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DEPARTMENT

0A 600 CZI A5 1894

OF

MILITIA AND DEFENCE

OF THE

DOMINION OF CANADA

REPORT

FOR THE YEAR ENDED 30th JUNE, 1894

PRINTED BY ORDER OF PARLIAMENT



OTTAWA

PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST EXCELLENT MAJESTY

1895

[No. 19-1895.] Price 10 cents.

To His Excellency the Right Honourable SIR John Campbell Hamilton-Gordon, Earl of Aberdeen; Viscount Formartine, Baron Haddo, Methlic, Tarves and Kellie, in the Peerage of Scotland; Viscount Gordon of Aberdeen, County of Aberdeen, in the Peerage of the United Kingdom; Baronet of Nova Scotia, etc., etc., Governor General of Canada.

MY LORD,-

I have the honour to forward to Your Excellency the accompanying Report of the Department of Militia and Defence of the Dominion of Canada for the year ended 30th June, 1894, which is respectfully submitted.

I have the honour to be,

My Lord,

Your Excellency's most obedient servant,

J. C. PATTERSON,

Minister of Militia and Defence.

DEPARTMENT OF MILITIA AND DEFENCE, OTTAWA, 21st March, 1895.

CONTENTS OF THE REPORT

OF THE

DEPARTMENT OF MILITIA AND DEFENCE

Year ended 30th June, 1894.

-:0:---

PART 1.	Dean
	PAGE.
REPORT OF THE DEPUTY MINISTER OF MILITIA AND DEFENCE	vii & viii
APPENDIX No. 1 TO REPORT OF THE DEPUTY MINISTER:-	
Report of the Director of Stores. Clothing and Military Stores. Ammunition. Ordnance. Arms. Harness and Saddlery. Boards of Survey. Military Properties. Deposit Receipts. General Remarks. A.—Small arm ammunition issued for practice. B.— do do on repayment. C.—Gunpowder, etc., used for practice and salutes.	1 2 2 2 2 2 3 3 3 3 3 4 4 5 5 5
D.—Ordnance in possession of Militia and in Store charge. Appendix No. 2 to Report of the Deputy Minister:—	. 6
ENGINEER BRANCH—REPORT OF THE ACTING ARCHITECT	
REPORT OF THE SUPERINTENDENT OF THE GOVERNMENT CARTRIDGE FACTORY	17
Report of the General Officer Commanding.	. 1
Schools of Military Instruction. Active Militia. Small arms.	iv iv
Rifle ranges Clothing and Equipment Barracks	iv iv
Royal Military College	. V
A PPENDICES TO REPORT OF THE GENERAL OFFICER COMMANDING:	WENT.
A.—Permanent Regiments. B.—Courts-martial, convictions by—(Report).	. 1

Ri

EPORT OF THE GENERAL OFFICER COMMANDING—Continued:—	PAGE.
C.—Certificates granted	3
D.—Numbers of Officers, NonCom. Officers and men trained in district camps	4
E.— do do trained at local headquarters	. 5
F.— do present at inspection	6
G.—District Camps, strength of Units	7-8
H— do Musketry Return	9
I.—Rifle Ranges—Return of	10
J.—Camp of instructions (Lévis)—Report	18
K.— do (Laprairie)—Field Artillery	21
L.—Report of the Inspector of Artillery	28
M.—Report of the Commandant of the Royal Military College	34
N.—Inspection Returns of the Active Militia	40

REPORT

OF THE

DEPUTY MINISTER

DEPARTMENT OF MILITIA AND DEFENCE,

OTTAWA, 6th March, 1895.

The time having arrived for the usual reports to be prepared for Parliament, I have the honour to lay before you the following documents which relate in detail the operations carried on in the different branches of the service, during the last fiscal year ending on the 30th June, 1894.

THE FORCE.

The satisfaction with which the General Officer commanding the Militia speaks of the Force and its progress towards increased efficiency, the value of our Schools of Military Instruction, the success of our Infantry and Artillery Camps, and the praise bestowed by him on the Royal Military College and the admirable topographical work performed by the graduates are pleasing features of his report.

CLOTHING, MILITARY STORES, &C.

The report of the Director of Stores gives a detail of all clothing and Military stores issued to the Force during the year. It also gives a complete return of all Ordnance in possession of the Force and in Dominion store charge as well as small arms, harness and saddlery in charge. A return is also given of all monies collected for rents, ammunition, gunpowder, friction tubes and all other stores issued on repayment during the year.

MAINTENANCE AND REPAIRS.

All works performed during the same period and charged to the care and maintenance of public properties are given in detail in the report of the Acting Architect.

GOVERNMENT CARTRIDGE FACTORY.

It will be seen by the report of the Superintendent of the Government Cartridge Factory, that the Factory has been for a time during the year in a state of transition the effect of which will, I have no doubt, be that the new ammunition 303 will be shortly produced and of as good a quality as the Martini-Henry or the Snider ammunition which have heretofore been manufactured.

In presenting to you these papers, I have much pleasure in testifying to the zeal and alacrity with which all employees in the Department have performed their respective duties.

FINANCIAL STATEMENT.

The following are the Financial Statements of the Department of Militia and Defence for the Fiscal Year ended 30th June, 1894.

Militia Expenditure, 1893-94.	\$	cts
Pay of Major General and Adjutant General	6,600	00
Pay of staff, permanent corps and active militia, including allowances	486,261	80
Salaries and wages of civic employees	50,000	00
Military properties, works and buildings	90,982	
Warlike and other stores	60,373	46
Nothing and negessaries	73,982	
Provisions supplies and remounts	172,665	68
Prengnort and freight.	68,391	32
Frants in aid of Artillery and Rifle Associations and Bands	34,150	00
Miscellaneous and unforeseen contingencies	14,986	56
Royal Military College of Canada	68,022	22
Dominion Cartridge Factory	35,076	56
Military Institute, Toronto—Government grant	100	00
Purchase of land for permanent camp, Sussex, N.B	7,000	00
Dominion Artillery Association—Government grant	900	00
Instruction to Officers of the Active Militia staff who are placed on the retired list	20,473	49
Provision for purchase of modern fire arms	16,156	35
Defence of Fearingalt BC:		
Dominion contribution towards capital expenditure for works and buildings	53,034	97
Pay of a detachment of Royal Marine Artillery or Royal Engineers	25,359	46
Total	1,284,517	17
Pensions.		
No.		
Rebellion, 1885	20,081	40
Fenian Raids, &c	3,038	00
Veterans, war of 1812.	210	
Upper Canada Militia, war of 1812	2,080	00
opper Canada Sinton, was or 2022		
Total	25,409	40
Revenue, 1893-94.	80	02
Casual revenue		
Casual revenue		
Casual revenue \$9,500 12 Ammunition \$9,500 12 Military stores and clothing 4,162 64		
Casual revenue \$9,500 12 Ammunition 4,162 64 Military stores and clothing. 841 58		
Casual revenue \$9,500 12 Ammunition 4,162 64 Military stores and clothing 841 58	20,112	73
Casual revenue \$9,500 12 Ammunition 4,162 64 Military stores and clothing. 841 58	20,112 22,417	
Casual revenue \$9,500 12 Ammunition \$1,62 64 Military stores and clothing \$4,162 64 Miscellaneous \$41 58 Rents 5,608 39		36

I have the honour to be, sir, Your obedient servant,

> C. EUG. PANET, Colonel, Deputy Minister of Militia and Defence.

APPENDIX No. 1

TO

REPORT OF THE DEPUTY MINISTER

OF

MILITIA AND DEFENCE.

REPORT OF THE DIRECTOR OF STORES, &c.

STORE BRANCH, OTTAWA, 1st December, 1894.

SIR,—I have the honour to submit the following report regarding the Military Stores and Properties under my charge during the year which ended on the 30th June, 1894.

CLOTHING AND MILITARY STORES.

Canadian manufacturers supplied under contract all the clothing and necessaries received for the year. These supplies were carefully inspected by the departmental inspectors and reported to be fully up to the standard fixed by the department.

The issues of clothing for the year were as follows: Cloth, serge and tweed tunics, 9,602; cloth, serge and tweed trousers, 8,651 pairs; cloth riding breeches, 735 pairs; forage caps, 5,686; great coats, 3,906, as shown by the following detailed return:—

ISSUES.

Tunics, Cloth.	Tunics, Serge.	Trousers, Cloth, Pairs.	Trousers, Serge, Prs.	Forage Caps. Great Coat	Riding Ha'fax Tweed Clothing.
379 Cavalry. 1,511 Artillery. Engineers. 4,325 Infantry. 1,096 Rifles.	333 Cavalry. 637 Artillery. 1,030 Infantry. 64 Rifles.	191 Cavalry. 351 Artillery. 492 Infantry.	1,669 Artillery. 4,753 Infantry. 968 Riffes.	315 Cavalry. 1,875 Artillery. 3,469 Infantry. 27 Rifles. 337 Cavalry. 703 Artillery. 2,866 Infantry & Prince of the control of the contr	

AMMUNITION.

Free Issues for Practice.

The number of rounds of ammunition issued free to Militia corps for practice during the year was somewhat less than in the preceding one, having been 644,150 rounds of ball and 103,510 rounds of blank, against 684,250 rounds ball and 134,760 rounds blank in 1892-93 (Vide Appendix A).

Issues on Repayment.

The issues of ammunition on repayment for the same period were 822,249 rounds, against 693,650 rounds in the previous year, or nearly 130,000 rounds more. A feature of this difference was a decrease of 106,784 rounds in the demand for Snider ball, while there was an increase of 218,221 rounds of Martini-Henry ball; of the latter the issues on repayment last year approached three times those of the year before.

The conclusion to be drawn from these figures is that practice with the Martini-Henry is becoming more general than formerly, irrespective of the impetus given by the Dominion Rifle Association to shooting with that rifle, through its deciding that it shall be exclusively used in competitive firing in the Dominion Rifle Association

matches.

The repayment issues were distributed as follows: Snider ball, 447,276 rounds, and blank, 20,000 rounds; Martini-Henry ball, 352,361 rounds; Colts' revolver, 262 rounds; Magazine Lee-Metford, 1,250 rounds; Peabody blank, 100 rounds; and aiming tubes, 1,000, all issued to Militia Corps and Rifle Associations for target practice and prize competitions.

The value of this ammunition, including the price of the powder for the noon gun at Ottawa, amounted to \$9,560.50, against \$10,734.01 for the preceding year, a difference of \$1,173.58, which was mainly caused by the reduction, made early in 1893, of the prices charged for Snider ball and Martini-Henry ball ammunition. (Vide Appendix B.)

The regular issues of powder, shot and shell for annual practice and salutes were made to the Field and Garrison Batteries; the issues of gunpowder for these purposes show a considerable falling off—from 21,346 pounds in 1892-93 to 14,254 pounds last year, or 7,092 pounds less. (Vide Appendix C.)

The cartridge factory at Quebec has continued to supply all the demands made upon it for the small arm service, and for the Artillery as well; the manufacture for

both has given satisfaction.

ORDNANCE.

A return showing the number and description of guns in charge at the various stations is given in Appendix D.

ARMS.

The armourers in those districts where such are employed have been fully occupied in attending to the repairs of arms sent into store from time to time.

HARNESS AND SADDLERY.

In his report last year (p. 58), the Inspector of Artillery stated that no provision had been made up to then for general repairs that could only be effected in store; that in consequence whole sets of part worn harness had been from time to time returned into store as unserviceable and replaced by complete new issues, and that several complete sets of such part worn harness were then in store that could be made available for re-issue.

Since that report was written a repairing shop has been established at Toronto and a competent saddler and harness maker employed.

This step has so far proved of great service, much necessary repairing having

already been effected both promptly and economically.

The results of this move warrant me in recommending that a second repairing shop be provided at another of the principal stations for the purpose of repairing har-

ness, saddles, accourrements, &c., and making any new parts that may be required in carrying out such repairs.

In this connection, I may state that a number of saddles is now being manufactured for the department by a Canadian firm, and I have every reason to hope these will

prove satisfactory both as to material and workmanship.

The contractors have evinced a most praiseworthy desire to meet the wish of the department that the saddles shall be, if possible, in every respect up to the standard English one adopted as a pattern. When these saddles have passed the usual inspection it is intended to test a number of them alongside those of Imperial make now in use in Canada.

BOARDS OF SURVEY.

Boards of Survey have been held in the different Military Districts as required by Regulations and Orders; the reports show that all the stores in charge of the Super-intendents of Stores were duly inspected.

Condemned and obsolete stores were (where recommended by the board) disposed of at sale by public auction in the usual way, and the proceeds of such sales were duly placed to the credit of the Receiver General by deposit receipts.

MILITARY PROPERTIES.

The Officers in charge of military properties in the various districts report them to be in a satisfactory condition.

In former reports I directed attention to the urgent necessity which still exists of having suitable buildings erected for the accommodation of the Military Stores at Toronto, Halifax, N. S., and Victoria, B. C. It is hoped that early steps may be taken in this direction.

The following statement shows the number of tenants and the amounts received on account of rentals of military properties held under lease for the year ending 30th June, 1894; the gross amount received, \$5,608.39, exceeded that for the year 1892-93 by \$1,091.15:—

TENANTS and Rental from 1st July, 1893, to 30th June, 1894.

Number of Tenants. Station.	Rents Received	Remarks.
1Chatham	132 66 100 00 353 92 2 00 531 25 84 00 137 00 3,384 95 643 20 176 25 57 29 4 87	

DEPOSIT RECEIPTS.

As will be seen below, the amounts received during the year by the Stores Branch on account of ammunition and stores issued on repayment and for rents of military properties was \$20,109.73.

Ammunition.	Military Stores and Clothing.	Miscellaneous.	Rents.	Total amounts.
\$ cts.	\$ cts.	\$ cts.	\$ ets.	8 ets.
9,560 50	4,211 40		5,608 39	20,109 73

GENERAL REMARKS.

The work in connection with the purchase, receipt and inspection of the clothing and stores required by the department, and with the claims therefor, has been steadily

increasing till it has now grown to considerable dimensions.

The number of issues, too, has become larger, many more requisitions being received for action in the Store Branch than formerly. Notwithstanding this, it is satisfactory to report that the system under which the receipts into and issues from

store are made has been found to work so well that not a single article is received or issued without being accounted for.

The control and care of stores bring with them much responsibility, and in all the duties pertaining thereto I have had the earnest and hearty assistance of the employees in the branch and the Superintendents of Stores at the different out stations.

I have the honour to be, sir,

Your most obedient servant,

J. MACPHERSON, Lieut.-Colonel, Director of Stores and Keeper of Militia Properties.

The Deputy Minister of Militia and Defence, Ottawa.

[A.] SMALL ARM AMMUNITION issued for Practice from 1st July, 1893, to 30th June, 1894.

	Rou	NDS.
Districts.	Ball.	Blank.
Military District No. 1, London do 2, Toronto. do 3, Kingston. do 4, Ottawa. do 5-6, Montreal. do 7, Quebec. do 8, St. John, N.B., and Charlottetown, P. E. I. do 9, Halifax, N.S. do 10, Winnipeg. do 11, Victoria, B.C. Issued to Militia Corps for Rifle League Competitions.	37,440 72,700 28,220 22,420 76,660 149,360 15,880 69,530 18,940 21,000 132,000	14,000 11,300 8,250 4,520 7,366 26,000 14,160 7,420 10,500
Total	644,150	103,51

J. MACPHERSON, Lt.-Colonel, Director of Stores and Keeper of Militia Properties.

[B.] SMALL ARM AMMUNITION issued on repayment from 1st July, 1893, to 30th June, 1894.

	Military Districts.	Rounds.	Amount.
Military Dist do do do do do do	rict No. 1, London	42,020 213,918 22,850 139,065 68,300 53,880 121,051 75,920	\$ cts. 429 00 2,234 91 255 00 2,121 60 744 30 487 80 1,459 11 902 36
do do	10, Winnipeg. 11, Victoria, B.C. Total.	38,290 46,955 822,249	393 67 532 75 9,560 50
	Snider—Ball Blank. Martini-Henry—Ball Revolver—Colt's. Aiming tube. Magazine Riffe. Peabody—Blank.	262	

J. MACPHERSON, Lt.-Colonel, Director of Stores and Keeper of Militia Properties.

[C.] Return of Gunpowder and Friction Tubes issued for Practice and Salutes from 1st July, 1893, to 30th June, 1894.

Military Districts.	Stations.	Corps.	Gun- powder.	Friction Tubes.
No. 1 No. 2	Toronto	Field Batteries of Artillery	Lbs. 654	No. 900
No. 4 Nos. 5 & 6 No. 7	Ottawa	Field and Garrison Artillery, Royal Military College and Royal Canadian Artillery	$1,257\frac{1}{4}$ 455 568 $5,091\frac{1}{2}$	406 350
No. 9		do do do Field and Garrison Artillery Winnipeg Field Battery and Salutes	$768\frac{1}{2} \\ 4,749\frac{1}{4} \\ 711$	
		Total	$14,254\frac{1}{2}$	7,789

J. MACPHERSON, Lt.-Colonel, Director of Stores and Keeper of Militia Properties.

[D.]—RETURN of Ordnance in possession of the Militia

		The same of the sa									Gu	NS-	—I	IE	LD,	S	IEG	BE.	AN	D (GA	RRI	ISO	N.	
		The Parket]	Rif	fled														Sm	100	th	
		- CHEST STREET, STREET		W	rou	gh	t in	ron			i	Cast	n		Br	on	ze.								
4.5	STATIONS.	Breech- loading. Muzzle-loading.																10 mm	To-br.	24	4-p	r.			
Military District.		PETER NO. T. S. C.										8-pr.	68-pr.						34 cwt.						
Militar		6-pr.	12-pr.	20-pr.	40-pr.	7-pr.	9-pr.	64-pr.	7-inch.	9-inch.	64-32-pr	7-in., 6	8-in., 6	7-pr.	3-pr.	6-pr.	9-pr.	12-pr.	12-pr., §	38 cwt.	42 cwt.	20 cwt.	48 cwt.	50 cwt.	
1	London No. 1 Co. Rl. Sch. of Infantry		1														2								
	Store charge		1:		00	• •	4								•			•	•						
	Charge of city																								
	Goderich Sarnia		100						4 .									2.0							
	Stratford		1																						
	Kincardine																								
	Walkerton Wingham.	1				2.0																		1	
2	Toronto Drill Shed				10				•									• •						2	
1	Field Lattery						4			-	_			_				-	_						
	Charge of City Store Charge. York Pioneers.		2					::						2	i		8			3					
	Stanley Barracks		* *		**					•	•		•					•							
	Hamilton Field Battery						4																		
	Charge of City									-								_				22		4	
	Welland Canal Field Battery Lundy's Lane									_	_		_						9						
3	Muskoka Port Hope, Durham Field Battery						4										1					::			
	Cobourg Garrison Battery																	•							
1	Kingston Field Battery.	•				•	4				• •		• •					•							
	Royal Canadian Artillery Store Charge						6																	iò	
-	Charge of City																								
1	Tête de Pont Barracks Fort Henry Fort Frederick.					1																		12	
	35 40 1011 11111	400				-		* *		200	4.0														
	Shoal do													2.6											
1	East Dranch do									_			_					_				7			
	West do do Cedar Island do Macdonald Park Royal Military College Gananoque Field Battery			!																					
4	Royal Military College	6		1			2				2						**								
	Brockville, Charge of City						*			**			•										1		
	Ottawa Field Battery						4																		
_		-		-		R			1	_				1		1		-		-					

and in Dominion Store charge, on 30th June, 1894.

											CAR	RON ST-I	ADE	S.	Ho	WI	TZI	ER	N.C.	IOF	TA -IB	RS,				
Во	ore.									T. Management T.					Br'nze	Dr mac	Cast-	iron.		10	-in		CONTRACTOR OF THE PARTY OF THE	AND DESCRIPTION OF THE PERSON		
Ca	ıst-	iron								-					-			-		1	-		-			
-		32-	pr.				8	-in	1.	Designation of the last													-	e Guns.		Remarks,
32 cwt.	42 cwt.	45 cwt.	56 cwt.	58 cwt.	63 cwt.	56-pr.	1 5d out	or cwe.	65 cwt.	68-pr., 95 cwt.	18-pr.	24-pr.	32-pr.	68-pr.	12-pr.	24-pr.	54-inch.	8-inch.	8-inch., 9 cwt.	16 cwt.	18 cwt.	47 or 52 cwt.	13-inch., 36 cwt.	Gatling Machine	Russian Guns.	
			22 22 22 22 22 22 22 22 22 22 22 22 22						3						2						· · · · · · · · · · · · · · · · · · ·				111	Col. Gzowski, 1 to 32.
				31.33										3				4								il 1 4-pr., bronze, Glengarry. do Perth. do Military Museum [Ottawa.

[D.]—RETURN of Ordnance in possession of the Militia

STATIONS. Rifled. Smooth			1		-				-		_	Gr	NS-	_1	CIE C	LD	9	TEC	TE.	AN	D	GA	RR	TSC	- N	
Wrought-iron.			1	_				Rif	flec	1.	_				Smooth											
Stations			-		W	rou	gh	t-i	ron	1.			iro	n	-	Bi	ron	ze.								
Ottawa, Store Charge Nepean Point 1 6	ند	STATIONS.							M	uzz	zle	-					-				19 nm	10-pr.	2	1-p	r.	
Ottawa, Store Charge	Military District		6-pr.	12-pr.	20-pr.	40-pr.	7-pr.	9-pr.	64-pr.	7-inch.	9-inch.	64-32-pr.	7-inch., 68-pr.	8-inch , 68-pr.	7-pr.	3-pr.	6-pr.	9-pr.	34	12-pr.	38 cwt.	42 cwt.	20 cwt.	48 cwt.	50 cwt.	
Nepean Point		Ottawa, Store Charge														2	2							-	_	
Drill Hall 1		Nepean Point	::									l													6	
Cote St. Luc Charge of City. Store Charge 2 3 19	5&6	Montreal Field Battery						4			- 4															
Granby, Shefford Field Battery 4		Côte St. Lac										_		-	_											
St. Johns. 1 Quebec Field Battery. 4		Store Unarge			200														2	::	3				<u>i</u> 9	
7 Quebec Field Battery. 4 3 1 1 7																			_	_				i		
King's Bastion	7	Quebec Field Battery	•					4									- 1			-						
Richmond do		King's Bastion																						7		
Dalhousie do		Richmond do					1																	i		
Parade Ground Field Battery Field Batter		70 11 1					1														• •		i			
City lines :		Parade Ground				3						2														
St. Louis Curtain. do Bastion. Ursuline do St. John's do Tower No. 1. do 2. do 3. Drill Shed Numery Battery No. 1. do do 2. do 3. Drill Shed Numery Battery No. 1. do do 2. do do 3. Drill Shed Numery Battery No. 1. do do do 2. Montcalm Battery Hope Gate do St. Charles do Grand Assembly do Prescott Gate do Wolf's Island of Orleans Levis, No. 1 Fort No. 2 do No. 3 do Quebec, Store Charge. Grosse Isle Quebec, Charge of City Newcastle Field Battery Woodstock do Vescotted do Vescotted do Vescotted do Vescotte		City lines :—															1									
Coal		St. Louis Curtain																			::	::		::	::	
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Montcalm Battery		do do 2												1								.:		2		
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Prescott Gate do Wolf's do Island of Orleans 2 2 2 Levis, No. 1 Fort 1 No. 2 do 1 No. 3 do 1 Quebec, Store Charge 3 1 2 2 8 19 Grosse Isle 2 1 Quebec, Charge of City 2 1 Newcastle Field Battery 4 Woodstock do do		Grand do													ш		4 .									
No. 2 do		Prescott Gate do	**				1						.	1	1											
No. 2 do		Island of Orleans					:					2		1						: ;				2		
Quebec, Charge of City. 8 Newcastle Field Battery. Woodsteek do																										
Quebec, Charge of City. 8 Newcastle Field Battery. Woodsteek do	1	No. 3 do					1	3				i					.	9.	-		9	8			·	
Woodstock do																										
Dorchester Penitentiary St. John, Store Charge.	8	Newcastle Field Battery						4.						1:	1				:	: :					:	
St. John, Store Charge		Dorchester Penitentiary					1	4 .					:	1	1				1						i	
		St. John, Store Charge					1				-				-	8	4	6	-	3	1					

and in Dominion Store charge, &c .- Continued.

11			7							CAL	RRON	NAD	ES N.	H	OW:	ITZ	ER	l C	Io	RTA	ARS	· .			
В	ore													Br'nze		Cast-	iron.			0-i1					
Ca	ast	-iror	1.					-																	
		32	-pr.				8-	in.															Machine Guns.		Remarks.
32 cwt.	42 cwt.	45 cwt.	56 cwt.	58 cwt.	63 cwt.	56-pr.	54 cwt.	65 cwt.	68-pr., 95 cwt.	18-pr.	24-pr.	32-pr.	68-pr.	12-pr.	24-pr.	5½-inch.	8-inch.	8-inch., 9 cwt.	16 cwt.	18 cwt.	47 or 52 cwt.	13-inch., 36 cwt.	Gatling Machin	Russian Guns.	
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[D.]—RETURN of Ordnance in possession of the Militia

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Military District.		pr.	pr.	pr.	40-pr.	pr.	pr.	pr.	inch.	inch.	32-pr.	7-inch., 68-pr.	inch., 68-pr.	pr.	3-pr.	pr.	pr.	pr.	pr., 34 cwt.	38 cwt.	cwt.	20 cwt.	48 cwt.	50 cwt.
Mi		-9	12-	-02	40-	-1	-6	-64-	-2	-6	- 64-	-1	-8	7-	-50	-9	-6	12-	112-	38	42	20	48	1 50
8	St. John, Fort Dufferin Carleton Tower do Drill Shed																							1 2
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	Yarmouth Sydney, C.B. Herring Cove						4																	
	Chester Liverpool									2:														
10	Winnipeg Field Battery Store Charge Victoria, B.C.							0		_	_													
11	Finlayson Point Esquimalt, Macaulay Point					::		1	3						100		-							
12	Brothers Island New Westminster							2		1														
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and in Dominion Store charge, &c.—Concluded.

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		32-]	pr.			-	8-	in.															e Guns.		Remarks.
52 CWE.	42 cwt.	45 cwt.	56 cwt.	58 cwt.	63 cwt.	56-pr.	54 cwt.	65 cwt.	68-pr., 95 cwt.	18-pr.	24-pr.	32-pr.	58-pr.	12-pr.	24-pr.	53-inch.	8-inch.	8-inch., 9 cwt.	16 cwt.	18 cwt.	47 or 52 cwt.	13-inch., 36 cwt.	Gatling Machine Guns.	Russian Guns.	
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J. MACPHERSON, Lieut.-Colonel, Director of Stores and Keeper of Militia Properties.

APPENDIX No. 2

TO

REPORT OF THE DEPUTY MINISTER

OF

MILITIA AND DEFENCE

REPORT OF THE ACTING ARCHITECT—ENGINEER BRANCH

DEPARTMENT OF MILITIA AND DEFENCE, OTTAWA, 30th June, 1894.

SIR,—I have the honour to transmit the report upon the works and repairs made to the military buildings and fortifications under control of this department from the 30th June, 1893, to 30th June, 1894.

LONDON.

The usual general repairs to the barracks were carried out by the men of the company, and the annual amount of lumber for the necessary repairs has been supplied. Extensive repairs were made to the plumbing and heating apparatus, and six windows in the sergeant's mess were enlarged,

The officers' quarters and all outside woodwork is painted. A fence was built around the barracks and camp ground.

A building in the town was fitted up for a store building and the stores moved from the barracks into it.

ST. THOMAS.

Two armouries in the drill shed here were fitted up.

THEDFORD.

The drill shed here was put in proper repair.

BRANTFORD.

The new drill shed has been completed and the rifle range repaired.

TORONTO.

New cooking ranges were placed in the officers' mess and men's barracks. The staff sergeant's quarters were underpinned and repaired. The west barracks have been fitted up and put in repair for the accommodation of the cavalry; also the old stables have been repaired throughout.

The outside woodwork of all barracks has been painted. The fence at the store building has been repaired, and the foreman's house painted and raised and a new foundation placed under it.

ST. CATHARINES.

The gas fittings in the drill shed were altered and repaired.

NIAGARA.

Extensive repairs were made to Butler's barracks, and the old store magazine at Fort George was repaired.

BINBROOK.

The drill shed roof was re-shingled and the armouries repaired.

HAMILTON.

A new drain was put to the drill shed and the surface drains around the shed were renewed.

KINGSTON.

The old "Blue Block" in Tête de Pont barracks was repaired. This block has several times been condemned and is a constant source of expense to maintain. A large amount of general repairs has been done by the men of the battery.

The old stables at the Artillery Park were re-shingled and fitted for the use of

the officers of the battery. A new rifle range was built on Barriefield Common.

At Fort Henry several of the casemates were refitted and repaired for the use of the stores.

The ordinary general repairs were made at the Royal Military College.

GANANOQUE.

The drill shed at this place was repaired and the armouries were refitted.

OSHAWA.

A new armoury was placed to the drill shed here.

PETERBOROUGH.

A new roof covering was placed on the drill shed and a cedar floor laid.

CARLETON PLACE.

Several repairs were made to the drill shed and armoury.

OTTAWA.

The magazine at Nepean Point was pointed and repaired, and the flag staff here was also repaired. The fence on the north side of the point was rebuilt, having fallen during a heavy gale. New roof covering was placed on the old militia store building. In the new store building the ceilings were repaired and new shelving was put in the camp room.

Large alterations were started in the armouries of the drill shed.

The manage was rebuilt and fenced in.

PRESCOTT.

The flagstaff at Fort Wellington, having fallen from old age, was renewed and minor repairs were done in the fort.

MONTREAL.

Several alterations were made in the 5th, 6th and Artillery armouries, and the sanitary arrangements of the shed were remodelled.

Several repairs were made at the rifle range, and also to the store buildings on St.

Helen's Island.

ST. JOHNS, P. Q.

The officers' quarters were repaired and painted, and the sergeant-major's quarters were repaired and painted. All the plumbing in the barracks was overhauled and is now in a satisfactory condition.

ISLE AUX NOIX.

The caretaker's quarters at Fort Lennox were repaired.

QUEBEC.

The old military hospital in rear of St. Louis Street was repaired and fitted up for the married men of the battery.

At the cartridge factory the damage caused by the recent fire has been repaired

and fire alarms placed here for the better protection of the buildings.

The old cavalry stables on St. Louis Street were altered, on the ground floor, to a gun shed, and the upper portion of this building was fitted up for barrack-rooms, for the use of the field division of "B" battery.

At the Citadel the cells building was remodelled for the purpose of a garrison prison. New W. C's. were placed in the officers' quarters to take the place of the old

pit arrangement.

The old stables were converted into and fitted for offices and quartermaster's store, and the offices moved from the hospital building.

Ten casemates were converted and repaired for barrack-rooms.

Extensive repairs were made on the officers' quarters on St. Louis Street, and the officers' quarters generally papered and painted.

The repairing of the Halfmoon battery was completed.

The roof of the riding school was painted and the doors and windows were repaired.

LÉVIS.

The revetments to the ponds in the R. E. camp were renewed and the ponds themselves were cleaned.

Several of the buildings at the camp were repaired and fitted for barrack purposes. The chimneys at No. 2 fort were repaired, as also was most of the flooring.

FREDERICTON.

Officers' quarters were painted and papered, and a new nine-foot range was placed in the cook-house and the cook-house itself altered to receive it.

A large number of general repairs were done by the men of the school with the lumber and hardware supplied.

ST. JOHN, N. B.

The store building was painted and the window frames and sashes repaired. The south gable was cement washed to prevent further damage by weather.

Some new fencing has been put up at Fort Dufferin and the store building there

enlarged and sheeted with metal.

894

WINNIPEG.

The new barrack buildings have been taken over from the Public Works Department and are a great improvement on the old huts.

Hot water heating has been placed in the officers' mess and a stone foundation put

under this building.

Extensive repairs have been made to the stables and they have been put in perfect order. The several officers' quarters in the barracks here are in a deplorable condition and quite beyond repair except in the most temporary way, which has been done.

A new cooking range has been fitted up in the new quarters. Many small alterations have been made to the armouries of the drill shed.

I have the honour to be, sir,
Your obedient servant,

FRED. W. WHITE, Acting Architect, M. & D.

To the Deputy Minister
Militia and Defence.

APPENDIX No. 3

TO

REPORT OF THE DEPUTY MINISTER

OF

MILITIA AND DEFENCE.

GOVERNMENT CARTRIDGE FACTORY.

QUEBEC, 26th November, 1894.

SIR,—I beg to submit the following report of the principal operations of this manufacturing establishment for the fiscal year ended 30th June, 1894.

A reduction in the usual annual output has taken place, both of small arm and artillery ammunition, in consequence of the limited appropriation allowed to carry on work, and in view of an impending change in the armament of the Militia Force.

As regards S. A. ammunition, mostly Martini-Henry ball cartridges were manufactured, viz., 1,434,560 rds. out of a total of 1,522,560—the balance being 36,000 Snider ball and 52,000 blank, '577"x '45" bore.

The following number of R. M. L. shells were manufactured and issued to the store department:-

64-pr.	common					 													4	15	2
66	shrapnel							 				 							3	9	5
9-pr.	common																	1	.3	6	7

No 9-pr. shrapnel were finished, but some work on a lot was performed. In addition, quite a number of castings were provided from the foundry for new machinery and repairs during the year.

Towards the end of the last fiscal year, alterations were begun on our cartridge plant, to utilize it in manufacturing blank ammunition for '303" bore rifles and carbines.

This manufacture had to be undertaken as no '303" blank cartridges were in store for use with Martini-Metford rifles.

These alterations made our Snider machinery available for making '303" blank and allowed utilizing in this connection an important quantity of powder and metal strips which remained in store after filling orders for '45" and '577" ball and blank, to date, and which, in view of changes in armament, might have become useless.

This rolled brass blank cartridge for '303" rifle, though not strictly adapted for use in magazine arms is quite serviceable in a single loader, such as the Martini-Metford, even in a magazine rifle, when used as a single loader. There is, therefore, no objection whatever to its adoption for the Militia and it is, at the same time, much more economical than other descriptions of blank '303" made from solid drawn brass cases provided with paper bullet, specially intended for use in magazine rifles.

Towards the end of the fiscal year, instructions were given to procure machinery, for the manufacture, in Canada, of '303" service ball ammunition, latest British Government pattern and loaded with "cordite."

The machinery was ordered on estimates I had obtained from one of the most reliable firms in England, and it is expected that, early in 1895, these machines will have

19-2*

passed inspection and will have been forwarded to Quebec to soon be under work, producing a very modern and efficient type of ammunition for use in a rifle sighted for the greatest velocity and range obtainable therewith, and at the same time of such weight and general construction as to give the greatest satisfaction.

It is a matter for congratulation, that all the older descriptions of rifle ammunition are now in a fair way of being replaced by '303" Lee-Metford cartridges with

smokeless powder, giving so much greater range, accuracy and penetration.

In connection with the new machinery ordered, several improvements on previous plants supplied to both government and private establishments abroad were suggested to the manufacturers and adopted by them. These improvements will tend to reduce hand labour to a minimum and make all the machinery automatic. I have also suggested changes in machinery with a view of avoiding loss from scrap metal and especially cupronickel which is expensive. I expect thereby to considerably reduce the cost of '303" ammunition manufactured here.

At an early date, this year, it was brought forward that the reserve of artillery projectiles should be made up to the number, per gun, required by the regulations of the service. This implied a considerable increase in the output of the shell factory worked in connection with this government cartridge factory, unfortunately it was found impossible with the means extant to sufficiently enlarge manufacturing operations here, to meet the demand.

We are now in this part of the works quite stationary, making very little more

than enough to supply annual requirements of the militia artillery.

Though all work has been restricted in the shell factory to field artillery ammunition it will take a more than reasonable lapse of time to bring up shell reserves to the required figures. There seems then to be no other alternative but to purchase out of the country, or else, enlarge the shell factory to produce sufficiently to fill up the artillery reserve.

As shells can be produced here as cheap, if not cheaper than they can be imported under present conditions—more so if manufactured in important quantities—I would submit that a manifest advantage exists in the latter alternative, viz., enlarging the shell works sufficiently to make this country entirely self-reliant in this respect. To thus extend our manufacturing capacity would not entail great expense. The shell finishing shop is, even now, too small for our present limited output, it would require to be enlarged. It is so crammed with machinery that when the least accumulation of work takes place, workmen are much hampered. The building could be enlarged to double its present size by rebuilding the front wall further out, replacing the stonework thereof by large windows and raising and enlarging the roof, strengthening also the joists to get additional belt power, utilizing the whole space, so enlarged, exclusively for lathes, drilling and milling machines, the number of which would have to be doubled.

At the same time a larger boiler and engine would have to be got. The present steam power is sufficient to meet all actual demands at the main factory, running, with some management, the cartridge factory, shell shop, foundery and electric light machinery. But nothing more can be added on now, without the risk of breaking down. The steam engine and boiler were intended, at first, to run only the cartridge machinery, and all the shell plant was added to this without a corresponding increase in power. It would be safer to get a new and stronger engine and boiler, properly housed outside of the main factory and connecting the shops by electric power transmissions, instead of line shafts running from one building to another with all their attendant disadvantages.

The manufacture of shells was, when began, quite in the nature of an experiment, in Canada, and the novelty of this kind of work made it advisable to keep this manufacture on a small footing. Now that sufficient experience has been obtained, it may appear that the time has arrived to expand this enterprise if the full benefits to be de-

rived from its maintenance are to be gathered.

The time lost and the obstacles in the way since some years, when order for shells had to be filled in England, need not be recalled. The supply was provided by private manufacturers at their own convenience, so to say, and at high prices. Means are now extant in Canada to provide annual requirements in this respect.

The works only require expansion to become fully efficient.

From year to year as the armament of the Militia Artillery gets more out of date, and even with a new armament, will this factory have increasingly to be depended upon for supplies of artillery projectiles, and it might now be also seriously considered whether in the extension of operations I now advise, the manufacture of fuzes, time and percussion, friction tubes, and other equally essential stores, should not be provided for, as well as for the increase in shell production.

The manufacture of percussion fuzes was begun in a tentative manner at this factory, several years ago, but to produce on a sufficiently large scale requires special machinery, which would have to be procured, as there is nothing of the kind at this factory. In this connection the proposed extension to the shell shop would be useful, as the fuze machinery could be set up in a well lighted upper gallery, under the same

supervision as the shells.

With these adjuncts, the shell department, in connection with this factory, could be relied upon to provide ordinary requirements. It is not now sufficiently developed to do so, and if contingencies should arise requiring a sudden increase in output, to

meet an emergency, it could not be done.

Even with such extensions as I propose, our manufacturing facilities would remain very far short of meeting emergencies of war, but this establishment so developed as to provide means of manufacturing the more essential and special war material, equipped, as it ought to be, with the most improved machinery and provided with a trained staff of officials, could become a source of valuable information and guidance, if, at any time, it was considered necessary to call upon private manufacturing firms in Canada, to supplement the output of this factory.

There can exist no doubt as to the beneficial effect, in such circumstances, of a trained factory staff assisting with technical advice, based on practical experience, such firms as might be intrusted with government contracts for supplies and exercising, on their manufacturing operations, proper supervision to ensure compliance with the re-

quirements of the service.

In the above would appear to consist a very important object of such an establishment as this Government Factory, which could become a source of information and guidance to private enterprise called upon to increase supplies of war material for cer-

tain emergencies.

The beneficial effects of a technical staff, in assisting with their practical experience and in supervising the work of private establishments engaged in contracts of the above nature, are apparent. But in order that such experience be forthcoming when required, the means of developing and increasing it must be provided by varying the description of articles to be produced at this factory, rather than by increasing the production of only a few of the most essential military stores. This policy has no novelty about it elsewhere. In several countries, notably in Great Britain, though arsenals are provided with very extensive plants of machinery for various purposes, still notwithstanding those large accumulated means of production under state control, it is found advisable under certain conditions of supervision, to let out to an extent, contracts to private firms, for the supply of ammunition and other warlike stores, reserving for some natures of material, the performance of finishing processes to Government manufacturing establishments.

But if, on emergent occasions, a similar advantage is to be successfully taken of such private sources of supply as may exist in Canada, in this respect, a judicious expansion of varied means of manufacturing must take place at this factory, more es-

pecially in connection with artillery stores.

I have the honour to be, sir, Your obedient servant,

> OSC. PRÉVOST, Superintendent, G.C.F.

The Deputy Minister of Militia and Defence, Ottawa.

PART 2.

REPORT

OF THE

MAJOR GENERAL COMMANDING

To the Honourable

The Minister of Militia and Defence.

SIR,—I have the honour to submit the following report of the Forces under my command.

THE PERMANENT FORCE.

The Royal Regiments, forming the Permanent Force of the Dominion, have maintained a steady progress towards increased efficiency. This progress is to be ascribed mainly to improved organization, which allots to every grade its definite sphere of action, and corresponding responsibility. There is, however, much yet to be done in this direction, which, as I have pointed out in former Reports, can only be accomplished by the more thorough education of Officers in their professional duties.

The practice initiated last year, of sending some Officers, and Non-Commissioned Officers, of these regiments, to England for instruction, has been productive of excellent results. The Dominion is to be congratulated, not only on the manner in which all these Officers, and Non-Commissioned Officers, have taken advantage, of the opportunity afforded them for improvement, but likewise on the ability they have since shown, in communicating, to those around them, the effect of their own experience. In pursuance of the same intention, three Officers this year have been sent to England. It is pleasing further to record, in this connection, that all, who have thus been associated with the Imperial Forces in England, have earned for themselves an excellent reputation, from the Officers under whom they served. I trust that the system will be continued, and that in the coming year, the necessity for the thorough instruction of Non-Commissioned Officers, as well as of Officers, will not be overlooked.

Appendices "A" and "B" deal with the personnel of these Regiments in the same manner as in my former reports. The number of recruits, enlisted during the year, has been greater, and of a better class, than in former years. The returns of Courts-martial show a notable decrease in military crime. It is especially gratifying to note a marked diminution of drunkenness, in many of the units, and of the offences which are the invariable result of such excess. Generally speaking, if these Regiments have not yet attained the full degree of efficiency, which I should wish to see, they constitute nevertheless a very valuable force, of which Canada may feel justly proud

In view of incorrect statements which have been made, with a certain appearance of authoritative importance, as to the cost to the country of the Permanent Force, as compared with that of the Active Militia, it is my duty to draw your attention to the following facts. As shown by the details of the estimates, submitted to Parliament for the past year, 1893-4, a sum of \$223,000 represents the emoluments of the Permanent Force, in full of all pay and allowances, while the appropriations, which pass directly into the pockets of the Active Militia, in the form of pay and allowances for the same period amount to \$343,800.

SCHOOLS OF MILITARY INSTRUCTION.

The Return of Certificates (Appendix "C"), granted at the Royal Schools of Military Instruction, shows a slight decrease in the total, as compared with the numbers last year, but there is an increase in the number of those certificates, which are granted after a longer and more thorough course of instruction. The decrease in the total is fully explained by the fact that, for ten months of the year reported on, there were no courses of instruction for the Militia at Victoria, B.C. Now, however, a school of instruction has been established, in connection with the Royal Marine Artillery at that station, under Lt.-Col. Rawstorne, R.M.A. In accordance with the suggestion, contained in my Report last year, Schools of Instruction, for Infantry and Artillery of the Active Militia, have likewise been established in connection with the Imperial Forces at Halifax, N.S. Every endeavour is thus being made to bring military instruction within easy reach of all, while, at the same time, not reducing the standard of instruction, requisite for securing a certificate, to too low a level.

The numbers of the Active Militia trained in the year 1893-4 are as follows:-

Perfor	rmed 12 days' Tra	ining.	Perfor	emed less than 12	days.
Officers.	N.C.O. and Men.	Horses.	Officers.	N.C.O. and Men.	Horses
1,467	17,107	2,308	60	713	11

ACTIVE MILITIA.

The total performing 12 days' training shows an increase, on the preceding year, of 112 Officers, 1,600 Non-Commissioned Officers and men, and 832 horses.

Further details are furnished in Appendices "E" and "F."

The quality of the drill, done by the Rural Militia in Camps of Instruction, has improved, in consequence of the pursuance of a clearly defined system, by which no more is demanded of the men than can be acquired within the very short period allowed for instruction. In consequence of my absence in England last year, I was present only at the Camp of Instruction in No. 9 District. There, however, I had means of judging of the progress which had taken place, since my first inspection of the same Battalions, in 1891. The work that was done at Aldershot, N.S., on the fourth day after the assembly in camp, was distinctly better than that which I had seen previously, at the

1894

conclusion of a twelve days' course. The increased energy, shown by all ranks, was to be attributed to their knowing exactly what was required of them, and to the elimination of many useless practices, upon which, formerly, a great deal of time was wasted. There can be no doubt that, with systematic training, the men of the Rural Militia are capable of acquiring a very considerable proficiency, in military exercises.

I cannot refrain from an expression of regret, that circumstances should have rendered it impossible, to call out any part of the Rural Militia for training during the current financial year. No one appreciates more fully than I, the value of the men of these corps, as an element of the defensive strength of Canada, and though the time allotted for their instruction is inadequate, the assembling of these corps periodically serves to maintain a military spirit in the country, which cannot be too highly valued.

In Appendix "J" I have reproduced the report submitted to you on a Camp of Instruction, held this year at Point Lévis, one of the objects of which was to facilitate the obtaining of certificates of military qualification, by provisionally appointed Officers, and by Non-Commissioned Officers of the Rural Militia. This Camp was inexpensive, for, though extended over six weeks, the cost did not exceed that, usually incurred in each Military District, for a 12 days' Camp of the Active Militia. It cannot fail to be productive of excellent results, in consequence of the training it afforded to the most important elements of a military organization, viz., the Officers and Non-Commissioned Officers.

A similar new departure was made, with a view of obtaining increased efficiency, in the Field Batteries of the Active Militia. The remarks of the Inspector of Artillery, on this subject, are deserving of special attention. Small detachments, consisting of Officers and Non-Commissioned Officers from these Batteries, were assembled at Laprairie, Que., where, attached to "A" Field Battery, Royal Canadian Artillery, they underwent a special training, in connection with the Annual Gun Practice. The effect, that can be produced by the fire of Field Artillery, depends entirely on the system, by which that fire is directed and controlled. Such a system necessitates a more accurate training of Officers, Non-Commissioned Officers, and Gunlayers than has hitherto been given in the Canadian Militia. The success, which attended this Camp, was due mainly to the experience obtained last year by Major Drury, Royal Canadian Artillery, when attached to the Royal Artillery, and likewise to the administrative ability displayed by Lieut.-Col. Wilson, Royal Canadian Artillery, in performing the duties as Commandant of the Camp. The report of the latter officer is appended. (Appendix "K.")

A further development, in the practical training of the Garrison Artillery of Nova Scotia, has been dealt with by the Inspector of Artillery (Appendix "L"). The defence of that province centres in the Imperial fortress of Halifax. It is most necessary, therefore, that the training of the Militia of Nova Scotia should be such, as to fit it to perform the duties allotted to it, in the general scheme of defence, and should be carried out in close connection with the Imperial Garrison.

I beg to draw your attention to my previous reports of 1891, 1892 and 1893, in which I have indicated changes in organization, which would contribute considerably, in my opininion, to the efficiency of the City Militia. These corps, which partake far more of the character of the Volunteer organization in England, than of the Militia as

contemplated by the Canadian Militia Act, would, undoubtedly, if relieved of some of the restrictions of that Act, develop a far higher standard of efficiency, than they have yet attained. I alluded so fully to this subject in my Report of 1891 (page 4), that I consider it hardly necessary to recapitulate what I then brought forward.

SMALL ARMS.

During the past year, 1,000 rifles, on the Martini-Metford principle, have been received, of which 730 have been issued on trial. The reports received show it to be an admirable weapon. It differs, however, in many points, from any weapon which has been hitherto used by the Militia Force, and it will only be after some practice and experience, that the full advantage of it will be realized. The ammunition issued with the rifle has not been satisfactory. This defect, however, will be remedied by the decision, which has been arrived at, to adopt the Cordite ammunition, in use in the Imperial Service, and to manufacture the same at the Dominion Cartridge Factory at Quebec.

Two hundred Martini-Metford carbines have been issued to the Cavalry, with Cordite ammunition, the results proving fully satisfactory. The absence of recoil, of smoke, and of fouling are all that could be desired.

RIFLE RANGES.

The general adoption of a modern rifle will undoubtedly necessitate the closing of many rifle ranges, included in the return of Rifle Ranges (Appendix "I"). The ranges at London, Ont., and Fredericton, N.B., have been altered to meet the new conditions, and a range, suitable for practice up to 1,000 yards, has been secured at Vancouver, B.C. The necessity for rifle ranges, throughout the country, will be felt more and more, and must undoubtedly render necessary special appropriations, to meet this requirement. Musketry practice of the Militia in Canada must, for a long time to come, be almost entirely voluntary, and for this purpose a range should be readily available, for every Company in the rural districts.

CLOTHING AND EQUIPMENT.

As regards the clothing and equipment of the Militia, I commend my former reports, and the remarks in those reports on the system of issue, to your earnest attention. The question is a large one, but it is so intimately connected with the efficiency of the Militia, that I must be excused for again bringing it forward.

BARRACKS.

The barracks at Victoria, B.C., have, since my last report, been handed over to the Imperial authorities, as part of the Canadian contribution towards the defence of that port. They are now occupied by a detachment of Royal Marine Artillery, furnished by the Imperial Government, under the agreement entered into in 1893.

The inadequacy of Barrack accommodation in the Dominion is seriously felt. At present, it is impossible to accommodate more than a very small proportion, of the men of the Active Militia, who annually volunteer to attend the schools of instruction. Upon the higher instruction of Officers and Non-Commissioned Officers of the Active

Militia, in such establishments, depends so materially the efficiency of the whole Force, that I earnestly hope funds may be available, for increasing the accommodation at our various Permanent Military Stations. The Barracks at Kingston, Ont., and at Fredericton, N.B., are neither healthy nor adapted to modern requirements. Some of the old buildings, still in occupation as married quarters, at Fort Osborne, Winnipeg, are likewise in a deplorable condition, and quite unfit for occupation.

THE ROYAL MILITARY COLLEGE.

In the report of the Commandant, of the Royal Military College, will be observed a reference to the employment, of some of the graduates of that establishment in topographical work, connected with this Department. The work done by these gentlemen, under the special supervision of Captain Lee, R.A., and under the direction of the Quarter Master General, has been admirably performed. It will, I believe, prove an undertaking of permanent value to Canada, from the civil, as well as the military point of view. The value of the technical military training, given at the Royal Military College, has been thus proved to be of a character, which in the event of any serious emergency, would be of inestimable value to the Dominion. The practical nature, of the general educational training, has been so frequently enlarged upon by the Commandant, that it needs no more than a word of admiration from me. I would, however, draw attention to the great advantage, that would accrue to the Service were a larger number of graduates, of the Royal Military College, appointed to the Permanent Force of Canada. The want of early military technical training is a deficiency which cannot easily be remedied. A knowledge of drill alone does not make a man an officer, and the scientific knowledge of his profession, which is essential to an officer in the present day, cannot be attained unless his educational acquirements are of a suitable character.

ORGANIZATION AND STAFF.

I have, in former reports, urged the necessity of systematic organization, throughout the Militia Service. Especially is it necessary, that such organization should be directed towards the Staff, upon whose energy, technical knowledge, and practical experience, depends the working of any military machine, whether of the Regular or of the Militia type. I again urge this question upon your careful consideration.

It is impossible for any person, however little acquainted with military matters, to view the events, which are actually occurring, in one of the largest Empires in the world, without realizing that personal bravery, and the riches and resources of a large Empire are powerless, for the defence of a country, unless they have, by organization, been made readily available in time of need. The same events show us how a comparatively small, but highly organized, force can overcome the greatest difficulties, and lay at its feet an Empire, hitherto regarded as unassailable.

From the knowledge I have acquired, in the course of four years of intimate acquaintance with the Canadian Militia, I will venture to assert that no body exists, in which there is a stronger feeling of patriotism and loyalty, than in that which I have the honour to command. The sacrifices made annually, by all ranks, should be a sufficient proof of this fact, even for those who have not had the advantage, that I have

enjoyed, of an intimate personal acquaintance with all ranks. It is in view of the endeavours, so generously made, to safeguard this important part of the Empire, that I can again venture, to urge the adoption of a systematic organization, by which alone can the security of any country be assured.

I have the honour to be, sir, Your obedient servant,

> IVOR HERBERT, Major-General, Commanding Canadian Militia.

OTTAWA, 3rd December, 1894.

(APPENDIX A.)

ANNUAL RETURN of Permanent Corps of Active Militia (Non-Commissioned Officers and Men) for the year ending 30th June, 1894.

-			_	_				
-urr urc	Serving with pension fro perial Government.		-	7	13	21		7
ingent as service.	Over 3 years.	1	23	119	112	254		45
ition nting of ser	2 to 3 years.	3	24	48	45	117	:	47
Composition of sent Contingent length of service	I to 2 years.	1 8	97	51	89	145		1
Composition of present Contingent to length of service	Under 1 year.	1	7.7	146	170	388	177	
	Total.	1	108	197	217	522	143	
d.	Returned from Desertion.	1	12	16	19	47	1-	1
Enrolled	Transferred.	1	7	63	15	19	13	
En	Re-enlisted.	1	-	-	11	19	1	52
	Enlisted.	100	18	178	172	437	175	
	Total.	00	90	183	175	438	40	
ě	Transferred.		4	-	17	22	18	
Become Non-effective.	Died.	,	1	22	00	9	1	1
on-eff	Deserted.	8	22	64	65	157	60	
ne N	DischargedTime expired.	8	77	64	20	136	60	:
3econ	Discharged Invalided.	1	C	60	9	14	60	- :
	Discharged Unsuit- able.	0	0	13	.03	18	57	:
	Discharged by Pur-	į į	I	36	32	85	=	
.46	Strength on June 30, 18	1	CFI	364	395	904	84	
.86	Strength on June 30, 18	t T	III	350	353	820		
·áue	Authorized Establishme	1.0	140	403	404	955		11
	Name of Corps.		royal Canadian Dragoons	Royal Canadian Artillery	Royal Regiment of Canadian Infantry	Total	Increase in 1893-94	Decrease in 1893-94

M. AYLMER, Lt.-Col., Asst. Adjutant General.

(APPENDIX B.)

PERMANENT REGIMENTS.

RETURN of Convictions by Court Martial from 1st July, 1893, to 30th June, 1894.

	Corps.	Disgraceful Conduct of a cruel, indecent or unnatural kind.	Offences against discipline, i.e., insubordination and insubordinate language.	Desertion.	Illegal Absence.	Theft.	Other Offences.	Total.	Total by Corps.	Remarks.
Royal Canadian Dragoons	("A" Troop		2 2	1 9			5	8 25	} 33	
Royal	"A" Fd. Battery		3	9			3	15		
Regiment of Canadian Artillery	"B" Fd. Battery No. 1 Company	}	5	10	2	1	20	38	53	
	No. 2 Company			6			2	8)	
Royal Regiment of Canadian Infantry	No. 2 Company		4	6	2		6	14 16	44	
Imantry	No. 4 Company			1	2		3	6		
Total C	Crimes		16	45	11	1	57	130		
Total Crimes,	1892-93		14	44	20	8	90	176		
Increas	e		2	1						
Decreas	se				9	7	33	46		

M. AYLMER, Lt.-Col., Asst. Adjutant General.

(APPENDIX C.)

Return of Certificates granted to Officers, N. C. Officers and Men of the Active Militia in the year ending 30th June, 1894.

											-			
	L	ong (Cours	se.	SI	hort (Cours	se.	Sp	ecial	Cour	se.		
Arm and Station.	A	١.	B	3.	A	١.	E	3.	A	١.	E	3.		Remarks.
	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.	1st.	2nd.	Total.	
Cavalry, Toronto	1				3	3	2	5	1	+2			17	+Equitation 1.
do Winnipeg							7							*Infantry 6.
Artillery, Kingston						3	8	3	1				17	
do Quebec	111		3		2	2	14	11	4	1			38	At Victoria,
Infantry, London		1	1		4	3	2	18		8			37	B.C.
do Toronto			1		6	14	4	19	8	30			82	
do St. Johns, Que.			3	1	2	5	8	25	5				49	
do Fredericton					13	7	10	52	3	9			94	
Total	.2	1	8	1	33	37	55	133	22	55			347	
Increase, 1893–94		1	2			12	5			9			29	
Decrease, 1893–94				1	1			6	39		1	1	49	
Net decrease, 1893-94													20	

M. AYLMER, Lt.-Col., Asst. Adjutant General

(APPENDIX D.)

Return showing numbers of Officers and Men of the Active Militia trained in the year 1893–94 in District Camps.

	Est	uthorize tablishm alled ou	ent		Receive ys' Tra			eived u ys' Tra		U	ntraine	ed.
Military District.	Officers.	N. C. O.'s and Men.	Horses,	Officers.	N. C. O.'s and Men.	Horses,	Officers.	N. C. O.'s and Men.	Horses,	Officers.	N. C. O.'s and Men.	Horses.
No. I	167	1,781	281	125	1,350	250	3	45		39	386	31
II	182	1,871	292	118	1,468	272	14	10		50	393	20
III	138	1,418	416	90	991	376	7	99	1	41	328	39
IV	87	871	41	50	603	40	4	16		33	252	1
V	132	1,328	246	84	952	204	2	20		46	356	42
VI	74	717	222	55	511	208		17		19	189	14
VII	133	1,332	48	99	1,012	46				34	320	2
VIII	101	1,109	360	92	1,043	353		2		9	64	7
IX	119	1,257	. 55	106	1,219	52	2	32	1	11	6	2
X												
XI												
Total	1,133	11,684	1,961	819	9,149	1,801	32	241	2	282	2,294	158

M. AYLMER, Lt.-Col., Asst. Adjutant General.

(APPENDIX E.)

Return showing the numbers of Officers and Men of the Active Militia trained in the year 1893–94 at Local Headquarters.

		Esta	uthorize ablishmalled ou	ent		Receive ys' Tra			eived u ys' Tra		U	ntrain	ed.
Military	District.	Officers.	N. C. O.'s and Men.	Horses.	Officers.	N. C. O.'s and Men.	Horses.	Officers.	N. C. O.'s and Men.	Horses.	Officers.	N. C. O.'s and Men.	Horses,
		1										100	
		44	420	7	25	241	7	7	71		12	108	
II.		191	2,011	223	157	1,897	207	1	34	4	33	80	12
III		78	798	12	54	794	10	6	40	2	18	6	,
IV		34	452	71	26	309	67	2	51	3	6	92	1
V.		173	1,608	20	116	1,389	20	11	150		36	69	
VI		18	168	3	15	140			15		3	13	3
VI	I	78	787	93	56	778	85				22	9	8
VI	II	76	756	4	64	692	4	1	56		11	8	
IX		102	1,230	37	91	1,090	36		49		10	97	1
X.	1	41	444	71	31	439	71				10	5	
		21	210		13	189			6		8	15	
То	tal	856	8,884	541	648	7,958	507	28	472	9	169	502	25

M. AYLMER, Lt.-Col., Asst. Adjutant General.

(APPENDIX F.)

Return, by Districts, showing numbers present at Inspection, 1893-94.

	Establishment.			Numbers present at Inspection.					Wanted to complete.	
		Len.			N. C. O.	's and Men			Len.	
Military District.	Officers.	N. C. O.'s and .den.	Officers.	Staff and other Sergeants.	Bandsmen, Buglers, &c.	Corporals and Privates.	Total.	Officers.	N. C. O.'s and Men.	
No. I	211	2,201	153	192	164	1,424	1,680	58	521	
п	373	3,882	276	332	510	2,781	3,623	97	259	
ш	216	2,216	158	171	162	1,501	1,834	58	382	
IV	121	1,323	82	100	- 88	728	916	39	407	
v	289	2,863	203	271	370	1,805	2,446	86	417	
VI	72	706	54	55	30	397	482	18	224	
VII	237	2,371	173	182	135	1,697	2,014	64	357	
VIII	179	1,865	150	153	140	1,478	1,771	29	94	
IX	221	2,487	190	168	174	1,951	2,293	31	194	
X	41	444	31	35	34	367	436	10	8	
XI	34	536	12	15	1	175	191	22	345	

M. AYLMER, Lt.-Col.,
Asst. Adjutant General.

(APPENDIX G.)

MILITIA TRAINING, 1893-94.

Return showing the strength of Units of Active Militia in District Camps.

AC:114	Place.		Date of Assembly.			Strength.		
Military District.					Corps.	Officers.	NC. O. and Men.	
I	London, On do do do do do do	ıt	do do	19 19	30th do	15 5 23 24 24 25	157 65 258 194 379 207	
п	Niagara, Odo do do do do do do do do	nt	June do do do do do do do do	12 12 13 13 13	2nd Dragoons. Hamilton Field Battery. Toronto do 19th Battalion. 20th do 31st do 39th do 44th do Total.	20 4 4 17 18 24 26 18	207 73 69 194 190 294 291 160	
ш	Kingston, do do do do	Ont	June do do do do do	27 27 13	4th Hussars. 16th Battalion. 47th do 3rd Prince of Wales Canadian Dragoons. Kingston Field Battery. 45th Battalion. Total	16 21 18 16 5 20	161 149 169 164 52 258 953	
IV	Kingston, do do do	Ont	June do do do	27 13	Gananoque Field Battery. 41st Battalion. 42nd do 59th do Total	5 15 17 20 57	55 104 228 226 613	
V	Laprairie, do do do do do do	Que	do do do	27 27 27 27	6th D. of C. R. C. Dragoons Montreal Field Battery. 11th Battalion. 50th do 51st do 85th do	13 3 24 11 12 18	135 52 274 126 89 243	

RETURN showing the strength of Units of Active Militia in District Camps—Con.

Military	Disco	Date	Course	Strength.	
District.	Place.	Assembly	Corps.	Officers.	NC. O. and Men.
		1893.			
VI	Compton, Que Laprairie, Que St. Johns, Que	do 20.	5th Dragoons Shefford Field Battery 84th Battalion	21 5 16	199 50 88
			Total	42	337
VII	Levis, Que	do 3. do 3. do 3. do 3. do 3.	Quebec Field Battery. 17th Battalion 81st do 87th do 88th do 92nd do 55th do	6 24 17 23 19 10 18	66 222 149 204 226 145 224
			Total	117	1,236
VIII	do	do 26. do 26. do 26. do 26.	8th Princess Louise New Brunswick Hussars Newcastle Field Battery. Woodstock da 67th Battalion 71st do Prince Edward Island Battalion Garrison Artillery.	27 5 5 27 25	290 74 73 358 255
			Total	105	1,252
IX	Aldershot, N.Sdo	do 5 do 5	King's Canadian Hussars. 68th Battalion. 69th do 75th do 93rd do Total.	2 28 34 20 20	39 374 370 242 211
			Total	104	1,236

M. AYLMER, Lt.-Colonel, Asst. Adjutant General.

(APPENDIX H.)

RETURN of Musketry in District Camps, 1893-94.

Military District and Site of Camp.	Corps.	Corps figure of merit.	Rank and Name of Best Shot.	Score.	Remarks.
No. 1 London.	1st Hussars	25·67 30·02 25·86	Sergeant Follis	55 71 69 63 62	Best shot in camp. Equal.
No. 2 Niagara.	2nd Dragoons. 19th Battalion 20th do 31st do 39th do 44th do 3rd Dragoons		Trooper C. Secord. Private W. Singer Sergeant Armstrong. Sergeant Beemer. Private T. Haywood. Colour Sergeant Greenwood.	47 50 51 48 52 45	Best shot in camp.
Nos. 3 and 4 Kingston.	4th Hussars. 16th Battalion. 41st do 42nd do 45th do 47th do				
No. 5 Laprairie.	59th do 6th Duke of Connaught's Hussars. 11th Battalion 50th do 51st do 85th do	29·00 29·89 35·59	Corporal Stuart	61 68 64 67 56	Best shot in camp.
No. 6 St. Jonus.	5th Dragoons. 55th Battalion 84th do 17th do 81st do	$ \begin{array}{r} 30\frac{3}{32} \\ 27 \cdot 88 \\ 10 \cdot 32 \\ 5 \cdot 39 \\ 5 \cdot 27 \end{array} $	Bandsman Paradis Private Lajeunesse Sergeant Major Richard Private Lacasse	69 57 62 52	Best shot in camp. Serg. Maj. Richard and Pte. Huot tie
No. 8 Sussex, N B.	88th do	5·14 -5·37 16·39 20·59 26·28	Private Julien Sergeant Larachel Sergeant W. Parler Sergeant P. Appleby Corporal H. Gregory	62 54 55 62 77 77	for best shot in camp; 62 each. Best shot in camp.
No. 9 Aldershot.	King's Troop Hussars. 68th Battalion 69th do 75th do 93rd do	29·06 35·37 35·40	Trooper C. F. Miller. Sergeant Carry Sergeant Willer Private Veno Sergeant Baird	64 70 72 70 72	

M. AYLMER, Lt.-Colonel,
Asst. Adjutant General.

(APPENDIX

LIST of Rifle Ranges

Military District.	Locality.	Corps by whom used.	Greatest Range in use under existing circumstances.	Approxi- mate length and breadth of Range Ground.	Number of Targets available at various distances.	Extent of ground behind the Butts, comprised in the Range Ground,
No. I	London	7th Batt. and Rifle Association.	600 yards.	980 x 100 yds	4 targets, 200 and 300 yds.; 5 tar- gets, 400 to 600 yds.	1
do	do	No. 1 R.D., R.R.C.I.	1,000 do .	1,000 x 200	8 at all distances.	30 do
do	Windsor	& Troops in Camp. 21st Batt., Nos. 1 and 5 Cos.	600 do .	1,000 x50 yds	2 do	None
do	Leamington		800 do .	800 x 20 yds.	3 do	
do	Essex	do No. 3 Co	900 do .	900 x 80 yds.	3 do	
do	Woodstock	22nd Batt., Nos. 1 and 6 Cos.	600 do .	600 x 100 yds	2 do	
	Embro	22nd Batt., No. 2 Co.		600 x 200 yds		
	Princeton	do No. 3 Co. do No. 5 Co.		600 x 40 yds. 500 x 100 yds		
do	Thamesford	do No. 8 Co.	500 do .	500 x 300 yds	1 do	
do	Sarnia	27th Batt., No. 1 Co.	600 do .	600 x 50 yds.	5 do	None
do	Thedford	do No. 2 Cô.	600 do .		2 do	do
do	Hespeler	29th Batt., No. 5 Co. and Hespeler Rifle Association.		1,200 x 200 yds.	400 and 600 yds., 1 at 600	
do	Berlin	29th Batt., No. 1 and 6 Cos., and Berlin Rifle Association.	500 do .	500 x 100 yds	to 1,000 yds. 4 at 200 yds., 1 at 400 and 500 yds.	50 do
do	Guelph	1st Brigade Field Art. and 30th Batt.	600 do .	1,000 x 700 yds.	4 at all distances.	350 do
do	Seaforth	33rd Batt	600 do .	900 x 75 yds.	4 do	75 do
	Clinton	do		650 x 25 yds. 900 x 100 yds	2 do 4 up to 500 yds., 2	50 do None
do .	Georgetown	20th Batt., Nos. 2, 3			at 600 yds.	
do .	Hamilton	and 6 Cos. 13th Batt	1,000 do .	1,100x 35 yds	2, 700 to 1,000	75 yards
do .	Milton	20th Batt., Nos. 1, 4	600 do .	700 x 50 yds.		60 do
do .	Niagara	5 and 7 Cos. Troops in Camp	600 do .	650 x 250 yds	6, 400 to 600	30 do
do .	Owen Sound	31st Batt	700 do .	800 x 200 yds		100 do
		39th Batt			400 to 600 vds	
do .	Toronto	"A" Troop, R.C.D., No. 2 R.D., R.R. C.I., G. G. Body Guard, Toronto Field Battery, 2nd Batt. Q.O.R., 10th Batt. R. Grendrs., 48th Highlanders.	1,000 do .	1,000 x 300 yds.	12 at 200 yds.; 10, 300 to 600 yds.; 4, 700 to 1,000 yds.	

I.)

by Military Districts.

Nature of country behind Butts, whether unused, or occupied and requiring to be closed when firing is going on.	Whether ever reported unsafe.	By whom is Range owned, Government or Private Property.	If Rented, Amount of Rent, and by whom paid.	Direction of Range from Firing Point to Butts.
Hill 45 ft. high; occupied; need not be closed.	No	Private; leased to Western Rifle As- sociation.	\$65 per annum; Western Rifle Association.	w.
High steep cliff; occupied;	do	Private	\$160 per annum; Gov-	S.
need not be closed. Level land, bas hand clearing;	do	do	ernment. \$18 per annum; 21st Batt.	S.E.
must be closed for firing. Lake Erie	do	do	and Windsor Rifle As. \$15 per annum; captain	S.
Farm land; closed for firing.	do	do	of company. \$20 per annum; Govern-	N.E.
Rapidly rising ground; occu-		do	Mo rent	N.W.
pied; closed for firing. Bank 100 ft. high		do	do	S.E.
Level	do	do	dodo	E. S.W.
cupied; closed for firing. Rising ground; occupied;			do	
closed for firing. Occupied; must be closed for			\$25 per annum; Capt.	
firing. Farm land: not closed for	is dangerous.		McKenzie. No rent	All and a second
firing. Hill; farm land; not closed for firing.			\$25 per annum; Hespeler Rifle Association.	
Pasture land; not closed for firing.	do	do	\$10 for season; Berlin Rifle Association.	N.N.W.
Cultivated; notice given to owner before practice.	do	do leased to Guelph Rifle As- sociation.	\$35 per annum; Government.	S.
Gravel hill, used occasionally, then clused for firing.	do	Private	\$20 per annum; 33rd Batt. Rifle Association.	E.N.E.
River bank	do	do	No rent	W. S.S.W.
80 ft. high. High ground; farm land;	do	do	\$11 per annum; 20th Batt.	N. by W.
not closed for firing. Mountain ridge; farm land; closed for firing.	Complaints have been made.	do	Rifle Association. Victoria Rifle Club allow free use of range to the	N.
Rocky precipice, 75 yds. in		do	free use of range to the battalion. Milton Rifle Club and	s. w.
rear; not closed for firing. Lake Ontario			20th Battalion.	
Rising ground; cultivated; closed for firing. Wooded, hilly ground; not	for Snider.	ly Government.	\$30 per annum; Govern- ment. \$15 per annum; 39th Batt.	
closed for firing. Lake Ontario	the state of the s		Rifle Association.	
Laure Officiation	40 111. 1111.			
			TOTAL TELL	

LIST of Ritle Ranges

Military District.		Locality.	Corps by whom used.	Greatest Bange in	use under existing circumstances.	Approximate length and breadth of Range Ground.		Extent of ground behind the Butts, comprised in the Range Ground.
No. I	I.	York	37th Batt	800	yards.	800 x 30 yds.	2 at all distances.	
do No. I	ii	Collingwood Thornbury Barriefield	No. 2 Co., 35th Batt. No. 7 Co., 31st Batt. R. M. C., "A" Batt., R. C. A., 14th Batt.	500 600	do . do .	500 x 100 yds 800 x 200 yds.	16 at all ranges up to 600 yds.	Unlimited 40 yards. 200 yards.
do		Campbellford	3 Companies 40th Batt.	600	do .	1,000 x 50 y	2 do	None
		Bowmanville	Batt.			yds.; width 100 yds.	yards.	
do		Lindsay	Left Wing, 45th Batt.	600	do .	700 x 22 yds.	2 at each distance	
		Peterborough	3rd Dragoons and Durham Ed. Batt.			800 x 50 yds.	4 do	None
do		Port Hope	46th Batt. Durham	600	do .	900 x 200 yds		300 yards.
			DOURS ATT. UO.			800 x 33 yds.		None
do		Hastings	No. 9 Compy. 40th Batt.	600	do .	1,900 x 300 y.	There is room for 6 targets up to 600 yds., only 1 is provided.	
No. I	V.	Ottawa (Rideau Rifle Range)	P. L. D. Guards, O. F. Battery, G. G. Ft. Gds. and 43rd Batt.		do .	600 x 220 yds and 900 x 60 yds.	2 each at 800 and	
		Prescott	"D" Troop, 4th Hussars, Nos. 1, 2 and 6 Cos., 56th Batt.				4 at all distances	50 do .
1		Brockville	Part of 41st and 42nd Batts.			The last in the same of the sa		
		Perth	No. 3 Co., 42nd Batt.	600	do .	600 x 100 yds	1 do	
do do		Renfrew	No. 5 Co. do			1,100 x 100 y 1,500 x 50 y.		None 100 yards.
do		Carleton Place	No. 5 Co., 41st Batt.	600	do .	1,760 x 1,300	2 do	
do		Metcalfe	No. 7 Co., 56th Batt.	600	do .	900 x 800 yds	3 do	
do		Spencerville	No. 6 Co. do	400	do .	1,000 y. long	2 do	100 acres
do		Kemptville	No. 4 Co. do	600	do	600 x 100 yds	1 do	of bush.
do		Gananoque	Gananoque Field Bat- tery and No. 2 Co., 41st Batt.		do	1,320 x 800 y	2 do	
do		Cornwall	59th Batt	600	do	800 x 50 yds	. 3 do	
No.	V	Côte St. Luc	6th Cav., M.F.Bat'y, M. Gar. Art., 1st, 3rd, 5th, 6th, 65th and 85th Batts.		do	1,860 x 224 y	20 targets 100 to 600 yards; 2 from 700 to 900 yds.	2 x 198 yds.

by Military Districts-Continued.

Nature of Country behind Butts, whether unused or occupied and requiring to be closed when firing is going on.	Whether ever reported unsafe.	By whom is Range owned, Government or Private Property.	If Rented, Amount of Rent, and by whom paid.	Direction of Range from Firing Point to Butts.
Rising ground; cultivated Nottawasaga Bay Georgian Bay Falling, used as pasture beyond the 500 yards men-	once about 10 years ago.	do	\$15 per annum by Government; \$7.50 by battalion. Nominal rent	E. by S. S.E.
tioned. Hill 40 to 50 feet high immediately behind butts; un-	do	Private	Rented by 40th Batt	s.
occupied. Hill in rear of butts; unoccupied.	do	Private property	Rent \$40 per annum; Government.	S. S. E. and S. W.
Large abutment in rear; river	do	Township of Ops	Free of rent	N.W.
Steep hill; unoccupied	do	Private property	\$45 per annum; Government.	E.
Lake Ontario	do	do	\$20 per annum; Govern-	S.E.
do	do	do	ment. \$15 per annum ; Cobourg	S.
Hill 45 feet high, heavily timbered butt; beyond which is a river nearly a mile wide.	do	do	Rifle Association. No rent	N.
Fairly level arable and grazing ground; closed for firing.	do	do	\$500 per annum ; Government.	S.S.E.
Sand ridges and undulating pasture; closed for firing.	do	do	\$50 per annum; Government.	N.W.
Stony and wooded; occupied.	do	do	do do	N.
Marsh and bush	do	do	\$10 paid by Perth Rifle Association.	N.
Hill 75 feet high			No rent	
High butt; bush at back;	do	Clergy lands	\$25 per annum; Carleton Rifle Association.	W.
not used. Swamp; not closed when firing	do	Private property	No rent	N.
Solid bush do	do	do	do	N.
Thick bush do	do	do	do	N.E.
High hill	do	do	\$25 per annum ; Ganano- que R.A.	N.
Farm land; not closed; thick	do	do	\$50 per annum; Govern-	N.W.
bush behind butts. Bush; unoccupied; not necessary to close the bush when firing is going on.		do	Leased by Government for 15 years at \$900 per annum.	W.
		-		

LIST of Rifle Ranges

Military District.	Locality.	Corps by whom used.	Greatest Range in use under existing circumstances.	Approxi- mate length and breadth of Range Ground.	Number of Targets available at various distances.	Extent of ground behind the Butts, comprised in the Range Ground.
No. V	Laprairie	Troops in Camp	600 yards	1,000 x 500 y.	4 at all distances	50 to 100 y.
do	Three Rivers	86th Batt	600 do	. 600 x 50 yds.	2 do	None
No. VI.	Sherbrooke	53rd Batt	600 do	600 x 50 yds.	2 at each distance	About 50 y
do .	St. Johns, Que	No. 3 R. D., R.R.C.I.	600 do	750 x 50 yds.	1 butt; no more targets.	150 yards.
do .	do	No. 3 R.D., R.R.C.I. and for District Camp.	600 yard flat, could have 90 to 1,000 from bar racks.	1000	2 butts; 4 targets in line.	100 yards.
do .	Richmond	54th Batt	600 yards	. 750 x 150 yds	3 up to 200 yds., 2 to 600 yds.	About 150 yds.
do .	Clarenceville	60th Batt., No. 4 Tp., 6th Cavalry.	800 do	1,000 x 200 y.	4 from 100 to 600 yds.	yus.
do .	Waterloo	79th Batt	600 do	600 x 200 yds	2 from 100 to 600	
do .	Sweetsburg	Shefford Fd. Battery,	600 do	1,200 x 800 y.	yds. 2 from 100 to 600	400 yds
do .	Cookshire	52nd Batt. 5th Dragoons and	600 do	700 x 250 yds	yds. 3 from 100 to 600	100 do
do .	Sutton	58th Batt. No. 5 Troop, 5th Dragoons, 52nd	600 do	800 x 350 yds	yds. 2 from 100 to 600 yds.	200 do
do .	Compton	Batt. Troops in Camp	600 do	600 x 100 yds	5 from 100 to 600	
No.VII	Lévis	R. C. Artillery, Q.O. Can. Hussars, Levis G. A. 8th, 9th		600 x 58 yds. average.	yds. 12 targets	
do .	Beauport Flats	and 17th Batts. Q. O. Can. Hussars, 8th, 9th and 87th			2 at each distance	water s'vl
do .	Inverness Corner	Batts. 55th Batt. and Me-	600 do	800 x 50 yds.	4 targets	miles. 200 yds.
do .	Ste. Geneviève	gantic Rifle Ass'n. 70th Batt. and Cham- plain Rifle Ass'n.	600 do	600 x 120 yds	5 do	None
	bas).	89th Batt. and Témis-		800 x 60 yds.	5 do	200 yds
do .	Rimouski	89th Batt. and Ri- mouski Rifle Ass'n.	600 do	1,000 x 72 y.	2 do	200 yds
		87th Batt. and Co. Quebec Rifle Ass'n.		600 yards	2 do	
**		No. 5 Co., 55th Batt., and Rifle Ass'n.		600 do	2 do	
	Fredericton	No. 4 R.D., R.R.C.I. and 71st Batt.		800 x 30 yds.	3 at each distance	100 yds
do .	St. John, N.B	N.B. Batt. Gar. Art., 6 2nd Batt., St. John Rifle Co.	600 do	700 x 100 yds	4 do do	None
do .	Sussex	All Militia Corps in District.	600 do	1,000 x 100 y.	12 do do	400 yds
do .	Woodstock	Woodstock Fd. By., Brighton Engineers and 67th Batt.	700 do	800 x 200 yds	2 do do	None

by Military Districts-Continued.

Nature of Country behind Butts, whether unused, or occupied and requiring to be closed when firing is going on.	Whether ever reported unsafe.	is Rang Gover or Pr	whom e owned, enment rivate perty.	If Rented, Amount of Rent, and by whom paid.	Direction of Range from Firing Point to Butts.
Public road from village;	No	Duivata m	monorty	No rent	N.W.
closed and turned while fir- ing; Laprairie Bay. St. Lawrence River; not				do	
closed. Side of hill; wooded; not oc-					
ennied.				ment. \$50 per annum ; Govern-	
Flat, with light bush behind the butt.	Jan. 1, 1891;	do		ment.	
High bush	disused. Protested by L. Huot, before present lease.			\$100 per annum, paid by the Town of St. Johns; leased for 5 years, June 21, 1892.	
					37 337
Hilly; wooded; closed while firing.	No	do		Rent free	
Swampy; wooded; ground occupied as pasture some- times, but so far has never		do		do	E.S.E.
required to be closed. Mostly wooded; requires to	do	do		do	N.
be closed. High hill; crowned with tim-	do	do		do	N.
ber; not closed. Hilly; lightly wooded; un-		do		\$5 to \$10; paid by Rifle	N.E.
occupied during firing. High hill; timber land; unused.		do	····· ··	Association. Rent free	E.
Wood; unoccupied	do	do	********	Rent of camping ground covers rent of range.	W.
Hilly	do	Governn	nent	covers tent of range.	S.S.E.
'Tidal beach and water when tide is high.	do	Private		No rent charged	S.W.
Woods, and clearance, occu	do	do		. \$4 per annum; Meganti Rifle Association.	eW.
Wooded; unoccupied	do	do		. \$8 per annum ; Champlain Rifle Association.	S.W.
Hilly; about 150 ft.; wooded	; do	do		. \$7 per annum; Association	n N.W.
unoccupied. Hilly; 60 ft. wooded; no	do	. do			Market L
closed. Hill behind butts 60 ft. high		đo		\$15 do do .	. N.
Woods; occupied for hay	do	. do		. Entrance fee by member	s W.
Rough and hilly; unused	Not since stop	1			S.W.
Steep hill thickly wooded; no closed.	butt built.	1	Asing.	ment. \$250 per annum ; Government.	1- W.
Bush; unused; not closed.	. do	. do		N.B. Prov. Rifle Association pays \$100 per annuand charges Government	n
A very high hill; unoccupied not closed.	; do	. do		\$25 per annum. . \$30 per annum; Government.	

LIST of Rifle Ranges

Island. Charletth Engineer Charletth Engineer Cho. and \$2nd Batt. No. 4 Co., 82nd Batt. No. 4 Co., 82nd Batt. No. 5 Co. and \$2nd Batt. No. 6 Co. and \$2nd Batt. No. 6 Co. and \$2nd Batt. No. 6 Co. and \$2nd Batt. No. 7 Co., 82nd Batt. No. 7 Co., 82nd Batt. No. 7 Co., 82nd Batt. No. 7 Co. Rand Batt. No. 6 Co. Sand Batt. No. 8 Co. No. 8 C						22.52 02 20110	
do Moncton. No. 6 Co., 71st Batt. 600 do 650 x 137 yds 2 do do 30 do	Military District.	Locality.		Greatest Range in use under existing circumstances.	mate length and breadth of Range	of Targets available at various	Extent of ground behind the Butts, comprised in the Range Ground.
do Moncton. No. 6 Co., 71st Batt. 600 do 650 x 137 yds 2 do do 30 do	No WITT	Dalson Ducals	No 7 Co 67th Date	COO wanda	600 × 200 × 3	O at sach distance	900 nda
do Moncton. 74th Batt. 600 do 700 x 150 y ds 5 do do 30 do do Chatham. No. 2 Co., 78rd Batt. 600 do 700 x 50 y ds 2 do do do Charletteton, P. E. I. Gar. Art., 600 do 700 x 200 y ds 4 do do None. Charlette Engineer do Little York, P.E.I. No. 4 Co., 82nd Batt. 600 do 600 x 200 y ds 2 do do do do do do do					NO.		200 yas
do	do .	St. Stephen	No. 6 Co., 71st Batt.	600 do	650 x 137 yds	2 do do	
do Charlottetown, P.E. I. Gar. Art., 600 do 700 x 200 yds 4 do do None	do .	Moneton	74th Batt	600 do	700 x 150 yds	5 do do	30 do
Island. Charletth Engineer Co. and S2nd Batt. 600 do 900 x 650 yds 2 do do 300 yds	do .	Chatham	No. 2 Co., 73rd Batt.	600 do	700 x 50 yds.	2 do do	
Co. and 82nd Batt. 600 do 900 x 650 yds 2 do do 300 yds	do .			600 do	700 x 200 yds	4 do do	None
No.IX Bedford, N.S.	do .		Co. and 82nd Batt.	600 do	900 x 650 yds	2 do do	300 yds
No.IX Bedford, N.S.							
do	la las						
Depth			66th Batt. &P.R.A.				1,200 yds.
do	do .	Aldersnot, N.S	Troops in Camp	700 do .	say 1,600 x		1,000 yds.
do	do .		6 Cos. 69th Batt	600 do .		3 do	Nil
do	do .	Kentville, Kings Co.,		600 do .	900 x 200 yds.	10 do	do
Description Co. Co. Gar. Good Go	do .	Canning, Kings Co.,	Nos. 2 and 6 Cos. 68th	600 do .	1,000 x 400 y.	6 do	do
Dear River, Digby 3 Cos. of 69th Batt. 600 do 600 x 40 yds. 2 do do do do do do do	do .		Pictou Co. of Gar.	600 do .	800 x 150 yds	2 do	do
do Wlmot, Annapolis Co., N.S. Digby Gar. Artillery 600 do 600 x 100 yds 1 do Nil do Truro 78th Batt 600 do 800 x 200 yds 2 do 20 to 40 yds do Windsor No. 4 Co., 78th Batt 600 do 1,000 x 200 y. 2 do do Millbrook No. 5 do 600 do No return 1 do do Mount Thom No. 6 do 600 do do 1 do do 1 do do West River No. 7 do 600 do do 1 do do Amherst 93rd Batt and County Rifle Ass' No. 4 do 600 do 600 x 25 yds 1 do do Mapleton No. 4 do 600 do 600 x 25 yds 1 do do Martin's River No. 5 Co., 75th Batt. 600 do 600 x 25 yds 1 do do Mahone Bay Co. Gar. Artillery 600 do 700 x 25 yds 1 do do Portage la Prairie 96th Batt 1,000 do 1,000 x 20 yds 2 targets do Portage la Prairie "B" Troop Man Dragoons Dragoons Co. of Infantry 900 yards 1,250 x 20 y. do Virden "A" Troop Man Dragoons Roc 1,000 x 150 y. do Virden "A" Troop Man Dragoons Roc 1,000 x 150 y. do None	do .		3 Cos. of 69th Batt	600 do .	600 x 40 yds.	2 do	do
Digby, N.S. Digby Gar. Artillery 600 do 600 x 100 yds 1 do Nil	do .	W lmot, Annapolis	72nd Batt	600 do .	1,000 x 100 y.	2 do	20 yds
do Windsor. No. 4 Co., 78th Batt. 600 do 1,000 x 200 y. 2 do	do .	Digby, N.S.	Digby Gar. Artillery	600 do .	600 x 100 yds	1 do	Nil
do Millbrook. No. 5 do 600 do No return 1 do	do .	Truro	78th Batt	600 do .	800 x 200 yds	2 do	20 to 40 yds
do Mount Thom No. 6 do 600 do do 1 do do West River No. 7 do 600 do do 1 do do Amherst 93rd Batt. and County Rifle Ass'n. 600 do 700 x 400 yds 3 do 100 yds. do Mapleton No. 2 Co., 93rd Batt. 600 do 600 x 25 yds. 1 do None do Mapleton No. 4 do 600 do 600 do 600 x 25 yds. 1 do None do Mahone Bay Co. Gar. Artillery 600 do 700 x 250 yds. 4 do 100 yds No. X. Winnipeg 90th Batt 1,000 do 1,000 x 20 yds. 2 targets None do Portage la Prairie "B" Troop, Man About 800 yards 2 targets None do Virden "A" Troop Man <	do .	Windsor	No. 4 Co., 78th Batt.	600 do .	1,000 x 200 y.	2 do	
do West River No. 7 do 600 do do 1 do 1 do 100 yds	do .	Millbrook	No. 5 do	600 do .	No return	1 do	
do			No. 6 do	600 do .			
ty Riffe Ass'n.			93rd Batt. and Coun-	600 do .			100 yds.
do Martin's River No. 5 Co., 75th Batt. 600 do 900 x 20 yds. 1 do 200 yards. 250 yds. 250 yds. 250 yds. 250 yards. 1 do 4 do 100 yds. 250 yds. 250 yds. 250 yards. 1 do 200 yards. 250 yds. 250 yards. 250 ya	do .	Spring Hill Mines	No. 2 Co., 93rd Batt.	600 do	700 x 25 vds.		
do Mahone Bay Co. Gar. Artillery 600 do 700 x 250 yds 4 do 100 yds 100		Mapleton	No. 4 do	600 do .	600 x 25 yds.	1 do	50 yds
No. X. Winnipeg.							
do Port Arthur		Winnipeg	90th Batt	900 do .	2 miles by 88	S tar. up to 600;	About 15
do Brandon Co. of Infantry 900 yards 1,250 x 20 y 2 targets About 200 yds.	do .	Port Arthur	96th Batt	1,000 do .	yards. 1,000 x 20 yds	2 targets	None
do Brandon	do .	Portage la Prairie	"B" Troop, Man.	About 800	1,000 x 200 y.	2 at all ranges up	
do . Virden	do .	Brandon	Co. of Infantry	900 yards.	1,250 x 20 y	2 targets	About 200
No. XI. Goldstream, B.C B.C. Batt. Gar. Art. 600 do 1,000 x 150 y. 7 targets None	do .	Virden	"A" Troop Man.	800 do .	850 x 33 yds.	2 targets at each	yds.
	No.XI.	Goldstream, B.C	B.C. Batt. Gar. Art.	600 do .	1,000 x 150 y.	range. 7 targets	None
	do .	Glover Point	-	600 do .	1,000 yards	4 do	The sea

by Military Districts—Concluded.

Nature of Country behind Butts, whether unused, or occupied and requiring to be closed when firing is going on.	Whether ever reported unsafe.	By whom is Range owned, Government, or Private Property.	If Rented, Amount of Rent, and by whom paid.	Direction of Range from Firing Point to Butts.
Wooded	No	Private	\$10 per annum; Government.	N.W.
Wood land; unoccupied; not closed.	do	do	\$5 by County Rifle Association; \$20 per annum by Government.	N.E.
Wooded; unused; not closed.	do	do	\$20 per annum	N.
Thin woods and barrens; un- occupied. Inlet of river; not closed		do	\$24 do \$150 per annum ; Govern-	
			ment.	
Wooded swamp; steep hill 400 yds. across swamp; unused.			No rent	
Wooded			ment.	
Hilly; thinly wooded; unoccupied.				
Level swamp; unused; only required to be closed in cranberry season.		Private property	\$12 per annum; Government.	E.S.E.
Hill high behind butts; pasture; closed.	do	do	Leased by Government for \$200 for 25 years.	S.E
100 feet hill behind butts; un- occupied.	do	do	King's Co. Rifle Ass'n. pays \$13 per annum.	Due S.
Hill 75 feet behind butts; un- occupied; not closed.	do	do	\$10 per annum; Canning Rifle Association.	Due E.
Unoccupied; heavy bush; not closed.	do	do	No rent	N.
High ground; heavily wooded; not closed.	do	do	do	S.W.
Sand hill; not required to be	do	do	do	S.W.
closed during practice. High sand bank; not required	do	do	do	W.
to be closed during practice. High bank; not closed	do	Part Prov. Gov. part	do	E.
do do	do	private property	do	N.W.
Wooded hill	do	do	do	s.w.
do		do	do	
Small trees; closed when	do	do	do	
firing. Heavy woodedland; not closed	do	do	do	N.
do do	do	do	do	E.
Wood land; not closed				Marie Control
High hill; pasture; closed Flat; fence on each side range;	do	do Winnipeg R. Range	do	W.
not closed. Forest; high hill about 1½		Company.	per annum for 3 targets.	N.
miles; not closed. Plain; not closed for firing		do	do	E.
Hill 100 feet high		do		
Ravine with high bank on far		do		
side and I mile cultivated. Hill; rough ground of no use; not occupied; not closed	do		\$50 per annum; B. C. Rifle Association.	
when firing. No danger except to boats		do	do	S.

(APPENDIX J.)

REPORT ON THE CAMP OF INSTRUCTION AT LÉVIS.

To the Honourable

The Minister of Militia and Defence.

SIR, -

1. I have the honour to submit the following report on the Camp of Instruction, recently held at Point Lévis, Quebec.

2. I think it desirable to preface my remarks, by mentioning the objects which I had in view, when I submitted for your approval a scheme, which constitutes an entirely new departure, in the system of instruction of the Militia.

These objects were-

1st. To provide a means, whereby a larger number of Officers, Non-Commissioned Officers and men of the Active Militia, than can be ordinarily accommodated in the barracks at my disposal, could acquire a sound and practical training, in the subjects wherein they are required to pass an examination, before attaining to commissioned rank in the Militia Service.

2nd. To introduce, into the hitherto scattered units of the Royal Regiment of Can-

adian Infantry, an uniform system of drill, and regimental administration.

3rd. To provide practical instruction in tactics, for all ranks of the Permanent Force, whereby they should acquire, not merely the forms of drill, but learn by practical

experience the true application, and the reason for, such forms.

3. Recognizing that the imitative faculty, which is inherent in every human being, may be largely utilized in instruction, and that the force, exercised on men's minds by example, is considerable, I was inclined to believe, that the close affiliation, of a considerable number of men of the Active Militia, with a thoroughly organized permanent Battalion, must infallibly be productive of good results on the former.

4. My expectations, based upon these considerations were fully realized. It was impossible to one who carefully followed, as I did, every detail of the instruction, not to observe that there was, constantly at work, a desire, on the part of the attached men of the Active Militia, to emulate, and imitate, the military bearing and regularity of

their comrades of the Permanent Force.

5. There were present in Camp 162 Officers, Non-Commissioned Officers and privates from various Battalions, of the Active Militia throughout the Dominion, who had volunteered to go to Camp, for the purpose of obtaining instruction. The undefinable influence of emulation made itself felt, in another manner, by the fact that men from the provinces of Quebec, Ontario and New Brunswick, found themselves side by side, competing to maintain the credit, of their respective corps and province. The result was most satisfactory. Of the above number 96 took certificates of various classes.

6. The system adopted for their instruction was as follows. Two companies of about 80 men each were formed, each under the command of a selected officer of the Royal Regiment of Canadian Infantry, who was assisted in his duties by Non-Commissioned Officers of the same Regiment. Thenceforth these two Companies were known, and existed, as No. 5 and No. 6 Company, respectively, of the Royal Regiment of Canadian Infantry. They paraded with the Regiment, from the very first day, in order that the object lesson should be constantly before their eyes, and everything was done to make the men feel, that they were placed on an absolute equality, with their more thoroughly trained comrades. Realizing the influence, which externals have upon men's minds, I caused all the attached men, of whatever rank, to be clothed in new regulation serge clothing, thus giving them an appearance perfectly in harmony with that of the men of the Royal Regiment. It would have been impossible to expect men clothed in old, ill-fitting uniforms, of various colours and forms, to feel themselves on a footing of equality, with men differently arrayed. In the first days of the course, the most promising men were promoted to non-commissioned rank, and placed in charge of the sections of their

companies, under the superintendence of the Non-Commissioned Officers of the Royal Regiment. In this capacity, they performed all the duties, devolving upon Non-Commissioned Officers in a regularly organized company, and were gradually relieved of

supervision, as they acquired a knowledge of their duties.

7. It is unnecessary for me, in a report of this kind, to enter into every detail of the course of six weeks' training. It is sufficient to say, that the aim was to make the instruction thoroughly practical, both in the administrative system of a regiment, and in drill. Being, as it were, absorbed into a regular military organization, the men unconsciously became impregnated, with the order and regularity existing therein, and learnt their duties, because those duties were a part of the daily life surrounding them. In like manner, in addition to their own elementary drill-training, they were able, by their constant close connection with the Permanent unit, to form an idea of the nature of the higher tactical training, that is given to soldiers. Towards the close of the period of instruction, a short course of musketry was gone through, with the new Martini-Metford rifle. Thus all the attached men acquired an intimate acquaintance with the weapon, with which they will eventually be armed.

8. After some experience, in different countries, of what can be done in the instruction of young soldiers, I can confidently assert, that I have rarely seen better results produced in the time allotted. I attribute this mainly to the fact, that the men had their heart in the work. They had come to learn, and they did their best, to take advantage of the opportunity afforded to them. The same results, however, could not have been obtained, even with the good-will of all concerned, had it not been for two

essential conditions, viz. :-

1st. With very few exceptions, all the men from the Active Militia were quartered in permanent buildings. Thus the lax discipline, which results from placing untrained men under canvas, was avoided, and the men had more of the comfort, to which they are accustomed in their homes. The men were well housed, well fed, and led a healthy life, in which there was plenty of work, varied with a reasonable amount of social and

other enjoyment.

2nd. The Officers and Non-Commissioned Officers, specially selected for the command and instruction, of the attached companies, showed themselves fully qualified for their work. I cannot speak in too high terms of the patience and care exhibited by Lt.-Col. Smith, and Captains Hemming and Wadmore, as well as by the Non-Commissioned Officers of the Royal Regiment of Canadian Infantry, in every detail of their duties. They abundantly proved the immense value, of a permanent regimental organization, which can train Officers and Non-Commissioned Officers for the performance, in so ad-

mirable a manner, of a very difficult duty.

9. The training, of the Royal Regiment of Canadian Infantry itself, was an important feature of the Camp at Levis. On its first arrival in Camp, though each company was, no doubt, trained and organized according to the standard of its commander, it was very apparent, that, inasmuch as those standards varied from one another, so also did the degree of efficiency of the companies vary. It was necessary to assimilate their instruction, and to infuse into all ranks a definite idea, as to the standard of efficiency which must be aimed at. The systems of administration, in the different companies, varied considerably, for the Officers, responsible for them, had not been themselves trained in the school of a regiment, and, therefore, could not, from mere theoretical study, evolve, each one, the same model of administration. By degrees, in the course of six weeks, the four companies were moulded into a more homogeneous whole. less efficient, being removed from their habitual surroundings, and brought into contact with other companies, could not fail to become conscious of their shortcomings, in a way that could not be brought home to them, in their separate stations. Being all for a time under one control, and under constant supervision, the misinterpretation of orders which, from various causes, is liable to occur in widely scattered stations, became impossible. All ranks were thus brought under an uniform system of administration, the principles of which, being now engrafted in the regimental system, will form a basis for the uniform instruction of the Active Militia in administrative duties. The beneficial result, which must accrue, to the bulk of the Militia throughout the Dominion, can hardly be over-estimated, since it is evident, that where formerly a Permanent Company maintained a low standard of efficiency, the instruction of the Active Militia, for which that Company furnished a school, would bear the impress of its inferior standard.

10. I do not propose to enter upon a detailed account, of the tactical instruction, of the Royal Regiment of Canadian Infantry. It was of the character, which marks the modern system of military instruction, in Her Majesty's Army. Broadly speaking, it consisted of a graduated series of tactical problems, which had to be solved by the Officers in the field, under conditions assimilated, as nearly as possible, to those of active service. All ranks showed the keenest interest in this training, which was entirely new to them. The ideas on military training, which have been handed down traditionally in Canada, are those of a bygone age, antecedent even to the introduction of the breech-loader, and though the more recent changes, in certain forms of drill, have been adopted, the tactical requirements, on which these changes are based, have been ignored. It is only by the practical exemplification of tactical problems, that Officers, and Non-Commissioned Officers can be taught their duty, as leaders of tactical units. By practical instruction alone, can they be brought to realize the importance of those details, in the daily routine of a soldier's life, which, for want of proper knowledge, they are apt to regard as mere forms, and to carry out in a perfunctory manner.

11. For the purpose of a practical training of the character I have indicated, it was necessary to have available, a considerable extent of government ground, presenting various natural features, suitable for the illustration of a variety of tactical problems. This condition was admirably fulfilled at Lévis, and the important strategic position of Quebec, being ever present, introduced an element of realism, which added largely to

the interest of the instruction.

12. Valuable practical experience of another kind, was offered to those of the Permanent Force, who attended the camp at Lévis, and to the Officers commanding the depôts of the Royal Regiment of Canadian Infantry, by a study of the arrangements for the concentration of the various units. These arrangements were most carefully worked out, in great detail, by Col. Lake, Quarter Master General, and were of such a nature, as to afford to the officers who studied them, an idea of the careful work which is required from an Officer of the General Staff of the Army.

13. The highest praise is due to Lt-Col. Otter, for the tact which he displayed, in endeavouring gradually to remove the many imperfections, which were observed in the regiment temporarily placed under his command, while at the same time giving encouragement to all ranks. He was assisted by a zealous adjutant in Capt. McDougall, an indefatigable Quartermaster in Capt. Denison, and by a first rate Sergeant-Major.

14. I cannot close this report without a word of acknowledgment of the assistance given by Lt.-Col. Duchesnay, D.A.G., No. 7 District, by Lt.-Col. Forrest, Superintendent of Stores, and by all the Officers of the Royal Canadian Artillery, quartered at Quebec. They all, in their various spheres, did their utmost, to contribute to the comfort,

and social enjoyment, of all ranks.

15. Personally, I must express myself well satisfied, not because I consider that the highest point of efficiency has been attained, but because a very considerable step has been made, towards a fair degree of efficiency. I appreciate the zeal that was displayed by all ranks, the desire they showed for improvement, and I feel that they returned to the regular duty of their several stations, with their minds enlarged to the really wide scope of their military duties. I earnestly hope that the system so successfully begun, may be continued year by year.

I have the honour to be, sir, Your obedient servant,

> IVOR HERBERT, Major General, Commanding Canadian Militia.

OTTAWA, 30th October, 1894.

(APPENDIX K.)

From Lieut.-Col. J. F. Wilson, R. C. Artillery, to the Inspector of Artillery.

FIELD ARTILLERY PRACTICE,

CITADEL, QUEBEC, 20th November, 1894.

- Sir,—1. I have the honour to report that, in accordance with G. O. (69), dated 11th August, 1894, I proceeded to Montreal on the 11th September, en route to Laprairie, to take over command of the Artillery practice camp. I was accompanied by Captain O. E. Pelletier, R.C.A.
- 2. At 7.30 a.m., on 12th September, I met the advance party of "A" Field Battery, R. C. A., at the Bonaventure Station, Montreal. Strength of party, 1 N. C. Officer, 6 gunners. With this party I proceeded to Laprairie at 12 o'clock mid-day on 12th September, and pitched the camp on the ground previously selected by the Inspector of Artillery.
- 3. "A" Field Battery, R.C.A., under Major C. W. Drury, R.C.A., strength, 60 Officers, N. C. O's. and men, and 33 horses, reported at Laprairie at 6.30 o'clock a.m. on the 13th September.
- 4. Surgeon-Major F. W. Campbell, R. R. C. I., reported at Laprairie at 12.30 o'clock p.m. on the 13th September, and assumed medical charge of the camp.
- 5. A draft from the R. C. A., Quebec, strength, 1 N. C. Officer, 12 gunners, 1 trumpeter, reported at Laprairie at 2.30 p.m. on the 16th September.
- 6. The Secretary of the D. A. A. reported at Laprairie at 9.30 o'clock a.m. on 17th September. This officer attended the gun practice as the statistical officer for the Dominion Artillery Association.
- 7. The gun practice began at 9 o'clock on the morning of the 17th September, under the direction of Major C. W. Drury, R.C.A., as Umpire-in-Chief, assisted by Capt. C. H. Ogilvie, R.C.A., and Lieut. H. E. Burstall, R.C.A.
 - 8. Detachments from Field Batteries arrived, fired and departed, as follows:-

Detachment.	Arrived.	Fired.	Departed.
1st Brigade	17th do 12 noon 18th do 8 a.m 18th do 12 noon 19th do 7.30 a.m 19th do 5.30 p.m. 20th do 7.30 a.m. 21st do 12 noon 21st do 3.30 p.m. 21st do 3.30 p.m. 24th do 7.30 a.m.	do 19do 19do 20do 21do 21do 22do 24do 24	19th do 3 p.m. 19th do 6.45 p.m. 20th do 3.30 p.m. 20th do 6.40 p.m. 21st do 2.30 p.m. 22nd do 3.50 p.m. 22nd do 3.15 p.m. 24th do 3.15 p.m. 25th do 3.30 p.m.

The report on the gun practice, from the Umpire-in-Chief, is forwarded herewith.

- 9. The detachment from the London Field Battery was disqualified by the Umpire-in-Chief, whose report on this matter has already been forwarded under separate cover.
 - 10. The conduct of the troops in camp was excellent.
- 11. The health of the troops and horses was excellent. No casualties of any kind occurred.
- 12. The draft from the R. C. A., Quebec, under Captain O. C. Pelletier, R.C.A., left Laprairie at 3.30 p.m., on the 26th September and returned to Quebec.
- 13. "A" Field Battery, R. C. A., under Major C. W. Drury, R. C. A., left Laprairie at 6.30 p.m. on the 26th September and returned to Kingston.
- 14. The N. C. officers composing the staff of the camp were insufficient in number in proportion to the work to be performed. The N. C. Officer acting as Q. M. Sergeant had charge of the supply and issue of all ammunition, and had charge of and was responsible for all rations issued to the troops and horses. The number of detachments arriving and departing daily entailed very close attention to the issue of rations. The daily routine work of the Q. M. Sergeant in camp was, in consequence, not carried out as it should have been. The want of an Orderly Room Clerk was experienced.
- 15. I was obliged to ask for an additional number of N. C. O's. and men, than had been allowed, as I found it was impossible to supply the necessary daily details with the men at my disposal. It was to supply this requirement that the draft was sent from R. C. A., Quebec.
- 16. The guns, limbers and two wagons, for the artillery practice, were supplied from the Montreal Field Battery. Several advantages would result from the Permanent Unit being, on future occasions, furnished with its own material, and if the number of guns was increased to six some delay would be obviated, as while one detachment was carrying on its gun practice in the field, another detachment, waiting in camp, might be examined in gun laying and fuze boring. This arrangement would entail the services of one additional Officer and one additional N. C. Officer.
- 17. The rates charged by the Richelieu and Ontario Navigation Company for transporting guns, horses, &c., were excessive, and the ferry service was uncertain and unsatisfactory owing to constant fogs on the river, lowness of water and prevailing high winds.
- 18. The camp equipment was supplied from Military District No. 5. The stores supplied were of good material, and I heard no complaints. The tents, manufacture of 1885, and in use for the first time, stood the test of two severe rainstorms without admitting any water. The stores were returned in good order and there were no deficiencies.
- 19. The rations supplied by the different contractors were satisfactory in every detail.
- 20. Of the projectiles used at gun practice, the common shells were manufactured at the cartridge factory, Quebec; the shrapnel were the zinc studded projectiles (1872) imported from England.
- 21. The ground was suitable, so far as the practice of "ranging" was concerned, offering facilities for long water ranges, and land ranges of shorter distances. The disadvantages of the place, as connected with the particular requirements of the camp itself, were that all the water for the troops had to be drawn from the river in barrels; the ground is of a hard clay soil, which does not shed the water.

- 22. The order of dress of the troops on parade was not uniform. In many cases the badges of rank worn were incorrect, and the tracing lace and braiding of jackets not in accordance with regulations. It might be deemed worthy of consideration to give an extra credit, added to points for gun practice, for the general turn-out of a detachment on parade.
- 23. Owing to the numerous annual autumn fairs being held at this season of the year throughout the country, it would be advisable, if possible, to hold this camp of instruction at an earlier date.

I have the honour to be, sir, Your obedient servant,

> J. F. WILSON, Major and Lieut.-Col., R.C.A., Camp Commandant.

(APPENDIX

RESULTS of Battery service and Competitive practice

			1				-	-	
		ies,		Time from	n Action	to	Round.	ry fire.	70
Battery.	Officer Commanding.	Number of Series.	1st Gun.	1st Shrapnel.	Ordinary Fire.	End of Series.	Rate of fire per	Rate of Ordinary	Range in Yards
			, ,,	, ,,	, ,,	, ,,	, ,,	"	
Welland Canal	LtCol. Frank King	III	1 10 1 30 2 06	9 00 9 02 8 00	11 20 18 23 11 45	16 51 19 01 14 20	50·5 1 03·4 47·7		1950 1325 1125
Toronto	Major Mead	III	2 05 1 20 2 30	8 45 7 30 7 30	11 40 10 30 10 05	13 40 13 15 12 30	41 44·2 41·7	12 19 19	2000 1350 1200
Ottawa	Major Bliss	III	1 30 45 55	7 45 7 08 7 25	16 34 13 34 11 25	17 40 15 05 13 20	53 50·3 45	12 14 15	1900 1250
Hamilton	LtCol. Van Wagner	III	2 55 1 50 1 50	10 40 8 25 6 35	16 40 15 00 9 40	18 25 16 50 11 00	55·3 56·1 36·7	20 12 19	1975 1300 1150
Quebec	Major Boulanger	III	1 48 1 22 1 55	9 15 7 18 7 41	15 20 11 10 10 30	18 03 14 45 13 15	54·2 49·2 44·2	29·7 21·4	1950 1300 1150
Montreal	Major Hon. J. S. Hall,	III	1 24 1 40 50	6 00 7 15 6 00	10 00 12 00	20 00	1 00		2200 1200 1050
Shefford	LtCol. Amyrauld	III	1 28 2 05 1 27	8 50 7 30 7 09	13 36 12 00 16 58	18 30 16 25 17 47	55·5 54·7 59·3	25.6 25 15	1950 1225 1075
Gananoque	LtCol. McKenzie	III	1 40 1 30 1 50	9 29 9 40 8 30	10 50 18 20 12 50	16 45 19 00 14 40	50·2 1 33 48·9	20 20 14	2275 1275 1175
Kingston	Major Drennan	III	2 30 1 15 1 30	14 15 5 30 6 00	17 15 9 30 9 15	19 40 11 40 11 15	59 38·9 37·5	17 23 15	2100 1300 1150
	LtCol. McLean	III	1 50 1 28 1 45	7 15 7 45 6 05	9 20 12 48 12 14	16 40 16 40 14 35	50 55·5 48·6	18 27 14	1925 1250 1075
	Major Davidson	III II	2 29 1 35 2 25	13 55 7 35 7 45	25 45 11 50	27 40 15 35 14 00	1 23 51·9 46·7	25 25	2075 1150 1125
	LtCol. Nicoll	III	1 40 1 10 1 30	8 00 9 10 6 15	15 04 14 58 8 50	16 55 17 20 12 30	57·8 41·7	14 18 22	1950 1200 1125
		III	$\begin{array}{c} 1 & 52\frac{5}{12} \\ 1 & 18\frac{3}{3} \\ 1 & 42\frac{3}{4} \end{array}$	$\begin{array}{c} 9 & 25\frac{3}{4} \\ 7 & 49\frac{1}{6} \\ 7 & 04\frac{7}{12} \end{array}$	$\begin{array}{c} 14 \ 51\frac{3}{11} \\ 12 \ 44\frac{9}{11} \\ 11 \ 26\frac{5}{6} \end{array}$	$\begin{array}{c} 19 \ 14\frac{1}{12} \\ 15 \ 57\frac{9}{11} \\ 12 \ 36\frac{5}{6} \end{array}$			

K-Inclosure.)

at Laprairie, Quebec, from 17th to 25th September, 1894.

No. Rounds	of sfired.		Effe	et.	Ave.	rage of	C	redit	s s.	nce.	Fi: Disc lin	e.		
Ranging Com. Shell.	Shrapnel.	Target.	Total Hits.	Men Hit.	Hits per Shell.	Men Hit per Shell.	1st Series.	2nd Series.	3rd Series.	*50 p.c. Allowance.	Points lost for errors, &c.	*Credits Awarded.	*Total Credits.	Remarks.
8 6 6	12 12 12 12		7 20 42	20	·87 1·11 2·33	i·ii	14	40		69	7 5 6	82	151	
8 6 6	12 12 12		3 7 43	 1 19	·15 ·39 2·39	i · 06	6	14	*87	53.5		84	137.5	*1 dummy knocked down
8 6 6	12 12 12	. 1. afantry.						38	48	45	4 8 7	81	126	
8 6 6	12 12 12	ig. les as No sany of in	1 29 24		1.33	61	2	58	*50	55	18 11 9		117	*2 dummies do
8 6 6	12 12 12	advancir 4 dummi g a com	1 13 38	2 21	· 05 · 72 2·11	i 17	2	26	76	52	17 12 9		114	
8 6 3	12 12 12	 4 barrels representing 4 guns advancing. 4 dummy guns in action and 4 dummies as No. 1. 45 dummies in line representing a company of infantry. 	8 25	1 7	1.60	47		16	50	33	9 7 10	74	107,	
8 6 6	12 12 12	presentir uns in ac in line re	2 15			72					8	83	100	
8 6	12 12 12	barrels re lummy g lummies	1 13 13	1 16		89	2		*26	27.5	11 13 4	72	99.5	*1 dummy down.
8 6 6	12 12 12	ries— 4	2 7 15	11	·39 ·83	.61	4	14	30	24	7 5	73	97	
8 6 6	12 12 12	No. 1 Series—	4 7 5	1 3	·20 ·39 ·28	17	8	14	*10	··· i8	7	70		*4 dummies down.
8 6 6	12 12 12		 5 9	7	28			10	18	14	12		80	
8 6 6 3	12 12 12		2 1 6	1 6	·10 ·05 ·33	28	4	2	12	9	13 15 7	65	74	
					,							·		

J. F. WILSON, Major and Lt.-Col., R.C.A., Camp Commandant, Laprairie.

From Major C. W. Drury, R.C.A., Umpire-in-Chief Field Artillery Practice, Laprairie, to Lieut.-Col. J. F. Wilson, R.C.A., Commanding Field Artillery Practice Camp, Laprairie.

KINGSTON, 14th January, 1895.

SIR,—As umpire-in-chief, I have the honour to submit the following report upon the Field Artillery Practice held at Laprairie in September last.

Objects of the Practice.

The object of the practice at Laprairie was to obtain effective fire from the field batteries of the Active Militia, and to test the capabilities of the several officers in command, while providing instruction for all ranks by daily criticism of the work performed by them.

Fire Discipline.

The first condition for effective fire is "fire discipline." Fire discipline has been defined as "that condition of training and discipline which gives the commander complete control of the fire of the battery under all the changing circumstances of "battle."

The control of fire is dependent on the Commanding Officer, and before a battery can produce the maximum effect of fire, it must be perfectly drilled and disciplined, or, in other words, the ordinary training of the soldier is the foundation, on which fire discipline, and the consequent fire effect, must be built up. The results of the recent practice showed that the batteries which obtained most credits for fire discipline, as a rule, secured the highest proportion of hits. Consequently, the success of a battery at the targets greatly depends upon the power of the commander to direct its fire.

Time.

Time is a most important factor in determining the effect produced by a battery in action.

I would suggest that every Commanding Officer make a careful study and compari-

son of the several records of time taken at the Laprairie practice.

The average time for twelve batteries taken for each series, taken from the word "action" to "first gun," was as follows: 1st series, 1' $52\frac{5}{12}$ "; 2nd, 1' $18\frac{1}{3}$ "; 3rd, 1' $42\frac{3}{4}$ ". This was very fair for muzzle-loading guns, but as the conditions and view of the targets were the same for all, the variation between the maximum and minimum in each series seems altogether too great.

The serious consequences which might occur from a battery being silent after the guns are brought into action is a matter that cannot be too forcibly impressed upon all

ranks

The "deliberate method" of coming into action gives ample time for preparation;

therefore, there is no excuse for delay in firing the first gun.

The firing in both natures of fire was slow. Unnecessary delays, for various reasons, occurred when changing from common to shrapnel. In no case did a battery approach the time limits allowed for the series, i.e., two rounds per minute. It was deemed advisable not to enforce the penalty in the time limit rule this year, owing to the conditions of the practice being so new to all; next year, however, I would recommend its being rigidly observed and the battery deprived of any rounds it may not have fired within the time allowed.

Occupation of Position.

It is much to be regretted that the nature of the ground did not permit of testing the capacity of the several Commanding Officers in reconnoitring and selecting positions or in the choice of method of coming into action; since the uniformity of Laprairie Common was such that it precluded the possibility of such test. The umpires, therefore, besides pointing out the general alignment of the battery, directed that the

"deliberate method" should be followed in the first and second series and the "direct" in the third. In connection with this subject I would remark that the employment of the "deliberate method" under the conditions existing at Laprairie, in the second series, is hardly in accordance with the spirit of the instructions. As the target was plainly visible and the range comparatively short, there was nothing to be gained by adopting the "deliberate method," yet for the sake of instruction and for testing of the knowledge of the Commanding Officers in this method, it proved useful.

Series III. "The Direct Method."

Although it was evident that one or two Commanding Officers thoroughly understood what was required, the situation was not grasped by the section commanders and gun layers, clearly demonstrating the want of training in their duties.

Ranging.

The ranging with common shell was good, but in most cases the corrections for "fuze finding" with shrapnel were quite wrong. As a rule, the ranging at the infantry target was very slow. This was especially the case when "fuze finding." When a battery is exposed to infantry fire it is evident that the rate of fire of a battery must be the highest possible, if an effect is to be produced.

A frequent cause of delay was that battery commanders waited to see the result of the first pair of shrapnel before giving out the next length of fuze, whereas it would have been quite within the instructions to give out a length for each section, one of

which at the short range would, no doubt, have been correct.

Observation of Fire.

Observation of fire is a matter requiring anxious thought and long practice. Its difficulties are not always appreciated by those who criticize the fire effects of artillery.

The observation of fire was not particularly good; commanders did not make use of observers to assist them. In many cases, section commanders were noticed watching the results of the shots, consequently neglecting the supervision of their detachments.

Concentration and Distribution of Fire.

In series II. the target was "Artillery" placed at short range.

In series III. it represented an attack of infantry.

As a rule, concentrated fire was maintained throughout the practice at both these

targets.

Only one Commander thought of distributing his fire. So marked was the concentration that in one instance in series III., during "ranging," several dummies were knocked down in the centre of the line of infantry, but the fire was maintained at the gap, leaving the dummies on the flanks untouched.

A study of clause III., page 97, Field Artillery Drill, respecting distribution, would

be desirable.

Suggestions.

It is to be hoped that the practice of next year will include a series to fire from behind cover. This is now a most important feature of artillery warfare. It could be admirably carried out at Laprairie by using the railway embankment as cover.

I would also recommend that a longer period be allowed for the camp. The pressure

of work this year was too great for the time allotted to it.

I have the honour to be, sir, Your obedient servant,

> C. W. DRURY, Major, R. C. A., Umpire-in-Chief.

(APPENDIX L.)

From the Assistant Adjutant General for Artillery to the Major General Commanding Canadian Militia.

SIR,—I have the honour to submit herewith the inspection reports of the Field Batteries, Battalions and Companies of Artillery which have performed their annual drill for 1893-94, and further to report as follows, viz.:—

FIELD ARTILLERY.

The following batteries assembled for training in camp at the places and on the dates specified:—

Military District.	Battery.	Place.	Date.
No. I	London	LondonBerlin	1894. June 12. Sept. 17.
No. II	Hamilton	Toronto	June 5. do 5. do 12.
No. III	Durham Kingston	Port Hope Kingston	June 12. do 12.
No. IV	Gananoque Ottawa	Gananoque Ottawa	June 12. do 12.
No. V	Montreal	Montreal	June 23.
No. VI	Shefford	Granby	Aug. 27.
No. VII	Quebec	Point Lévis	July 2.
No. VIII	Newcastle	Newcastle	Aug. 7. July 3.
No. IX	Sydney	Sydney	July 17.
No. X	Winnipeg	Winnipeg	June 18.

^{2.} The modern system of Field Artillery training involves the unaided handling of a battery in action by its own officers, and the technical administration of its fire by the Officer Commanding, who is responsible for the carrying out of those principles involved in the Fire Discipline of the unit.

In order to carry the above system into effect, and with a view to bringing the Field Batteries of the Canadian Militia into accordance with the above stated requirements

of modern tactics, the following special instruction was authorized :-

3. Classes for the instruction of the Officers Commanding Field Batteries in Ontario and Quebec were formed, as provided in General Orders 26, 1894, under Major Drury, R.C.A., at the Tête de Pont Barracks, Kingston. The courses of instruction were from the 29th May to 1st June, and from the 7th to 10th August.

With the same object in view, an extra day's drill was allowed to the Field Batteries in Manitoba, New Brunswick and Nova Scotia, and an Officer of the R. C. A. was

detailed to act as an instructor to each during their annual drill.

The Kingston and Quebec Field Batteries were attached during their annual drill to "A" and "B" Field Batteries, R. C. A., respectively, for discipline, instruction and subsistence.

The practice of bringing Field Batteries of the Active Militia into this close con-

nection with Permanent Units has been found of great advantage.

4. Range Finding.—Instructional practice in this system formed part of the annual training of all except the London and 1st Brigade Field Batteries, for which no safe range was available. The practice was carried out under the superintendence of the Inspecting Officer and in accordance with Imperial regulations. Owing, however, to the insufficient number of horses allowed to Field Batteries, practical instruction in the system of supplying ammunition from wagons had to be omitted.

5. Annual Gun Practice.—Detachments from the thirteen Field Batteries in Ontario and Quebec carried out their annual competitive gun practice in camp at La-

prairie, near Montreal, in accordance with General Orders 69, 1894.

The Officers, N. C. Officers and men were attached to "A" Battery, R. C. A., for discipline, instruction and subsistence. A special syllabus of instruction based upon the Rules for Practice, as carried out by the Royal Artillery at Okehampton, was issued. The competition included fuze boring, gun laying, fire discipline and gun practice; the latter was carried out at three targets, representing artillery at distant and medium ranges, and infantry at close range.

Each detachment remained in camp for two days.

The following table shows the strength and composition of each detachment:

Batteries.	Major.	Captains.	Lieutenants.	Staff.Ser-geant.	Sergeant,	NC. O.'s or Gunners.
Montreal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 2 2 1 1 2	2 1 2 2 2 2 2 2 2 2 1 2 1 2 1	3 3 3 3 4 3 1 3 2 2	1 2 1 1 4 1 2 3 4 1 3 2

6. The reports of Lieut.-Col. Wilson and Major Drury, R. C. A., who were in

charge of the camp and practice respectively have been forwarded to you.

7. It will be noted that only two Officers and six N. C. Officers of each battery were authorized to attend this instructional camp, the service of the guns, &c., being undertaken by "A" Battery, and the efficiency of the former only was tested. The practical training of a battery in field manœuvres, choice and occupation of a position and range finding must therefore be accomplished during its annual drill, and to ensure efficiency it

19-35**

is very evident that not only should the Officers and N. C. Officers receive a practical training by being attached for a course of instruction to a permanent Battery of Field Artillery, but that recruits should receive their preliminary instruction by attendance at

voluntary drills before going into camp.

8. Gun practice was carried out at local headquarters by the Winnipeg, Sydney, Newcastle and Woodstock Field Batteries during their annual drill. No marks were allotted for fire discipline, the hits on the targets only being noted and credits awarded according to the "Rules for Marking," published for the Canadian Artillery, 1893. No relative standard can, therefore, be established between the results obtained by these batteries and by those which fired at Laprairie.

GARRISON ARTILLERY.

9. All the Battalions and Companies called out for training for 1894-95 performed

their drill at local headquarters.

10. The annual drill and gun practice of the Garrison Artillery in Military District, No. 9, Nova Scotia, was arranged for with a view to insuring a more thorough and practical training than has hitherto been found possible. The modern system of artillery defence, involving a suitable division of duties among the *personnel* of a fortress, and a perfect artillery organization and fire control, can evidently only be effectively taught by actual training in the works, and with the guns to which the troops would be detailed on mobilization.

11. Arrangements were accordingly made, with the concurrence of the General Officer Commanding Her Majesty's Forces in British North America, for the formation of a camp of instruction for the Militia Garrison Artillery at Ives Point, MacNab's Island, Halifax. The camp was under the command of the Inspector of Artillery, who was assisted by an instructional staff of one Officer and four N. C. Officers from the Royal Artillery.

From the 20th to the 31st August the camp was attended by detachments from the four companies of the Halifax Battalion, with an average daily strength, exclusive of staff, of six Officers and sixty N. C. Officers and men. From the 3rd to the 9th September the camp was attended by detachments of two Officers and twenty N. C. Officers from the Digby, Yarmouth, Mahone Bay and Pictou Companies respectively.

12. The routine of instruction was as follows, viz.: Early morning parade, squad and marching drills under Company Officers, morning and afternoon parade, gun drill, gun laying, group drill and fort manning details under instructors. All officers were instructed in the use of the Depression Range Finder

The gun drills, &c., were carried on with the guns of the armament of Ives Point

Fort, which is in close proximity to the camp.

13. Practice.—This was carried out, under authority from the General Officer Commanding Her Majesty's Forces, from two 9-inch guns mounted on the defences at York Redoubt, and was under the general superintendence of the Officer Commanding the Royal Artillery.

Each detachment, after having gone through three days' preliminary instruction, fired from five to eight rounds plugged shell, at a target towed by a steamer at from five

to six knots an hour, and at ranges varying from 1,850 to 2,500 yards.

The organization of the tactical unit, in this case represented by a group of two guns, was completed by the officers and men under instruction, and the duties of fire commander, group officer, range finders and ammunition supply officer were taken in rotation by the officers on duty with their detachments.

In so far as regards direction and elevation, the practice was extremely good, but the time taken was somewhat slow, owing to the inexperience of the officers in ascer-

taining and predicting ranges.

There was no competition in connection with this practice, but should a similar instructional camp be authorized in 1895, it will be desirable to introduce the element of competition into the practice.

14. The annual gun practice of company detachments from the Garrison Artillery in Military Districts 3, 7 and 8 was carried out in accordance with General Order 53, 22nd June, 1894.

The competitions at the Island of Orleans, Quebec, Fort Dufferin, St. John, and Charlottetown, Prince Edward Island, were under the superintendence of the Inspecting

Officers and in accordance with the modern system of drill.

The results of fire were marked in accordance with the rules for practice for Cana-

dian Artillery, 1893.

I forward herewith a summarized statement of the scores made by detachments of Field and Garrison Artillery at the several localities where gun practice was carried out.

15. Material.—There have been no changes in field artillery material during the year, the stores and equipments have been maintained in a serviceable condition. No arrangements have yet been made for repair in store of part worn harness and saddlery.

The Garrison Artillery material at Quebec has been increased by the receipt on loan from the Imperial Government, for instructional purposes, of one 9-inch 12-ton R. M. L. gun and one 6-in. B. L. gun, both guns being complete with carriages and mountings. The guns have been mounted in the Drill Shed, Quebec.

A 40-pounder R. B. L. gun, with carriage and wagon, was transferred from Kings-

ton to Quebec.

The issue of the stores necessary to complete "A" and "B" Batteries, R. C. A., on mobilization is being proceeded with.

Ammunition.—The ammunition reserve for the armaments of Quebec and Kings-

ton is reported to be complete and in a serviceable condition.

The supply of 9-pr. R. M. L. ammunition from the cartridge factory, Quebec, has not been sufficient to meet the annual expenditure of shrapnel shell; therefore it has been necessary to draw on the small reserve existing. 20,000 shrapnel shell and 3,600 common shell are required to complete the necessary reserve of projectiles for the Field Artillery.

> I have the honour to be, sir, Your obedient servant,

> > D. T. IRWIN, Lieut.-Col., Assistant Adjutant General for Artillery.

(Inclosure I in Report of Acting Adjutant General for Artillery.)

RESULT OF ANNUAL GUN PRACTICE.

FIELD ARTILLERY—CLASS I.

Field Battery detachment at Laprairie Camp.

Battery.	Number of Rounds.	Fire Discipline	Result of Fire.	Total.	Remarks.
Welland Canal Toronto. Ottawa Hamilton Quebec Montreal. Shefford Gananoque. Kingston Durham 1st Brigade. \{\begin{align*}No. 1 \\ No. 2 \\ \end{align*} London	ll, 36 three unges.	82 84 81 62 62 74 83 72 73 70 66 65	69 53·5 45 55 52 33 17 27·5 24 18 14 9	151 137·5 126 117 114 107 100 99·5 97 88 88 80 74	1st prize, Dom. Art. Association. 2nd do do 3rd do do Credits awarded in accordance with special syllabus of instruc- tion.

CLASS II. Field Batteries at Local Headquarters.

Battery.	Number of Rounds.	Results of Fire.	Remarks.
Woodstock	32 common shell, 16 shrapnel shell at 2 targets and different ranges.	321 207 189 187	1st prize, Dominion Artillery Association. 2nd do do Credits awarded in accordance with Rules for Practice, 1893.

Garrison Artillery—Class I. Company detachments at York Redoubt, Halifax.

Detachments.	Range.	Number of Rounds	Results of Fire.	Remarks.
Halifax Batt., No. 1. \begin{pmatrix} No. 1 & \begin{pmatrix} No. 2 & \\ do & No. 3 & \begin{pmatrix} No. 1 & \\ No. 2 & \\ No. 2 & \\ do & No. 4 & \begin{pmatrix} No. 1 & \\ No. 2 & \\ N	1800 to 2000 1800 to 2000 1850 to 2150 1850 to 2450 1750 to 2150 1750 to 2150	8 8 8 5 5 5	66 66 87·5 83·3 75 87·5 87·5 87·6 66 100 90 60 80	Imperial regulations. No competition in connection

CLASS II.

Company detachments at Isle of Orleans, Quebec.

		Number	Results	of Fire.	
Detachments.	Range.	of Rounds.	64-pr.	40-pr.	Remarks.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,25 M	ser 12 common shell, 3 shrappel shell, 64-pr., R.M.L. 9 common shell, 40-pr., R.B.L.	52 56 65 24 55 71 38 45 33 64 64	40 37 47 6 38 44 48 39 34 45 46	1st prize, 64-pr. 2nd prize, 40-pr. 1st prize, 40-pr. 2nd prize, 64-pr.

Company detachments at Charlottetown, P.E.I.

Company.	Range.	Number of Rounds.	Results of Fire.	Remarks.
P. E. I. Batt. (No. 1)	1,550 yds	{ 12 common shell, 3 shrap- nel shell, 40-pr., R.B.L.}	82 \\ 56 \{	Credits awarded in accordance with Rules for Practice, 1893. Land ranges.

Company detachments at Fort Dufferin, St. John.

Company.	Range.	Number of Rounds.	Number of Fire.	Remarks.
New Brunswick Batt- No. 1	S. 2	12 common shell, 3 shrap- nel shell, 64-pr. R.M.L.	31·5 22· 5 23· 32·	Credits awarded in accordance with Rules for Practice, 1893. Sea ranges.

D. T. IRWIN, Lieut.-Col., Asst. Adjt. General for Artillery.

(APPENDIX M.)

REPORT ON THE ROYAL MILITARY COLLEGE OF CANADA FOR THE YEAR 1893-94.

ROYAL MILITARY COLLEGE, KINGSTON, 29th September, 1894.

The President Royal Military College of Canada.

Sir,—I have the honour to transmit herewith a report on the work of the Royal Military College for the term 1893-94.

I have the honour to be, sir, Your most obedient servant.

D. R. CAMERON,

Commandant.

The progress made in studies has been highly satisfactory.

At the close of June, 1893, a comparison of the marks gained in each class with the marks gained in the preceding year by the same classes, showed that in all but the 4th class—the last joined—there had been decided improvement.

The falling off in the 4th class was attributable to—or at least attributed to—de-

ficiency of average attainments on joining the college.

The same cause appears to be operative still with the members of that class.

On the other hand, all the other classes have increased their scores by very large numbers of marks—not merely in excess of what was accomplished in 1891-92, but in excess of the far higher marks gained in 1892-93.

Years,	1st Class.	2nd Class.	3rd Class.	4th Class
1893-94	18,307	15,177	8,240	4,315
1892-93	15,203	10,685	9,260	3,693
Difference	+3,104	+4,492	1,020	+622

Comparing the work of the graduating class of this year with the work of the graduating class of last year, it is found that the average for the whole four years' course is largely in favour of this year's graduates.

The class of 1894 gained an average of 41,618, that of 1893 gained 37,915.

During the fourteen years in which the college has passed graduates—on only two occasions, one in 1882 and the other in 1892—has a graduate succeeded in gaining more marks than, this year, are taken by Sergt. Geo. F. Folger Osborne and by Sergt. Vernon Lemuel Beer.

It has been very gratifying to the professors, graduates, and present students of the Royal Military College, that His Excellency the Governor General—when recently in Kingston—was pleased to remark in appreciative terms, on the reputation for effi-

cient and important work gained by the college.

Expressing regret that he could not at that time visit the institution, His Excellency intimated his intention to do so later on, and, since then, has graciously presented a gold medal, a silver and a bronze medal for the most distinguished eligible graduates of this year, with authority for announcing that similar evidence of His Excellency's most highly valued interest in our work will be annually repeated during his term of office.

As a fresh indication of growing appreciation of the value of the College curriculum—it gives me great satisfaction to state that the Law Society of Upper Canada now accept the passing of our obligatory and voluntary entrance examinations and the college course first year examinations—as equivalent to law students' matriculation.

Again, the experiment made by the Department of Marine and Fisheries in employing graduates of the Royal Military College, has, I am glad to believe, proved very satisfactory up to the present time, and promises to be of the greatest advantage to the college. It is for those who have secured the appointments to remember their Alma Mater, and that her interests are in their keeping.

Our congratulations upon the success which has hitherto attended them may be all the more heartily given, for the department with which they are connected is reputed

to be most strictly supervised and intolerant of inefficiency.

The General Officer commanding the Militia has decided to employ a professor of the college and a large number of this year's graduates during the vacation, in modern-

izing the military topography of the country.

I need hardly say that all connected with the college hail with delight this mark of the General Officer's appreciation of the capabilities of our graduates; and, while warmly congratulating those selected for the work, we feel assured they will do their utmost in return for the opportunities thus given to them to prove their worth and to increase the reputation of their college.

There is all but an unanimous opinion amongst the parents of Royal Military College graduates, that the result of the education and training here has been very

highly satisfactory.

Amongst the graduates themselves, too, there is an ever growing appreciation of the advantage they have had in passing through our course of studies, and from the exceptional social organization of our college life. Homing here together for four years at an age when character is assuming its permanent form, the students imperceptibly subject one another to the mastering influence of honourable ambition, and high principles, and form lasting and intimate friendships upon which depend social happiness. In no institution at which the attendants are merely class room-mates, or called together for some frolic or game, is a comparable result attainable.

Yet those who present themselves for admission to the Royal Military College are insignificantly few in number; very many fewer than is desirable, and very many fewer than can be accounted for otherwise than by a general absence of knowledge of

the education and training imparted here.

Of this education and training, Lord Derby, speaking last year with the experience of a British Public school boy, an university man, a military officer, a Secretary of State for War and a Governor General of Canada, stated his opinion to be that for preparation for civil life and for military life they—the education and training—were not excelled in any British or Continental School.

It is true that the number of students who can be received here is very small, but it does not adequately meet the aims of this National College, to attract merely enough competitors to ensure securing a sufficiency of candidates to occupy all available ac-

commodation.

The aim is to prepare men for the public service, and the selection of these should not be limited to a group of thirty or forty candidates, for the larger the number of competitors the higher will be the average standard of ability and attainments in those selected.

Before dismissing the subject of class work, it is desirable to note that in addition to every endeavour being made by the professors generally to keep up with the rapid advance being made in these days in all lines of thought, and to steady and marked progress in our mathematical course, special attention is being paid to recent development in the study of electricity, the importance of which in the future progress of the world it would be difficult to over-estimate. Even now it would be almost as unreasonable to imagine civilization without electricity as to attempt to realize civilization without mechanism.

The correlation of electric, mechanical, and chemical forces, with their application to railways, navigation, manufactures, lighting, transmission of thought and other innumerable purposes in man's service, is so wide a field that here no more can be done than to impart such a theoretical and practical knowledge of the principles governing these relations as may put our graduates in a position to easily pursue special lines of

study with success.

Our professor, however, now devotes special attention to what concerns the transmission of power by electricity, electric lighting, telegraphy and telephoning. That the professor's pupils have the advantage of having put before them advanced modern views in these subjects may be gathered from the circumstance that a part of the course of their instruction has found its way, in the form of a strikingly lucid article on Electrolysis, into the columns of the last issue of the *Electrician*, the leading British periodical devoted to electricity.

The physical condition of the cadets is all that could be desired and affords satisfactory evidence of the healthful character of the conditions of their living here. There

has been no case of serious illness, nor of serious injury during the term.

The graduating class, 15 in number, increased $412\frac{1}{2}$ lbs. in weight during their residence here, making the average increase $27\frac{1}{2}$ lbs.

The average increase in height has been 21 inches; and the average increase in

chest measurement, 21 inches.

No prize is assigned to this important department in college training. I may therefore here mention that had a prize been available it would have been won by a most distinguished competitor for he has added to his chest girth, $5\frac{3}{4}$ inches, to his weight 69 lbs., and to his stature, $8\frac{1}{4}$ inches.

It is noteworthy that while the highest classman lost most weight, 114 lbs. during

the final examination, only 3 lbs. were wasted in the efforts of the junior graduate.

It is my pleasant duty to direct attention to the remarkably high opinion formed by all the professors of the college, of the application and conduct of the present 1st class since they have joined the college.

Now the seniors, they will have still more influence than they have hitherto had, and I look forward to their stay with us during the current session as promising a most

happy result.

I congratulate very warmly the gentlemen of the class who are now about to receive their diplomas of graduation, and it will afford me a double pleasure to hear of their success in the future, the pleasure due to personal regard and the satisfaction of feeling that they do credit to their College.

I am specially indebted to them for the beneficial effect of their influence in promoting and maintaining a manly view of the requirements of discipline and of the just

supremacy of the sense of duty.

The remarkably distinguished position taken by Sergeants Osborne and Beer is a source of pride to all of us; their own satisfaction at their success cannot exceed ours at the promise they give of adding to the reputation of the Royal Military College of Canada.

To Battalion Sergeant-Major Heneker is due my special recognition of his uniform exemplary conduct, his important share in maintaining disclipine, and his marked firmness and tact in support of authority.

He has earned the esteem of all, cadets and professors, and, parting with him with

regret, we wish him every success.

Annexed to these remarks will be found a list of names of cadets brought under my notice, by the professors, for the special aptitude and application they displayed.

To these gentlemen is due, in the largest measure, recognition of merits which have served to secure a satisfactory average of progress during the past term.

The discharge of their duties by the gentlemen on the College Staff continues to be

marked by zeal in the interests of the institution.

The subordinate Military Staff, and the subordinate Civil Staff deserve approbation for meritorious application to the tasks assigned to them.

Appended to this report are:

- A. List of cadets specially noted for aptitude and application.
- B. Annual class prize list.C. "subject prize list.
- D. Subject prize list for the entire course.
- E. Aberdeen medalists.F. Diploma Pass List.
- G. Diploma Honour List.
- H. List of cadets recommended for commissions in H.M. Regular Forces.

D. R. CAMERON,

Commandant,

Royal Military College.

30th June, 1894.

(A.)

List of gentlemen cadets deserving mention for special aptitude and application in various subjects.

Mathematics.

4th Class.—Gentleman Cadet W. Anderson.

" C. Doucet.

" W. Moore.
" F. Harris.

" J. A. Cantlie.

" J. Bogart.

" R. Cassels.
" F. Courtney.

" G. Brown.

Hard workers.

3rd Class.--Gentleman Cadet H. M. Kirkpatrick.

" A. S. Evans.

" F. Gordon.

" W. Cantlie.

" D. Weatherbe.
" A. Russel.

2nd Class.—This class individually and collectively have shown the highest attainments within the professor's experience here.

Corporal G. S. Wilkes. Gentleman Cadet G. Cory.

Corporal N. Ridout

" G. Inksetter.

"G. Frith.
"J. Osborne.

" R. J. F. Hayter. Gentleman Cadet A. Brown.

Have displayed quite unusual capacity for success in scientific departments of learning.

Abilities scarcely inferior.

DEPARTMENT OF MILITIA AND DEFENCE. 1st Class.—Sergeant V. L. Beer. The professor cannot express too highly his appreciation of the abil-G. Osborne. H. B. Muckleston. | ities possessed by these gentlemen and hopes that when they leave their Alma Mater they will do justice to their intellects which have so brilliantly shown themselves in their first efforts here. Sergeant F. Osler. H. D. L. Gordon. J. D. Doull. Military Engineering. Very Satisfactory. 4th Class.—Gentleman Cadet C. Doucet. " F. Harris. F. Armstrong. 66 J. Stairs. 66 J. Bogart. 66 H. Syer. G. Brown. 3rd Class.—Satisfactory latterly. Gentleman Cadet C. Stephens. " W. Cantlie. G. Hardie. 2nd Class.—Worked extremely well. Corporal G. Wilkes. N. Ridout. R. Hayter. G. Frith.

1st Class.—Satisfactory.

Sergeant V. L. Beer. The high marks gained by these gentlemen G. Osborne. have not been exceeded in recent years.

" F. Osler.

Com. Sergt. Major R. McGee,

Sergeant J. Doull.

Practical Geometry and Engineering Drawing.

4th Class.—Very satisfactory.

Gentleman Cadet C. Doucet.

" G. Brown.
" J. Stairs.

" F. Armstrong.

" J. Bogart.
" F. Harris.

" H. Syer.

3rd Class.—Fair.

Gentleman Cadet C. Stephen.

" A. Evans.
" F. Leach.
" G. Hardie.

" W. Cantlie.
" G. Kirkpatrick.

" F. Gordon.

2nd Class.—All the class but one have passed with distinction.

Corporal G. Firth.

" R. Hayter.

G. Wilkes.

G. Inksetter.

Gentleman Cadet G. Cory. Corporal W. J. Osborne.

" Ridout.

Artillery—Theoretical.

3rd Class.—Gentleman Cadet F. M. Lockhart Gordon.

" A. S. Evans.
" Charles C. Wood.

" " Darcy Weatherbe.
2nd Class.—Entirely satisfactory. All the classes have attained to distinction. Corporal Ross J. F. Hayter.

George Sidney Wilkes.

Artillery—Practical.

3rd Class.—Gentleman Cadet F. Delamere Lafferty.

" C. C. Wood.

" C. M. Stephen.

" Guy Hamilton Kirkpatrick. 66

" H. N. Cantlie.

2nd Class.—Gentleman Cadet E. P. Brown.

Corporal George S. Wilkes.

G. R. Frith.

George Gordon Inksetter.

Gentleman Cadet George Norton Cory.

Military Law.

3rd Class.—Gentleman Cadet Guy Hamilton Kirkpatrick.

" C. C. Wood.

" F. M. Lockhart Gordon.

Peace Administration.

3rd Class.—Gentleman Cadet F. M. L. Gordon.

66

" G. H. Kirkpatrick.

66 " A. S. Evans.

" C. C. Wood.

" J. C. Holden. 66

" D. Weatherbe.

Strategy and Tactics.

3rd Class.—Very satisfactory.

Gentleman Cadet A. S. Evans.

" C. C. Wood.

" W. Cantlie.

2nd Class.—All the class unusually excellent.

Corporal G. R. Frith.

" G. S. Wilkes.
" R. J. F. Hayter.

Gentleman Cadet G. N. Cory.

Corporal N. S. Ridout.

" G. A. Inksetter.

J. W. Osborne.

Gentleman Cadet E. P. Brown.

1st Class.—Very satisfactory in all respects.

Sergeant V. L. Beer.

Com. Sergeant-Major R. E. Tyrwhitt.

Sergeant G. Osborne.

War Administration.

1st Class.—Sergeant V. L. Beer.

" G. Osborne.

" J. Doull.

Com. Sergeant-Major R. E. Tyrwhitt.

Reconnaissance.

2nd Class.—Satisfactory.

Corporal G. N. Cory.

" G. Frith.

1st Class.—Satisfactory.

Sergeant V. L. Beer.

" G. Osborne.

Batt. Sergeant-Major F. C. Heneker.

Surveying and Military Topography.

3rd Class.—Gentleman Cadet G. H. Kirkpatrick, gained over 80 per cent of full marks.

Gentleman Cadet F. Leach.

" A. S. Evans.

2nd Class.—This class has been uniformly able and diligent. Corporal G. N. Cory, exceptionally meritorious.

" S. Wilkes.

1st Class.—Very satisfactory.

—Sergeant G. Osborne.

' V. Beer.

Com. Sergt.-Major R. E. Tyrwhitt. Batt. Sergt.-Major F. C. Heneker.

Sergeant P. Thacker.

" H. B. Muckleston.

French.

4th Class.—Gentlemen Cadet C. Doucet.

66

" W. Anderson.

" F. Armstrong.

3rd Class.—Gentleman Cadet A. S. Evans.

" G. H. Kirkpatrick.

2nd Class.—This class is one of the best that has ever joined the College.

1st Class.—Corporal A. G. T. Lefevre.

Sergeant V. L. Beer.
" J. D. Doull.

Batt. Sergt.-Major F. C. Heneker.

Sergeant G. Osborne.

English Literature.

Average much higher than formerly.

4th Class.—Very good.

Gentleman Cadet C. Doucet.

" W. Moore.

" J. Bogart.

" C. Harris.

" J. Stairs.

" H. Syer.

" F. Armstrong.

3rd Class.—Gentleman Cadet A. S. Evans.

" G. H. Kirkpatrick.

" F. M. L. Gordon.

" W. H. N. Cantlie.

" G. E. Hardie.

" A. C. Caldwell.

2nd Class.—This class is exceptionally intelligent and industrious.

Corporal R. J. F. Hayter.

J Osborne.

1st Class.—Sergeant F. B. Osler.

J. D. Doull.

Com. Sergt.-Major R. E. Tyrwhitt.

Sergeant V. L. Beer.

Chemistry.

2nd Class.—This is an eminently hard working class.

Gentleman Cadet G. N. Cory.

" E. P. Brown.

Corporal R. J. F. Hayter.

Ist Class. - Satisfactory.

Sergeant G. F. H. Osborne.

V. L. Beer.

Physics.

2nd Class.—The class is of exceptional merit.

Corporal G. A. Inksetter.

" R. J. F. Hayter.

G. R. Frith.

1st Class.—Very Good,

Sergeant G. E. F. Osborne.

H. B. Muckleston.

Geology and Mineralogy.

1st Class.—All of the class have qualified, a result not previously attained.

Sergeant F. B. Osler.

G. F. H. Osborne.

" G. H. R. Harris.

Freehand Drawing and Painting.

4th Class.—Very Satisfactory.

Gentleman Cadet C. Doucet.

" J. Bogart.

" C. Harris.

" J. Stairs.

3rd. Class.—Very satisfactory.

Gentleman Cadet C. M. Stephen.

" R. C. F. Alexander.

A. S. Evans.

2nd Class.—Satisfactory.

Gentleman Cadet E. P. Brown.

Corporal R. J. F. Hayter.

J. W. Osborne. N. S. Ridout.

66

G. R. Frith.

66 1st Class.—Sergeant V. L. Beer.

" G. F. H. Osborne.

Com. Sergeant-Major R. H. B. Magee.

Civil Engineering.

1st Class.—Unprecedented as uniform hard workers.

Sergt. G. F. H. Osborne. Are practically equal in engineering capacity and capable of distinguishing F. B. Osler.

V. L. Beer. 66

themselves in the profession.

F. N. Gibbs.

H. B. Muckleston.

Batt. Sergt.-Major F. C. Heneker.

Have shown great application, quickness of apprehension and firmness. Batt. Sergt.-Major Heneker in particular has shown qualities of perseverance which are sure to command high appreciation in any profession.

Drills and Exercises.

Batt. Sergt.-Major F. C. Heneker.

Sergt. V. L. Beer.
"H. B. Muckleston.

Com. Sergt.-Major R. W. Brigstock. 66 R. H. B. Magee.

Sergeant F. B. Osler.

" G. H. Osborne.

Com. Sergt.-Major J. E. Beatty.

Sergeant H. D. L. Gordon.

Corporal F. N. Gibbs.

GENERAL PRIZE LIST.

ROYAL MILITARY COLLEGE, JUNE, 1894.

Annual Class Prizes.—Highest Proficiency.—Appendix B.

4th Class.—Gentleman Cadet Louis Claud de Brigny Doucet, St. Louis College, Montreal. " Guy Hamilton Kirkpatrick, Upper Canada College, 3rd Toronto.

Corporal Geo. Sidney Wilkes, Trinity College School, Port Hope 2nd Sergt. Geo. Fred. Folger Osborne, Collegiate Institute, Kingston. 1st

Annual Subject Prizes.—Appendix C.

Dominion Artillery Association Prizes— 3rd Class—Artillery, Theoretical. . Gentleman Cadet F. M. L. Gordon, Toronto Church School. 2nd .. Corporal George Sidney Wilkes, Trinity College School, Port Hope. Ontario Artillery Association Cup— 3rd Class-Artillery Practice Gentleman Cadet F. Delance Lafferty, private tuition. Subject Prizes.—Entire Course.—Appendix D. Mathematics and Mechanics......Sergeant George Fred. Folger Osborne, Collegiate Institute, Kingston. Practical Geometry and Engineering Drawing...... Corporal Gilbert Robertson Frith, Upper Canada College. Military Engineering Sergeant Vernon Lemuel Beer, Prince of Wales College, Charlottetown, P. E. I. Surveying and Military Topography. Sergeant Fred. Folger Osborne, Collegiate Institute, Kingston. Reconnaissance...... Sergeant Vernon Lemuel Beer, Prince of Wales College, Charlottetown, P. E. I. Artillery (theory and construction Military Administra'n and Law Sergeant Vernon Lemuel Beer, Prince of Wales College, Charlottetown, P. E. I. French...... Sergeant Vernon Lemuel Beer, Prince of Wales College, Charlottetown, P. E. I. English Sergeant Vernon Lemuel Beer, Prince of Wales College, Charlottetown, P. E. I. Kingston. Physics..... Sergeant Fred. Folger Osborne, Collegiate Institute, Kingston. Geology and Mineralogy...... Sergeant Featherston Britton Osler, Upper Canada College. Freehand Drawing and Painting... Sergeant Vernon Lemuel Beer, Prince of Wales College, Charlottetown, P. E. J. Civil Engineering...... Sergeant Fred. Folger Osborne, Collegiate Institute, Kingston. Drill and Exercise and N. C. O. Drill Instruction (combined)....Batt. S. M. Fred. Christian Heneker, Bishop's College School, Lennoxville. Conduct and N. C. O. Discipline. . . Batt. S. M. Fred. Christian Heneker, Bishop's College School, Lennoxville.

The "Aberdeen" Medals.—Appendix E.

(For the highest aggregate of marks for the whole course.)
Gold Medal.—Sergt. Geo. Fred Folger Osborne, Collegiate Institute, Kingston,
Ont.
Silver Medal.—Sergt. Vernon Lemuel Beer, Prince of Wales College, Charlotte-

town, P. E. I.

Bronze Medal.—Serg. Hugh Burritt Muckleston, Trinity College School, Port Hope, Ont.

19-4**

Diplomas.—Pass List.—Appendix F.

NAMES.

Sergt. Percival Edward Thacker.

" George Henry Ronald Harris.

Co. Sergt. Major James Edward Beatty.

Corporal Alfred G. Tully Le Fevre.

" Frank Nicholson Gibbs.

Co. Sergt. Major Robert Whish Brigstocke.

Batt. Sergt. Major Frederick Christian Heneker.

Co. Sergt. Major Robert Henry Boyd Magee.

Co. Sergt. Major Richard Edmund Tyrwhitt.

Sergt. John Doull Doull.

Sergt. Harry Duncan Lockhart Gordon.

Sergt. Featherston Britton Osler.

Sergt. Hugh Burritt Muckleston.

DISTINGUISHED IN

Civil Engineering.

Geology and Mineralogy.

Civil Engineering, Drills and Exercises.

Civil Engineering.

Civil Engineering.

Drill and Exercises.

Civil Engineering, Drills and Exercises.

Civil Engineering, Drills and Exercises.

Theory and construction of Artillery, Military History, Strategy, Tactics, Military Administration and Law, Civil Eng.

French and Civil Engineering.

Civil Engineering, Drills and Exercises.

Military Engineering, Theory and construction of Artillery, Geology and Mineralogy, Civil Engineering, Drills and Exercises.

Mathematics and Mechanics, Theory and Construction of Artillery, Civil Engineering, Drills and Exercises.

Diplomas—Honour List—Appendix G.

NAMES.

DISTINGUISHED IN

Mathematics and Mechanics, Military Engineering, The ry and Construction of Artillery, Military History, Strategy, Tactics, Military Administration and Law, Military Topography, Reconnaissance and Civil Surveying, Practical Geometry, and Engineering Drawing, French and English, Freehand Drawing and Painting, Chemistry, Civil Engineering, Drills and Exercises, N. C. Officer's Discipline.

Mathematics and Mechanics, Military Engineering, Theory and Construction of Artillery, Military History, Strategy, Tactics, Military Administration and Law, Military Topography, Reconnaissance and Civil Surveying, Practical Geometry and Engineering Drawing, Chemistry, Geology and Mineralogy, Civil Engineering, Drills and Exercises.

Sergeant Vernon Lemuel Beer.

Sergeant George Frederick Folger Osborne.

Recommended for Commissions in H. M. Regular Forces.—Appendix H.

Sergeant George Fred. Folger Osborne, Collegiate Institute, Royal Engineers. Kingston.

Sergeant Vernon Lemuel Beer, Prince of Wales College, Royal Artillery.

Sergeant John Doull Doull, Arnold School, Halifax.

Co. Sergt. Major Robert Henry Boyd Magee, Trinity College School, Port Hope.

Batt. Sergt. Major Frederick Christian Heneker, Bishop's College School, Lennoxville.

Infantry.