

ANNUAL REPORT

OF THE

DOMINION ARTILLERY ASSOCIATION

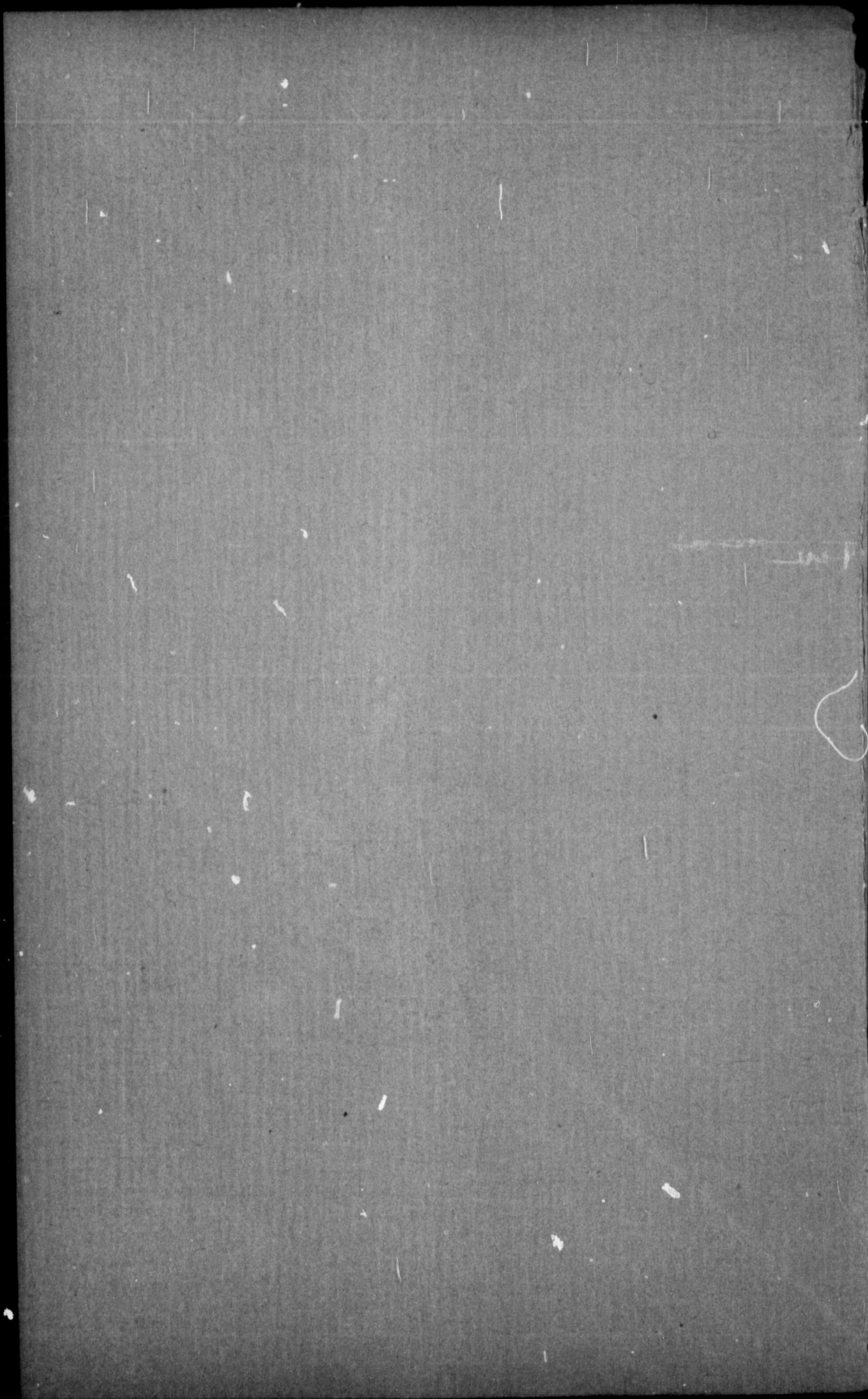
FOR THE YEAR 1888.



Ottawa :

PRINTED BY A. S. WOODBURN, ELGIN STREET.
1889

A
355-
D71



A355-
D71

ANNUAL REPORT

OF THE

DOMINION ARTILLERY ASSOCIATION

FOR THE YEAR 1888.



Ottawa :

PRINTED BY A. S. WOODBURN, ELGIN STREET.
1889

D

Hi

His
His
His
His
His
His
Hon
MAJ
COL

LT.-C

LT.-C

CAPT

Dominion Artillery Association, 1888.

PATRON.

HIS EXCELLENCY LORD STANLEY OF PRESTON, G. C. B., &c., Governor
General of Canada.

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.
HON. SIR A. P. CARON, K. C. M. G., Minister of Militia.
MAJOR-GENERAL, SIR F. MIDDLETON, C. B., K. C. M. G., Com. Militia.
COLONEL WALKER POWELL, Adjutant General.

PRESIDENT.

LT.-COLONEL A. H. MACDONALD, Comdg. 1st Bde. Field Artillery.

VICE-PRESIDENTS.

LT.-COLONEL A. A. STEVENSON, Comdg. Montreal Field Battery.
" J. PETERS, Comdg. London Field Battery.
" J. ARMSTRONG, Comdg. N. B. Bde. Gar. Artillery.
CAPTAIN W. BARCLAY McMURRICH, Comdg. Toronto Gar. Battery.

COUNCIL FOR 1888.

PRESIDENT.

LT.-COLONEL W. MCKENZIE, Comdg. Gananoque Field Battery.

VICE-PRESIDENTS.

MAJOR J. STEWART, Comdg. Ottawa Field Battery.

" CRAWFORD LINDSAY, Comdg. Quebec Field Battery.

LT.-COLONEL MOORE, Comdg. P. E. Island Bde., Gar. Artillery.

" CURREN, Comdg. Halifax Bde., Gar. Artillery.

MEMBERS (*Ex-officio*).

COLONEL THE HON. C. E. PANET, Dep. Min. of Militia, Ottawa.

LIEUT.-COLONEL MACPHERSON, Director of Stores, Ottawa.

" MAUNSELL, D. A. G., M. D. No. 8, Fredericton.

" IRWIN, Inspector of Artillery, Ottawa.

" MONTIZAMBERT, Asst. Insp. of Art., Quebec.

" COTTON, Asst. Insp. of Art., Kingston.

" OTTER, D. A. G., Toronto.

" GRAY, Brigade Major, M. D. No. 2, Toronto.

" MACDONALD, Comdg. 1st Brigade, Guelph.

" ARMSTRONG, Comdg. N. B. Bde., Gar. Art., St. John.

" IRVING, Brigade Major, Charlottetown.

" CALL, Comdg. Field Battery, Newcastle.

" A. A. STEVENSON, Comdg. Field Battery, Montreal.

" TURNBULL, Comdg. Bde. Gar. Art., Montreal.

MAJOR RIGG, R. A., Royal Military College, Kingston.

" McLEAN, Comdg. Durham Field Battery, Port Hope.

" LAURIE, Bde. Gar. Art., Montreal.

" F. M. COLE, Bde. Gar. Art., Montreal.

MAJOR NIC

" HO

" FRA

CAPTAIN W

" BO

" JO

" ST

" VA

" LO

" DA

" HO

" LA

" J.

" ST

LIEUT. J. O

" C. S

MAJOR-GEN

COLONEL G

LIEUT.-COL

CAPTAIN E

ALEXANDER

CAPTAIN M

Lieut.-Colon

"

"

Lieut.-Colon

Captain J. F

Major McL

Lieut.-Colon

F. E. KNIG

Captain J.

MAJOR NICOLL, No. 1 Battery, 1st Brigade, Guelph.

" HOOD, No. 2 Battery, 1st Brigade, Guelph.

" FRANK KING, M. D., Comdg. Welland Canal Fd. By., Port Colborne.

CAPTAIN W. B. McMURRICH, Comdg. Gar. Battery, Toronto.

" BOULANGER, Comdg. No. 2 Battery, Quebec.

" JOLLY, Comdg. Gar. Battery, Yarmouth.

" STEWART DAVIDSON, R. E., R. M. College, Kingston.

" VAN STRAUBENZEE, R. E., R. M. College, Kingston.

" LONGWORTH, Comdg. No. 2 By., P. E. I. Bde., Charlottetown,

" DAVISON, Comdg. No. 1 By., P. E. I. Bde. Gar. Art., "

" HOWARD, No. 2 By., Bde. Gar. Artillery, Montreal.

" LANE, No. 3 By., Bde. Gar. Artillery, Montreal.

" J. A. FINLAYSON, No. 4 By., Bde. Gar. Artillery, Montreal.

" STEVENSON, No. 5 By., Bde. Gar. Artillery, Montreal.

LIEUT. J. OGILVIE, No. 1 By., Bde. Gar. Artillery, Montreal.

" C. S. CAMPBELL, No. 6 By., " "

MEMBERS (*Elected.*)

MAJOR-GENERAL WIMBURN LAURIE, M. P.

COLONEL GZOWSKI, A. D. C., to the Queen.

LIEUT.-COLONEL THE HON. G. A. KIRKPATRICK, M. P.

CAPTAIN E. PALLISER.

ALEXANDER BUNTIN, Esq., Montreal.

CAPTAIN McCRAE, late 1st Brigade, Field Artillery.

EXECUTIVE COMMITTEE.

Ex-Officio.

Lieut.-Colonel IRWIN, Inspector of Artillery.

" MONTIZAMBERT, Assistant Inspector of Artillery.

" COTTON, " " "

Elected.

Lieut.-Colonel MACDONALD, Comdg. 1st Brigade, Field Artillery.

Captain J. B. DONALDSON, Militia Department.

Major McLEAN, Comdg. Durham Field Battery, from Ont. Art. Association.

AUDITORS.

Lieut.-Colonel J. MACPHERSON, Director of Stores.

F. E. KNIGHT, Esq., Militia Department.

SECRETARY AND TREASURER.

Captain J. B. DONALDSON, Militia Department, Ottawa.

List of Life Members.

His Excellency Lord Stanley of Preston, G.C.B., &c., Governor General.
 His Excellency the Marquis of Lansdowne, G.C.M.G., etc., Viceroy of India.
 The Most Honorable the Marquis of Dufferin, K.P., K.C.B., etc.
 The Right Honorable the Marquis of Lorne, K.T., K.C.M.G., etc.
 General Luard.
 Lieut.-General Sir Fred. Middleton, C.B., K.C.M.G.
 Major-General T. B. Strange, late R. A.
 Colonel Gzowski, A. D. C. to the Queen.
 Lieut.-Colonel Irwin, Inspector of Artillery.
 " Montizambert, Assistant Inspector of Artillery.
 " Oswald, late Montreal Garrison Artillery.
 " Armstrong, N. B. Bde. " "
 " Gray, Brigade Major, Toronto.
 " A. H. Macdonald, Comdg. 1st Brigade, Field Artillery.
 " Cameron, Comdg. 4th Durham Artillery Volunteers, England.
 Major F. King, M.D., Welland Canal Field Battery.
 " Crawford Lindsay, Comdg. Quebec Field Battery.
 Captain J. B. Donaldson, Militia Department.
 " Boulanger, No. 2 Battery, G. A., Quebec.
 " G. F. Smith, N. B. Bde., Garrison Artillery.
 Lt.-Col. A. Gilmour, Ottawa.
 Captain E. Palliser.
 Gilbert Scott, Esq.
 Robert Benny, Esq.
 G. A. Drummond, Esq.
 Hon. H. G. Joly.
 R. Hamilton, Esq.
 L. J. Forget, Esq.
 Duncan McIntyre, Esq.
 John Rankin, Esq.
 John Hope, Esq.
 C. Cassils, Esq.
 Hugh Paton, Esq.
 Chas. Raymond, Esq., Guelph.
 T. C. Brainerd, Esq.
 Lieut.-Colonel Price Lewes.
 Alexander Buntin, Esq., Montreal.
 Sir George Stephen, Bart.
 Sir D. A. Smith, M. P.
 R. Moat, Esq.
 Peter Redpath, Esq.
 Hon. Thomas McGreevy, M.P.
 J. Burnet, Esq.
 R. B. Angus, Esq.
 Lieut.-Colonel Hickson.
 E. B. Hosler, Esq.
 H. McKenzie, Esq.
 R. A. Lindsay, Esq.
 John Hogg, Esq., Guelph.
 W. H. Rowley, Esq., Ottawa.

General Lau
 Lieut. L. H
 Captain Blis
 T. A. D. Bl
 Lieut.-Colon
 "

Captain M.
 Lieut.-Colon
 Surgeon J. V
 Captain Joll
 Lieut.-Colon
 Quartermast
 Lieut.-Col. M
 Surgeon Jen
 Captain Mar
 " Lon
 " Dav
 " R. V

General Laurie, M. P.

Lieut.-Colonel Otter, D. A. G.

Lieut. L. H. Irving, Secretary Ont. Artillery Association.

Captain Bliss, Ottawa Field Battery.

T. A. D. Bliss, Esq., late Ottawa Field Battery.

Lieut.-Colonel Cotton, Assistant Inspector of Artillery.

" Rowley, late Yarmouth Garrison Artillery.

Captain M. W. Botsford.

Lieut.-Colonel Call, Comdg. Newcastle Field Battery.

Surgeon J. W. Daniel, N. B. Bde. Garrison Artillery.

Captain Jelly, Comdg. Yarmouth Garrison Battery.

Lieut.-Colonel Stevenson, Comdg. Montreal Field Battery.

Quartermaster-Sergeant Maxwell, Montreal Bde., G. A.

Lieut.-Col. Moore, Comdg. P. E. I. Brigade. Garrison Artillery.

Surgeon Jenkins, " " "

Captain Marsan, " " "

" Longworth, " " "

" Davison, " " "

" R. W. Rutherford, "B" Battery, R. C. A.

al.

List of Affiliated Batteries, Etc.

Royal Military College, Kingston.

" A " Battery Regiment Canadian Artillery and R. S. A.

" B " " " " " "

No. 1 Battery, 1st Brigade, Field Artillery, Guelph, Ont.

No. 2 " " " " "

London Field Battery, London, Ont.

Hamilton, " Hamilton, "

Welland Canal " Port Colborne, Ont.

Toronto " Toronto, Ont.

Durham " Port Hope, Ont.

Kingston " Kingston, Ont.

Gananoque " Gananoque, Ont.

Ottawa " Ottawa.

Montreal " Montreal, Que.

Quebec " Quebec, "

Newcastle " Newcastle, N. B.

Woodstock " Woodstock, N. B.

Winnipeg " Winnipeg, Man.

Montreal Brigade Garrison Artillery (6 Batteries), Montreal.

New Brunswick Bde. " (5 "), St. John, N. B.

Halifax Bde. " (7 "), Halifax, N. S.

P. E. Island Bde. " (3 "), Charlottetown, P. E. I.

Cobourg Garrison Battery, Cobourg Ont.

No. 2 Battery, Quebec, Que.

No. 1 " Levis, Que.

No. 2 " "

Yarmouth Garrison Battery, Yarmouth, N. S.

Digby " Digby, N. S.

1. That
ASSOCIATION,
dissemination

2. That
which will give
a meeting of
a prize of not
meeting, may

3. That
College Cade
Force, subscri
Battery, per
entitled to a
dollars thus s
amongst them
and addresses
to the Annual

4. The a
ex officio mem
ing. The
Minister of
Adjutant Gen
Deputy Adju
manding and
Commanding
The Comma
Military Secr
Association, s
officio member
officio, a mem

5. The C
Provinces sha
respectively, o
other names n

Rules of the Association.

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 regular 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 North-West 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 others 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 Adjutant Generals 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 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.

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 Council next after the Annual General Meeting. The Council shall have power to fill up vacancies occurring subsequently. That there 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 first 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 intrusted 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. (See Rule 21.)

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 kept for that purpose by the Secretary, and open to the inspection of any member of 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 entitled 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 s
become due o
Treasurer sha
behalf of the

13. Two
accounts prev

14. The
President of
payments to b

15. The
they may deen
Committee.

16. An a
the Council b
proceedings of

17. All c
all returus th
Secretary by t

18. That
subscription to

19. That
unable to atten
his own comm
Secretary such
ing of Council
in the name of

20. When
of the Domin
tion on payme
Association.

21. The F
be entitled to b
matters connec

22. All Pr
be established
Executive Com
prizes awarded

23. The S
information fro
for the distrib

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 Meeting.

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 shall 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, such Association shall be entitled to affiliate with this Association on payment annually of \$2.50 for each battery comprising such Provincial Association.

21. The Provincial Association shall, in addition to its Council membership, be entitled to be represented on the Executive Committee of this Association, in matters connected with the Province, by one of the existing members of Council.

22. All Provincial competitions, other than those which already are, or may be established by this Association, shall be subject to the approval of the Executive Committee of this Association, but shall be arranged for, adjudged and prizes awarded by the Council of the Provincial Association.

23. The Secretary of this Association shall be required to furnish such information from the records of the Dominion Association as may be required for the distribution of additional Provincial prizes.

Report of the Council.

The Council herewith presents the reports of the Executive Committee and of the Secretary Treasurer, with the accounts duly audited for the year 1888.

It is a matter of congratulation that while the number of batteries which have joined the Association during the past year remains the same as for 1887, the number of competitors has increased by about 20%, and the prize list 15% exclusive of the prizes presented by His Excellency the Governor General for efficiency.

While there has been much improvement in former years, the Council are of opinion, that it would be to the advantage of the force generally if it could be arranged to have a central competition, say at Quebec, or some more convenient point, for not less than two officers and eight or ten men from each Field Battery, when they could all fire over the same range and under the same conditions, being satisfied that such a competition would be the means of much improvement in drill, discipline and practice.

The Council would suggest that a deputation be appointed to wait on the Major General Commanding and request him to recommend the issue of a suit of canvas clothing to the gunners and drivers of Field Batteries for wear while cleaning guns, harness, grooming, etc.

The Council would strongly recommend that the Department of Militia and Defence be asked to increase the time allowed Non-Com. Officers and Gunners of Field Batteries by say (4) four days for preliminary drill before going into camp, to be devoted to gun drill, foot drill, aiming drill, position and duties, lectures on ammunition, etc., thus allowing the whole of the time in camp to be employed in field movements, taking up positions, obtaining some tactical knowledge, performance of camp duties and details and other necessary work, much of which is now left undone for want of time.

The Council would again press upon the Artillery in the different Provinces the advisability of their forming Provincial Associations.

By united action and help alone can further success of the Association be assured, it is hoped therefore that the Commanding Officer of each Battery will urge his subalterns to become members of the Association.

The Association is still under many obligations to the Inspector and the assistant Inspectors of artillery and the Officers of "A" and "B" Batteries R. C. A., for their continued kindness in carrying out their arduous duties as umpires, Range Officers, etc.,; and also to Major Lindsay, Quebec Field Battery, for his services as Camp Quarter Master and Transport Officer at the competition at Island of Orleans, Quebec.

W. MCKENZIE, LT.-COL.

President of Council.

REPORT

A radical alterations be rectangle of e by experiment fall within a r rectangle of 8 target), has be be given, &c. which has bee

a. Comm

26 f

b. Targe

c. Value

d. Points

e. Blind

shel

Scott's S

supply more t
ciency depen
use, it was de
Batteries, Can
they have bee

The ann
three ranges
three Batteri
annual drill, a
more nearly u
assembly of t

A simila
Batteries duri
Montreal Batt
send detachm
artillery range

REPORT OF THE EXECUTIVE COMMITTEE, 1888.

FIELD BATTERY PRACTICE.

A radical change has been effected this year in the system of scoring, the alterations being made with the view of adapting the scoring limits to the known rectangle of error of the 9-pr. gun. Thus for example, it having been determined by experiment that, if properly laid, at a range of 1,500 yards, all the shots will fall within a rectangle of about 200 feet by 25 feet, and 50 per cent. within a rectangle of 80 feet by 10 feet, the limit of 80 feet by 8 feet (the width of the target), has been fixed as that for which full marks for elevation and direction will be given, &c. The main differences between this system of scoring and that which has been in use formerly are as follows, viz : Range above 1,000 yards.

- a. Common shell effective rectangle, increased from 26 ft. x 320 ft. to 26 ft. x 360 ft.
- b. Target 8 ft. x 6 ft. instead of 6 ft. x 6 ft.
- c. Value of direct hit reduced from 6 to 2 points.
- d. Points for Shrapnel fuze eliminated—also points for ricochet.
- e. Blind Shrapnel to count half instead of whole marks as for common shell.

Scott's Sights.—Owing to the inability of the Department of Militia to supply more than two additional sights, and it having been shewn that their efficiency depends in a great measure upon previous instruction and practice in their use, it was decided not to employ them this year for other than "A" and "B" Batteries, Canadian Artillery Regiment and the Royal Military College, to whom they have been issued.

The annual gun practice of the Ontario Field Batteries was carried out at three ranges—Niagara, Gananoque and Toronto—and with the exception of the three Batteries which sent detachments to the latter, was performed during annual drill, and, in so far as regards the arrangements at the firing point, much more nearly under service conditions, than could possibly be attained by the assembly of the competitors only.

A similar plan was adopted in the case of the Newcastle and Woodstock Batteries during their annual drill at local headquarters, but the Quebec and Montreal Batteries, in common with those at Stratford Camp, were obliged to send detachments only to subsequent practice, in consequence of their being no artillery range in the vicinity of their camps.

As a consequence of the above arrangements for practice during camps, many important lessons with regard to "Fire Discipline," have been, it is hoped, brought forcibly to the notice of those concerned. Amongst the defects noticed in a greater or less degree may be mentioned the following, viz :—

- a. Want of promptitude and celerity in bringing the Batteries into position and action.
- b. Confusion and delay in the supply of ammunition to each gun from its own limber.
- c. Want of careful observation as to the effects of fire, and consequent necessary corrections, on the part of commanding and divisional officers, both during instructional and competitive practice.

Although not necessarily consequent upon this system of annual practice the Committee have strongly in view the necessity of more thorough preliminary practice and instruction in laying guns, and, for this purpose, recommend that instructional targets be provided by the Association, and issued to each Battery for use during voluntary drills, and in accordance with instructions to be subsequently promulgated.

The practical difficulties attendant upon the necessarily partial adoption of this system of carrying out practice during annual drill, and the impossibility of so obtaining an accurate comparison of the marksmanship of each Battery, owing to the differences in range, etc., etc., together with the very limited time which can under existing regulations be actually devoted to instruction, render the continuous adoption of this system practically undesirable, and the Committee suggest for consideration the advisability of dividing the Annual Practice into two stages, viz., instructional practice for Battery competition only, for those Batteries which have the advantage of a suitable range in the vicinity of their camp of instruction; and a general competition at one central range (Quebec), for not more than two officers and eight selected non-commissioned officers or gunners from each Battery.

The former practice would include coming into action under service conditions; actual range finding by common shell fire by each sub-division and instructional practice with Shrapnel, and would not necessarily require the use of banrols; the competitive practice would be as at present conducted, each detachment, however, having to prepare its own ammunition.

This scheme presents some difficulties in consequence of there being certain Batteries which cannot perform their practice at the places to which they are allotted for drill, and should it, therefore, not be deemed advisable to carry out the practice in this way it will be better to concentrate all the marksmen of the batteries at a central point for the performance of practice.

The competition for the Gzowski cup was well and closely contested, the distances between the several pickets were increased by ten yards, and as so arranged, the competition appears to be quite satisfactory.

The prac
Halifax Bde.
ranges have b
for Shrapnel s
ricochet elimin

The mee
Quebec, was
and 32 officers
ducted with g
necessity for
corrections to
forcibly illustr

The num
nature of gun,
40-pr. R.B. L.

Owing to
tin cups, and
limit was not e
mistakes at dri

As very c
the targets at c
the targets sho
should be mad
replacement of

The arran
duct of the m
officers and m
parties, &c., an
by Major Linds
Officer.

The Comm
Store Departme
tion and camp
elsewhere.

This comp
and was very
Montreal, Princ
was so arranged

GARRISON ARTILLERY PRACTICE.

The practice at local head quarters was confined to three Batteries of the Halifax Bde. and two of the New Brunswick Bde. The rules for marking at sea ranges have been considerably modified, an increased effective limit being given for Shrapnel shell. The value of a direct hit reduced and values for fuze and ricochet eliminated.

The meeting for gun practice and shifting ordnance at the Island of Orleans, Quebec, was attended by representative detachments from twenty-two Batteries and 32 officers—a military camp was formed at the Island and the practice conducted with great regularity—the shooting generally was very good, and the necessity for most careful preliminary instruction in laying, and subsequent corrections to counteract the variable forces acting on the projectile, was so forcibly illustrated by actual results, as to render the practice most instructive.

The number of actual competitors was reduced from seven to four with each nature of gun, firing each five rounds from the 64-pr. R.M.L., and four from the 40-pr. R.B.L.

Owing to frequent delays in the 40-pr. practice, caused by jamming of the tin cups, and other causes incidental to the construction of this gun, the time limit was not enforced in this case, but with both guns marks were forfeited for mistakes at drill, happily not very frequent.

As very considerable delay was again caused by the impossibility of replacing the targets at certain stages of tide, the Committee are of opinion that in future the targets should consist of large barrels securely moored, and that arrangements should be made in each marker's butt, by which the necessity for the actual replacement of the barrels may be almost entirely obviated.

The arrangements made by the Executive Committee for the general conduct of the meeting, were ably seconded by the officers, non-commissioned officers and men detailed by the Commandant, R. S. A., Quebec, as working parties, &c., and special recognition is due to the very valuable services rendered by Major Lindsay, Quebec Field Battery, as Camp Quartermaster and Transport Officer.

The Committee also desire to express their acknowledgments to the Militia Store Department for the promptitude and regularity with which all the ammunition and camp stores, &c., were delivered at the practice ground at Quebec and elsewhere.

SHIFTING ORDNANCE COMPETITION.

This competition was limited to detachments present at the Quebec meeting and was very well and closely contested by detachments from the Halifax, Montreal, Prince Edward Island and New Brunswick Brigades. The A shift was so arranged as to involve only the simplest movements, combined with the

accurate performance of an operation detailed in the Manual of Artillery Exercises. The "Go-as-you-please," or B shift competition was exactly the reverse operation to the A shift, and in both, the victory was gained rather by the skilful adaptation of means to the end in view than by any exercise of superior physical strength.

GENERAL EFFICENCY COMPETITION.

The Committee having decided that the farewell gift of \$75.00 to the Association made by Lord Lansdowne, should with \$25.00 added money, be devoted to the purchase of two silver cups, to be held annually by the Field and Garrison Batteries obtaining the second places in this competition, have subsequently decided that these trophies should be supplemented by a cash prize of \$25.00 to these Batteries, with which amount it is hoped some permanent memento of the event may be obtained.

With reference to the varying conditions under which the gun practice was necessarily held, the following protest with the reply sent thereto is submitted for information of Council.

THE GUN SHEDS, Hamilton, Oct., 31st, 1888.

SIR,—I have the honor to advise you that I am instructed by Major Van Wagner, commanding the Hamilton Field Battery, to enter a protest to the effect that the scores of the Batteries which fired at Toronto be not allowed for on the aggregate marks in the competition for the General Efficiency prize. This protest is made on the ground that the regulations laid down by the Inspector of Artillery were not complied with, and especially on the ground that the Batteries which fired at Toronto made use of range telephones which were not allowed at the firing on other ranges.

I have the honor to be Sir,

Your Obedient Servant,

(Signed)

P. M. BANKIER, LIEUT.,

Hamilton Field Battery.

To the Secretary Dominion Art. Assoc'n., Ottawa.

OTTAWA, 10th November, 1888.

From Secretary Dominion Artillery Association,

To Lieut. Bankier, Hamilton Field Battery.

SIR,—Your communication dated 31st ult., forwarded under instructions from Major Van Wagner, commanding Hamilton Field Battery, protesting against the scores made by the Batteries which fired at Toronto being allowed to count in the competition for General Efficiency, was received by me on the 3rd inst. and immediately forwarded to the members of the Executive Committee for their consideration.

I have now the honor to inform you that the consensus of opinion, briefly stated, is as follows :—

It is not practicing at received by Higher aggregate firing without former firing score at Toronto favorable conditions, made 4 given the latter

The regulations it was possible that did not a carried out by ly similar conditions Umpire it was

The Com

I may a Brigade, two o

It is not clear that any advantage, whatever, was obtained by the Batteries practicing at Toronto through the aid of telephonic communication, over that received by those at Niagara and other places through the use of flags. Higher aggregate scores than those made at Toronto were made by Batteries firing without the aid of telephones, notably the Gananoque and Winnipeg, the former firing at a range of 2,200 yards. On the other hand the London Battery score at Toronto shows that low scores may be made under presumably the most favorable conditions. Moreover the Welland Canal Field Battery, firing man for man alternately with the Hamilton Field Battery, under exactly the same conditions, made 41 points more in the aggregate score. This difference would have given the latter eight points more for General Efficiency.

The regulations for practice were complied with by these batteries as far as it was possible to do so. The locality at which they were encamped for instruction did not afford the facilities necessary for actual compliance, nor was practice carried out by any set of Batteries, practicing at different localities, under exactly similar conditions, but so far, in each and every case, as in the opinion of the Umpire it was possible to do so.

The Committee do not, therefore, concur with the protest.

I may add that Lieut.-Col. Macdonald, as officer commanding the 1st Brigade, two of the Batteries concerned, declined to give an opinion.

I have the honor to be, Sir,

Your Obedient Servant,

J. B. DONALDSON, CAPTAIN.

D. T. IRWIN, LIEUT.-COL.,

President, Ex. Committee.

SECRETARY'S REPORT.

SIR,—I have the honor, in accordance with Rule 16, to forward the Annual Report of the Secretary-Treasurer for the year 1888—the thirteenth of the Association.

The affiliations for the year were about equal to those in 1887—the numbers for each year being as follows :—

	1887.	1888.
Royal Military College.....	1	1
Royal Schools of Artillery.....	—	2
Field Batteries.....	16	15
Garrison Batteries.....	27	27
Totals	44	45

The total number of competitors was 546, representing a force of over 2,500, exclusive of officers.

The total receipts for the year, from all sources, amounted to \$3,431.50, and the expenditure to \$2,840.89, of which \$1,047 was paid out in cash prizes, \$400 in purchase of cups, badges, and other prizes (exclusive of those presented by His Excellency the Governor-General for Efficiency), and \$613.50 as subsistence allowance to detachments. The accounts in detail, duly audited, showing a credit balance of \$916.59, will be found at end of Report.

There has been a considerable falling off in the list of Annual Subscribers. I have not dropped any of the names from the list of members of Council, as I believe the non-payment has been caused through misapprehension, the Ontario members supposing that their payments to the Provincial covered membership fees with the Dominion Association. Instructions on this point are requested for future guidance.

His Excellency Lord Stanley of Preston, Governor-General, graciously consented to accept the office of Patron of the Association and generously notified his intention of continuing the prizes donated by his predecessors, the Marquis of Lorne and the Marquis of Lansdowne, during their tenure of office. An address, expressing the thanks and appreciation of this Association for the constant support and deep interest so frequently evinced in its welfare, was presented to His Excellency the Marquis of Lansdowne at Quebec, previous to his departure for England.

Their Honors, the Lieut.-Governors of Nova Scotia and Manitoba, in reply to letters addressed to them in accordance with Rule 5, signified their acceptance of the office of Vice-Patrons of the Association.

The Challenge Cup presented in 1884 by the Merchants of Quebec, has become the property of No. 3 Battery, Halifax Bde., that battery having won it twice in three successive competitions.

The results of the several competitions will be found under their respective headings.

On the whole, it may be safely stated that the general results of the year compare favorably with those of preceding ones.

The whole respectfully submitted,

J. B. DONALDSON, CAPTAIN,
Secy.-Treas.

CUPS

Competed for in the Association Competitions

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

Presented by His Excellency the Governor-General to Battery making highest number of points for General Efficiency during the year (see table)—Won by No. 1 Battery, 1st Brigade, Guelph. Major Nicoll, comdg. Battery, Lt.-Col Macdonald, Comdg. Brigade.

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 Field Battery.

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

LANSDOWNE CUP.

Held for the year by Battery second on list for general efficiency.

Won by Hamilton Field Battery, Major Van Wagner, Comdg.

3 General Efficiency, Garrison Batteries.—1st Prize.

Presented by His Excellency, same condition as 1 (See table)—Won by No. 2 Battery, P. E. Island Brigade, G. A., Captain Longworth, commanding. Lt.-Col. Moore, commanding Brigade.

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 " " "

Held for
Won by
Lt.-Col. Arm

Firing C
property of a
Colonel Osw
Battery, Maj

Firing C
as No. 5. P
Artillery. W
ing.

Shifting
ning it 2 year
Officer Engin
Battery, Lt.-C

4. General Efficiency, Garrison Batteries.—2nd Prize.

LANSLOWNE CUP.

Held for the year by Battery second on list for general efficiency.

Won by No. 1 Battery, New Brunswick Brigade, Captain Seeley, Comdg. Lt.-Col. Armstrong, Comdg. Brigade.

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 Lieut.-Colonel Oswald, late Montreal Brigade, G. A.—Won by Winnipeg Field Battery, Major Coutlee, commanding.

HELD PREVIOUSLY BY :—

1884	Welland Canal Field Battery.		
1885	Montreal	"	"
1886	Ottawa	"	"
1887	Durham	"	"

6. Montizambert Challenge Cup.

Firing Competition Field Artillery, Province of Ontario. Same conditions as No. 5. Presented by Lieut.-Col. C. E. Montizambert, Assistant Inspector of Artillery. Won by the Gananoque Field Battery, Lt.-Col McKenzie commanding.

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	"	

7. Gzowski Challenge Cup.

Shifting Ordnance, Field Batteries—To be the property of any battery winning it 2 years in succession. See report. Presented by Colonel Gzowski, Staff Officer Engineer Force, A. D. C. to the Queen. Won by the Gananoque Field Battery, Lt.-Col. McKenzie, commanding.

HELD PREVIOUSLY BY :—

1884.	Quebec Field Battery.		
1885.	Kingston	"	"
1886.	Durham	"	"
1887.	Ottawa	"	"

8. Montreal Challenge Cup.

For competition with 40-pr. Guns—To be the property of any Battery winning it twice in three successive competitions. Won by No. 3 Battery, Halifax Brigade, Captain Maxwell, commanding. Lt.-Col. Curren, commanding Brigade.

HELD PREVIOUSLY BY :—

- 1884. English Volunteer Detachment at Island of Orleans.
- 1886. Canadian Detachment at Shoeburyness.
- 1887. No. 4 Battery, New Brunswick Brigade.

9. Quebec Merchants' Challenge Cup.

For competition with 64-pr. R. M. L. Guns. To be the property of any Battery winning it twice in three successive competitions. Won by No. 3 Battery, Halifax Brigade.

HELD PREVIOUSLY BY :—

- 1884. No. 3 Battery, Halifax Brigade.
- 1887. No. 5 " Montreal "

This cup is now the property of the No. 3 Battery, Halifax Brigade.

Names of
Association
Shoeburyness

Commandant
Adjutant—C
No. 1—Serge
Gent. Cadet
"

Bombdr. Bee
Corpl. Strang
Gunner Saun
Sergeant Hos

" Mar
" McL
" Pric

Corporal Mas
" Tur

Bombdr, Mos
Sergeant Swan

" Bout
" Hibb
" Lem

Corporal Low
Bombdr. Max
" Coffi

Prize won
etc., (then His
tion, "go as y

Commandant—
Adjutant—Ma
No. 1—Staff-S
Gent. Cadet (S
"

Corporal Hunt
Gunner Chartr
S. Sergt. Kerle
Bombdr. Gaut

Shoeburyness Teams.

Names of Officers, N. C. Officers and Gunners composing teams sent by the Association to compete in the National Artillery Association competitions at Shoeburyness, with the prizes won by each team.

1881 Team.

Commandant—Lieut.-Col. Oswald, commanding Bde. Gar. Artillery, Montreal.
 Adjutant—Captain J. Peters, "A" Battery, R. S. A.
 No. 1—Sergeant O. Genest, "A" Battery, R. S. A.
 Gent. Cadet (Sergt. Maj.) Hodgins, R.M. College.
 " " Kirkpatrick, "
 Bombdr. Beers, "A" Battery, R. S. A.
 Corpl. Strange, "B" " "
 Gunner Saunders, "B" " "
 Sergeant Hastings, Montreal Field Battery.
 " Marcheterre, Quebec "
 " McIntosh, No. 1 Battery, 1st Brigade, Field Artillery.
 " Price, Woodstock Field Battery.
 Corporal Mason, Toronto "
 " Turner, Gananoque "
 Bombdr. Moser, Welland Canal "
 Sergeant Swanson, Toronto Garrison Artillery.
 " Boutillier, Halifax Brigade, Garrison Artillery.
 " Hibbins, Montreal " "
 " Lemoine, No. 2. Battery, Garrison Artillery, Quebec.
 Corporal Lowrie, Halifax Brigade Garrison Artillery.
 Bombdr. Maxwell, " " "
 " Coffin, Gaspé Garrison Battery.
 Prize won—Cup presented by the Right Hon. the Marquis of Lorne, K.T., etc., (then His Excellency the Governor General), for Shifting Ordnance competition, "go as you please."

1883 Team.

Commandant—Lieut.-Col. Macdonald, commanding 1st Bde. Field Art., Guelph,
 Adjutant—Major Short, "B" Battery, R. S. A.
 No. 1—Staff-Sergeant Lyndon, "B" By., R. S. A.
 Gent. Cadet (Sergt. Maj.) Nanton, R. M. College.
 " " Von Iffland "
 Corporal Hunter, "A" Battery, R. S. A.
 Gunner Chartrè, " "
 S. Sergt. Kerley, "B" "
 Bombdr. Gauthier, " "

Bgde. Sergt. Major Young, 1st Brigade, Field Artillery.

B. S. Major. Maltby, Newcastle Field Battery.

Sergeant Dunnet, Ottawa Field Battery.

" Wilmot, Kingston "

" Huot, Quebec "

" Methot, No. 2 Battery, Garrison Artillery, Quebec.

" Dawson, Montreal Brigade, Garrison Artillery.

" Sergeant Scott, " "

" Ward, " "

" Gibson, " "

" Russell, Cobourg Battery "

Corporal Offer, P. E. I. Brigade, Garrison Artillery.

" Drysdale, Montreal Brigade, Garrison Artillery.

Prize won—Cup presented by the Right Hon. the Marquis of Lorne, K.T., (then His Excellency the Governor-General) for Shifting Ordnance competition, "go as you please."

1886 Team.

Commandant—Lieut.-Col. Armstrong, comdg. N. B. Brigade, Gar. Artillery.

Adjutant—Captain Drury, "A" Battery, R. S. A.

No. 1—S. Sergt. Gaffney, "B" Battery, in place of S. Sergt. Cornish, "A" Bat.,

R. S. A., accidentally injured at Quebec.

Gent. Cadet (Sergt. Maj.) Yorston, R. M. Gollege.

" " Newcombe, "

Bombdr. Brigeford, "A" Battery, R. C. A.

Gunner D'Amour, " "

" Michaud, "B" Battery, "

Sergeant-Major Doyle, Richmond Field Battery.

" Good, Woodstock "

" Stewart, Montreal "

" Case, London "

Corporal Jeffrey, Welland Canal "

" Henderson, Durham "

Sergeant-Major Plummer, British Columbia Brigade, Garrison Artillery.

" Seeley, Yarmouth Garrison Artillery.

Sergeant Pratt, New Brunswick Brigade, Garrison Artillery.

" Eisner, Halifax Brigade, Garrison Artillery.

Corporal Ward, Toronto Garrison Artillery.

" Simard, No. 2 Battery, Garrison Artillery, Quebec.

" Bell, Montreal Brigade, Garrison Artillery.

" McLeod, P. E. Island Brigade, Garrison Artillery.

Prizes won—Londonderry Challenge Cup. Montreal Merchants' Challenge Cup. His Excellency the Governor-General's (Marquis of Lansdowne) prize for Shifting Ordnance. Sir Richard Wallace's prize (9 silver cups.) Certificates of merit in 10" M. L. gun competition.

Roster (representative Artillery Association)

The following agreed to at a

"That the team be determined the position of the battery have to appear on the battery which turn on the listative shall be organized to be frequently rejected selected at the

1. Drury
2. Wilmot
3. Richmond
4. Woodstock
5. London
6. Quebec
7. Montreal
8. New Brunswick
9. Toronto

The competitors are to following persons not less than 1 and then that places on the their names place affiliation. T

1. Halifax
2. Montreal
3. New Brunswick
4. P. E. Island
5. Toronto
6. No. 2
7. British Columbia

Team Roster.

Roster (chosen by lot) of Batteries in the order in which they are to nominate representatives to teams proceeding to Shoeburyness to take part in the National Artillery Association competitions.

The following Rule, with reference to the selection of Representatives, was agreed to at a meeting of Council held 18th February, 1886.

Field Batteries.

"That the right of field batteries to send representatives on the Shoeburyness team be determined as follows: That a roster of the field batteries be made now, the position of each battery thereon to be determined by lot, and that such field battery have the privilege of sending a representative, in the order in which they appear on the roster. The roster as so formed to be perpetual. Each field battery which fails to send a representative in its turn, to wait until it comes to its turn on the list again before being eligible. Provided always, that no representative shall be taken from a battery which is not affiliated. Batteries hereafter organized to be placed at the bottom of the list. A battery sending a man subsequently rejected shall lose its rights for that year only, and a substitute may be selected at the discretion of the committee of selection.

- | | |
|-----------------------|------------------------|
| 1. Durham. | 10. Winnipeg. |
| 2. Welland Canal. | 11. Gananoque. |
| 3. Richmond. | 12. No. 1 By, 1st Bde. |
| 4. Woodstock. | 13. Kingston. |
| 5. London. | 14. Newcastle. |
| 6. Quebec. | 15. Hamilton. |
| 7. Montreal. | 16. Shefford. |
| 8. No. 2 By, 1st Bde. | 17. Ottawa |
| 9. Toronto. | |

Garrison Batteries.

The committee appointed to select the garrison batteries from which competitors are to be chosen for the Shoeburyness detachment, have arranged the following permanent roster, on the principle that affiliated brigades consisting of not less than five batteries shall be selected first, to send one representative each, and then that these brigades and other independent batteries should have their places on the roster fixed by ballot. Batteries affiliating subsequently will have their names placed on the roster in succession, according to the date of their affiliation. The roster is as follows:—

- | | | |
|------------------------------|------------------------------|----------------------------|
| 1. Halifax Brigade. | } Five
batteries
each. | 8. Yarmouth Battery. |
| 2. Montreal Brigade. | | 9. Montreal Brigade. |
| 3. New Brunswick Bde. | | 10. Digby Battery. |
| 4. P. E. Island Brigade, | | 11. New Brunswick Brigade. |
| 5. Toronto Battery. | | 12. Halifax Brigade. |
| 6. No. 2 Battery, Quebec. | | 13. Cobourg Battery. |
| 7. British Columbia Brigade. | | 14. No. 1 Battery, Lewis. |

Firing Competitions.

Rules for Practice.

1. Competition limited to 16 *N. C. Officers and Men* from each Field, and 8 from each Garrison Battery.
2. At the discretion of the Officer superintending the Practice, two trial shots, common shell with percussion fuze, or solid shot, may be allowed at the commencement of each Battery competition, or when two or more Batteries are firing together, 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 signalled.
3. 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.
4. Each competitor to prepare and fix his own time fuzes, and to lay his gun without verbal assistance except from the officer in command, who may advise the competitor as to length of fuze, elevation, deflection. &c., but who must not look over or correct the laying of the gun.
5. Lots to be drawn for the order of competitive firing, and not divulged until the competitor is called out by the umpire.
6. The Range Officer is alone responsible for points given for elevation. No appeal.
7. 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.
8. The Officer in charge of the marking at the Battery is alone responsible for points given for direction. No appeal.
9. On all other matters the decision of the Officer superintending the practice is final. No appeal.
10. Each competitor may be told the points given for direction and *may also select one of his Battery* to judge the effects of his shot and inform him of it, *but such assistant must not take up any position in front of that occupied by the guns.*

11. Ties
a. I
b. C
Ties
a. T
b. P
c. C
d. P

12 The p
individual sco
or competitive
petitions will l

2
A

Unde
Over,
Over
Direc

Unde
"
Over

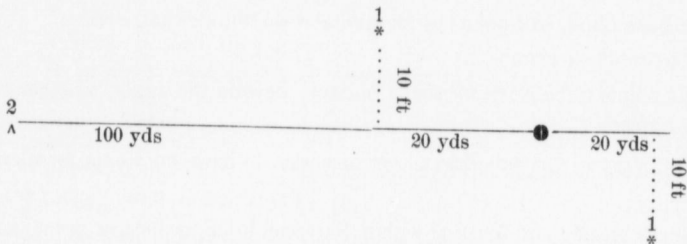
5 4
| |
100

11. Ties in preliminary practice to be decided by.
 - a. Points for direction.
 - b. Common shell score.
 Ties in final practice to be decided by.
 - a. Time.
 - b. Points for direction.
 - c. Common shell score.
 - d. Points in Preliminary score.

12 The prizes offered by the Dominion Artillery Association or others, for individual scores will be competed for by the selected competitors in the second or competitive practice. The prizes for Battery scores, or for efficiency competitions will be decided by the aggregate scores at both practices.

Rules for Marking.

SEA RANGES.



ELEVATION.

Common Shell or Solid Shot

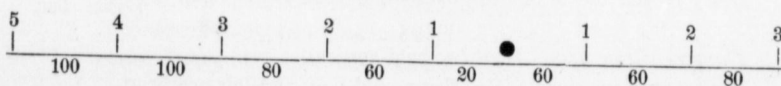
Under, between 1 and Target.....	3
Over, " 1 ".....	2
Over or under, within 5 yds. of Target.....	4
Direct Hit—Extra.....	2

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.

LAND RANGES.



ELEVATION.

Common Shell or Solid Shot.

Between 1 and 1	.....	6
" 1 " 2	.....	4
" 2 " 3	.....	2
Direct Hit—extra	.....	2

DIRECTION.

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

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.

Direct hit—1 extra.

No points to be given for shells bursting beyond the target, whether before or after graze.

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

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

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

Target for the longer ranges, 6 ft. high by 8 ft. wide; below 1300 yds.—4 ft. high by 6 feet wide.

Signalling.

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.

} Blue flag.

To signal shots out of bounds—

Every 10 yds. out of bounds, over—one wave to the right.

" " under " left.

} White flag.

Danger—Cease firing—Red flag held vertical.

Repeat previous signal—Red flag waved right and left overhead.

Fiel
Gar
A reduct

The follo
vide G. O. 10

16 comp
Battery, from
rounds each, y

1 Co
2 Sh
Tria

The abov
from the rang

The eight
four rounds ea

3 Co
1 Sh
Offic
fu

The num
8 marksm
each, viz :—

3 Sol
1 Co
1 Sh
Tria

Time Allowance.

Field guns	1 min. 30 sec. each round.
Garrison guns	2 min. 30 sec. "
A reduction of 1 point for every 30 sec. or fraction thereof beyond allowance.	

The following is a detail of the ammunition authorized to be expended, *vide* G. O. 10, 11th May, 1888.

ARTILLERY PRACTICE.

Field Batteries 9-pr. R. M. L. Guns.

16 competitors as marksmen, to be selected by the Officer commanding the Battery, from the best instructed non-commissioned officers and men, to fire 3 rounds each, viz :

1 Common shell, percussion fuze	16
2 Shrapnel shell, time fuze	32
Trial shots—Common shell, percussion fuze	2
Total	50

The above rounds to be fired deliberately, and the results of each signalled from the range (about 1,600 yards.)

The eight competitors making the highest scores in above practice to fire four rounds each, viz :—

3 Common shell, percussion fuze	24
1 Shrapnel shell, time fuze	8
Officers instructional practice—Common shell, percussion fuze	12
Total	44
Total rounds per Battery	94

Garrison Batteries.

The number of rounds allowed, to be expended as follows :

8 marksmen, selected as above, to fire—when S. B. guns are used, 5 rounds each, viz :—

3 Solid shot	24
1 Common shell, with time fuze	8
1 Shrapnel shell, with time fuze	8
Trial shots and instruction—Solid shot	4
Total	44

64—32-pr. R. M. L. Guns.

Eight competitors to be selected by the officer commanding the Battery, from amongst the best and most efficient N. C. officers and men, to fire two rounds each, viz :—

1 Common shell plugged.....	8
1 Shrapnel shell, time fuze.....	8
Trial shots—Common shell, plugged.....	2
Total.....	18

The above rounds to be fired deliberately, and the result of each shot signalled from the range. Range to be at least 1,700 yards.

The four competitors making the highest score at above practice to fire three rounds each, viz :—

2 Common shell, plugged.....	8
1 Shrapnel shell, time fuze.....	4
Officers instructional practice—Common shell, plugged..	9
Total.....	21
Total rounds.....	39

When 40-pr. R. B. L. guns are used in the preliminary practice each competitor will fire

1 Common shell, plugged.....	8
2 Shrapnel shell, time fuzes.....	16
Trial shots—Common shell, plugged.....	2
Total.....	26

And in subsequent competition :—

3 Common shell.....	12
1 Shrapnel shell.....	4
Officer's instructional practice—Common shell, plugged..	9
Total.....	25
Total rounds per battery.....	51

Officers are not eligible as competitors, but should act as instructors, and note the result of each man's shooting.

Annual gun practice of Field Batteries will be held in Ontario and Quebec under arrangements similar to those in force for the past year, the Inspector of Artillery will make the necessary arrangements.

The above firing at local batteries taking place at Quebec, viz :

Four companies of gunners. To

Common Shrapnel

Common Shrapnel

The above scale was adhered to in the case of Field Batteries and Batteries firing at local headquarters, a fresh detail was subsequently authorized for Batteries taking part in the Garrison Artillery Competition at the Island of Orleans, Quebec, viz :

Four competitors selected from each detachment of seven N. C. officers or gunners. To fire each :—

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

Common shell, plugged	4
Shrapnel shell, time fuze	1
Total	5
Total per battery	20

40-pr. R. B. L. Guns.

Common shell, plugged	3
Shrapnel shell, time fuze	1
Total	4
Total per battery	16

PRIZE LIST, 1888.

ROYAL MILITARY COLLEGE.

Firing Competition.

Badges as for a Field Battery.	
Field Glass, value	\$25 00

ROYAL SCHOOL OF ARTILLERY.

Firing Competition.

9-pounder R. M. L. Guns.

Aggregate	\$16 00
Individual	8 00
Badges as for Field Batteries.	

64-pounder R. M. L. Guns.

Aggregate	8 00
Individual	8 00
Shifting Ordnance	25 00
	<hr/>
	65 00

FIELD BATTERIES.

Firing Competition.

9-pounder R. M. L. Guns.

Aggregate Scores—1, Oswald Cup and	\$30 00
2	20 00
3	15 00
4	10 00
	<hr/>
	75 00

Cup to become the property of any Battery winning it two years in succession.

Individual Scores—1 at \$15	\$15 00
2 " 10	20 00
3 " 8	24 00
4 " 5	20 00
5 " 4	20 00
5 " 3	15 00
10 " 2	20 00
	<hr/>

134 00

1st prize
2nd "
3rd "

1.
2.
3.

Cup to be
sion.

Aggregate

Individual

Quebec M
of any Battery

Aggregate

Individual

Montreal
winning it twice

OFFICERS' COMPETITION.

1st prize.....	value \$25 00	
2nd "	" 15 00	
3rd "	" 10 00	
		<hr/> \$50 00

SHIFTING ORDNANCE COMPETITION.

1.	Gzowski Challenge Cup and	\$30 00	
2.		20 00	
3.		10 00	
		<hr/>	\$60 00

Cup to become the property of any Battery winning it two years in succession.

GARRISON BATTERIES.

COMPETITIONS AT ISLAND OF ORLEANS.

64 pounder R. M. L. Guns.

Aggregate Scores—1		\$50 00	
2		30 00	
3		20 00	
		<hr/>	\$100 00
Individual Scores—1 at \$20.....		\$20 00	
2 " 15.....		30 00	
2 " 10.....		20 00	
5 " 4.....		20 00	
5 " 2.....		10 00	
		<hr/>	\$100 00

Quebec Merchants' Challenge Cup, value \$250.00, to become the property of any Battery winning it twice in three successive competitions.

40-pounder B. L. R. Guns.

Aggregate Scores—1		\$40 00	
2		25 00	
3		15 00	
		<hr/>	\$80 00
Individual Scores—1 at \$20.....		\$20 00	
1 " 15.....		15 00	
2 " 10.....		20 00	
2 " 5.....		10 00	
2 " 4.....		8 00	
4 " 2.....		8 00	
		<hr/>	\$81 00

Montreal Challenge Cup, value \$250.00, to be the property of any Battery winning it twice in three successive competitions.

AGGREGATE.

64 and 40-pounder Guns.

1	\$25 00	
2	10 00	
	<hr/>	\$35 00

OFFICERS' COMPETITION.

1st Prize	value \$25 00	
2nd "	" 15 00	
3rd "	" 10 00	
	<hr/>	\$50 00

OFFICERS' COMPETITION AT LOCAL HEADQUARTERS.

64-pounder.

1st Prize	value \$10 00
2nd "	" 5 00

Batteries practising at Local Headquarters, prizes at the rate of *two dollars* per Battery entering into the competitions.

SHIFTING ORDNANCE COMPETITION.

Shift A (as detailed)—1st Prize	\$40 00	
2nd "	25 00	
3rd "	10 00	
	<hr/>	\$75 00
Shift B (go as you please)—1st Prize	\$40 00	
2nd "	25 00	
3rd "	10 00	
	<hr/>	\$75 00

One first prize if only 3 detachments or under compete ; two prizes if only 4 detachments compete, and three prizes if 6 detachments compete.

GENERAL EFFICIENCY.

Field and Garrison.

1st. To Battery making highest total points in their respective arm, Cup or Trophy presented by His Excellency the Governor-General.

2nd. To Battery making second highest total points—Lansdowne Cup to be held for the year, and \$25.00.

VOLUNTARY DRILLS.

Highest Average Attendance, Field or Garrison ..	\$20 00	
Second	10 00	
	<hr/>	\$30 00

Badges same as last year.

ROYAL MI

"A" Batter
"B" Batter

1. Winnip
2. Montre
3. Ganano
4. No. 1 B

No

1. Bomb. I
2. Q. M. S
3. Corpl. S
4. Q. M. S
5. Gunner
6. Sergt. J
7. Sergt. A
8. Sergt. R
9. Gunner
10. Bomb. M
11. B. S. Ma
12. Gunner
13. Bomb. F
14. Gunner
15. Corpl. B
16. Corpl. S
17. Bomb. I
18. Gunner
19. Sgt. Tri
20. Sgt. Fea
21. Gunner
22. Gunner
23. Gunner
24. Sergt. T
25. Sergt. M
26. Sergt. C
27. Gunner
28. Q. M. S
29. Gunner
30. Sergt. C

- 1st Prize,—M
- 2nd "
- 3rd "

1. Gananoqu
2. Durham
3. Hamilton

Summary of Prizes Awarded.

ROYAL MILITARY COLLEGE COMPETITION..... \$25 00

Royal Schools of Artillery.

"A" Battery..... 6.00
 "B" Battery..... 41.00

Field Batteries, 9 pr. R. M. L. Guns.

AGGREGATE SCORES.

1. Winnipeg Field Battery.....	430 points.	Oswald Cup and	\$30.00
2. Montreal " ".....	394 "		20.00
3. Gananoque " ".....	378 "	Montizambert Cup &	15.00
4. No. 1 By. 1st Brigade.....	362 "		10.00

INDIVIDUAL SCORES.

Name.	Battery.	Score.	Time.	Amount.
1. Bomb. Berube.....	Quebec.....	34	4' 57"	\$15.00
2. Q. M. Sgt. Thatcher.....	No. 1, 1st Bde....	32	4.45	10.00
3. Corpl. Stewart.....	Winnipeg.....	32	4.45	10.00
4. Q. M. Sgt. Mowat.....	Montreal.....	31	4.15	8.00
5. Gunner Kennedy.....	No. 2, 1st Bde...	31	5.02	8.00
6. Sergt. Johnson.....	Winnipeg.....	28	4.35	8.00
7. Sergt. Armstrong.....	No. 1, 1st Bde....	28	4.54	5.00
8. Sergt. Richardson.....	Welland.....	27	4.20	5.00
9. Gunner Bonnell.....	Ottawa.....	27	4.25	5.00
10. Bomb. Ness.....	Welland.....	27	6.00	5.00
11. B. S. Maj. Bertrand.....	Quebec.....	26	4.50	4.00
12. Gunner E. Brown.....	Montreal.....	26	5.05	4.00
13. Bomb. Kethro.....	Newcastle.....	26	5.31	4.00
14. Gunner Watson.....	Toronto.....	25	3.20	4.00
15. Corpl. Brady.....	Winnipeg.....	25	4.55	4.00
16. Corpl. Sallows.....	No. 1, 1st Bde...	25	5.16	3.00
17. Bomb. Hay.....	Woodstock.....	25	7.18½	3.00
18. Gunner Johnson.....	Gananoque.....	24	5.00	3.00
19. Sgt. Trickey.....	Gananoque.....	23	4.34	3.00
20. Sgt. Fearnside.....	Hamilton.....	23	4.35	3.00
21. Gunner Hayes.....	Montreal.....	23	4.45	2.00
22. Gunner Stark.....	Montreal.....	22	4.10	2.00
23. Gunner Gray.....	Ottawa.....	22	5.05	2.00
24. Sergt. Taylor.....	Winnipeg.....	22	5.10	2.00
25. Sergt. McCallum.....	Newcastle.....	22	5.20	2.00
26. Sergt. Campbell.....	Woodstock.....	22	6.00	2.00
27. Gunner Wood.....	Gananoque.....	22	6.00	2.00
28. Q. M. Sgt. Maltby.....	Newcastle.....	22	6.12	2.00
29. Gunner Somerville.....	Gananoque.....	21	3.33	2.00
30. Sergt. Capes.....	Gananoque.....	21	4.16	2.00

OFFICERS' COMPETITION.

1st Prize,—Major Hood, No. 2 Battery, 1st Brigade (Field Glass).....	\$25.00
2nd " " McLean, Durham Field Battery (Riding Whip).....	15.00
3rd " " Coutlee, Winnipeg, ".....	10.00

Gzowski Competition.

1. Gananoque Field Battery.....	Gzowski Cup and	\$30.00
2. Durham " ".....		20.00
3. Hamilton " ".....		10.00

General Efficiency.

1. No. 1 Battery, 1st Brigade—Cup, presented by His Excellency the Governor-General.
2. Hamilton Battery—Lansdowne Cup and Twenty-five dollars.

Carrison Batteries.

COMPETITIONS AT ISLAND OF ORLEANS.

64 pr. R. M. L. Guns.

1st Aggregate, No. 3 Battery, Halifax Bde, 125 points, Quebec Merchants'	[Cup and	\$50.00
2nd " 1 " Levis, 117 points.....		30.00
3rd " 2 " P. E. I. Bde, 100 points.....		20.00

INDIVIDUAL PRIZES.

Name.	Battery.	Points.	Time.	Amount.
1. Bomb. Weatherbie.....	No. 3, Halifax Bde. ...	36	11'.05"	\$20.00
2. Corpl. Spence.....	3, " " ...	36	12.00	15.00
3. Corpl. Moore.....	1, Levis.....	32	9.17	15.00
4. Sergt. Lacroix.....	1, " ".....	32	15.20	10.00
5. Sergt. Dover.....	2, P. E. Island Bde. ...	30	11.51	10.00
6. Sergt. Carroil.....	2, Halifax Bde ...	30	12.20	4.00
7. Sergt. Lamontagne.....	2, Quebec.....	30	12.25	4.00
8. Sergt. Connolly.....	1, P. E. I. Bde. ...	29	9.19	4.00
9. Gunner Brown.....	1, N. Brunswick B. ...	29	10.47	4.00
10. Sergt. Van Horne.....	Yarmouth.....	29	11.27	4.00
11. Gunner Adison.....	6, Montreal Bde. ...	29	11.39	2.00
12. Sergt. Long.....	2, P. E. I. Bde. ...	28	9.55	2.00
13. Sergt. Woodman.....	Digby.....	28	12.30	2.00
14. Sergt. Burnham.....	Digby.....	28	12.47	2.00
15. B. S. Maj. Berube.....	1, Levis.....	28	13.25	2.00

Aggregate Scores, 64 and 40 pr. Guns.

1. No. 3 Battery, Halifax Brigade.....	222 points	\$15.00
2. No. 1 " Levis.....	204 "	10.00

40 pr. R. B. L. Guns.

1st Aggregate, No. 3 Battery, Halifax Bde, 97 points, Montreal Challenge	[Cup and	\$40.00
2nd " 4 " New Brunswick Brigade, 92 points.....		25.00
3rd " 5 " Halifax Brigade, 91 points.....		15.00

INDIVIDUAL SCORES.

Name.	Battery.	Points.	Dir.	C.S. Score.	Amt.
1. Corpl. Theakston.....	No. 5, Halifax Bde.....	35	..	..	\$20.00
2. Gunner MacNachtan....	Cobourg.....	31	8	24	12.50
3. Bomb. Weatherby.....	3, Halifax Bde.....	31	8	24	12.50
4. Gunner Armstrong.....	4, New Brunswick Bde. ...	30	..	..	10.00
5. B. S. Maj. Berube.....	1, Levis.....	26	..	..	5.00
6. Sergt. Lacroix.....	1, Levis.....	25	8	..	5.00
7. Sergt. Lambe.....	1, New Brunswick Bde. ...	25	7	..	4.00
8. Bomb. Facey.....	4, Montreal Bde.....	24	8	..	4.00
9. Corpl. McGowan.....	4, New Brunswick Bde. ...	24	7	20	2.00
10. Sergt. West.....	3, Halifax Bde.....	24	7	19	2.00
11. Sergt. Burnham.....	Digby.....	24	7	19	2.00
12. Corpl. Spencer.....	3, Halifax Bde.....	24	6	..	2.00

Governor-

Shifting Ordnance Competitions.

A Shift.	{ 1st Prize, Halifax Brigade.....	\$40.00
	{ 2nd " Montreal "	25.00
B " "	{ 1st " Halifax "	40.00
	{ 2nd " P. E. Island Brigade	25.00

OFFICERS' COMPETITION.

Captain Crawford.....	New Brunswick Brigade	\$25.00
Captain Newman	Halifax Brigade.....	15.00
Lieut. DeWolf.....	" "	10.00

Competitions at Local Headquarters.

64 pr. R. M. L. Guns.

Aggregate, No. 5 Battery, New Brunswick Bde... ..	110 points	\$10.00
---	-----------------	---------

INDIVIDUAL SCORES.

1. Gunner Wetmore.....	2 Battery N. B. Bde	20 points	\$10.00
2. Sergt. Hunt	1 " Halifax Bde.....	16 "	6.00
3. Gunner Dunham	2 " N. B. "	16 "	6.00
4. Corpl. Doane.....	7 " Halifax "	15 "	5.00
5. Gunner Lawson, J.	5 " N. B. "	14 "	5.00
6. Bomb. Broadhurst... ..	4 " Halifax "	13 "	4.00
7. Corpl. Jackson	1 " "	11 "	4.00

OFFICERS' COMPETITION.

1. Lieut. Harrison.....	N. B. Bde... ..	17 points	\$10.00
2. Major Purcell	Halifax Bde	16 "	5.00

Amount.

.. \$20.00
 .. 15.00
 .. 15.00
 .. 10.00
 .. 10.00
 .. 4.00
 .. 4.00
 .. 4.00
 .. 4.00
 .. 4.00
 .. 2.00
 .. 2.00
 .. 2.00
 .. 2.00
 .. 2.00

.. \$15.00
 .. 10.00

e \$40.00
 d 25.00
 . 15.00

Amt.

.. \$20.00
 .. 12.50
 .. 12.50
 .. 10.00
 .. 5.00
 .. 5.00
 .. 4.00
 .. 4.00
 .. 2.00
 .. 2.00
 .. 2.00
 .. 2.00

Record of Practice,

SHOWING SCORE OF EACH COMPETITOR, PRIZES AWARDED, ETC.

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-limin-ary.	Final.		
Royal Military College—Practice postponed until spring.							
Royal Schools of Artillery—9 pr. R. M. L. Guns.							
"A" Battery—							
S-Sgt. Ducharme...	6	48	2	8	23	Embd. badge.	
Bombdr. Beal.....	6	15	1	7	29	Silver badge.	
S. Sergt. Newnham.	6	51	1	4	20	Embd. badge.	
Gr. W. Reid.....				0			
Sergt. C. Long.....	7	00	2	13	11		
S.-Sergt. Bridgeford.....				3			
Bomb. Hewgill.....	8	00	4	7	14		
" Martin.....	6	09	1	12	16		
Q.M.-Sergt. Harris.....				6			
Bomb. Harris.....				5			
Gr. Dafoe.....	5	09		13	7		
" Rousseau.....				0			
Sgt.-Maj. Stroud.....				6			
Gr. Kendalls.....				6			
Sgt. O'Grady.....	5	37		15	16		
Gr. Dunlop.....				0			
Battery total.....				105	136		
					105		
Aggregate.....					241		
"B" Battery—							
Sergt. Keogh.....	5	10		18	12		
Gr. T. Pugh.....				4			
Corpl. S. Goudreau..	4	37		15	11		
Sgt. T. Pugh.....				8			
Gr. Morrison.....				0			
" Clement.....				5			
Sgt. Prevost.....				4			
S.-Sgt.-Lavoie.....	4	15		13	20	Embd. badge.	
Gr. Tingman.....	5	30		12	20	" "	
Sgt. T. Willis.....	5	25		14	19	" "	
Gr. W. Pugh.....	5	05		16	15		
Bomb. Costin.....				11			
" D'Aoust.....	5	38		11	27	Silver badge.	
S. Sgt. Wallick... .	5	35		13	15		
Sgt.-Maj. Lyndon.....				7			
Mr.-Gr. Lavie.....				4			
Battery total.....				155	139		
					155		
Aggregate.....					294		

Practice of Schools of Artillery carried out with experimental common shell.

Names of Competitors

Sgt. Compt.
Bomb. Steel.
Sgt.-Maj. Y.
Gr. Lawren.
Sgt.-Maj. S.
Gr. Saunde.
Q.-M. Sgt. C.
Gr. Burrow.
Sgt. Cross.
Bomb. Bolt.
Sgt. Richie.
Corpl. Gilc.
Sgt. Armst.

Corpl. Crow.
" Sallo.

" Hind.

Battery

Aggreg

B.-Sgt.-Maj.
Sgt. Austin.
" Newste.
" Price.
" Bigbie.
" William.
Q.-M.-Sgt.

Corpl. Ken.
" Mars.
" Cobo.
Bomb. Mar.
" Tuc.
Gr. Anders.
" Kenne.

" Johnst.
" McInt.

Battery

Aggreg

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-limin-ary.	Final.		
FIELD BATTERIES.							
No. 1 Battery, 1st Brigade.							
Sgt Compton.....				14	.....	
Bomb. Steel.....				10	.....	
Sgt.-Maj. Young....	6	08	1	18	7		
Gr. Lawrence.....	5	10		20	20	Embd. badge.	
Sgt.-Maj. Snider....	4	44		15	6		
Gr. Saunderson.....				10	.....	
Q.-M. Sgt. Ogg.....				4	.....	
Gr. Burrowes.....				14	.....	
Sgt. Cross.....				14	.....	
Bomb. Bolton.....	5	25		19	18	Embd. badge.	
Sgt. Richie.....				12	.....	
Corpl. Gilchrist....	5	39		17	10		
Sgt. Armstrong.....	4	54		17	28	Silver badge and \$5.00.	
Corpl. Crowe.....	5	47		21	17		
" Sallows.....	5	16		16	25	Embd. badge and \$3.00.	
" Hinds.....				10	...		
Battery total.....				231	131		
					231		
Aggregate.....					362		
No. 2 Battery, 1st Brigade.							
B.-Sgt.-Maj. Watson.....				4	.....	
Sgt. Austin.....				10	.....	
" Newstead.....				9	.....	
" Price.....				9	.....	
" Bigbie.....				6	.....	
" Williamson.....				7	.....	
Q.-M.-Sgt. Thatcher.	4	21		20	32	Silver badge and \$10.	
Corpl. Kennedy.....	4	07		23	11		
" Marsack.....	5	35		15	12		
" Cobourn.....				9	.....	
Bomb. Marsack.....	4	38		14	21	Embd. badge.	
" Tuck.....				10	.....	
Gr Anderson.....				15	15		
" Kennedy.....	5	02		16	31	Embd. badge and \$8.	
" Johnston.....	4	50		17	8		
" McIntosh.....				15	16		
Battery total.....				194	146		
					194		
Aggregate.....					340		

RECORD OF PRACTICE—(Continued)

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-limin-ary.	Final.		
London Battery.							
Lt.-Col. Peters.....				10	.....	
Gr. Colerick.....				0	.....	
“ Case.....				6	.....	
“ Wilson.....	4	00		15	9		
“ Taylor.....	3	29		17	13		
“ Cleghorn.....				7	.....	
Corpl. Barrett.....	3	29		10	18	Silver badge.	
“ Mitchell.....	3	50		16	3		
“ Palmer.....	3	47		13	7		
Gr. Bide.....				12	10		
“ Felt.....				9	.....	
“ England.....	4	36		13	9		
“ Rankin.....				4	.....	
“ Dawson.....				5	.....	
Trump. Percival.....				10	.....	
Gr. Hall.....	3	35		15	11		
Battery total.....				162	80		
					162		
Aggregate.....				242			
Welland Canal Battery.							
B. Sgt.-Maj. Jeffrey.	6	00		11	14		
Sgt. McRae.....				3	.....	
“ Birchall.....				5	.....	
“ Richardson...	4	20		16	27	Silver badge and \$5.	
Q.-M.-Sgt. Chelew.....				5	.....	
Sgt. Eccleston.....	4	00		15	17		
Corpl. Clifford.....				9	.....	
Sgt. Gander.....				8	.....	
“ Bradt.....				6	.....	
Corpl. Lydiatt.....	4	30		16	15		
“ Halliday.....	7	00		16	21	Embd. badge	
Bomb. Balfour.....	5	45		15	18	“ “	
“ Ness.....	6	00		11	27	Embd. badge and \$5.	
“ Walsh.....				8	.....	
“ Barrack.....	6	00		15	17		
Gr. Monroe.....				10	.....	
Battery total.....				169	156		
					169		
Aggregate.....				325			

Names of Competitors.

Sergt. Trum
" Fear
" Collet
Bomb. Burk
B.-Sgt.-Maj.
Sgt.-Inst. Ke
Corpl. McCa
Gr. Ross...
Far.-Sgt. Ho
Gr. Warring
" Austin.
" Kilgour
" White..
" Pilton..
Corpl. Atkin
Gr. McMillan

Battery t

Aggregate

Gr. Watson.
" Weir..
B.-Sgt.-Maj
man.....
Gr. Riordan
" Cowell.
Sgt. Rowley
Corpl. Thom
Sgt. Purvis.
" Hynes.
Gr. Sargent.
" Nevin..
" Ryan...
Corpl. Defoe
Gr. Benson.
Q.-M.-Sgt. Sp
Corpl. Rober

Battery t

Aggregate

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-liminary.	Final.		
Hamilton Battery.							
Sergt. Trumbull.....				6			
" Fearnside....	4	35		8	23	Silver badge and \$3.	
" Collet.....	5	55		15	14		
Bomb. Burkholder.....				5			
B.-Sgt.-Maj. Wholton	5	40		17	6		
Sgt.-Inst. Kerley....	5	20		10	19	Embd. badge.	
Corpl. McCarter.....				6			
Gr. Ross.....				8			
Far.-Sgt. Homer.....				6			
Gr. Warring.....				6			
" Austin.....				12			
" Kilgour.....				11			
" White.....	5	05		15	9		
" Pilton.....	4	05		14	7		
Corpl. Atkinson....	6	00		13	10		
Gr. McMillan.....	5	55		23	21	Embd. badge.	
Battery total.....				175	109		
					175		
Aggregate					284		
Toronto Battery.							
Gr. Watson.....	3	20		8	25	Silver badge and \$4.	
" Weir.....	4	00		13	17		
B.-Sgt.-Maj. Wood-				3			
man.....				7			
Gr. Riordan.....				5			
" Cowell.....				5			
Sgt. Rowley.....				5			
Corpl. Thompson...	6	00		8	15		
Sgt. Purvis.....	5	50		8	15		
" Hynes.....	5	30		12	5		
Gr. Sargent.....				6			
" Nevin.....				4			
" Ryan.....	5	00		10	18	Embd. badge.	
Corpl. Defoe.....	5	20		8	10		
Gr. Benson.....	4	10		10	18	Embd. badge.	
Q.-M.Sgt. Spry.....				4			
Corpl. Roberts.....				4			
Battery total.....				115	123		
					115		
Aggregate ..					238		

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded	Remarks.
	Minutes	Seconds		Pre-limin-ary.	Final.		
Durham Battery.							
Sgt. Gillies.....				10			
B.Sgt.-Maj. Metheral.....				3			
Sgt. Henderson.....	5	40		10	21	Silver badge.	
“ Pearce.....	5	40		17	11		
“ McMahon.....				5			
Corpl. Hutchinson..	4	32		16	12		
“ Reynolds.....				5			
Sgt. Trew.....				6			
Corpl. Paine.....	5	37		11	16		
Bomb. Burnett.....	4	52		19	15		
Corpl. Pearson.....				7			
Bomb. Hay.....	5	45		18	9		
“ Lambly.....	4	22		17	11		
“ Kennealy ...	6	00		16	11		
“ Montgomery.....				6			
“ Bowen.....							
Battery total				166	106		
					166		
Aggregate					272		
Kingston Battery.							
Sgt. A. McLean.....				12			
Q.-M.-Sgt. Whitney.....				8			
B. Sgt.-Maj. Rea... ..	4	25		10	11		
Sgt. Patterson.....				5			
“ Greaves.....	5	37		12	3		
Corpl. Baird.....				3			
Sgt. J. McLean.....	4	04		7	10		
Gr. Donaldson				6			
Corpl. Crinnons ...	5	40		14	3		
Gr. McAdoo.....	4	46		8	21	Silver badge.	
Corpl. Dunlop.....				3			
“ Wilmot.....				4			
Gr. Jermaine.....	5	00		9	17		
“ Vankoughnet... ..	5	42		9	5		
“ Babcock.....							
“ Campbell.....	5	49		9	8		
Battery total.....				119	78		
					119		
Aggregate					197		

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-liminary.	Final.		
Gananoque Battery.							
Bomb. Park.....				7			
Sgt. Trickey.....	4	34		16	23	Embd. badge and \$3.	
Q.-M.-Sgt. Karr.....				13			
Sgt. S. Lloyd.....				9			
Gr. Soaper.....				8			
B. Sgt.-Maj. Lloyd..	3	40		13	21		
Sgt. J. D. Lloyd.....				13			
Gr. Wood.....	6	00		18	22	Embd. badge and \$2.	
Sgt. Capes.....	4	16		16	21	Embd. badge and \$2.	
Gr. Warren.....				13			
Bomb. Trickey.....				10			
“ Singleton	4	20		16	15		
Sgt. Knight.....				11			
Gr. Johnson.....	5	00		17	24	Silver badge and \$3.	
“ Somerville.....	3	33		14	21	Embd. badge and \$2.	
“ McNinch	4	20		17	20		
Battery total.....				211	167		
					211		
Aggregate.....					378		
Ottawa Battery.							
Gr. Martin	6	00		13	13		
Corpl. Faughey.....				7			
Sgt. Proderick.....				0			
Q.-M.-Sgt. Morton..	6	00		16	5		
Gr. Welch.....				0			
Sgt. Dunnett.....				0			
Far. Kincaid.....	5	05		14	15		
Corpl. Harvey.....	7	16	3	13	19	Embd. badge.	
Sgt. Cowan.....	5	14		16	18	Embd. badge.	
Gr. Thompson.....				9			
“ Gray.....	5	05		12	22	Embd. badge and \$2.	
Corpl. Chattrick.....				10			
Gr. Hinds.....				7			
Sgt. Foss.....				10			
B. Sgt.-Maj. Ingram	5	55		16	13		
Gr. Bonnell.....	4	25		14	27	Silver badge and \$5.	
Battery total.....				157	132		
					157		
Aggregate					289		

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-liminary.	Final.		
Montreal Battery.							
Gr. Porteous				6			
Q.M.-Sgt. Mowat... 4 15	4	15		15	31	Silver badge and \$2.	
Gr. Hall.....				13			
" Hyle.....				14			
Bomb. Keyworth... 4 30	4	30		22	17		
Gr. Kaizer..... 6 00	6	00		18	19		
" Heuston.....				7			
" Hayes..... 4 45	4	45		17	23	Embd. badge and \$2.	
Sgt. Kendal				14			
Gr. Darling	5	15		14	15		
" Stark..... 4 10	4	10		14	22	Embd. badge and \$2.	
Sgt. Walker.....				13			
Gr. Miller				11			
Bomb. Adams..... 5 24	5	24		15	16		
Gr. E. Brown.... 5 05	5	05		21	26	Embd. badge and \$4.	
Gr. Flann				11			
Battery total.....				225	169		
					225		
Aggregate					394		
Quebec Battery.							
Gr. V. St. Pierre.....				0			
" Pouliot				11			
Driver Proux.....				12			
Sgt. H. Marcheterre.....				6			
Driver Thibault.....				5			
" Letarte..... 4 59	4	59		12	12		
" F. X. Pagé .. 4 52	4	52		17	0		
Gr. A. St. Pierre... 4 30	4	30		12	5		
Bomb. Giguère.....				12			
Sgt. E. Marcheterre.....				12			
Bomb. Berubé..... 4 57	4	57		14	34	Silver badge and \$15.	Practice carried on with common shell fitted with gas checks.
Sgt. Cloutier.....				3			
Corpl. Pagé..... 5 52	5	52		12	5		
Sgt. Moisan..... 4 42	4	42		14	13		
" Hamel..... 5 01	5	01		13	12		
B. Sgt-Maj. Bertrand 4 50	4	50		13	26	Embd. badge and \$4.	
Battery total.....				168	107		
					168		
Aggregate					275		

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time. for		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-limin-ary.	Final.		
Newcastle Battery.							
Sgt. Wm. Tushie....	8	20	5	13	16		
" S. Miller.....				3			
" W. McCullam..	5	20		15	22	Embd. badge and \$2.	
" W.F. Smallwood.....				5			
B.-Sgt.-Major R. L. Maltby.....				11			
Qr.-M.-Sgt. H. B. Maltby	6	12	1	17	22	Embd. badge and \$2.	
Corpl. A. Russell...	5	17		14	19	Embd. badge.	
" W. Brooks.....				5			
" J. Bevard.....				5			
Bomb. J. Ashford..	6	17	1	13	18	Embd. badge.	
" G. Cassady.....				12			
" F. Savage.....				8			
" H. Kethro....	5	31		17	26	Silver badge and \$4.	
Gr. M. O'Shaughnessy.....	6	44	2	12	9		
Sgt. J. R. Lawlor.....				4			
" Wm. Petrie....	5	55		13	12		
Battery total.....				167	144		
					167		
Aggregate					311		
Woodstock Battery.							
Gr. Brewer.....	4	06		9	20	Embd. badge.	
Br. McCafferty				9			
B. Sgt.-Maj. Good...	5	43		16	17		
Gr. Doherty.....				8			
Corpl. Leighton.....				0			
Sgt. Ruel	5	20		10	21	Embd. badge.	
Corpl. McManus.....				8			
" Barber				5			
Sgt. Scott.....				4			
Br. Good.....	6	09	1	17	18	Embd. badge.	
Gr. Plummer.....				8			
" Lawson.....				3			
Sgt. Campbell.....	6	00		18	22	Embd. badge and \$2.	
Q. M.-Sgt. Ewing...	7	26	3	13	16		
Corpl. Lawson.....	6	25	1	9	16		
Bomb. Hay.....	7	18½	3	15	25	Silver badge and \$2.	
Battery total.....				152	155		
					152		
Aggregate					307		

Practice carried on with common shell fitted with gas checks.

RECORD OF PRACTICE—(Continued).

Names of Competitors.	Time.		Points lost for Overtime.	Remaining Points.		Prizes Awarded.	Remarks.
	Minutes	Seconds		Pre-limin-ary.	Final.		
Winnipeg Battery.							
Sgt. Taylor.....	5	10	.....	16	22	Embd. badge and \$2.	
Corpl. Smith.	4	15	.....	17	19		
Gr. Burgess.....			.....	12	.....	
“ T. M. Horne .....			.....	15	.....	
Corpl. Brady.....	4	55	.....	15	25	Embd. badge and \$4.	
“ A. Horne....	4	15	.....	19	12		
Bomb. Munroe.....			.....	13	.....	
Corpl. Steuart.....	4	45	.....	18	32	Silver badge and \$10.	
“ Lethbridge..	5	20	.....	19	20		
Gr. Harrison.....			.....	14	.....	
B. Sgt.-Maj. Quealy.....			.....	10	.....	
Sgt. Coates.....	3	58	.....	23	20	Embd. badge.	
“ Johnson.....	4	35	.....	22	28	Embd. badge and \$8.	
Gr. Buchanan..			.....	12	.....	
Bomb. Roundthwaite.....			.....	15	.....	
Trump. Stack.....			.....	12	.....	
Battery total				252	178		
					252		
Aggregate					430		

Officers' Competition.

Rank and Name.	Battery.	Time.	Points lost Overtime.	Final Total.	Remarks.
Major Hood.....	No. 2 By., 1st Bde	4.27	..	28	Prize value \$25.
" McLean.....	Durham.....	3.16	..	24	" " \$15.
" Countlee.....	Winnipeg.....	3.00	..	23	" " \$10.
Lieut. Thompson.....	".....	3.30	..	21	
" Knowles.....	No. 1 By., 1st Bde	3.25	..	21	
Capt. Higginbotham..	No. 2 By., "	4.26	..	20	
" Gillies.....	Gananoque.....	3.29	..	19	
Major Nicoll.....	No 1 By., 1st Bde	3.15	..	18	
Capt. Hendrie.....	Hamilton.....	4.00	..	18	
" Bliss.....	Ottawa.....	3.00	..	16	
Lieut. Lawlor.....	Newcastle.....	3.50	..	16	
Capt. Wiley.....	Welland Canal. ..	2.40	..	15	
Lieut. Twigg.....	Durham.....	2.51	..	15	
" Mereweather ..	No. 2 By., 1st Bde	2.55	..	15	
Capt. Beaty.....	Toronto.....	3.33	..	15	
Lieut. Doidge.....	Winnipeg.....	3.20	..	14	
Lt. Col. Stevenson...	Montreal.....	3.45	..	14	

RECORD OF PRACTICE—(Continued).

Rank and Name.	Battery.	Time.	Points lost Overtime.	Final Total.	Remarks.
Lieut. Myles.....	Toronto	4.00	..	14	
Major Stewart.....	Ottawa	4.15	..	14	
Lieut. McKenzie	Gananoque.....	2.58	..	13	
Major Lindsay.....	Quebec.....	..	..	13	
Lt.-Col. Macdonald ..	1st Brigade.....	3.20	..	12	
Lieut. Ross.....	By., 1st Bde ..	3.08	..	11	
" Milligan.....	Durham.....	1.58	..	10	
Major King	Welland Canal ..	3.15	..	10	
Lt.-Col. McKenzie....	Gananoque	3.28	..	10	
Capt. Emory	Woodstock	4.28	..	10	
Lieut. Mailloux.....	Quebec.....	..	..	10	
" Davidson	Newcastle.....	5.00	1	10	
" Bowie.....	Ottawa.....	3.55	..	9	
Corpl. Garneau.....	Quebec.....	..	..	9	
Major Dibblee.....	Woodstock	6.00	3	9	
Lieut. Hogan.....	Montreal	3.00	..	7	
Capt. Davidson.....	1st Brigade.....	3.13	..	7	
" Wilmot	Kingston.....	3.05	..	6	
Lieut. Domville	Newcastle.....	5.32	3	6	
" Kent	Kingston.....	3.20	..	5	
" Robinson	Gananoque.....	3.26	..	4	
" Bliss	Ottawa	3.50	..	4	
Lt.-Col. Call	Newcastle.....	4.25	..	4	
Major Drennan.....	Kingston.....	3.00	..	0	
Lieut. Moore.....	"	2.50	..	0	

ks.

ue \$25.
\$15.
\$10.

Garrison Artillery.

Competition on Island of Orleans.

Rank and Name of Competitor.	Points Made.		Points Lost.		Drill	Final Total.		Prizes Awarded.	Remarks.
	64	40	64	40		64	40		
	pr	pr	pr	pr	pr	pr	pr		

Cobourg Battery.

Gr. J. Mulhall.....	..	17	.	.	.	..	17		
Sgt. T. Mulrenin.....	20	16	1	.	.	19	16		
Gr. A. F. Macnachtan ..	12	31	.	.	.	12	31	Silver badge &\$12.50	
Br. E. Campbell.....	26	16	1	.	.	25	16	Embd.	"
Battery Total....						56	80	Aggregate, 136	

Montreal Brigade—No. 1 Battery.

Gr. Davis.....	27	..	.	.	.	27	..	Silver badge.	
Gr. Kyle.....	14	..	.	1	.	13	..		
Gr. Sandall.....	27	..	3	.	.	24	..	Embd.	"
Sgt. Maj. Benton.....	13	15	5	.	.	8	15		
Corpl. Matheson.....	..	13	.	.	.	..	13		
Sgt. Harper.....	..	4	.	.	1	..	3		
Corpl. Clarke.....	..	15	.	.	.	..	15		
Battery Total....						72	46	Aggregate, 118	

No. 2 Battery.

Sergt. Small.....	19	21	.	.	.	19	21	Silver badge	
Gr. R. Beatty.....	24	..	1	.	.	23	..	Embd.	"
Sergt. F. T. Dibbs	15	..	.	.	.	15	..		
Br. G. Poole.....	13	..	3	.	.	10	..		
B. S. Maj. Wilson .....	..	17	.	.	2	..	15		
Sgt. Malsburg .....	..	7	.	.	.	..	7		
Gr. Sage.....	..	21	.	.	.	..	21	Embd. badge	
Battery Total....						67	64	Aggregate, 131	

No. 3 Battery.

Gr. Hora.....	18	..	.	1	.	17	..		
Sgt. McDonald	0	..	.	.	.	0	..		
Gr. Goodfellow.....	13	..	.	.	.	13	..		
Sgt. McGinnis.....	20	..	1	.	.	19	..		
Gr. Hedges.....	..	9	.	.	.	..	0	.....	Disqualified.
Gr. A. Bell.....	..	8	.	.	.	..	8		
Gr. Elvedge.....	..	7	.	.	.	..	7		
B. S. Maj. Jones.....	..	11	.	.	.	..	11		
Battery Total....						49	26	Aggregate, 75	

Ran

Co

Sgt. Clar
Sgt. Dow
Sgt. Morr
B. S. Maj
Br. Facey

Ba

Gr. Carpe
Sgt. Link
Corpl. Ro
Br. Gordo
B. S. Maj
Corpl. No
Bomb. Pin

Ba

Gr. Edmu
Gr. Heave
B. S. Maj
Gr. Alison
Sgt. McGl
Sgt. Hutcl
Sgt. Gardi

Ba

Sgt. McKa
Sgt. Migne
Corpl. Tar
Sgt. Lamc

Ba

Sgt. Lemie
Sgt. Lacro
Sgt. Moore
B. S. Maj
Gr. Jelly

Ba

4

GARRISON ARTILLERY—(Continued).

Rank and Name of Competitor.	Points Made.		Points Lost.		Final Total.	Prizes Awarded.	Remarks.
	Time.						
	Drill	Drill	Drill	Drill			
	64 pr	40 pr	64 pr	40 pr	64 pr	40 pr	
No. 4 Battery.							
Sgt. Clarke.....	25	..	..	..	25	..	Embd. badge
Sgt. Dowker.....	19	15	..	..	19	15	
Sgt. Morrow.....	15	5	..	..	15	5	
B. S. Maj. Ward.....	25	21	1	2	24	19	Embd. badge
Br. Facey.....	..	24	..	..	..	24	Silver badge & \$4
Battery Total. ..					83	63	Aggregate, 146
No. 5 Battery.							
Gr. Carpenter.....	17	11	..	..	17	11	
Sgt. Linklater.....	5	..	..	..	5	..	
Corpl. Rogerson.....	16	..	..	..	16	..	
Br. Gordon.....	25	..	..	..	25	..	Embd. badge
B. S. Maj. Drysdale.....	..	11	..	..	..	11	
Corpl. Norris.....	..	14	..	..	..	14	
Bomb. Pingle.....	..	20	..	..	..	20	Silver badge
Battery Total....					63	56	Aggregate, 119
No. 6 Battery.							
Gr. Edmunds.....	18	..	2	2	14	..	
Gr. Heaver.....	16	..	..	..	16	..	
B. S. Maj. Fegan.....	19	14	2	..	17	14	
Gr. Alison.....	29	..	..	..	29	..	Silver badge & \$2
Sgt. McGlashan.....	..	18	..	..	..	18	Embd. "
Sgt. Hutchison.....	..	14	..	..	..	14	
Sgt. Gardiner.....	..	18	..	5	..	13	
Battery Total....					76	59	Aggregate, 135
No. 2 Battery, Quebec.							
Sgt. McKavour.....	20	21	..	..	20	21	Embd. badge
Sgt. Migneault.....	25	23	1	..	24	23	" "
Corpl. Tardif.....	20	19	..	..	20	19	
Sgt. Lamontagne.....	30	22	..	..	30	22	Silver badge & \$4
Battery Total....					94	85	Aggregate, 179
No. 1 Battery, Levis.							
Sgt. Lemieux.....	25	16	..	1	25	15	
Sgt. Lacroix.....	40	31	6	2	32	25	Embd. badge & \$15
Sgt. Moore.....	32	..	..	..	32	..	Silver " & \$15
B. S. Maj. Berube.....	30	29	2	3	28	26	Embd. " & \$7
Gr. Jelly.....	..	21	..	..	..	21	
Battery Total...					117	87	Aggregate, 204

GARRISON ARTILLERY—(Continued).

Rank and Name of Competitor.	Points Made.		Points Lost.		Final Total.	Prizes Awarded.	Remarks.
	Time		Drill				
	64 pr	40 pr	64 pr	64 pr	40 pr	64 pr	40 pr
No. 2 Battery, Levis.							
Corpl. Roy.	11	12	.	.	2	11	10
Corpl. Girard.	22	22	.	4	.	18	22
B. S. Maj. Nolin.	27	14	.	.	1	27	13
Gr. Chatigny. ....	.	16	.	.	3	.	13
Corpl. Bissonet.	0	.	.	.	.	0	.
Battery Total.						56	58
Aggregate, 114							
No. 1 Battery, New Brunswick Brigade.							
Br. Clayton. ....	.	23	.	.	.	23	Embd. badge
Sgt. Lambe. ....	.	25	.	.	.	25	Silver " & \$4
Gr. Rourke. ....	.	20	.	.	.	20	1 shell burst prematurely
Sgt. Watters.	24	23	3	.	.	21	23
Br. McAfee.	21	.	3	.	.	18	.
Corpl. Proctor.	27	.	3	1	.	23	.
Gr. Brown.	29	.	.	.	.	29	\$4
Battery Total.						91	91
Aggregate, 182							
No. 3 Battery.							
Sgt. Porter.	23	.	2	.	.	21	.
Corpl. Edwards.	19	12	.	.	1	19	11
Corpl. Sullivan.	23	16	.	.	2	23	14
Corpl. Rubins.	17	.	.	.	.	17	.
Gr. Farmer. ....	.	21	.	.	1	.	20
Gr. McHaig. ....	.	0	.	.	.	.	0
Battery Total.						80	45
Aggregate, 125							
No. 4 Battery.							
Sgt. Richardson.	27	17	2	.	.	25	17
Corpl. McGowan. ....	.	24	.	.	.	24	Embd. badge & \$2
Gr. Armstrong.	25	30	5	3	.	17	30
Gr. Meneley. ....	.	21	.	.	.	21	.
Gr. Merritt.	27	.	.	.	.	27	.
Gr. Lowrie.	26	.	4	.	.	22	.
Battery Total.						91	92
Aggregate, 183							
Halifax Brigade, No. 2 Battery.							
Corpl. Letson.	20	19	.	.	.	20	19
Corpl. Mackay.	21	20	.	.	.	21	20
Sergt. Carroll.	30	14	.	.	.	30	14
Corpl. Bayers.	20	19	.	.	.	20	19
Battery Total.						91	72
Aggregate, 163							

Gunner
 Bomb.
 Corpl. S
 Sergt. V

 Corpl. C
 Sergt. R
 Corpl. T
 Gr. Dow

 B. S. Ma
 Corpl. S
 Sgt. Ma
 Br. Mat

 Gr. Vant
 Sgt. Woo
 Sgt. Baco
 Sgt. Bur
 Gr. Cossi
 Corpl. To

 Gr. Webs
 Gr. Skinn
 Sgt. Vanh
 Gr. Beauv
 Gr. Pendr
 Gr. Huest
 Gr. Agar

GARRISON ARTILLERY—(Continued).

Remarks.	Rank and Name of Competitor.	Points Made.		Points Lost.		Final Total.	Prizes Awarded.	Remarks.		
		Time.		Drill						
		64	40	64	64	40			64	40
		pr	pr	pr	pr	pr			pr	pr

Halifax Brigade, No. 3 Battery.

Gunner Morgan	27	18	.	.	.	27	18	
Bomb. Weatherbie	36	31	.	.	.	36	31	Silver badge & \$32.50
Corpl. Spence	36	24	.	.	.	36	24	Embd. " \$17.00
Sergt. West	26	24	.	.	.	26	24	Embd. " \$2.00
Battery Total						125	97	Aggregate, 222

No. 5 Battery.

Corpl. Cunningham	12	21	2	.	.	10	21	Embd. badge
Sergt. Robinson	28	13	4	.	.	24	13	Embd. " & \$20
Corpl. Theakston	11	35	.	.	.	11	35	Silver " & \$20
Gr. Dowling	7	22	5	.	.	2	22	
Battery Total						47	91	Aggregate, 138

Points for direction 40 pr. gun, 29.
See Score of No. 1 Battery New Brunswick Brigade.

No. 6 Battery.

B. S. Maj. Spencer	25	9	.	.	.	25	9	Embd. badge
Corpl. Snow	23	14	.	.	.	23	14	Embd. "
Sgt. Marshall	24	22	6	.	.	18	22	Silver "
Br. Matheson	22	3	2	.	5	20	2	
Battery Total						86	43	Aggregate, 129

Digby Battery.

Gr. Vantassel	21	.	.	.	.	21	.	
Sgt. Woodman	28	16	.	.	1	28	15	Embd. badge & \$2
Sgt. Bacon	18	.	1	.	.	17	.	
Sgt. Burnham	29	24	1	.	.	28	24	Silver badge & \$4
Gr. Cossit .....	.	14	.	.	.	.	14	
Corpl. Tobin .....	.	22	.	.	.	.	22	Embd. badge
Battery Total						94	75	Aggregate, 169

Yarmouth Battery.

Gr. Webster	21	.	.	2	.	19	.	
Gr. Skinner	18	.	1	2	.	15	.	
Sgt. Vanhorne	29	22	.	.	.	29	22	Silver badge & \$4
Gr. Beauvelt	7	.	7	.	.	0	.	
Gr. Pendreigh .....	.	22	.	.	.	22	.	Embd. badge
Gr. Huestis .....	.	17	.	.	.	17	.	
Gr. Agar .....	.	22	.	.	.	22	.	Embd. badge
Battery Total ...						63	83	Aggregate, 146

GARRISON ARTILLERY—(Continued).

Rank and Name of Competitor.	Points Made.		Points Lost.		Final Total.	Prizes Awarded.	Remarks.
	64	40	64	40			
	pr	pr	pr	pr	pr	pr	

P. E. Island Brigade, No. 1 Battery.

Sgt. Connolly	29	23	.	.	29	23	Silver badge & \$4
Gr. Scantlebury	0	13	.	.	0	13	
Gr. R. McDonald	20	15	3	1	16	15	
Gr. Proud	22	22	.	3	22	19	
Battery Total					67	70	Aggregate, 137

No. 2 Battery.

Sgt. Alley, A.	27	21	.	4	27	17	
Sgt. Dover	30	22	.	.	30	22	Silver badge & \$10
Gr. Aiken	16	12	1	1	15	11	
Gr. Long	29	18	1	.	28	18	Embd. badge & \$2
Battery Total					100	68	Aggregate, 168

No. 3 Battery.

Sgt. J. Alley	20	18	.	.	20	18	
Corpl. Ross	16	23	.	.	16	23	
Gr. Miller	21	14	.	.	21	14	
Sgt. Weatherbie	23	18	2	.	21	18	
Battery Total					78	73	Aggregate, 151

Officers' Competition.

Rank and Name.	Corps.	Points made.	Time.	Points deducted.	Final Total.
Capt. Crawford	New Brunswick Brigade.	26	9.05	..	26
" Newman	Halifax Brigade	25	8.50	..	25
Lieut. DeWolf	"	25	9.05	..	25
" Bergeron	No. 2 Battery, Levis.	24	7.28½	..	24
Capt. Maxwell	Halifax Brigade	25	10.11	1	24
Lt.-Col. Curren	"	24	10.30	1	23
Lieut. Elliott	"	21	9.15	..	21
" Dimock	"	21	10.00	..	21
" Easton	P. E. Island Brigade.	20	8.25	..	20
Capt. Morsan	"	20	9.00	..	20
" Langan	New Brunswick Brigade.	19	8.22	..	19
" Martineau	No. 1 Battery, Levis.	19	10.00	..	19
" Scammell	New Brunswick Brigade.	18	8.24	..	18
Lt.-Col. Armstrong	"	19	10.13	1	18
Lieut. Hudon	No. 2 Battery, Quebec ..	17	9.30	..	17
Capt. Finlayson	Montreal Brigade	17	9.35	..	17
" Stewart	Halifax	16	8.20	..	16
Lieut. Stewart	P. E. I.	16	8.30	..	16
Capt. Parker	Halifax	16	9.00	..	16

GARRISON ARTILLERY—(Continued).

Rank and Name.	Corps.	Points made.	Time.	Points deducted.	Final Total.
Lieut. Reynolds.....	Halifax Brigade	16	9.59	..	16
Major Cole	Montreal "	13	8.25	..	13
" Moore.....	P. E. I. "	13	9.00	..	13
Lieut. McNaughton.....	Cobourg Battery	12	10.30	1	11
" D'Agneau	No. 2 Battery, Quebec ..	10	9.10	..	10
" Foy.....	Montreal Brigade.....	10	9.28	..	10
Capt. Boulanger	No. 2 Battery, Quebec..	8	9.00	..	8
" Vien.....	" Levis....	8	9.43	..	8
Lieut. Moore	P. E. I. Brigade	7	10.00	..	7
Capt. Stevenson	Montreal "	6	7.52	..	6
Lieut. Lewis.....	Yarmouth Battery.....	10	12.15	5	5
" Daley	Digby "	4	13.30	7	..

GARRISON BATTERIES—Local Headquarters.

Rank and Name of Competitor.	Points lost, Overtime.	Total Points. Prelimin- ary.	Final, points lost deducted.	Prizes awarded.	Remarks.
New Brunswick Brigade—No. 2 Battery.					
Sergt. Lee.....	..	12	16	Embd. badge and \$6.	
Gr. Dunham.....	2	10	8		
" Stackhouse.....	..	10	20	Silver badge and \$10.	
" Wetmore .....	..	..	..
" Grey.....	..	6	..		
Corpl. Baxter.....	..	9	10		
" Stackhouse .....	..	5	..		
Sergt. Stackhouse .....	..	52	54		
Battery total.....		52	52		
Aggregate.....		106			

No. 5 Battery.

Sergt. Campbell.....	..	6	..		
Corpl. Raynes.. .....	..	12	5		
" McKenna.....	..	11	9		
Gr. J. Lawson.....	..	9	14	Silver badge and \$5.	
" R. Lawson .....	..	8	..		
Corpl. Brownell .....	..	6	..		
Gr. Arbo.....	..	14	10		
" Bonnell .....	..	6	..		
Battery total.....		72	38		
Aggregate.....		72			
		110			

Final Total.
26
25
25
24
24
23
21
21
20
20
19
19
18
18
17
17
16
16
16

GARRISON ARTILLERY—(Continued).

Rank and Name of Competitor.	Points lost, Overtime.	Total Points.		Prizes Awarded.	Remarks.
		Prelimin- ary.	Final, points lost deducted.		
Halifax Brigade—No. 1 Battery.					
Bat. Sgt.-Maj. Melvin...	..	8	6		
Sgt. Napier.....	..	10	..		
" Hunt.....	..	4	16	Silver badge and \$6.	
Corpl. Frawley.....	..	10	10		
" Jackson.....	..	11	11	Embd. badge and \$4.	
Bomb. Purcell.....	..	..	..
Gr. McEachren.....	..	6	..		
" A. D. McEachren...	..	6	..		
Battery total.....		55	43		
			55		
Aggregate.....			98		
No. 4 Battery.					
Bomb. Broadhurst.....	..	9	13	Silver badge and \$4.	
Bat. Sgt.-Maj. Zong....	..	10	4		
Sgt. Gamble.....	..	11	3		
Corpl. Hashman.....	..	..	..
Gr. Day.....	..	4	..		
" Burns.....	..	6	3		
Corpl. Bartlett.....	..	5	..		
Gr. Lovett.....	..	4	..		
Battery total.....		49	23		
			49		
Aggregate.....			72		
No. 7 Battery.					
Sergt. McLeod.....	..	2	..		
Corpl. Doane.....	..	6	15	Silver badge and \$5.	
" Walsh.....	..	5	..		
Gr. Henderson.....	..	..	..
Bomb. Campbell.....	..	5	..		
Gr. Pickering.....	..	6	0		
" Hall.....	..	6	6		
" Siggins.....	..	14	10		
Battery total.....		44	31		
			44		
Aggregate.....			75		
Officers' Competition.					
Name.	Corps.	Points.			
Lieut. Harrison.....	New Brunswick Brigade.....	17			
Major Purcell.....	Halifax Brigade.....	16			
Lieut. Wetmore.....	New Brunswick Brigade.....	14			
Capt. Anderson.....	Halifax Brigade.....	14			
Lieut. White.....	New Brunswick Brigade.....	11			
Capt. Botsford.....	Halifax Brigade.....	11			
Lieut. Dimock.....	" ".....	8			
" Flowers.....	" ".....	7			
Capt. Gordon.....	New Brunswick Brigade.....	5			
Lieut. Armstrong.....	" ".....	3			

DRIVING COMPETITION.

Names of Drivers to whom Badges of Cross-Whips were Awarded.

No. 1 Battery, 1st Brigade	{	Driver	W. Winer
		"	D. Black
No. 2 " "	{	"	J. Anderson
		"	A. Newstead
London Field Battery	{	Corporal	Webb
		Driver	Hull
Welland Canal "	{	"	Biggs
		"	Hammond
Hamilton "	{	"	Campbell
		"	Atkinson
Toronto "	{	"	S. Ritchie
		"	Page
Durham "	{	"	Moffatt
		"	Johnston
Kingston "	{	"	C. Hyssop
		"	J. Ferguson
Gananoque "	{	"	A. Mack
		"	A. Tennant
Ottawa "	{	"	A. Johnston
		"	R. Martin
Montreal "	{	"	Arthur Walker
		"	Hugh Convrey
Quebec "	{	"	H. Bordeleau
		"	J. Boivin
Newcastle "	{	"	Lester Parker
		"	David Bryenton
Woodstock "	{	"	McLellan
		"	Everett
Winnipeg "	{	"	Neil McGregor
		"	Ephraim Parker

General Efficiency Competition.

The credits given in the tables under the respective headings, Field and Garrison, kindly furnished by the Inspector of Artillery, are those which were awarded by the Inspector and Assistant Inspectors at the Annual Inspection.

The following are the questions which were asked at inspection and for which the credits, as recorded in the tables, were given.

Field Artillery 1888.

OFFICERS

(Questions—Value 5 each).

1. Explain the meaning of:—Windage, Angle of Sight, Quadrant Angle, Jump, Angle of Descent.
2. What are the considerations which determine the proper distance at which Shrapnel shell should be burst in front of the object?
3. What are the principal points to be attended to by an Artillery officer on out-post duty.
4. Detail the general "Orders for the March."
State the detail for
5. From line to reverse a Battery when at half intervals.
6. In line limbered up to change front for action.
7. From line to break into column of divisions, maintaining the pivot.
8. From line to come into action.

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 question not to be asked twice.

N. C. OFFICERS.

Questions—(Value four each).

1. What difference in the range will be caused by 3 minutes elevation at ranges of 1,000, 1,500, 2,000 and 2,500 yards?
2. At an estimated range of 1,500 yards the shell strikes 75 yards under. State the elevation for next round.

3. Define the meaning of range, windage, angle of elevation, angle of descent.
4. State the rule for obtaining length of fuze.
5. What are the principal differences between the 5-second and 15-second fuzes?
6. Detail the ammunition carried in gun limber.
7. Detail the ammunition carried in wagon and limber.
8. What articles of equipment are carried on gun carriage—packed for service?
9. What articles of equipment are carried on gun limber—packed for service.
10. Describe the method of "hooking in" by the drivers.
11. What is the difference between "wheeling" and "shoulders forward?" In wheeling on a fixed pivot how does the pivot gun move?
12. Detail the "sword arm signals."
13. What are the general rules to be observed in laying a gun?
14. State the weights of all charges and projectiles for 9-pr. R. M. L. gun.
15. What may be done when a gun wheel becomes partially, or altogether disabled?
16. State the general duties of Quartermaster-Sergeant.

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 question not to be asked twice.

Garrison Artillery.

OFFICERS.

Questions—(Value 5 Each).

1. Define the meaning of : Windage—Angle of Sight—Quadrant—Jump—Angle of Incidence.
2. State the systems of rifling now in the service, and their relative advantages and defects.
3. What are the considerations which determine the proper distance at which Shrapnel should be burst in front of the object?
4. State the weights of all charges and projectiles for the gun used by your Battery for practice.

5. State the detail for dismounting a gun by watered skids down the rear—what stores are required?

6. State what you know about vent—wedge-wad—friction tube—mode of filling shell and boring.

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 question not to be asked twice.

N. C. OFFICERS.

Questions—(Value, four each.)

1. Define the meaning of Angle of Elevation. Quadrant Angle, Windage, Line of Sight.
2. Describe briefly the Shrapnel shell for garrison guns.
3. Describe briefly the 15-second fuze.
4. Detail the weights, filled and empty, of projectiles for 64-pr. R. M. L. or 40-pr. R. B. L. guns.
5. What are the general rules to be observed in laying a gun.
6. What are the general rules for obtaining elevation for the gun used by your battery for practice?
7. What descriptions of gunpowder are used at gun practice?
8. Describe the operation of "raising a gun out of the trunnion holes."
9. What are the "general duties" of a detachment in shifting ordnance?
10. What implements are required for boring and fixing fuzes, and preparing shell?
11. State what you know about handspike, parbuckle rope, scotches, lever.
12. What are the duties of a N. C. officer in charge of a guard?

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 question not to be asked twice.

D. T. IRWIN, LIEUT.-COLONEL,

Inspector of Artillery.

COMPARATIVE EFFICIENCY RETURN OF FIELD BATTERIES.

BATTERY.	COMMANDING OFFICER.		INSPECTING OFFICER.												
	Full Marks.....	Clothing and Accoutrements.	Guns, Carriages and Equipment.	Horses.	Harness and Harnessing.	Marching Post.	Gun Drill.	Sword Drill.	Manœuvres.	Discipline and Camping.	Questions		One-fifth Score at Gun Practice.	TOTAL.	
											Officers.	N.C. Officers			
No.1 Battery, 1st Bde. S															
Hamilton.....	Major Nicoll#.....	10	13	8	13	13	27	8	13	12	34	59	72.2	282.2	Lt.-Colonel Irwin.
Montreal.....	" Van Wagner.....	11	15	10	15	15	27	8	14	9	36	64	56.8	280.8	"
Quebec.....	Lt.-Col. Stevenson.....	12	16	10	16	11	25	7	15	10	39	37	78.8	276.8	Lt.-Col. Montzambert
No. 2 By. 1st Bde.....	Major Lindsay.....	11	16	9	13	13	25	6	15	10	39	55	55	267	"
Durham.....	" Hood.....	11	13	9	14	13	20	3	9	12	34	53	68	258	Lt.-Colonel Irwin.
Woodstock.....	" McLean.....	10	12	12	14	13	20	6	12	8	25	59	54	245.5	Lt.-Colonel Cotton.
Welland Canal.....	" Dibblee.....	9	12	12	12	10	16	4	10	10	24	54	61.4	235.4	"
Kingston.....	" King, M. D.....	10	12	7	11	13	25	6	12	9	16	40	65	225	Lt.-Colonel Irwin.
Ottawa.....	" Drennan.....	11	16	10	16	14	14	4	12	10	37	37	39.4	220.4	Lt.-Colonel Cotton.
Gananoque.....	" Stewart.....	10	14	10	14	12	14	4	12	8	28	32	57.8	219.8	"
London.....	Lt.-Col. McKenzie.....	8	10	10	10	10	16	4	12	8	29	24	75.6	218.6	"
Winnipeg.....	" Peters.....	9	12	11	12	13	22	5	10	12	25	37	48.2	216.2	Lt.-Colonel Irwin.
Toronto.....	Major Coutlee.....	11	16	10	15	15	20	4	14	12	...	...	86	203	Lt.-Col. Villiers, D.A.G.
Newcastle.....	" Mead †.....	9	10	8	10	11	20	4	11	8	16	39	47.6	193.6	Lt.-Colonel Irwin.
	Lt.-Col. Call.....	10	12	10	8	14	16	4	10	10	....	18	62.2	174.2	Lt.-Colonel Cotton.

§ Winner of His Excellency's Cup.

* Lt.-Colonel Macdonald, Commanding Brigade.

† On sick leave. Captain Beaty, Commanding in Camp.

GARRISON BATTERIES—COMPARATIVE TABLE OF EFFICIENCY.

BATTERY.	OFFICER COMMANDING.	Clothing and Accountments.	Manual and Firing.	Company Drill.	Gun Drill, 10 each detachment.	Discipline and Interior Economy.	Questions		TOTAL.	INSPECTED BY	REMARKS.
							Officers.	Non-Com. Officers.			
	Full Marks.....	5	10	10	40	5	30	48			
No. 2 Battery, P.E.I. Brigade...	Captain Longworth...	5	7	8	39	4	24	48	135	Lt.-Colonel Irwin.	
1 " " N. B. " "	" Seeley.....	5	8	9	37	4	30	23	126	" "	
4 " " " " "	Lieut. Armstrong...	5	8	9	38	4	12	43	119	" "	
Cobourgh Battery	Captain Dumble.....	4	8	7	31	5	29	32	117	Lt.-Colonel Cotton.	
No. 1 Battery, Lewis.....	" Martineau.....	4	8	7	19	5	19	34	108	Lt.-Col. Montizambert.	
3 " " " " "	" Bou langer.....	4	8	7	15	4	22	39	104	" "	
3 " " " " "	" Crawford.....	4	7	6	14	4	27	39	101	Lt.-Colonel Irwin.	
1 " " " " "	Major Purcell.....	4	5	4	16	4	19	43	95	" "	
2 " " " " "	Captain Gordon.....	4	5	4	19	4	15	34	94	" "	
6 " " " " "	" Parker.....	4	5	5	20	4	15	39	93	" "	
3 " " " " "	" Maxwell.....	5	7	3	16	4	16	35	89	" "	
2 " " " " "	Lieut. Newman.....	4	5	4	13	4	16	40	86	" "	
2 " " " " "	Captain Vien.....	4	7	6	21	5	21	18	82	Lt.-Col. Montizambert.	
7 " " " " "	" Anderson.....	5	7	5	16	4	20	21	78	Lt.-Colonel Irwin.	
5 " " " " "	Lieut. Bland.....	5	5	5	11	4	8	30	68	" "	
4 " " " " "	Captain Scammell.....	3	5	3	17	4	8	23	58	" "	
5 " " " " "	" Botsford.....	3	6	4	18	4	10	18	54	" "	
1 " " " " "	" Morson (act'g).....	4	8	7	38	4	..	..	..	" "
3 " " " " "	" Owen.....	3	6	7	26	4	..	..	..	" "

SHIFTING ORDNANCE COMPETITIONS.

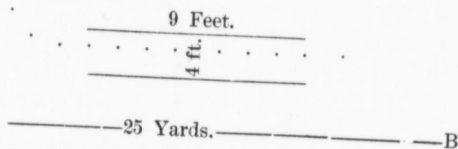
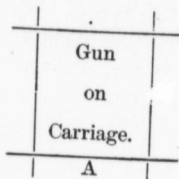
"A" and "B" Batteries Royal Schools of Artillery.

Conditions: A 58 cwt. gun on Common Standing Carriage, on the ground at A, to be dismounted down the rear by watered skids, taken on rollers, as shown by dotted line, through a passage 9 feet long and 4 feet wide, and mounted by parbuckling on the same carriage, placed at B. A to B equal 25 yards.

Carriage trucks not to be used for moving the gun.

The operation to be performed on the level Barrack Square at Kingston. Planks may be used under the rollers if required. Operations of mounting and dismounting to be in strict accordance with Manual, 1879.

Strength of detachment—1 Officer or N. C. Officer and 18 numbers.



Stores Allowed :

Dragropes, heavy	2	Parbuckle ropes, 4½"	2
Handspikes, 6 feet	8	Skids, fir, 14' x 8" x 8"	2
Lashings, 1½ in., 3 faths.	4	" oak, 3 x 9 x 6	2
Planks, fir, 6' x 3" x 12"	4	" " 3 x 6 x 6	2
Rollers, 6" x 3'	3	" " 3 x 4 x 4	3
Selvagees	2	Scotches of sorts	12
Mauls.	2	Water bucket, filled, and brush.	1

Carriage at A not to be moved until the gun is dismounted.

From one to fifteen seconds may be added to the time by the umpire for mistakes or irregularities in drill, or for improper use of stores.

The detachment performing the shift in the shortest total time to be declared the winners.

Note.—It is immaterial whether the gun be moved from A to B or *vice versa*, so long as the above conditions are complied with.

Signed,

D. T. IRWIN,

Lieut.-Colonel.

Umpire's Report.

From Major R. A. Rigg, R. A.

R. M. COLLEGE, 22nd October, 1888.

TO OFFICER COMDG. REG. C. A.

SIR,—I have the honor to make the following report of the "Shifting Ordnance Competition," between "A" and "B" Batteries, R. C. A., at which I acted as Umpire, agreeably to a request made through Col. Cotton, R. C. A.:—

Both teams did the work exceedingly well and in strict accordance with the conditions of the competition. "A" Battery performed the shift at twelve o'clock on the 13th inst., on the Barrack Square at Kingston, in six minutes forty-eight and one-fifth seconds, (6' 48 $\frac{1}{5}$ ".) "B" Battery performed the shift at eleven o'clock, on the Barrack Square at Quebec, on the 15th inst., in six minutes twenty-two and two-fifth seconds, (6' 22 $\frac{2}{5}$ "'), without counting a penalty of 3" inflicted for a man returning for a store without passing through the barrier.

Both teams lost some time in lowering the gun into the trunnion holes. "A" Battery from the gun slipping back after being in good position; "B" Battery from the gun being parbuckled too far and being too far back. The only difference in the methods employed was in mounting, when "A" Battery slewed the carriage on the platform and then moved it into line of fire, whereas "B" Battery parbuckled the gun on to the carriage in its final position.

I may remark the two following points in the conditions:—

1st. The imaginary platform at Kingston had the hurter in line with the front wall of the passage, whereas at Quebec the centre of the platform was in line with the centre of the passage.

2nd. The state of the ground at Kingston was very unfavorable and soft, the rollers barely rolling, while at Quebec the ground was by nature firm and hard.

I have the honor to be, Sir,

Your obedient servant,

(Signed), R. A. RIGG,

Major, R. A.

FIELD BATTERIES.

Circular issued 6th June, 1888.

Competition for Gzowski Cup.

To be competed for on parade during annual drill by the four sub-divisions 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.

Detachment to be in order of march. No. 1 and Drivers—stand to their horses.

1. Gunners and Drivers prepare to mount. Mount.
2. Forward at a trot. March. Left incline. Left-shoulders. Forward. Left-shoulders. Forward. Left incline. Halt.

The gun to be taken round two pickets, each 30 yards from the leaders, and 30 yards apart, and back again to original ground.

3. Action—Front.
4. Load with drill cartridge and fire one round with friction tube.
5. Cease firing. Rear limber up.
6. Gunners prepare to mount. Mount.
7. Forward at a trot. March. Gun to be taken straight through two pickets, 3 feet high, 40 yards distant, and 6 feet 8 inches apart—as soon as 15 yards clear then :—

8. Halt. Action rear.
 9. Load with a second drill cartridge and fire one round.
 10. Front limber up. Form the order of March. Halt.
- Cartridges to be taken separately from the limber box by No. 7.
- 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—5 seconds to be added for each.

Umpire's decision to be final. No appeal.

Prizes :

1st.—Gzowski Challenge Cup and	\$30.
2nd	\$20.
3rd	\$10.

Result of the Competition.

<i>Sub-division.</i>	<i>Actual Time.</i>	<i>Add for errors.</i>	<i>Corrected Time.</i>	<i>Average Time.</i>	<i>Umpire.</i>
Gananoque Battery.					
1	2.31	25	2.56		
2	2.28	25	2.53		
3	2.22	25	2.47		
4	2.23	5	2.28	2.46	Lieut.-Colonel Cotton.
Durham Battery.					
1	2.15	5	2.20		
2	2.18	15	2.33		
3	2.28	30	2.53		
4	2.53	30	3.23	2.48	Lieut.-Colonel Cotton.
Hamilton Battery.					
1	3.21	15	3.36		
2	2.43	15	2.58		
3	2.22	10	2.32		
4	2.25	20	2.45	2.58	Lieut.-Colonel Irwin.
Newcastle Battery.					
1	2.43	15	2.58		
2	2.33	20	2.53		
3	2.42	25	3.07		
4	2.52	10	3.02	3.00	Lieut.-Colonel Cotton.
Montreal Battery.					
1	2.55	10	3.05		
2	2.59	15	3.14		
3	3.06	10	3.16		
4	2.21	10	2.31	3.01	Lieut.-Colonel Montizambert.
Woodstock Battery.					
1	2.44	..	2.44		
2	3.03	10	3.13		
3	2.52	10	3.02		
4	2.49	20	3.09	3.02	Lieut.-Colonel Cotton.
Ottawa Battery.					
1	3.02	25	3.27		
2	2.43	30	3.13		
3	2.44	25	3.09		
4	2.12	25	2.37	3.06	Lieut.-Colonel Cotton.
No. 2 Battery, 1st Brigade.					
1	2.22	10	2.32		
2	2.35	10	2.45		
3	3.06	15	3.21		
4	4.06	15	4.21	3.15	Lieut.-Colonel Irwin.
Kingston Battery.					
1	3.07	25	3.32		
2	2.48	10	2.58		
3	2.50	35	3.25		
4	2.54	20	3.14	3.17	Lieut.-Colonel Cotton.

Orlea
of Sep
Mont

C
Officer
pende
their fi
can be

R
the pla
bucklin
clear of

Th
Manual

Sto
seconds
mistake

Sub-division.	Actual Time.	Add for errors.	Corrected Time.	Average Time.	Umpire.
No. 1 Battery, 1st Brigade.					
1	3.07	10	3.17		
2	3.37	5	3.42		
3	3.37	10	3.47		
4	2.54	5	2.59	3.26	Lieut.-Colonel Irwin.
Welland Canal Battery.					
1	4.37	10	4.47		
2	3.35	25	4.00		
3	3.05	10	3.15		
4	2.41	10	2.51	3.43	Lieut.-Colonel Irwin.
London Battery.					
1	2.48	15	3.03		
2	3.08	20	3.28		
3	2.46	5	2.51		
4	2.57	20	3.17	4.10	Lieut.-Colonel Irwin.
Toronto and Winnipeg—Did not compete.					
Quebec—Would have competed but there was no suitable ground available in Camp.					

Garrison Batteries.

Two competitions, "A" and "B" were carried out on the Island of Orleans, during the general firing competition for garrison batteries, in the month of September. Four detachments entered—one each from the following brigades: Montreal, New Brunswick, Halifax and P. E. Island.

Competition A.

Conditions: Open to one Officer or N. C. Officer as No. 1, and 18 N. C. Officers or Gunners, selected from competing detachments of brigades. Independent Batteries wishing to enter for this competition will be required to include their firing detachment in that for Shifting Ordnance, but no camp allowance can be paid to other than the firing detachments.

RULES: A 32-pounder 58 cwt. Gun on the ground, about 15 yards from the platform, to be mounted on a garrison standing carriage on the latter by parbuckling over the side, gun and carriage to be left in line of fire, run back, stores clear of platform.

The operation of mounting must be conducted in strict accordance with the Manual.

Stores as detailed in Manual, parbuckling, page 669. From two to five seconds may be added to the time, at the discretion of the umpire, for each mistake at drill or other irregularity.

Umpire's decision to be final.

Prizes will be awarded to the detachments performing the above operations in the shortest total time.

Competition B.

Was the reverse of the foregoing. Same detachment dismounted the gun and placed it in the same position from which it was originally taken for competition A. Operation of dismounting and transporting, "Go as you please."

Result, A Shift :

Halifax Brigade—actual time.....	4' 00 $\frac{1}{2}$ "
Added for errors.....	11
Corrected time.....	4' 11 $\frac{1}{2}$ "
Montreal Brigade—actual time.....	6' 01"
Add for errors.....	7
Corrected time.....	6' 08"
P. E. Island Brigade—actual time.....	7' 08"
New Brunswick Brigade—actual time.....	9' 46"
Add for errors.....	4
Corrected time.....	9' 50"

Result, B Shift :

Halifax Brigade—actual time.....	3' 47"
Montreal Brigade—actual time.....	8' 14"
P. E. Island Brigade—actual time.....	3' 58 $\frac{3}{4}$ "
New Brunswick Brigade—actual time.....	9' 50"
Add.....	5
Corrected time.....	9' 55"

Umpires—Lieut.-Colonel Irwin, Inspector of Artillery.

" " Montizambert, Assistant Inspector of Artillery.

" " Cotton, " "

unp
Brig
Batt.
Qr.-M
Serge
" "
Corpo
Bomb
" "
Gunn
" "
" "
" "
" "
Corpora
Bombard
" "
Sergeant
Corporal
Bombard
" "
Corporal
Sergeant
Gunner
" "
" "
" "
" "
Batt. Sergt.
Gunner
" "
" "

Voluntary Drills.

The undermentioned N. C. officers and men performed the number of unpaid drills recorded opposite their names during the year 1888.

No. 1 BATTERY, 1st BRIGADE, FIELD ARTILLERY.

Brigade Sgt.-Maj.	W. Young	30	Gunner	A. Gibson	40
Batt.	" W. H. Snider . .	35	"	J. Sanderson . .	40
Qr.-Master	Sergt. J. Ogg	30	"	A. Tindall	29
Sergeant	E. Compton	36	Corporal	W. Sallows	40
"	A. Cross	33	Bombardier	J. Hanley	30
Corporal	J. Crowe	31	Gunner	T. Currie	40
Bombardier	T. Watson	33	"	G. H. Connor . .	40
"	A. Gibson	40	"	J. Etherington . .	31
Gunner	R. H. Orton	32	Sergeant	J. Ritchie	32
"	G. Lawrence	40	Corporal	A. Hinds	33
"	C. W. Smith	30	Gunner	G. F. Burrows . .	39
"	T. Robinson	29	Trumpeter	P. I. O'Neill . . .	29
"	A. McKechnie	28	"	E. Simmons	36
"	W. Hodgson	25	"	W. Shaw	30
Corporal	J. Gilchrist	38	Bombardier	J. Boulton	39
Bombardier	W. H. Frew	40	Gunner	J. Locker	30
"	H. Lyons	30	Sergeant	C. Armstrong . . .	28

Total 1147

No. 2 BATTERY,

Sergeant	Price	33	Corporal	Creelman	30
Corporal	Marsack	33	Gunner	Bate	29
Bombardier	Marsack	33	"	Cathcart	28
"	Tuck	33	"	Patterson, J. . . .	28
Corporal	Serson	31	"	Calvert	28
Sergeant	Austin	27	"	Wood	28
Gunner	Soule	30	"	Patterson, B. E. . .	28
"	Mackinson	30	"	Harcourt	27
"	Horracks	30	"	Parching	24
"	Campbell	30	"	White	26
"	Hagell	27	"	Watson	27
Batt. Sergt.-Maj.	Watson	25	Sergeant	Williamson	25
Gunner	Grant	27	Gunner	Field	26
"	Hutt	26	"	Stagg	28
"	Bertram	27	"	Seymour	26
"	Webster	30	"	Gulling	30

Total 910

HALIFAX BRIGADE GARRISON ARTILLERY.

No. 1 Battery.			No. 5 Battery.		
Corporal	Jackson	72	Batt. Sgt. Major	Kiddie	90
Bombardier	McKinlay	40	Sergeant	Robinson	83
"	Purcell	31	Corporal	Theakston	57
B. S. Major	Melvin	27	"	Merlin	53
Total		170	Sergeant	Thornton	49
			Gunner	Theakston	26
No. 2 Battery.			Total		
Corporal	Bayers	108	No. 6 Battery.		
"	Lebson	107	Corporal	Snow	88
"	Mackey	43	Sergeant	Marshall	82
Bombardier	Causey	37	Batt. Sgt. Major	Spencer	70
"	Marshall	35	Gunner	Brennan	67
Sergeant	Davies	29	Corporal	Howill	60
Bombardier	Broadhurst . . .	27	Total		
Total		386	No. 7 Battery.		
No. 3 Battery.			Corporal	Doane	115
Corporal	Peters	103	Sergeant	Carr	57
Sergeant	Gordon	99	"	McLeod	52
B. S. Major	Case	39	Corporal	Walsh	47
Gunner	Symonds	29	Bombardier	Siggins	29
"	Dullis	29	Total		
Total		299	Staff.		
No. 4 Battery.			Brigade-Sgt. Maj. Gibbs	228	
Sergeant	Gamble	28	Ord.-Room Sgt. Mowbray	62	
Bombardier	Schwartz	26	Total		
Total		54			

PRINCE EDWARD ISLAND BRIGADE.

No. 1 Battery.					
Sergeant	R. Mathewson	41	Gunner	Henry Hooper	25
"	James Offer	14	"	R. Finlayson	15
"	Wm. Connolly	24	"	John Proud	44
Gunner	Rufus McDonald	33	"	M. Waugh	20
"	Ronald McDonald	26	"	Wm. Scott	14
"	Geo. Scantlebury	14	"	Geo. Gillespie	42
"	Wm. Rodd	30	"	Wm. Heartz	15
"	John Carpenter	46	"	Jno. McKinnon	20
"	Sam. Turner	12	"	Jas. A. Warren	14
"	Robt. Steele	8			
"	C. Murley	38	Carried forward		

PRINCE EDWARD ISLAND BRIGADE—(Continued).

<i>Brought forward</i>		495	Corporal Prouse.....	23
Gunner	Jno. Gillis.....	18	" Coffin.....	39
"	Jno. Garnum.....	3	Gunner McLaren.....	10
"	Alex. McCannell.....	13	" Quigley.....	25
"	Thos. Essory.....	13	" Tenturer.....	12
"	Everet Large.....	23	" Carr.....	20
"	Chester Acorn.....	24	" Peake.....	14
"	Jos. Ward.....	28	" DesBrisay.....	16
"	Wm. Breheant.....	24	" Webster.....	18
"	Jno. McLeod.....	25	" F. Cameron.....	13
"	J. R. Cooke.....	25	" F. Prowse.....	21
"	James McLeod.....	25	" Johnston.....	13
"	Michael McCarron.....	25	" V. Beer.....	25
"	Alfred McAree.....	25	" R. Beer.....	18
"	Albert Sabine.....	14	" Bruce.....	12
"	Gilber Gallant.....	18	" Brown.....	26
Trumpr.	James Mason.....	37	" D. Cameron.....	13
Total.....		835	" F. McDonald.....	16
<i>No. 2 Battery.</i>			" McLeod.....	13
Captain	J. A. Longworth.....	42	" Harper.....	12
Lieut.	Moore.....	24	" Lane.....	17
"	Bell.....	10	" Long.....	22
Sergeant	Dover.....	54	" Dorsey.....	10
"	Down.....	16	" Hall.....	12
"	Alley.....	45	Total.....	611

Dominion Artillery Association in account

RECEIPTS.

1888.

Mar. 7.

Balance in Bank of Montreal Ottawa	\$ 325 98
His Excellency the Marquis of Lansdowne	75 00
General Laurie, M. P.	2 00
Lt. Colonel Otter, D. A. G.	2 00
Lieut L. Hombray Irving	2 00
Captain Bliss, Ottawa Field Battery 1887	2 00
Lieut. Bliss, " " "	2 00
Lt. Col. Cotton, Asst. I. of A.	2 00
" Rowley, Late Yarmouth G. A.	2 00
A. Battery, R. S. A.	16 00
Captain Bliss, Ottawa F. By. 1888	2 00
" M. W. Botsford, Halifax Bde, G. A.	2 00
Lt. Colonel Call, Newcastle Fd. By.	2 00
New Brunswick Brigade, Affiliation 5 Batteries	30 00
Surgeon J. W. Daniel, N. B. Brigade	30 00
Montreal Brigade, G. A., Affiliation 6 Batteries	36 00
Woodstock Field Battery "	10 00
Winnipeg " "	10 00
P. E. Island Brigade " 3 Batteries	18 00
Halifax " " 7 "	42 00
Newcastle Field Battery "	10 00
Lt. Col. Call, for 1889	2 00
Digby Battery "	6 00
Yarmouth " "	6 00
No 2 Battery, Quebec "	6 00
1 " Levis "	6 00
2 " "	6 00
Montreal Field Battery "	10 00
Captain Jolly, Yarmouth G. A	2 00
Lt. Col. A. A. Stevenson, Montreal Fd. By	2 00
Quebec Field Battery, Affiliation	10 00
" B " Battery, R. S. A.	16 00
Annual grant Dominion Govt.	900 00
Special " " "	2000 00
Ontario Artillery Association, Affiliation	158 50
Lt. Colonel Moore, P. E. I. Bde	2 00
Surgeon Jenkins, "	2 00
Captain Morsan, "	2 00
" Longworth, "	2 00
" Davison, "	2 00
Lt. Colonel Irving, Bde Major	2 00
Captain Rutherford, B. Battery	2 00
Carried forward	\$3757 48

Re
P.
Ad
C.
G.
A.
Cap
Mo
Hal
New
P. E
No.
No.
Digh
Yarm
No. 2
Cobo
1st B
Expre
W. W
Milit
Trans
Freigh
Genes
Teleph
Camp
Expres
Pay of
Surgeon
Pay of
F. Noel
F. Noel
Halifax
New Br
Montrea
P.E. Isl
Digby B
No. 1 B
No. 2 B
Yarmout
Cobourg
Welland

with the Treasurer. for the year 1888.

DISBURSEMENTS.

Reduced fare Certificates.....	\$	1 00
P. E. Island Bde., Voluntary drills, 1887.....		30 00
Advertising Annual Meeting.....		2 00
C. Medlow, Engrossing Address.....		12 00
G. Cox, Engraving Cups.....		5 50
A. S. Woodburn, printing, 1887.....		104 00
Capt. Seeley, Prize Officers' Comp., 1887.....		10 00
Montreal Brigade, G. A. Allowance.....		110 25
Halifax " " ".....		108 00
New Bruns'k " " ".....		93 75
P. E. Island " " ".....		144 00
No. 2 B'y., Levis " " ".....		6 75
No. 1 B'y., Levis " " ".....		6 00
Digby Battery " " ".....		48 00
Yarmouth " " ".....		48 00
No. 2 B'y., Quebec " " ".....		6 75
Cobourg Battery " " ".....		36 00
1st Brigade, Field Artillery, Allowance.....		6 00
Express charges.....		11 28
W. White, Badges, Field Glass, Whips, etc.....		294 60
Militia Gazette, Advertising Meeting.....		2 50
Transport of men to Island of Orleans, 1887.....		5 96
Freight, Telephone Wire.....		1 02
Genest, beef boots for range party.....		6 00
Telephone Service, Quebec.....		41 00
Camp deficiencies.....		8 00
Express Wagon, Quebec.....		1 75
Pay of Staff, Quebec.....		133 00
Surgeon Turcot.....		21 90
Pay of working party, Quebec.....		103 00
F. Noel, lumber for targets, hire of boats, etc.....		100 88
F. Noel, straw.....		12 00
Halifax Brigade, G. A. Prizes.....		310 50
New Bruns'k " " ".....		70 00
Montreal " " ".....		31 00
P.E. Island " " ".....		61 00
Digby Battery " " ".....		6 00
No. 1 B'y Levis " " ".....		77 00
No. 2 B'y Quebec " " ".....		4 00
Yarmouth Battery " " ".....		4 00
Cobourg " " ".....		12 50
Welland Canal F'd Battery " " ".....		10 00
Carried forward.....	\$	2106 89

DOMINION ARTILLERY ASSOCIATION IN ACCOUNT

RECEIPTS—(Continued).

Brought forward \$3757 48

\$3757 48

WITH THE TREASURER, FOR THE YEAR 1888.

DISBURSEMENTS—(Continued).

<i>Brought forward</i>		
Montreal Field Battery, Prizes		\$2106 89
Newcastle " "		36 00
Toronto " "		8 00
Ottawa " "		4 00
Gananoque " "		7 00
Winnipeg " "		57 00
Hamilton " "		54 00
1st Brigade, Field Artillery "		38 00
Durham Field Battery "		36 00
Woodstock " "		20 00
Quebec " "		5 00
"A" Battery, R.S.A. "		19 00
"B" " " "		6 00
Halifax Brigade, G.A., prizes Local Head Quarters		41 00
New Brunswick Brigade, G.A., prizes Local Head Quarters		24 00
Co-Operative Society, London, on Account Silver Cups		41 00
Salary of Secretary		100 00
Telegrams, etc.		200 00
A. S. Woodburn, printing circulars, 1888.		50
Rl. Military College prize		12 50
Balance in Bank of Montreal, January 28th, 1889.		25 00
		916 59
		<u>\$3,757 48</u>

J. B. DONALDSON, CAPT.,

Secretary-Treasurer.

Examined and found correct,

Signed J. MAC HERSON, LT.-COL., }
F. E. KNIGHT, } Auditors.

OTTAWA, 30th January, 1889.