stores are generally required?
4. Describe the operation of dismounting a 64-pr. R. M. L. gun from a garrison standing carriage by throwing it over the Front. What stores are required?
5. What projectiles are fired from Rifled Ordnance, and how are they distinguished by Paint Marks?
6. Explain the meaning of Jump—Angle of Incidence—Remaining Velocity—Energy or *vis viva*—Density—Centre of Gravity.

NOTE—Not more than two of the above questions to be put to each officer present at Inspection. No special order of precedence to be observed, and the same questions not to be asked twice. Officers absent from Inspection may, if possible, be afforded an opportunity of answering the questions, provided they have attended annual drill, and their absence is satisfactorily accounted for.

### N. C. OFFICERS.

*Questions (Value six each).*

1. Define the meaning of Windage—Angle of Elevation—Drift—Quadrant Angle—Point Blank.
2. State the general rules for laying a gun.
3. What are the usual causes of inaccurate shooting?
4. Describe briefly—Primers for shrapnel—Wedge wads—Gas checks.
5. What are the different descriptions of powder used with ordnance from 9-in. downwards?
6. Describe a luff tackle—Gun tackle—Whip upon whip. What is the working strain of each?
7. Describe how to place, and move, guns on rollers.
8. Describe the action of the R.L. Fuze on discharge and impact.

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Gun to b  
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4. Halt—  
(friction tube



9. Show how to make a single bow line—reef knot—single bend—clove hitch.
10. Describe the operation of raising a gun out of the trunnion holes.
11. State the rules for obtaining deflection.
12. Describe how time fuzes are bored and fixed.

NOTE—Not more than two of the above questions to be put to each Sergeant or Corporal present at Inspection. No special order of precedence to be observed, and the same questions not to be asked twice. N.C. Officers absent from Inspection may, if possible, be afforded an opportunity of answering the questions, provided they have attended the annual drill, and their absence is satisfactorily accounted for.

## Drill and Driving Competition.

### FOR GZOWSKI CUP.

To be competed for on parade during annual drill by the four subdivisions of the Battery. The prizes to be awarded to the Batteries performing the conditions in the shortest average time.

### CONDITIONS.

Nine-pounder gun and limber, four horses. Four detachments, each to consist of 1 N. C. Officer (mounted,) 6 Gunners, 2 Drivers. Field day order,—forage caps may be worn.

Harness bits with curb chain or straps are to be used—in very exceptional cases, and with the sanction of the umpire, a bridoon bit may also be used.

Detachments are to be in order of march. No. 1 and drivers stand to their horses.

1. Gunners and drivers prepare to mount. Mount. Half left.—March—Half right—Right wheel—Forward—Right wheel—Forward—Half right—Half left—Halt.

The gun to be taken through two gates, represented by pickets, not less than 3 feet 6 inches high, and 6 feet 10 inches apart, and back to the original ground.

2. Action—Front—With drill cartridge, load—Fire one round (friction tube to be used).

3. Cease firing—Rear limber up—Prepare to mount—Mount—Advance—March.

Gun to be taken through a gate, as described above, 30 yards distant—when 15 yards clear, then:

4. Halt—Action rear—With drill cartridge, load—Fire one round (friction tube to be used).

5. Cease firing—Front limber up—Form the order of march.

The pace throughout not to exceed a trot.

The side gates will be 30 yards from the starting point and from each other.

No. 1's horse may be held by No. 7 when the gun is in action. No. 1 will lead through the gates.

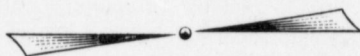
Drill cartridges to be taken separately from the limber box by No. 6. Ammunition not to be carried.

For striking any of the pickets, 5 seconds to be added to the total time.

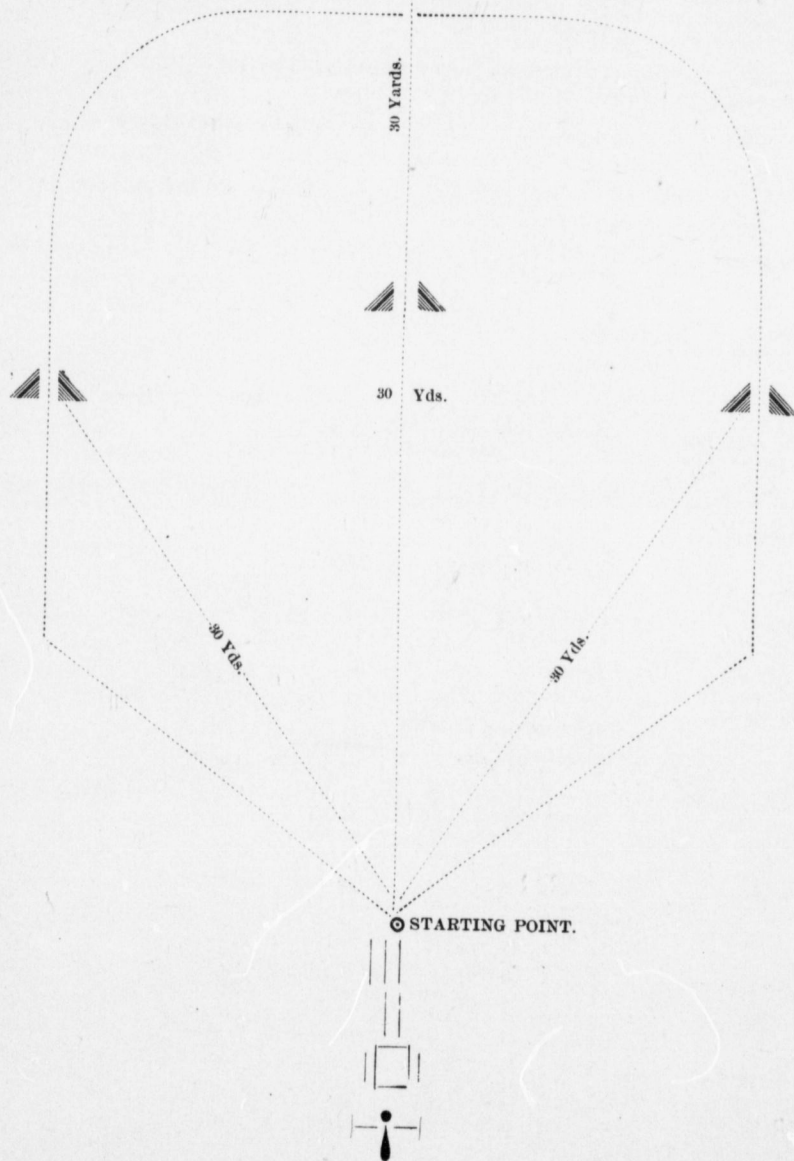
For any faults or mistakes in drill as judged by Umpire, not more than 5 seconds to be added for each.

Umpire's decision to be final. No appeal.

(Sgd.) D. T. IRWIN, LT.-COLONEL,  
*Inspector of Artillery.*



⊙ FINAL POSITION.



## RESULT OF THE COMPETITION.

BATTERY.	No. of Sub-division.	TIME.		Added for Errors.	CORRECTED TIME.		AVERAGE.		REMARKS.
		Min.	Sec.		Min.	Sec.	Min.	Sec.	
Durham .....	1	1	56 3/5	10	2	06 3/5			
Port Hope.	2	2	07 3/5	10	2	17 3/5			
	3	2	03 3/5	15	2	18 3/5			
	4	2	03	10	2	13	2	13 19/20	\$35.00
Quebec .....	1	2	08 2/5	5	2	13 2/5			
	2	1	59 3/5	20	2	19 3/5			
	3	2	03 2/5	10	2	13 2/5			
	4	2	12	10	2	22	2	17.1	25.00
Woodstock .....	1	2	11.4	17	2	28.4			
	2	2	15	14	2	29			
	3	2	07.4	12	2	19.4			
	4	2	00.2	5	2	05.2	2	20.4	15.00
Newcastle .....	1	2	26	12	2	38			
	2	2	11.6	8	2	29.6			
	3	1	55	12	2	07			
	4	2	08	13	2	21	2	23.9	10.00
No. 2, 1st Bde .....	1	2	11 3/5	17	2	28 3/5			
Guelph.	2	2	06 3/5	10	2	16 3/5			
	3	1	58 2/5	14	2	12 2/5			
	4	2	18	23	2	41	2	24.6	
Hamilton .....	1	2	14 4/5	11	2	25.8			
	2	2	14	12	2	26			
	3	2	16 2/5	14	2	30.4			
	4	2	10	16	2	26	2	27	
Ottawa .....	1	2	01	20	2	21			
	2	2	33	25	2	58			
	3	2	21	10	2	31			
	4	2	05	15	2	20	2	32	
Toronto .....	1	2	14	17	2	31			
	2	2	23	21	2	44			
	3	2	09 2/5	5	2	14.4			
	4	2	44 2/5	20	3	04.4	2	33.4	
No. 1, 1st Bde .....	1	2	18 3/5	13	2	31 3/5			
Guelph.	2	2	35 3/5	19	2	54 3/5			
	3	2	32 2/5	17	2	49 2/5			
	4	1	55	20	2	25	2	37.6	
Winnipeg .....	1	3	17	15	3	32			
	2	3	04	10	3	14			
	3	2	23	15	2	38			
	4	2	22	10	2	32	2	59	
Gananoque .....	1	3	06 2/5	30	3	36 2/5			
	2	2	54	15	3	09			
	3	2	32 2/5	20	2	52 2/5			
	4	2	44	20	3	04	3	10 9/20	
Kingston .....	1	2	29	20	2	49			
	2	2	22	20	2	42			
	3	3	56	30	4	26			
	4	2	36	40	3	16	3	18 1/4	

NAME

No. 1 Bat

No. 2

London B

Welland C

Hamilton

Toronto

Durham

Gananoque

Ottawa

Montreal

Shefford

Quebec

Newcastle

Woodstock

Winnipeg



# NAMES OF DRIVERS WHO RECEIVED BADGES OF CROSS-WHIPS.

No. 1 Battery, 1st Brigade	.....	{	Driver William Winer.
		}	" James Boles.
No. 2	"	.....	{
		}	" Chas. Austin.
			Arch. Newstead.
London Battery	.....	{	" Wm. Fox.
		}	" T. Fox.
Welland Canal Battery	.....	{	" Dolan.
		}	" Coleman.
Hamilton	"	.....	{
		}	" Strangher.
			Patterson.
Toronto	"	.....	{
		}	" C. O'Donnell.
			J. O'Donnell.
Durham	"	.....	{
		}	" Taylor.
			Johnston.
Gananoque	"	.....	{
		}	Corporal H. Waldie.
			Driver Hall.
Ottawa	"	.....	{
		}	" White.
			Gray.
Montreal	"	.....	{
		}	" F. W. Taylor.
			A. Malcolm.
Shefford	"	.....	{
		}	" E. Chartier.
			G. Osgood.
Quebec	"	.....	{
		}	" A. Thibault.
			F. Gingras.
Newcastle	"	.....	{
		}	" Thomas Mullins.
			Joseph McCarthy.
Woodstock	"	.....	{
		}	" Van Wart.
			Charles Gray.
Winnipeg	"	.....	{
		}	" T. D. Massey.
			A. J. McQuarrie.

## Shifting Ordnance Competition.

### GARRISON ARTILLERY.

#### "A" Shift.

CONDITIONS:—A 64-pr. R. M. L. gun on a standing carriage to be dismantled by throwing it over the front on to the ground clear of the platform.

The gun is to be then taken by means of plank and rollers round the platform and re-mounted by long skids and rollers.

Strength of detachment, nineteen numbers.

Stores allowed:—

Drag ropes, heavy .....	2	Rollers { 14"x5" .....	1
Handspikes { 6 feet .....	8	{ 24"x5" .....	2
{ 7 " .....	2	{ ground, 6"x3" .....	3
Lashings, 1½ inch, 3 fathoms ..	2	Skids, fir, 14"x8"x8" .....	2
Luff tackles .....	2	" oak, 3 x6 x9 .....	2
{ oak, 4"x12"x3" .....	2	" 3 x6 x6 .....	2
Planks { fir { 10"x17"x3" .....	2	" 4 x4 x4 .....	3
{ 6"x12"x3" .....	2	Selvagees .....	2
Scotches of Sorts .....	12		

Fifteen minutes allowed for the above operation. Detachments taking a longer time will be disqualified.

For dismantling .....	50 points.
" operation on rollers .....	75 "
" mounting .....	100 "

Points may be deducted by umpire for mistakes at drill, careless or awkward handling of stores or other irregularities.

#### RESULT OF THE COMPETITION.

DETACHMENT.	COMMANDER.	POINTS.			TIME.		REMARKS.
		Dis-mounting	Rollers.	Mount'g.	Min.	Sec.	
No. 1, P. E. Island Batt'n ..	Lieut. Dover .....	50	75	100	14	25	
" 1, No. 4 Co., Halifax Bn.	Sgt.-Maj. Gibbs .....	50	70	95	9	21 1/5	
" 1, " 3 ..	Sergt. Macdonald ..	45	70	95	11	18	
" 1, Montreal Batt'n ..	Sgt.-Maj. Benton ..				23	10	Disqualified.
" 1, No. 1 Co., Halifax Bn.	Lieut. Marshall .....				18		do.
" 2, " 3 ..	Corp. Cunningham ..				30		do.

#### "B" Shift.

CONDITIONS:—Gun to be dismantled on to the ground clear of the left side of the platform by throwing it over the side, taken round to the other side of the platform and re-mounted by parbuckling by means of two skids. Carriage to be left in centre of platform. \*

Stores available,—Same as for "A" Shift, with addition of two parbuckle ropes and two long skids.

#### RESULT.

1.	No. 1 Detachment, No. 1 Co., Halifax Battalion ..	Lieut Marshall ..	Time 12' 48"
2.	" 1 " " P. E. Island " ..	" Dover .....	" 12' 55"
3.	" 2 " " No. 3 Co., Halifax " ..	Major Maxwell ..	" 13' 47 2/5"
4.	" 1 " " 4 " " ..	Sgt.-Maj. Gibbs ..	" 15' 36 3/5"
5.	" 1 " " 3 " " ..	Sergt. Macdonald. "	" 16' 09 4/5"

## Drill Competition—Garrison Artillery.

*From Capt. F. M. Lowe, R. A.,  
To the Officer Commanding Royal Artillery,  
British North America.*

Halifax, Nova Scotia,  
17th August, 1893.

SIR.—I have the honor to report, for the information of the Dominion Inspector of Artillery, that I have examined the detachments from various Companies of Dominion Artillery, in 9 in. R. M. L. gun drill and forward a list of the same herewith. I beg to append the following remarks:

1. The greater part of the detachments had the disadvantage of being instructed and examined in very hot weather. The detachments examined on the 14th inst. suffered under the greater disadvantage of heavy rain.

2. The hours of instruction were very limited, and for various reasons the actual hours on the programme attached were rarely, if ever, worked.

3. The zeal and interest displayed by all the detachments left nothing to be desired. If no great part of the keenness evinced is to be ascribed to a sense of novelty and the spirit of competition, the men could be made in a few days very valuable gunners.

4. Probably it is the result of different conditions of life, that the men of the Canadian Artillery are more handy and adaptable than men of the same class at home.

5. I regret exceedingly to be obliged to disqualify the Digby detachment on account of one of its members being under the influence of drink.

6. Allotting marks has been difficult owing to the fact that all are so nearly equal. With a very short time for instruction, that Instructor who can most quickly impart his knowledge is not unlikely to make the better detachment. Each detachment was examined in precisely the same manner. Minor details of, and time taken in drill were disregarded. Marks were taken off for mistakes, that in actual firing might cause

1. Loss of life or accident to limb.
2. Damage to the gun and stores.
3. Inaccurate shooting.
4. Undue loss of time.

The greater portion of discredits came under 3 and 4 of above.

7. The New Brunswick and P. E. Island Battalions brought to Halifax five detachments under the necessary strength for 9 inch R.M.L. gun drill. The N. B. Battalion therefore made up four full detachments of their men, but the P. E. I. Battalion made up the number in No. 3 with three men who had formed part of No. 5 on the previous day. No. 1 was made up similarly. It is therefore strongly recommended, with due regard to fairness, that No. 3 P. E. I. should be debarred from receiving a prize.

8. I would recommend that on future occasions the gun Captains should be N. C. Officers. It will be seen that at this meeting they varied from Major to Gunner. The gun layer might be any N.C. Officer or man with an aptitude for laying.

If the Officers wish to compete it appears desirable that they should do so as such, or in detachments entirely composed of officers.

9. It is further recommended that each company should be provided with both volumes of Garrison Artillery Drill 1892, and also with the corrections and alterations that are made therein from time to time. If 64-pr. drill as therein laid down is known, that of any other garrison muzzle loading gun can soon be acquired.

10. Some of the men were a great deal too light for Garrison Artillery work.

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) F. M. LOWE,

Capt. R. A.

List of competing detachments, at Fort Ogilvie, Halifax, August 9th to 16th 1893, in order of merit.

ORDER.	NO. OF CO.	BATTALION, &C.	GUN CAPTAIN.	INSTRUCTOR.	DECIMAL.
1	2	Quebec G.A.	Major Boulanger.	Corp. Fleetwood, R.A.	.90
2	4	Montreal Batt'n.	Capt. King.	" "	.85
3	4	N. B. Batt'n.	Sergt. Brown.	Sergt. Lyons.	.84
4	2	Montreal Batt'n.	Sgt.-Maj. Rogers.	Sergt. Bowler.	.82
5	1	N. B. Batt'n.	Capt. Crawford	Sgt. Inst. Bailey.	.80
6		Cobourg Co'y.	Lieut. MacNachtan.	Corp. Fleetwood.	.75
7	3	P. E. I. Batt'n.	Sergt. Moore.	" "	.70
8	3	N. B. Batt'n.	Sergt. Lingley.	Sergt. Bowler.	.67
9	6	Montreal Batt'n.	Lieut. Wynne.	Sgt. Inst. Bailey.	.65
	3	" "	Lieut. Winter.	" "	
10	5	Pictou Co'y.	Capt. Craig.	Sergt. Bowler.	.60
	5	N. B. Batt'n.	Corp. Fulton.	Corp. Fleetwood.	
	4	P. E. I. Batt'n.	Capt. Brenan.	" "	

ORDER. NO.

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The C  
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of merit.

1. Corporal C  
2. Gunner Ca  
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1. Gunner Po  
2. Sergeant S  
3. Bombardie  
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ORDER.	NO. OF CO.	BATTALION, &C.	GUN CAPTAIN.	INSTRUCTOR.	DECIMAL.
11	2	P. E. I. Batt'n.	Gunner Campbell.	Sergt. Lyons.	.55
	1	Montreal Batt'n.	Lieut. Taylor.	" "	
	5	" "	Lieut. Featherstone.	" "	
	2	Levis G. A.	Lieut. Bergeron.	" "	
		Yarmouth Co'y.	Lieut. Seeley.	" "	
12		Digby Co'y.	Lieut. Daley.	Sergt. Bowler.	.50
	1	P. E. I. Batt'n.	Sergt. Matheson.	" "	
	5	" "	Sergt. Stewart.	Sgt. Inst. Bailey.	
	1	Levis G. A.	Lieut. Roy.	Sergt. Bowler.	

(Signed) F. M. LOWE, Capt. R. A.,  
*Instructor in Gunnery,*  
*British North America*

The Cobourg Co'y and No. 3 Co'y P. E. I. Battalion were disqualified in addition to the Digby Co'y as noted above. With these omissions, prizes were issued to the seven Companies standing at head of list in order of merit.

### Short Course Efficiency.

#### KINGSTON.

1.	Corporal Crowe, W. T.	Durham Field Battery	.80
2.	Gunner Caswell, R.	" "	.69
3.	" Hooper, J.	Gananoque "	.58
4.	" Barnard, A. J.	Toronto "	.57

#### QUEBEC.

1.	Gunner Porter, Jerome	Woodstock Field Battery	.80
2.	Sergeant Scott, Hazen	" "	.80
3.	Bombardier Toms, Osborne L.	" "	.77
4.	" Gallant, Frank	Pictou Company	.71

## Report of Council.

1. The reports of the Executive Committee and of the Secretary-Treasurer with accounts duly audited are submitted herewith.

From the former it is satisfactory to learn that the meetings for competitive practice of both branches were largely attended and very successful, and that the instructional practice has been productive of all the results expected from it. Its importance cannot be too strongly insisted upon.

It is a matter of congratulation that the report of the Secretary shows that the affairs of the Association continue to be in a fairly satisfactory condition.

2. The usefulness of the duck suits issued to the Artillery has now been so thoroughly demonstrated, that the Council hope that the Department will allow a full issue, at least to each Field Battery. If it be impossible to give full suits, overalls at least should be issued. If the Department could also issue serge tunics to batteries going to camp it would be a great comfort to the men and would save the more expensive cloth tunics which would be worn only at inspections, church parades, reviews, etc., and consequently would have to be renewed only at longer intervals.

3. The Council once more urgently recommend that an increased number of days drill be allowed annually to the Artillery. As has been already stated, the necessity of more time for learning the numerous duties and acquiring the technical knowledge required of an artilleryman is obvious to everyone who will seriously consider the matter.

Although the reports of the Inspectors of Artillery show that the Force has more than maintained its efficiency, still the Council are of opinion that it is difficult to effect any further improvement unless more time is allowed so as to admit of preliminary drill.

4. An Extraordinary Meeting of Council was held at Ottawa on 5th December, 1893, to consider a letter from the Inspector of Artillery respecting the Cobourg detachment having with it a person not a *bona fide* member of the battery. (See minutes of proceedings, also the recommendation of the Executive Committee as to the necessity for more definite rules as to the eligibility of competitors.)

5. It seems evident that the range at the Island of Orleans has advantages which that at Halifax does not possess, and the Council recommend that practice be carried on there in future instead of at Halifax, especially as there is now a 9 in. gun in the citadel at Quebec at which detachments can be exercised.

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Some buildings might be put up on the grounds which, without being expensive, would greatly contribute to the comfort of the competitors. If it is decided to continue the competitive practice, some outlay should also be made at Port Hope, which is reported by the Executive Committee to be the best range as yet found available for the practice of the Ontario Field Batteries, although it is not considered suitable for a permanent range.

6. The Council desire to express the obligations of the Association to the General Officer Commanding the Imperial Forces, and the Officer Commanding the Royal Artillery in Halifax, for their kindness in allowing the detachments to obtain instruction in the method of drilling with and working the 9 in. gun, also to the Park Commissioners of Halifax, and John Helm, Esq., Port Hope, for allowing the use of their grounds.

7. The Association has received the greatest assistance from the Inspector and Assistant Inspectors of Artillery, who by the considerable amount of work they have done in connection with the carrying out of the practice, have greatly contributed to its success.

8. The Officers of the Regiment of Royal Canadian Artillery, who were selected for the purpose, ably performed the duties imposed on them in carrying out the details of the practice.

9. The following suggestions have been made by Members of Council and are referred for the consideration of the Annual Meeting :

By Lt.-Colonel Macdonald, Comdg. 1st Bde., Field Artillery—

“ That the present development of Field Artillery work requires the provision, if the marksmen of the Batteries are to be concentrated, of a range extensive enough to enable them to do the work of practical gunnery, such, so far as may be, as that which is done at Oakhampton by the Royal Artillery ;

“ That, if such a range cannot be provided, at least the officers and marksmen should be concentrated for a number of days together to take a short course in theoretical and practical gunnery ;

“ That, if neither of these schemes can be carried out, it would be better to devote the time and money now spent in concentrating the marksmen, in a more extensive general instruction of the whole Battery in gunnery and range-finding practice.”

By Major Coutlée, Comdg. Winnipeg Field Battery—

“ That soft felt caps such as worn by N. W. M. Police be issued for fatigues and drills—this is a necessity for the Winnipeg Field Battery,

" as men are constantly laid off by the Surgeon suffering from swelling of the skin of the forehead and affections of the eyes directly resulting from sun-burn and heat."

" That a couple of spare gun horses be allowed per battery. A horse should also be allowed for the Farrier, as he is necessary on the field and when route marching."

" Provision ought to be made to allow of a squad from Winnipeg Field Battery competing with the Ontario batteries "

CRAWFORD LINDSAY, Major,  
*President of Council.*



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### Extraordinary Meeting of Council.

The following notice was forwarded to all concerned, in accordance with instructions received from the President of Council:—

An extraordinary meeting of Council is hereby summoned for Friday, 15th September, prox., at 2 o'clock p.m., in the office of the Inspector of Artillery, Ottawa, to deal with the following documents respecting the composition of the detachment Cobourg Company at the Garrison Artillery Competition held at Halifax, N. S., between 8th and 16th Aug., inst.

Written votes may be sent to the Secretary, Militia Dept., Ottawa, by such members as may be unable to attend the meeting.

By order.

J. B. DONALDSON, Captain,  
*Secretary.*

Ottawa, 30th August, 1893.

#### Dominion Artillery Competition at Halifax.

GENERAL REGULATIONS—9th June, 1892—PARA. 5. "The N. C. officers and gunners of each detachment must have attended at least one annual drill and be *bona fide* members of the Brigade or Battery they represent, and be accompanied by at least one officer thereof."

The detachment from the Cobourg Garrison Company consisted of

Lieut. N. F. MACNACHTAN.	A. W. HAWKEY.
2nd Lieut. E. A. MACNACHTAN.	C. D. BURNHAM, gun layer.
Sergt. R. LUNN, gun layer.	J. VAUGHAN.
Gr. G. ARCHER	W. E. HEATLIE.

W. HAMILTON, Capt. 40th Batt.

The latter is not a member of the Battery, but wore the uniform and acted as a gunner during the Firing and Drill Competitions—and received the allowance of 75 cts. per diem. It is referred for consideration as to whether this detachment, having infringed the rules governing such competition, should be disqualified from participation in the Prize List.

*From Captain D. McNaughton, commanding Cobourg Co. G.A.*

*To Lt.-Col. Irwin, Inspector of Artillery.*

SIR,—I have the honor to acknowledge the receipt of your letter of 22nd inst., and in reply beg to state that I did send Captain Hamilton, 40th Batt., with the detachment of Cobourg Garrison Artillery in the capacity of a gunner to the competition at Halifax. I found great difficulty in making a detachment on account of my men being engaged in work,

mainly in the car works. They were unable to leave for the time necessary to go to Halifax and return. After some trouble I succeeded in getting a detachment, but on the day before leaving for Halifax, one of the men found it impossible to go. The disappointment was very great, as I was very anxious that the Battery should be represented at the competition. Not being able, on short notice, to get another man of the Battery to fill the vacancy, I requested Captain Hamilton (who was at Cobourg taking his holidays) to go, as he had been for some years a member of the Battery, and holds a certificate from the School of Gunnery. I had not noticed the conditions of the rule referred to by you. I do not offer this as an excuse, as I should have made myself acquainted with the rules.

I requested Hamilton to go, as I stated above, not with the slightest idea of taking any advantage of the Dominion Artillery Association, or of any individual member, but simply that a detachment might be sent to represent Cobourg.

I exceedingly regret that I made so grave an error, which at the time of action I did not consider in the same light as I do now on more deliberate consideration, and would ask that you would place the full responsibility upon me, who alone am to blame in the matter.

I have the honor to be, sir,

Your obedient servant,

D. McNAUGHTON, Capt.

*Cobourg Garrison Artillery.*

A quorum not being present on the above date, the meeting was adjourned indefinitely.

On 5th December, 1893, a quorum being present, the votes from members of Council, received by mail, were examined and the question involved in the above correspondence considered.

It was resolved that "The Council regret that owing to the circumstances of the case, there is no course open to them but to disqualify the detachment from participating in the prize list, this not to affect the issue of badges to the gun layers entitled thereto."

J. B. DONALDSON,

*Secretary.*

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## Report of the Executive Committee.

1893.

### FIELD ARTILLERY PRACTICE.

1. Range finding was carried out on the same general system as during the previous year, with the additional advantage gained by the employment of a second target at a different range. The London and Sydney Batteries joined in this practice for the first time. The former at Port Stanley after a march from London, and the latter at Camp grounds Sydney, where however they were unable to find a range suitable for competitive practice.

2. Competitive gun practice was carried out by the Winnipeg Battery at local headquarters, by the Quebec and New Brunswick Batteries at the Island of Orleans and by the Ontario Batteries at Port Hope. The latter appears to be the most suitable and centrally situated range as yet found to be available in the Province, and with a moderate expenditure for the use of additional camping grounds, construction of markers' butts, &c., is capable of considerable improvement. It is not, however, by any means suitable as a permanent Field Artillery range, being too limited in its extent to enable the guns to take up different positions, or to afford any opportunity of varying the nature and position of the targets. It appears to be worthy of consideration as to whether the amount now expended on this competitive practice, could not be more profitably spent on a more extended system of Range finding and Fire discipline at Camp or local headquarters.

### RULES FOR PRACTICE.

3. The revised Rules seem to have worked well in practice, and the increase of the Prizes awarded for aggregate scores and corresponding decrease of individual prizes is a step in the right direction, which it is suggested may be still further extended. The individual capabilities of the officer in charge of the detachment, both as an instructor and observer are of much greater importance than appears to be generally recognized, and, as on actual service, the gun layers should be trained to receive their instructions from him, and to carry them out to the best of their ability, without reference to the effect of each round, which only can be observed by them under exceptionally favorable conditions, not likely to occur on service.

### DRILL AND DRIVING COMPETITION.

4. This was entered for by 12 Batteries as compared with 13 in the previous year. The scores made show a very marked improvement, the best average time being nearly 15 seconds better, and no less than six Batteries having beaten the record for 1892.

This competition is an excellent test of smartness in drill and driving, and should be more generally encouraged. It is proposed to slightly alter the conditions by loading with dummy shell and cartridge, and by giving No. 1 two adjustments of the tangent scale.

### GARRISON ARTILLERY PRACTICE.

5. This competitive gun practice was held this year at Halifax, and was participated in by detachments from all the Companies authorized for drill except those of the B. C. Battalion. The actual gun practice was limited to firing the usual number of rounds from 64-pr. R.M.L. guns, under the revised Rules for Practice, and with the new system of drill.

The practice was generally very satisfactory, with the exception of a few cases in which the gun layers were not sufficiently trained, or suffered from defective vision. It was also noticed that in some cases the officer in charge of the detachment was not competent to give instruction as to elevation, deflection or length of fuze.

The practice was at times delayed for long periods by fog and passing vessels and the difficulty of observing the effect of fire, owing to the low site of the Battery, detracts very considerably from the instructional value of this Range.

6. Arrangements were made, with the sanction and cordial assistance of the General Commanding the Imperial Forces, and the Colonel Commanding the Royal Artillery, by which each detachment received about 4 hours instruction in the method of drilling and working with the 9-in R. M.L. guns mounted at Cambridge. The detachments were all examined by Captain Lowe, gunnery instructor, Royal Artillery, and prizes were awarded according to their relative proficiency. The Companies of the Halifax Battalion, being provided with a 9 in. gun in their Drill Shed, did not take part in this instruction and competition, but were subsequently examined in a similar drill competition at their annual inspection.

7. The arrangements for camping and messing were entirely satisfactory, and the thanks of the Association are due to the Park Commissioners who very kindly gave every assistance in their power, as regards the use of the grounds, and the occupation of a Band cupola thereon.

A comparative statement of the expenses involved by the adoption of Halifax as the site for this Annual competition will be found in the Treasurer's report.

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### SHIFTING ORDNANCE COMPETITION.

8. The A, or previously named shift was competed for by four detachments from the Halifax Batt., one from the Montreal Batt. and one from the P. E. I. Batt., and was won by the latter after a close competition. In this operation only a time limit was fixed, the relative merits of the competitors being decided by points for careful and accurate drill.

In the B, or "go as you please" competition time was the only factor in determining the result. It was entered for by four detachments from the Halifax Batt. and one from the P. E. I. Batt., and was won by No. 1 Co'y. of the former. It is suggested for consideration that this shifting ordnance competition should be considerably modified, if not indeed replaced by some other form of efficiency competition.

### EFFICIENCY COMPETITION.

9. The result of these competitions has been published in general orders, and continues to shew the close competition which is the direct result of the desire to win, or to shew a good record in the competition for, these honorable trophies.

The Field Batteries have all succeeded in obtaining more than 50% of the possible credits, but there are still eight garrison companies, not including the B. C. Battalion, not yet fully organized, which have failed to reach this minimum of efficiency.

### PRIZE LIST.

10. The Turnbull Challenge Shield, previously held by the Battery making the highest aggregate score with F. M. L. and R. B. L. guns at practice, was, owing to the withdrawal of R. B. L. guns from practice, awarded to the Company making the highest aggregate score for efficiency and gun practice combined.

### COMPETITORS' ENTRIES.

11. There seems to be a necessity for more definite and stringent rules as to the eligibility of competitors forming part of detachments for Gun Practice, Shifting Ordnance, &c., and it is suggested that the nominal roll of entries should be accompanied by a certificate from the officer commanding, that each man is a *bona fide* member of, and has attended the last annual training of his Battery, Company or Battalion.

(Signed)

D. T. IRWIN, Lt.-Colonel, <i>Chairman.</i>	} Members.
C. E. MONTIZAMBERT, Lt. Col. Asst. I of A.	
W. H. COTTON, Lt. Col. Asst. I. of A.	
A. H. MACDONALD, Lt. Col., C. A.	
FRED. M. COLE, Lt. Col., Com. M.G.A.	

## Secretary's Report.

The Secretary presents herewith the Seventeenth Annual Report of the Association, containing details of the several competitions entered into during the year.

The affiliations were :—

Royal Military College.

2 Royal Schools of Artillery.

15 Field Batteries.

31 Garrison Companies. Each company of the Halifax Battalion on account of increased strength, being considered as equivalent to two units, affiliated as such. See page 8.

Exclusive of the British Columbia Battalion, there were only two Field Batteries, Kingston and Sydney, and two Garrison Companies—No. 1, Quebec and the Mahone Bay—in the Dominion which did not affiliate.

The life membership is two less than last year. Numerically the list of annual subscribers shows an increase of two.

There is only one special donation to record for the year, viz. *one hundred* dollars from the Hamilton Powder Company, through the President Dr. T. C. Brainerd. The Cups usually presented by His Excellency the Governor General for *General Efficiency* were presented this year by the Association. Those donated by the Earl of Derby for 1892 have not yet been received by the winning batteries.

In accordance with resolution of Council, an engrossed and illuminated address was forwarded to the Earl of Derby (late His Excellency the Governor General) expressing the regret of the Association at his departure and thanking him for the many favors received at his hands during his residence in Canada.

His Excellency the Earl of Aberdeen, Governor General, has signified his acceptance of the office of Patron of the Association.

The receipts during the year amounted to \$3478.30, from the following sources :—

Government Grant, Special.....	\$2000 00
Government Grant, Annual.....	900 00
Hamilton Powder Company.....	100 00
Members' Subscriptions.....	80 00
Affiliations.....	366 00
Refunds from previous year, &c.....	32 30
Total .....	\$3478 30

The disbursements for the year will be found in statement of accounts.

The expenditure on account of the Garrison Artillery Competition at Halifax, amounted to \$1438.72, being a decrease of \$253.57 as compared with 1892. This shows an excess of \$228.13 only over the last year at Quebec. The transport expenses for detachments to Halifax are about \$1000 less than to Quebec.

The following letter was received from Captain F. M. Lowe, R.A., in reply to a letter forwarded to that office by the direction of the Executive Committee.

Halifax N.S., 25th September, 1893.

Sir,

I have the honor to acknowledge the receipt of your letter of the 15th instant, and also to ask you to be so good as to convey my sincere thanks to the Executive Committee of the Dominion Artillery Association for the kind expressions it contains with regard to myself, and for the handsome souvenir of this year's meeting at Halifax that your Committee has been so very good as to send me.

The knowledge that my slight efforts have been appreciated, adds very considerably to the great pleasure caused me by my connection with the Royal Canadian Artillery and your Association on this occasion.

I have &c.

(Signed) F. M. LOWE, Captain R.A.

J. B. DONALDSON,  
*Secretary.*

