

Sub-strata of storage basin.
 Percolation from storage basin.
 Evaporation loss from a reservoir.
 Evaporation from water.
 do sand.
 do earth.

Ratios of evaporation.
 Resultant effect of rain and evaporation.
 Practical effect upon storage.

Supplying capacity of Water Shed.

Estimate of available annual flow of streams.
 Estimate of monthly available storage required.
 Additional storage required.
 Utilization of flood flows.
 Qualifications of deduced ratios.
 Influence of storage upon continuous supply.
 Artificial gathering areas.

Springs and Wells.

Subterranean waters.
 Porosity of earths and rocks.
 Causes of percolations.
 Subterranean reservoirs.
 Overflowing wells.
 American artesian wells.
 Supplying capacity of wells and springs.

Impurities of Water.

Composition of water.
 Solutions in water.
 Mineral impurities.
 Organic impurities.
 Tables of analysis of potable waters.
 Deep well and surface impurities.
 Vegetal organic impurities.
 Vegetal organisms in water pipes.
 Propagation of aquatic organisms.
 Purifying office of aquatic life.
 Intimate relation between grade of organisms and quality of water.
 Agricultural; mineral; manufacturing and sewage impurities.

Well, Spring, Lake and River Supplies.

Locations for wells; fouling of old wells.
 Spring waters; impregnations; mineral springs.
 Lake waters; impounding; plant growth.
 Preservation of purity; natural clarification.
 River waters; pollutions; sanitary discussions.
 Spontaneous clarification.
 Artificial do
 Sugar test of the quality of water.

Flow of Water through Sluices, Pipes and Channels.

Weight, pressure and motion of water.
 Atomic Theory—Molecular Theory.

Influence of Caloric—Relative densities and volumes.
 Weight of water and its constituents.
 Crystalline forms of water.
 Formulæ for volumes at different temperatures.
 Weight of pond water.
 Compressibility and elasticity.
 Weights of single molecules.
 Pressure of water.
 Pressure proportional to depth.
 Individual molecular reaction.
 Pressure from vertical, inclined and bent columns of water.
 Pressure on unit of surface.
 Equivalent forces; weight on measure of pressure.
 Line a measure of weight; line a measure of pressure upon a surface.
 Diagonal force of combined pressures graphically represented.
 Angular resultant of a force graphically represented.
 Angular effects of a force represented by sine and cosine of the angle.
 Direction of maximum effect.
 Pressure upon a curved surface and effect upon its projected plane.
 Centre of pressure upon a circular area.
 Sustaining pressures upon submerged and floating bodies.
 Upward pressure upon a submerged lintel.
 Syphon—Inverted syphon.
 Transmission of pressure to a distance.
 Flow of water—Action of gravity upon.
 Individual molecules.
 Frictionless motion of molecules.
 Acceleration of motion.
 Equations of motion.
 Parabolic path of the jet.
 Velocity of efflux proportional to the head.
 Conversion of the force of gravity from pressure into motion.
 Resultant effects of pressure and gravity upon the motion of a jet.
 Resistance of the air—Theoretical velocities.

Flow of Water through Orifices.

Theoretical volume of efflux.
 Converging path of particles.
 Classes of orifices.
 Form of submerged orifice jet.
 Ratio of minimum section of jet.
 Volume of efflux—Co-efficient of efflux.
 Maximum velocity of the jet.
 Factors of the co-efficient of efflux.
 Experimental co-efficients, from Michalotti, Bussuet, Rannie, Castel, Lupinasse, Ellis.
 Co-efficients diagnosed.
 Effects of varying the head or the proportions of the orifice.
 Co-efficients of velocity and of contraction.
 Variable value of velocity and contraction.
 Jets of various cross-sections.
 Flow of water through short tubes.
 Adjutage—Vacuum of adjutage, and its effect.
 Diurgent tube—Inward projecting adjutage.
 Experiments with cylindrical and compound tubes.
 Range of Egtalwein's Table.

Flow of Water through Pipes under Pressure.

Definitions of pipe and conduit.
 Theoretical volume of discharge.
 Mean efflux from pipes.
 Sub-division of the head H into h , to generate velocity in pipe; h' , to overcome resistance to entry; h'' , to overcome resistance of pipe wall.
 Resistance of the pipe wall varies directly as the length, and as (approximately) the square of the velocity, and as (approximately) the circumference divided by a junction of the area.
 Variable values of co-efficient m , and its peculiarities.
 Effects of tubercles.
 Equation of velocity neutralized by resistance to flow.
 Equation of resistance head.
 Equation of total head.
 Equation of diameter.
 Equation of volume.
 Relative value of subdivisions of total head.
 Classified equations for the above.
 Mean co-efficients for smooth, rough, and foul pipes.
 Bands.
 Branches.
 How to economize head.

(B)—*Practical Construction of Water-Works.*

Marks	{ Examinations.....	500
	{ Drawings and Notes.....	100

Reservoir, Embankments and Chambers.

Ultimate economy of skilful construction; embankment foundations; springs under foundations; surface soils; concrete cut-off walls; treacherous strata; embankment coil materials; reconnaissance for site; frost covering; slope paving paddle wall; distribution reservoirs; masonry-faced embankment; embankment sluices and pipes; gate chambers; sluice valve areas; gate chamber foundations.

Retaining Walls—Equations of stability; materials; dimensions and cross-sections of retaining-walls actually constructed.

Masonry conduits.

Mains and distribution pipes.

Distribution Systems—Hydrants; fire supply.

CIVIL ENGINEERING COURSE—SECTION V.

Mechanism and Prime Movers—Marks, Examinations, 300.

(A)—*Steam Engines and Water Engines.*

Laboring Forces—Vital, water, steam, wind.
 Friction—Laws, co-efficients, tables.
 Work—Measure, equality of moments, modulus.
 Water Engines—Wheels, pumps, ram.
 Steam—Boilers, flue, tubular, Cornish.
 Steam—Engines, condensing, non-condensing, direct acting, rotative, rotary, compound, the marine engine, the locomotive engine, the compound engine.
 Heat—Combustion, radiation, fire grate surface, evaporating surface.

Expansion of Steam and Action of the Valves.

(a) Application of the calculus to find analytically the mean pressure of the steam during expansion.
 Formula for work performed during expansion.
 Work of steam having a mean pressure.
 Work of steam considered in relation to the quantity of water evaporated.
 Tables of volume of steam derived from one cubic foot of water when evaporated under different pressures.

Modes of Estimating the Power and Performance of Engines and Boilers.

Horse-power.
 Duty of engines and boilers.
 The indicator.
 Dynamometer and gauges.
 Proportions of boilers.
 Evaporation powers of boilers.
 The blast in locomotion.
 Steam room and priming.
 Strength of boilers.
 Boiler explosions.
 Proportions of engines.
 Steam passages.
 Air pump—Condenser and hot and cold water pumps.
 Fly-wheel.
 Strength of land engines.
 Strength of marine engines.

Construction Details of Engines.

Pumping engines.
 Various forms of marine engines.
 Cylinders, pistons and valves.
 Air pump—Condenser.
 Pumps, cocks and pipes.
 Details of the screw and screw shaft.
 Details of the paddles and paddle shaft.
 The locomotive engine.

Loss of Work Due to Friction of Machines.

(b) Investigation to find analytically the work absorbed by friction of an axle in a journal.
 Practical problems on the frictions of an axle.
 (c) Investigation to find analytically the work absorbed by friction on a flat pivot.
 Practical problems relating to the work absorbed by the friction of turbine wheels on their pivots.
 (d) Investigation to find analytically the work absorbed by the friction between a belt and a pulley.
 Calculations to find work absorbed by friction of belt on a pulley.
 (e) Investigation to find analytically the work absorbed in compressing an elastic gas, steam or air.
 Application of the investigation (e) to the calculation of work absorbed (and given out again) by the the air compressing engines of the Mont Cenis tunnel.
 Application of investigation (e) to the calculation of the work done during expansion of a high pressure engine.
 Application of investigation (e) to the calculation of the work done during expansion of a condensing engine.

APPENDIX F 14.
ROYAL MILITARY COLLEGE OF CANADA.

ARCHITECTURE.

Summary of Course of Instruction and Allotment of Marks.

Total Marks..... 1,900

SECTION I.—(Engineering and Architectural.)

Nature, Production and Use of Materials of Construction.

Marks..... 1,900

Sub-section A—Materials: Description and processes.

Marks—Examinations..... 400

Sub-section B—Strength of materials.

Marks { Examinations 300
Notes and recitations 200

Sub-section C—Stresses on framed structures.

Marks { Examinations 500
Notes and recitations 500

SECTION II.

History and Principles.

Marks 200

Sub-section A—History and Principles.

Marks—Examinations 200

SECTION III.

Design and Execution of Structures.

Marks 700

Sub-section A—Buildings, Domestic.

do B— do Public—Civil.

do C— do do —Military.

Marks { Examinations 300
Notes and Drawings 400

SECTION IV.

Estimating and Supervision.

Marks..... 200

Sub-section A—Measurements, quantities, prices.

Marks { Examinations 0
Notes and Recitations 200

NOTE.—If a cadet takes up both the Architectural and the Civil Engineering courses, one-half only of the marks assigned to Section I. (being common to engineering and architecture), will be counted to each subject.

ROYAL MILITARY COLLEGE OF CANADA.

COURSE IN ARCHITECTURE.

SECTION I.

Nature, Production and Use of Materials of Construction.

(Common to engineering and architecture. For details see Syllabus of Engineering Course.)

Marks 1,900

SECTION II.

History and Principles.

Marks }
Examinations } 200

(A)—*Descriptive and Historical.*

Early history.
Greek architecture.
Roman do
Byzantine do
Romanesque architecture.
Mediæval pointed do
English mediæval do
Elizabethan do
Renaissance do
Modern do

Design and Execution of Buildings.

Marks { Examinations 300
Notes and Drawings 400

(A)—*Building Construction.*

General principle. Foundations, natural and artificial, concrete Béton, hydraulic lime, foundations under water, piles, pile-driving, iron piles.

Masonry—uncoursed rubble, coursed rubble, ashlar work, through stones, bond beds, joints, tools used.

Brick work—Bricks, size, thickness of brick walls, preponds.

Principles of walling, headers and stretchers, plans and elevations of walls in English bond. Plans and elevations of walls in Flemish bond. Plans and elevation of walls in lake and herring-bone bond.

Protection against frost, application of wall-plates, templates, discharging arches, lintels, construction of brick arches, general rules as to brick-work, tools used in brick work.

Drawing for Bricklayers.

Examples of rough arch, square-headed windows, extrados, intrados, centreing, square-headed doors, with relieving arch and tie-rod, segment arched windows, Gothic arch in birch wood, with centreing.

Woodwork.

Scantling, modes of lengthening timbers, strapping, bolting, fishing, halving, scarfing, trussed girders, joints in timbers, notching, morticing, fox-tail joint, tusk tennon.

Constructing of Roofs.

Gable, hip, mansard, tie beam rafters, principal and common rafters, king post, strap, queen posts, arch track, straining beam, struts, purlin, determination of stresses in roofs, wind and snow pressure.

Construction of Floors.

Single floors, trimming, arch and joist, herring-bone truss, sound boards, double floors, binders, ceiling joists, framed floors, floor boards, square-edged, rebated, ploughed, tongued and dowelled.

Partitions.

Principles of construction, fire-proof, must form portion of carcass.

Joinery.

How distinguished from carpentry, mitre-joint, dove-tail joint, staircase, general construction, bracket staircase, dog-legged staircase.

Fire-Proof Construction.

Behaviour of various building materials under fire, fire-proof layers.

General Arrangements.

Cellars, drainage, sewerage connections, ventilation, traps, warming, water supply, ready egress in case of fire, doors opening outwards.

B and C—This section will be continued so as to embrace the designing of domestic buildings and of public buildings, for civil and military purposes.

SECTION IV.

Estimating.

Marks..... { Examinations..... } 200
 { Notes and Recitations..... }

(A)—Methods of estimating quantities in buildings.

Stone work, brick work, wood work, plastering, slating, shingling, painting, glazing.

APPENDIX F 15.

ROYAL MILITARY COLLEGE OF CANADA.

SUMMARY OF COURSE OF INSTRUCTION IN INFANTRY DRILL.

Total Marks..... 500.

1st Term.—Marks 200.—(Obligatory.)

Infantry drill, part I to III, field exercise, and part VII, including:
 Route marching.
 Mounting guard.

Relieving guard.
 Instruction as sentries.
 Infantry sword exercise.
 Rifle drill.
 Manual exercise.
 Firing “
 Bayonet “

RIFLE INSTRUCTION.

Rifle instruction, including theoretical principles, judging distance and target practice, firing 100 rounds as follows:

Recruits.	Preliminary.	Practice.
100 yards.	10 rounds.	Standing.
200 “	10 “	Kneeling.
500 “	10 “	Any military position.
Volley firing,	10 “	} 300 yards.
Independent firing,	10 “	

ANNUAL PRACTICE.

200 yards.	10 rounds.	Standing.
500 “	10 “	Any military position.
700 “	10 “	“ “
800 “	10 “	“ “
Volley firing,	5 “	} 400 yards.
Independent firing,	5 “	

2nd Term.—Marks, 200.—(Obligatory.)

Infantry drill, parts I, II, III, VI, and part VII to section 21, including advance and rear guards, outpost duty, &c.

Tent pitching.
 Infantry sword exercise and saluting.
 Rifle drill.
 Manual exercise.
 Firing “
 Bayonet “

Rifle instruction, including individual firing, as follows:—

200 yards.	10 rounds.	Standing.
500 “	10 “	Any military position.
700 “	10 “	“ “
800 “	10 “	“ “
400 yards. }	5 “	Volley firing.
	5 “	Independent firing.

Judging distance from 100 to 1,000 yards.

3rd Term.

Infantry drill, parts I, II, III, VI, including advance and rear guards, outpost duty, and part VII.

Cavalry sword drill.
 Target and judging distance practice as for 2nd Term.

4th Term.

Total Marks, 170.—(Non-commissioned officers only.)

Practice of imparting instruction in infantry drill.

NOTE.—This term undergoes the annual course of rifle practice similar to that of 2nd and 3rd Term.

APPENDIX F 16.

ROYAL MILITARY COLLEGE OF CANADA.

SUMMARY OF COURSE OF INSTRUCTION IN MILITARY EQUITATION.

Total marks 300

4th Term.—Marks, 300.—(Obligatory.)

Leading the horse.
 Mounting and dismounting.
 Extension and balance motions.
 Seat while the horse is in motion.
 Dressing.
 Walking and trotting.
 Riding in saddles without stirrups.
 Saddling.
 Bridling.
 Fitting the stirrups.
 Mounting and dismounting without stirrups.
 Aids in turnings and paces.

Single Ride.

Formation of the ride.
 Bending lesson.
 Turns in the bending lesson.
 The canter.
 Position with stirrups.
 Position of bridle hand with the bit.
 Mounting and dismounting with stirrups.
 Riding with swords.
 Leaping.
 Salute when mounted.

Double Ride.

Formation of the ride, &c.
 Bending lesson.
 Elementary instruction on care, management and veterinary treatment of horses.

APPENDIX F 17.

ROYAL MILITARY COLLEGE OF CANADA.

SUMMARY OF COURSE OF INSTRUCTION IN MILITARY EXERCISE.

Total marks..... 200

SECTION I.—GYMNASTICS.

First Term—(Obligatory)—Marks 100
 Second Term (Obligatory)—Marks..... 100

First Course—Introductory Exercises.

First Practice—Movements and positions.
 Second “ With dumb bells.
 Third “ With bar bells.

Second Class—Simple Exercises.

Running—To run at slow time short distances.
 Vaulting Bar—To vault the bar, three movements.
 “ “ “ two “
 “ “ “ one movement.
 Vaulting Horse—To vault on the horse, two movements, standing.
 “ “ “ one movement “
 “ “ “ “ running.
 “ To vault over horse, running.
 Parallel Bars—The single march, forwards.
 “ The double march “
 “ The single march, backwards.
 “ The double march “
 “ To clear the right bar by the front, oscillating.
 “ To rest on the right bar and clear the left by the front, oscillating.
 “ To rest on the right bar in the rear and clear it in front “
 Pair of Rings—The single circle, evolving.
 “ The double circle “
 “ To turn with feet in the rings, evolving.
 The row of Rings—The single step.
 Horizontal Bar—To march with right hand leading.
 “ To turn round the bar, raising above the bar.
 “ “ “ with the hands reversed, raising above the bar.
 “ To raise above the bar, right and left.
 “ “ “ both hands at once.
 Bridge Ladder—To climb both hands at once, backwards.
 “ “ “ forwards.
 Vertical Pole suspended—To climb hand over hand, with hands and feet.
 “ “ “ both hands at once “ “
 “ “ The double step both hands at once “
 Vertical Rope “ To climb with right hand leading.
 “ “ “ left “
 “ “ “ hand over hand.

SECTION II.—SWIMMING (OBLIGATORY).

Marks..... 50.

ADVANCED AND ARDUOUS EXERCISES.

Third Course.

Running—To run at speed short distance.
 The Leaping Stand—To leap height running.
 The Vaulting Bar—To vault over the bar by the back lift.
 The Vaulting Horse—To vault to the right, running.
 “ “ “ left “
 “ To leap clear over “
 Pair of Rings—To form a straight line by the back.
 “ “ “ front.
 Row of Rings—The single step backwards.
 Bridge Ladder—To climb with both hands at once backwards, by the spars.
 “ “ “ forwards “
 “ “ with right hand leading, by the sides.
 “ “ left “
 “ “ both hands at once “

Horizontal Bar—To form a straight line by the back.

“ “ “ front.

“ To clear circle and vault right and left.

“ To form a balance by short arm.

“ “ “ straight arm.

Parallel Bars—To form a straight line by the back.

“ Balance at short arm and march forward.

“ “ straight “

“ “ “ come slowly down and form a straight line by the back.

The Vertical Rope—To climb both hands at once.

The Vertical Pole “ “

Supplementary Course.

Fencing.

Sword vs. Sword.

Bayonet vs. Bayonet.

Sword vs. Bayonet.

Quarter Staff.

SECTION II.—SWIMMING (OBLIGATORY)—Marks..... 50

NOTE.—Voluntary classes of the 1st, 2nd, 3rd and 4th forms are instructed in any branch of gymnastics, or of defensive exercises, i.e., sword, bayonet, boxing, &c.

REPORT ON FINAL EXAMINATION OF GRADUATING CADETS, DECEMBER, 1880, FROM COMMANDANT, ROYAL MILITARY COLLEGE, TO ADJUTANT-GENERAL MILITIA.

KINGSTON, 23rd December, 1880.

SIR,—1. My Annual Report of the Royal Military College of Canada having already been submitted, that which I have now the honour to place before you refers only to the six gentlemen cadets who have just undergone their final examination and who graduate this day.

2. These gentlemen joined the Royal Military College in February, 1877, and have completed their term of four years service as gentlemen cadets of Canada.

3. Consequent on the new regulations by which only one examination for entrance to Royal Military College is to be held in each year, cadets will in future graduate only once in each year, viz.: in summer.

4. The names of the graduates in order of merit, and with the distinctions they have gained as determined by marks recorded for intellectual and physical attainments, and for conduct and discipline, from the date of their joining the college until that of graduating, are as follows:—

Rank.	Name.	Province.	Distinctions.	Total marks counted from date of joining R.M.C. to date of graduating.	Final order of merit.
Battalion Sergeant-Major.	Alexander Bell Ross.	Ontario.	Certificates—1st Class. Honours—Discipline, Drill. Special Mention—Civil Engineering. Prize—Drill and Military Exercise, Conduct and Discipline.	31,277	3
Company Sergeant-Major.	Arthur Hope Van Stranbenzee	Ontario.	Certificates—1st Class. Honours—Military History, Discipline, Drill. Special Mention—Nil. Prize—Military History, Military Topography, German.	32,378	2
Company Sergeant-Major.	Arthur Emile Doucet.	Quebec.	Certificates—1st Class. Honours French, Drill, Discipline. Special Mention—Nil. Prize—Freehand Drawing, French.	23,626	6
Company Sergeant-Major.	George Curtis Clarke.	Ontario.	Certificates—1st Class. Honours—Nil. Special Mention—Discipline. Prize—Nil.	25,234	5
Sergeant.	Richard Carney Laurie.	Manitoba.	Certificates—1st Class. Honours—Artillery, Discipline. Special Mention—Mathematics, Descriptive Geometry, Fortification, Civil Engineering. Prize—Mathematics, Fortification, Military Engineering, Geology, Physics, Chemistry, Civil Engineering and Class Prize.	36,799	1
Corporal.	John Gordon Gibson.	Quebec.	Certificates—1st Class. Honours—Nil. Special Mention—Drill. Prize—Nil.	28,381	4

5. The general average of attainments of the present batch of graduates is somewhat higher than that of the graduates of June last, as, although the best of the present men have not passed as good an examination as the best of their predecessors, the remainder have done considerably better than the graduates of June who were towards the bottom of their list.

6. The educational attainments and intellectual powers of the first of the batch, viz., Sergeant Laurie (winner of His Excellency the Governor General's gold medal, for general proficiency), as proved by the records of his terms' work and numerous examinations extending over his full course of four years, is of very high

standard, and his conduct and industry are equally praiseworthy. Battalion Sergeant-Major Ross and Company Sergeant-Major A. Van Straubenzee are entitled to special general mention, and in every way reflect honour on the College. No country, no service, can require better all round men. Had the natural abilities of Sergeant Major Clarke been seconded by equal perseverance and energy he might probably have attained a much higher position.

7. In caution to cadets it is advisable to mention that two or three of the graduates all but failed to obtain 1st class certificates entirely through their own continuous neglect to apply themselves to subjects so absolutely essential to the purposes of the College as military history, *i.e.*, strategy, tactics, and administration, &c., and to surveying.

8. In a sense of conscientious duty and in appreciation of the responsibility entrusted to them as non-commissioned officers, and the objects of discipline and the practical performance of it, the present graduates are, as a whole, superior to those of June last. These characteristics are not only the most essential a man can possess for the military profession, but the most valuable of all qualities for any position of importance and trust in life. In this report the two senior non-commissioned officers, *viz.*, Sergeant-Major Ross and Straubenzee have set a high and excellent example.

9. It is a great pleasure to me to be also able to place high among the graduates of the College to the present date, equally for reliability, good conduct and industry, the name of Sergeant-Major Doucet; the more so as this cadet is the first Canadian of French race who has graduated from the college.

10. The whole of the present graduates have qualified and are therefore eligible for commissions in Her Majesty's Service, if sufficient vacancies existed.

10. In the competition for the four commissions in Her Majesty's Regular Army available for the year 1881, Sergeant Laurie, Sergeant-Major Van Straubenzee, Battalion Sergeant-Major Ross and Corporal Gibson are entitled in the order named to receive commissions in the cavalry or infantry. Sergeant Laurie, Battalion Sergeant-Major Ross and Corporal Gibson, have elected not to accept the available commissions, preferring to take their chance of employment in Canada, Company Sergeant-Major Van Straubenzee has notified his acceptance of a commission in Her Majesty's Regular Army.

I have the honor to be, Sir,

Your obedient servant,

E. O. HEWETT, Lieut.-Colonel,
Commandant, Royal Military College.

APPENDIX No. 9.

REPORT OF THE DIRECTOR OF STORES AND KEEPER OF MILITIA PROPERTIES.

DEPARTMENT OF MILITIA AND DEFENCE.

STORE BRANCH.

OTTAWA, 31st December, 1880.

SIR,—I have the honor to submit for your information the following Report respecting this branch of the Department for the past year, the duties of which I was directed to perform from the 1st November last, on the retirement of Lieut.-Colonel Wily.

CLOTHING.

The clothing issued to the Militia is provided under contract in England, subject to inspection on receipt into store at Ottawa.

ISSUES.

Tunics, Cloth.					Tunics, Serge.				Trousers, Cloth, Pairs.		Trousers, Serge, Pairs.			Forage Caps.				Great Coats.		
Cavalry.	Artillery.	Engineers.	Infantry.	Rifles.	Cavalry.	Artillery.	Infantry.	Rifles.	Cavalry.	Artillery.	Artillery.	Infantry.	Rifles.	Cavalry.	Artillery.	Infantry.	Rifles.	Cavalry.	Artillery.	Infantry and Rifles.
410	1016	110	2462	1060	358	625	11	60	123	735	850	3126	1941	283	1023	1855	267	320	299	3531

AMMUNITION.

The annual practice allowance of ball and blank ammunition, under regulation, has been issued to the active Militia during the year, being 342,858 rounds of "Snider" ball, and 360,790 rounds of blank. (See Appendix A.)

EXTRA AMMUNITION ISSUED ON REPAYMENT.

706,041 rounds have been sold during the year to the various corps of Militia and Rifle Associations, for rifle shooting and prize competitions. From this source the sum of \$11,579.17 has been received by deposit receipts to credit of the Receiver-General; in this amount is included the value of gunpowder and friction tubes supplied to the Post Office Department for the noon gun at Ottawa. (See Appendix B.) 26,616 lbs. of gunpowder and 8,291 friction tubes were also issued to the several field batteries and garrison artillery for the usual practice and salutes, with proportion of shot, shell, fuzes, etc. (See Appendix C.)

DEPOSIT RECEIPTS.

The total amount received from sale of ammunition, stores, and rents of Militia properties, for the period dating from 1st January to 31st December, 1880, is exhibited by the following tabular Statement.

Ammunition.		Clothing.		Arms and Accoutre- ments.	Deficien- cies.	Rents.	Miscella- neous.	Total Amount.
Rounds.	Amount.	Officers'.	Men's.					
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
706,041	11,579 17	87 93	819 16	842 54	94 07	6,555 71	875 57	20,854 15

BOARDS OF SURVEY.

Boards of Survey on stores in charge of store-keepers, as provided under regulations and orders, were held in the several Military Districts at the usual period, and the reports submitted were found satisfactory.

There appears nothing unusual to report under this head, and no serious loss by fire or otherwise occurred during the year.

RENTS OF MILITIA PROPERTIES.

The following statement will show the amount collected from tenants of militia properties under leases, showing amount received during the year. The rental collected for current year amounted to \$5,394.79; arrears of previous years, \$1,160.92; total collected, \$6,555.71; with \$561 still due.

Number of Tenants.	Locality.	Rents Per Annum.	Arrears.
		\$ cts.	\$ cts.
1	Manitoba	1 00	.....
1	Chatham, Ont	1 00	.....
1	London	25 00	.....
2	Niagara	40 00	120 00
4	Toronto	320 00	90 00
1	Ottawa	1 00	.....
25	Kingston	532 51	.....
4	Montreal	250 75	.....
1	Laprairie	1 00	.....
2	Isle aux Noix	64 00	.....
26	Quebec and District	3,077 33	111 50
35	Point Lévis	815 45	239 50
18	New Brunswick	164 75	.....
1	Nova Scotia	100 00	.....
1	Prince Edward Island	1 00	.....
	Arrears received during the year	1,160 92	.....
123	Total	6,555 71	561 00

MILITIA MUSEUM.

It may be within my province to refer to the Museum recently established in the Drill Hall at headquarters, Ottawa, under the supervision of Lieut.-Colonel Wily, late Director of Stores and Keeper of Militia Properties, to whom much credit is due for the interest manifested by him in its inception, having secured many valuable and

interesting records and articles of an historical character connected with the militia of Canada, and also in the arrangement of specimens of arms, accoutrements, projectiles, &c.

In response to the intimation conveyed in Militia General Orders on the subject, several communications have been received, donating articles of interest to the Museum, and no doubt further additions will continue to be made from time to time. It may, therefore, be anticipated that the Museum will soon become an object of interest to citizens and visitors to the capital.

In concluding this brief report, I may be permitted to refer to the services of the several store-keepers of districts, whose duties appear to be well and efficiently performed; the usual monthly returns, as a rule, are found correct, and promptly forwarded to headquarters.

I have the honor to be,

Sir,

Your most obedient servant,

J. MACPHERSON, Lieut.-Colonel,

Director of Stores and Keeper of Militia Properties.

The Honorable

The Minister of Militia and Defence,
Ottawa.

[A.]

S. A. AMMUNITION issued for Practice during the Year 1880.

				Rounds.	
Date.		Corps and Station.		Ball.	Blank.
Military District No. 1, London.					
June	21	Infantry Company, Windsor		840	840
do	21	Camp at London			26,000
do	21	7th Battalion, London			6,720
July	8	No. 9 Company, 30th Battalion, Hollen		840	
do	22	Leamington Infantry Company, Leamington		840	
do	26	No. 7 Company, 33rd Battalion, Clinton		800	
Aug.	17	No. 1	do 33rd do Goderich	840	
do	17	No. 2	do 33rd do Wingham	840	
do	17	No. 3	do 33rd do Seaforth	840	
do	17	No. 4	do 33rd do Clinton	840	
do	17	No. 5	do 33rd do Brussels	840	
do	17	No. 8	do 33rd do Gorie	840	
do	18	No. 9	do 33rd do Goderich	840	
do	18	No. 1	do 29th do Conostigo	840	
do	18	No. 2	do 29th do Galt	840	
do	18	No. 3	do 29th do Cross Hill	840	
do	18	No. 4	do 29th do Galt	840	
do	18	No. 5	do 29th do Hespeler	840	
do	18	No. 6	do 29th do Berlin	840	
do	19	No. 1	do 30th do Douglas	840	
do	19	No. 2	do 30th do Guelph	840	
do	19	No. 3	do 30th do Fergus	840	
do	19	No. 4	do 30th do Elora	840	
do	19	No. 5	do 30th do Fore-t	840	
do	19	No. 6	do 30th do Guelph	840	
do	19	No. 7	do 30th do Erin	840	
do	19	No. 8	do 30th do Orangeville	840	
do	19	No. 9	do 30th do Moorfield	840	
do	19	No. 10	do 30th do Arthur	840	
do	19	No. 5	do 28th do Kirkton	840	
do	19	No. ...	do 7th do London	5,880	
do	30	No. 6	do 25th do St. Thomas	840	840
Sept.	4	No. 4	do 25th do St. Mary's	840	
do	21	No. ...	do 26th do Middlesex	6,720	6,720
do	29	No. 2 Troop, 1st Regiment of Cavalry, London		700	700
Total				38,460	41,820
Military District No. 2, Toronto.					
June	7	39th Battalion, Simcoe		6,720	6,720
do	16	Governor-General's Body Guard, Toronto		1,680	1,680
do	21	12th Battalion, Aurora		6,720	6,720
do	22	36th	do Orangeville	6,720	6,720
do	24	35th	do Barrie	8,400	8,400
do	24	34th	do Whitby		3,000
do	24	Field Battery, London		800	
July	3	Engineer Company, Toronto		1,400	1,400
do	4	13th Battalion (Capt. Gibson's Company) Hamilton		840	
Aug.	11	13th	do Hamilton	5,040	
do	20	44th	do Clifton	6,720	6,720
Oct.	14	No. 1 Company, 19th Battalion, Niagara		840	840
Total				45,880	42,200

S. A. Ammunition issued for practice in 1880.

Date.		Corps and Stations.	Rounds.	
			Ball.	Blank.
Military District No. 3, Kingston.				
May	14	Royal Military College, Kingston		3,000
do	25.....	Field Battery, Gananoque		1,000
June	7.....	Garrison Battery, Cobourg	840	
do	16.....	14th Battalion, Kingston	5,040	5,040
do	17.....	49th Battalion, Stirling	4,200	5,040
do	21.....	4th Cavalry	2,520	
do	23.....	40th Battalion, Cobourg	3,220	6,720
do	24.....	Engineers, Montreal	1,000	1,000
do	29.....	"B" Battery, Kingston		1,500
do	29.....	Royal Military College, Kingston		2,600
do	29.....	Engineers, Toronto		1,000
Aug.	3.....	45th Battalion, Bowmanville	4,200	
do	3.....	"B" Battery, Kingston	9,650	4,710
do	27.....	Garrison Battery, Port Hope	840	
Sept.	2.....	57th Battalion, Peterboro'	5,040	5,040
Nov.	5.....	Royal Military College, Kingston		2,600
Total.....			36,550	39,250
Military District No. 4, Ottawa				
June	15.....	Princess Louise Dragoon Guards, Ottawa		700
do	15.....	Garrison Battery, Prescott	900	900
do	15.....	No. 1 Company, 18th Battalion, Hawkesbury	680	840
do	15.....	No. 2 do do do	740	340
do	15.....	No. 3 do do L'Orignal	800	800
do	15.....	No. 4 do do Hawkesbury	840	840
do	15.....	No. 5 do do Plantagenet	300	840
do	15.....	56th Battalion, Prescott Camp		6,000
do	15.....	Vernon Infantry Company, Prescott Camp	840	840
Total.....			5,100	12,100
Military Districts Nos. 5 and 6, Montreal.				
May	21.....	65th Battalion, Montreal		7,500
do	21.....	6th do do		7,500
do	21.....	1st do do		7,500
do	21.....	3rd do do		7,500
do	21.....	5th do do		7,500
do	21.....	Infantry Company, St. Jean Baptiste	840	840
June	15.....	53rd Battalion, Sherbrooke	5,000	5,000
do	15.....	54th do Richmond	3,200	3,200
do	16.....	50th do Huntingdon	6,720	6,720
do	19.....	51st do Hemmingford	6,720	6,720
do	22.....	5th Provisional Cavalry	2,400	2,400
do	22.....	54th Battalion, Richmond	1,890	1,800
do	22.....	58th do Cookshire	8,000	8,000
do	23.....	11th do St. Andrews	3,200	3,200
do	23.....	1st do Montreal	4,138	
July	6.....	54th do Richmond	5,040	5,040
do	6.....	No. 1 Company, 80th Battalion, St. Edouard de Gentilly	840	840
do	6.....	No. 6 do do Victoriaville	840	840
do	17.....	No. 1 Troop of Cavalry, Montreal	640	640
do	27.....	6th Battalion, Montreal	4,600	
Aug.	24.....	Engineers do	1,000	1,000
do	31.....	5th Battalion, do	5,000	5,000
do	31.....	85th do	840	840

A.—S. A. Ammunition issued for practice in 1880—Continued.

Date.	Corps and Station.	Rounds.	
		Ball.	Blank.
Military Districts Nos. 5 and 6 Montreal—Concluded.			
Sept. 2	No. 1 Company, 52th Battalion, Abercorn	840	840
do 2	No. 3 do do Sutton	840	840
do 4	No. 2 Troop, 6th Cavalry	640	640
do 4	No. 5 do do	640	640
do 14	65th Battalion, Montreal	5,040	5,040
do 17	No. 5 Company, 79th Battalion, Roxton Falls	840	840
do 21	No. 3 do do Waterloo	840	840
do 21	No. 7 do do Lawrenceville	840	840
do 21	No. 8 do do Waterloo	840	840
do 21	No. 4 Troop, 6th Cavalry	560	
Oct. 6	85th Battalion	840	840
Nov. 6	No. 4 Company, 84th Battalion	840	840
do 25	No. 5 do do	840	840
Dec. 17	Garrison Artillery, Montreal	4,800	
Total		80,058	103,460
Military District No. 7, Quebec.			
March 4	8th Battalion, Royal Rifles, Quebec	4,210	
May 5	No. 3 Battery, Garrison Artillery, Quebec	840	840
do 6	9th Battalion, Quebec		2,400
do 13	No. 1 Battery, Garrison Artillery, Quebec	1,000	
do 13	No. 2 do do do	1,000	
do 13	8th Battalion, Quebec	3,000	
do 13	9th do do	3,000	
do 21	Deputy Adjt.-General, Quebec		21,320
July 2	Dorchester Provisional Battalion, St. Anselme	3,360	3,360
do 3	No. 2 Battery, Garrison Artillery, Lévis	840	
do 5	23rd Beauce Battalion, Ste. Marie	3,360	3,360
do 6	No. 2 Troop, 2nd Cavalry, Quebec	840	
do 13	Charlevoix Battalion	3,360	3,360
do 9	70th Battalion, Ste. Geneviève de Batiscan	5,040	5,040
do 10	No. 1 Battery, Garrison Artillery, Lévis	840	
do 15	Rimouski Battalion	3,360	3,360
Aug. 21	17th Battalion, Lévis	6,720	6,720
Sept. 13	No. 2 Battery, Garrison Artillery, Quebec	840	
Oct. 5	Gaspé Battery, Gaspé	840	840
Total		42,450	50,600
Military District No. 8, New Brunswick.			
May 14	62nd Battalion, St. John		5,040
June 7	62nd do do	5,040	
July 3	Lt.-Colonel Domville	2,520	2,520
do 3	74th Battalion, Sussex	1,680	1,680
do 3	Engineer Company, St. John	840	840
do 27	73rd Battalion, Chatham, Miramichi	840	840
do 27	73rd do do	840	840
do 27	Infantry Company, St. George	840	840
Aug. 18	No. 7 Battery G. A., Chatham	840	840
Total		13,440	13,440
Military District No. 9, Nova Scotia.			
Jan. 16	No. 5 Company 78th Battalion, Windsor	800	800
do 16	No. 6 do 78th do Mill Brook	800	800
Feb. 23	Colonel Laurie, D. A. G., New Glasgow	3,000	

S. A. Ammunition issued for practice in 1880—Continued.

Date.		Corps and Station.	Rounds.	
			Ball.	Blank.
Military District No. 9, Nova Scotia—Concluded.				
May 28.....	King's Troop, Kentville.....	660	660	
June 9.....	1st Halifax Brigade G. A., Halifax.....	5,520		
do 9.....	63rd Battalion, Halifax.....	5,520	5,520	
do 16.....	66th do.....	7,200	7,200	
do 18.....	Garrison Artillery, Digby.....	780	780	
do 18.....	do Lunenburg.....	780	780	
do 18.....	do Pictou.....	800	800	
do 18.....	Field Battery, Halifax.....	1,500		
do 18.....	Garrison Artillery, Liverpool.....	780	780	
do 18.....	No. 2 Battery 2nd Brigade G. A., Dartmouth.....	840	840	
do 18.....	No. 3 do 2nd do Richmond.....	840	840	
do 18.....	No. 4 do 2nd do Halifax.....	840	840	
do 18.....	No. 5 do 2nd do Purcell's Cove.....	840	840	
do 18.....	No. 6 do 2nd do Halifax Harbor.....	800	800	
do 18.....	78th Battalion, Truro.....	780	780	
July 20.....	Argyle Highlanders.....	780	780	
do 20.....	do.....	780	780	
do 22.....	No. 2 Company 72nd Battalion, Wilmot.....	780	780	
do 22.....	No. 3 do 72nd do.....	780	780	
do 22.....	Garrison Artillery, Yarmouth.....	780	780	
do 27.....	No. 1 Company C. P. Battalion, Amherst.....	780	780	
do 27.....	No. 5 do do Oxford.....	780	780	
Aug. 11.....	No. 3 do 69th do Grandville.....	780	780	
do 11.....	No. 4 do 69th do Port William.....	780	780	
do 11.....	No. 8 do 69th do Bear River.....	780	780	
do 11.....	No. 9 do 69th do Clement's Port.....	780	780	
do 12.....	No. 5 do 75th do Martin's River.....	780	780	
do 12.....	No. 6 do 75th do New Ross.....	780	780	
do 21.....	No. 2 do 68th do Canard.....	780	780	
do 30.....	No. 1 do 68th do Kentville.....	780	780	
do 30.....	No. 9 do 68th do.....	780	780	
do 30.....	No. 5 do 68th do Billtown.....	780	780	
Sept. 1.....	78th Battalion, Truro.....	780	780	
do 3.....	78th do.....	780	780	
do 3.....	78th do.....	780	780	
Oct. 9.....	No. 4 Company 78th Battalion, Shubenacadie.....	780	780	
do 11.....	No. 8 do 78th do New Laing.....	780	780	
Nov. 11.....	No. 5 do 78th do Windsor.....	780	780	
Total		51,020	41,000	
Military District No. 10, Winnipeg.				
June 30.....	Infantry Company, Winnipeg.....	840	840	
July 6.....	do St. Jean Baptiste.....	840	840	
Total		1,680	1,680	
Military District No. 11, British Columbia.				
Aug. 3.....	Victoria Garrison Artillery, Victoria.....	700	1,700	
do 3.....	do do No. 2, Victoria.....	800	800	
do 3.....	No. 1 Company of Rifles, New Westminster.....	800	800	
do 3.....	Seymour Artillery.....	600	600	
do 3.....	No. 1 Company of Rifles, Nanaimo.....	800	800	
do 23.....	do do do.....	4,200		
do 23.....	do do do.....	840		
Sept. 1.....	British Columbia Rifles, British Columbia.....	8,400		
do 1.....	No. 1 Company, New Westminster.....		1,200	
do 1.....	do do.....	1,680		
Oct. 7.....	Victoria Garrison Artillery, Victoria.....		6,000	
Total		18,820	6,000	

S. A. Ammunition issued for practice in 1880—*Continued.*

Date.	Corps and Stations.	Rounds.	
		Ball.	Blank.
<i>Military District No. 12, Prince Edward Island.</i>			
May 28.....	Battery Garrison Artillery, Georgetown.....	840	840
do 31.....	82nd Battalion, Charlottetown.....	840	840
June 15.....	P. C. Battalion, Summerside.....	840	840
July 5.....	King's County Battalion, Georgetown.....	840	840
do 7.....	No. 1 Company, 82nd Battalion, Charlottetown.....	840	840
do 16.....	No. 2 do do do.....	840	840
do 21.....	No. 1 Battery Garrison Artillery do.....	840	840
do 23.....	Engineer Company do.....	720	840
do 26.....	No. 2 Battery Garrison Artillery do.....	760	840
Aug. 25.....	King's County Battalion, Georgetown.....	840	840
Sept. 9.....	No. 4 Company, 82nd Battalion, Charlottetown.....	840	840
Oct. 28.....	82nd Battalion, Charlottetown.....	360	.....
Total.....		9,400	9,240

RECAPITULATION.

	Rounds.	
	Ball.	Blank.
Military District No. 1, London.....	38,460	41,820
do 2, Toronto.....	45,880	42,200
do 3, Kingston.....	36,550	39,250
do 4, Ottawa.....	5,100	12,100
do 5 & 6, Montreal.....	80,058	103,469
do 7, Quebec.....	42,450	50,600
do 8, St. John, N.B.....	13,440	13,440
do 9, Halifax, N.S.....	51,020	41,000
do 10, Winnipeg.....	1,680	1,680
do 11, Victoria, B.C.....	18,820	6,000
do 12, Charlottetown, P.E.I.....	9,400	9,240
Total.....	342,858	360,790

J. MACPHERSON, Lieut.-Colonel,

Director of Stores, and Keeper of Militia Properties.

The Honorable

The Minister of Militia and Defence,
Ottawa.

31st December, 1880.

(B.)

S. A. AMMUNITION issued for practice during the Year 1880.

<i>Military District No. 1, London.</i>				
Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				
Mar. 20...	Lieut.-Col. Attwood.....	26th Battalion.....	1,000	16 00
May 3...	do.....	26th do.....	1,000	16 00
do 7...	F. W. Macqueen.....	Woodstock Rifle Association.....	2,000	32 00
do 12...	Capt. Cook.....	33rd Battalion.....	500	10 00
do 17...	Major Wilson.....	33rd do.....	2,000	32 00
do 18...	Major Macdonald.....	Wellington Field Battery.....	1,000	16 00
do 29...	W. F. Ellis.....	25th Battalion.....	2,000	32 00
June 2...	Major Ellis.....	22nd do.....	2,000	32 00
do 1...	Lieut.-Col. Moffatt.....	Western District R.A.....	4,000	64 00
do 10...	Capt. Thom.....	26th Battalion.....	500	8 00
do 14...	F. W. Macqueen.....	Woodstock R.A.....	2,000	32 00
July 19...	W. F. Ellis.....	25th Battalion.....	2,000	32 00
do 24...	Sergt. Fysh.....	7th do.....	1,000	16 00
do 31...	Capt. Williamson.....	22nd do.....	800	12 80
Aug. 3...	Major Dingwall.....	46th do.....	1,000	16 00
do 6...	Capt. Thom.....	26th do.....	500	8 00
do 11...	W. T. Ellis.....	St. Thomas Rifle Club.....	2,000	32 00
do 10...	F. W. Macqueen.....	Woodstock R.A.....	2,000	32 00
do 11...	Lieut.-Col. Attwood.....	26th Battalion.....	1,600	16 00
do 11...	Capt. Stevenson.....	26th do.....	1,000	16 00
do 12...	Lieut.-Col. O'Malley.....	25th do.....	1,000	16 00
do 16...	W. H. Rainsford.....	Huron R.A.....	1,000	16 00
do 20...	Major Wilson.....	33rd Battalion.....	2,000	32 00
do 20...	London Rifle Club.....	.....	1,000	16 00
do 20...	Lieut.-Col. O'Malley.....	25th Battalion.....	500	8 00
do 20...	W. Lawrence.....	Perth R.A.....	1,000	16 00
do 20...	Capt. McKenzie.....	7th Battalion.....	1,000	16 00
Sept. 11...	Capt. Stevenson.....	26th do.....	1,000	16 00
do 8...	F. W. Macqueen.....	Woodstock R.A.....	1,000	16 00
do 6...	Wm. Lawrence.....	Perth R.A.....	1,500	24 00
do 20...	Major Ellis.....	22nd Battalion.....	2,000	32 00
do 20...	W. H. Rainsford.....	Huron R.A.....	1,000	16 00
do 25...	Capt. White.....	28th Battalion.....	500	8 00
Oct. 14...	F. W. Macqueen.....	Woodstock R.A.....	1,000	16 00
do 14...	W. H. Rainsford.....	Huron R.A.....	1,000	16 00
Nov. 1...	Capt. Mackenzie.....	7th Battalion.....	1,000	16 00
do 22...	Lieut.-Col. Attwood.....	26th do.....	1,000	16 00
Dec. 23...	do.....	26th do.....	1,000	16 00
Total.....			48,800	\$782 80

Military District No. 2, Toronto.

Jan. 23...	Lieut.-Col. Alger.....	Ontario Rifle Association.....	4,000	64 00
Mar. 23...	Lieut.-Col. Otter.....	2nd Battalion.....	500	8 00
April 5...	do.....	2nd do.....	3,000	48 00
do 16...	C. S. Jones.....	38th do.....	1,000	16 00
do 23...	Lieut.-Col. Otter.....	2nd do.....	2,000	32 00
May 5...	do.....	2nd do.....	2,000	32 00
do 7...	J. L. Rawbone.....	Governor-General's Body Guards.....	500	8 00
do 20...	C. S. Jones.....	38th Battalion.....	1,000	16 00
June 1...	Lieut.-Col. Otter.....	2nd do.....	500	12 00
do 15...	C. S. Jones.....	38th do.....	1,000	16 00

(B.)—S. A. Ammunition issued for practice during the Year 1880.—*Con.**Military District No. 2, Toronto—Continued.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
June 16...	Capt. Fothergill.....	34th Battalion	1,000	16 00
do 24...	Lieut.-Col. Alger.....	Ontario R.A.	22,200	355 20
July 7...	C. S. Jones.....	38th Battalion	1,000	16 00
do 27...	do	38th do	2,000	32 00
Aug. 3...	do	38th do	1,000	16 00
do 3...	Lieut.-Col. Alger.....	Ontario R.A.	50,000	800 00
July 30...	J. L. Rawbone	Governor-General's Body Guards	500	8 00
July 11...	Lieut.-Col. Davis.....	37th Battalion	2,653	42 50
Aug. 5...	C. S. Jones.....	38th do	3,000	48 00
Oct. 2...	Bowmanville Rifle Association .....	.....	1,000	16 00
do 5...	Sergt. Sanderson.....	45th Battalion	500	8 00
do 13...	J. S. Rawbone	Governor-General's Body Guards	500	8 00
Nov. 6...	do	do do	500	8 00
Dec. 4...	J. L. Rawbone.....	do do	500	8 00
do 27...	Lieut.-Col. Alger.....	Ontario, R.A.	46,000	736 00
Total			147,856	\$2,369 70

Military District No. 3, Kingston.

Date.	Purchaser.	Corps.	Rounds.	Amount.
April 1...	Lieut.-Col. Bog	16th Battalion	3,000	48 00
May 3...	do	16th do	4,000	64 00
do 17...	do	16th do	2,000	32 00
do 26...	Lieut. Strachan	47th do	1,500	24 00
June 7...	Lieut.-Col. Bog	16th do	2,000	32 00
do 29...	do	16th do	2,000	32 00
July 6...	Lieut.-Col. Rogers	Peterborough Rifle Association	1,000	16 00
do 23...	Capt. Harrison.....	49th Battalion	2,000	32 00
do 23...	Capt. Hooper.....	Napanee Garrison Artillery	1,000	16 00
do 26...	Lieut.-Col. Bog	16th Battalion	2,000	32 00
do 26...	Hastings Rifle Association .....	.....	2,000	32 00
Aug. 13...	Lieut.-Col. Bog	16th Battalion	6,000	96 00
do 12...	Hastings R.A. ....	.....	2,000	32 00
do 20...	Major Hooper.....	Napanee Garrison Artillery	1,000	16 00
do 31...	Lieut.-Col. Bog	16th Battalion	2,000	32 00
Sept. 7...	do	16th do	2,000	32 00
do 14...	Hastings R.A. ....	.....	2,000	32 00
do 25...	Lieut.-Col. Rogers	Peterborough R.A.	1,000	16 00
Oct. 4...	do	do	2,000	32 00
do 4...	Hastings R.A. ....	.....	3,000	48 00
Nov. 2...	Major Dingwall	46th Battalion	1,000	16 00
do 17...	Capt. Murray.....	47th do	600	9 60
Total			45,100	\$705 60

(B.)—S. A. Ammunition issued for practice during the Year 1880 —*Con.**Military District No. 4, Ottawa.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
April 6...	Major Cates	Wakefield Infantry Company	500	8 00
do 13...	F. Clayton	Governor General's Foot Guards, M. H.	200	5 00
do 21...	Major Cates	Wakefield Infantry Company	2,500	40 00
May 5...	Governor General's Office .....	.....	100	1 60
do 5...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
do 10...	Governor General's Office .....	.....	500	10 00
do 11...	Major Cates	Wakefield Infantry Company	500	8 00
do 12...	R. Reardon	Governor General's Foot Guards	500	8 00
do 12...	Sergt. Cawdron	do do	500	8 00
do 12...	F. W. Smith	Metropolitan R.A.	500	8 00
do 17...	Sergt. Cawdron	Governor General's Foot Guards	500	8 00
do 21...	Dept. Marine and Fisheries, Ottawa	Colt's Revolver Ammunition	1,000	10 00
do 21...	Sergt. Clayton	Governor General's Foot Guards	500	8 00
do 28...	Mr. O'Grady	do do	500	8 00
do 29...	Major Cates	Wakefield Infantry Company	500	8 00
do 31...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
June 4...	do	do do	1,000	16 00
do 2...	F. W. Smith	Metropolitan R.A.	500	8 00
do 11...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
do 12...	Capt. Sparham	42nd Battalion	2,000	32 00
do 15...	J. W. Motherwell	Perth R.A.	2,000	32 00
do 18...	Sergt. Cawdron	Governor General's Foot Guards	500	8 00
do 21...	Mr. Fraser	do do	500	8 00
do 30...	Sergt. Cawdron	do do	1,000	16 00
do 29...	W. P. Anderson	do do	500	8 00
July 15...	J. S. Huntington	Prescott Rifle Club	1,000	16 00
do 8...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
do 15...	do	do do	500	8 00
do 19...	Capt. Macdonald	42nd Battalion	500	8 00
do 27...	Sergt. Gray	Governor General's Foot Guards	500	8 00
do 23...	Sergt. Cawdron	do do	500	8 00
do 26...	J. W. Motherwell	Perth R.A.	2,000	32 00
do 30...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
Aug. 3...	Vet. Surgeon Harris	Ottawa Field Battery	500	8 00
do 4...	Sergt. Cawdron	Governor General's Foot Guards	1,500	24 00
do 2...	W. P. Anderson	do do	500	8 00
do 9...	J. W. Motherwell	Perth R.A.	2,000	32 00
do 12...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
do 16...	W. G. Rowley .....	.....	500	8 00
do 16...	F. W. Smith	Metropolitan R.A.	3,000	48 00
do 10...	Major McKenzie	Gananoque Field Battery	500	8 00
do 24...	Sergt. Cawdron	Governor General's Foot Guards	1,000	16 00
do 24...	G. T. Booth	do do	500	8 00
do 24...	Ramsay Rifle Association	M.H.	1,120	18 00
do 24...	James Harris, V.S.	Ottawa Field Battery	500	8 00
do 24...	Pte. O'Grady	Governor General's Foot Guards	500	8 00
do 24...	Capt. McKenzie	Gananoque Field Battery	2,000	32 00
do 27...	Dominion Rifle Association	M.H.	7,100	170 40
do 30...	J. Deslaurier	Governor General's Foot Guards	500	8 00
do 30...	Major Cates	Wakefield Infantry Company	500	8 00
Sept. 2...	J. W. Motherwell	Perth R.A.	2,000	32 00
do 14...	Sergt. Cawdron	Governor General's Foot Guards	2,000	32 00
do 9...	Major McKenzie	Gananoque Field Battery	2,000	32 00
do 18...	H. White .....	.....	3,000	48 00
do 20...	Dominion Rifle Association .....	.....	27,540	440 64
do 20...	Sergt. Cawdron	Governor General's Foot Guards	2,000	32 00

(B.)—S. A. Ammunition issued for practice during the Year 1880—*Con.**Military District No. 4, Ottawa—Concluded.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
Sept. 23...	Major McKenzie.....	Gananoque Field Battery.....	2,000	32 00
do 23...	I. K. Fairburn.....	.....	2,000	32 00
do 23...	J. W. Motherwell.....	Perth R.A.	2,500	40 00
do 24...	Capt. Chamberlain.....	Aylwin Infantry Company.....	500	8 00
Oct. 2...	Dominion Rifle Association.....	 M.H.	2,050	47 70
do 11...	Thos. Coulter.....	Ramsay R.A.	1,850	30 00
do 12...	Capt. Wiley.....	41st Battalion.....	1,500	24 00
do 15...	Major McKenzie.....	Gananoque Field Battery.....	2,000	32 00
do 19...	Capt. Morgan.....	Metcalfe Infantry.....	500	8 00
do 20...	J. D. Hunton.....	.....	500	8 00
do 21...	Sergt. Cawdron.....	Governor General's Foot Guards.....	500	8 00
do 30...	Major Cates.....	Wakefield Infantry Company.....	500	8 00
Nov. 2...	Sergt. Cawdron.....	Governor General's Foot Guards.....	1,500	24 00
do 4...	do.....	do do.....	1,000	16 00
do 15...	Major McPherson.....	do do.....	4,000	64 00
do 22...	Capt. Lang.....	Ottawa Rifles.....	125	2 00
Dec. 21...	Capt. Todd.....	Governor General's Foot Guards.....	500	8 00
.....	D.O. Department, Ottawa	Noon Gun, Powder..... lbs., 500	.....	131 76
Total.....			111,085	\$1,995 30

Military Districts Nos. 5 and 6, Montreal.

Jan. 26...	J. H. Edwards.....	3rd Battalion..... M.H.	3,000	72 00
April 13...	Capt. Chamberlain.....	Aylwin Infantry Co.....	500	8 00
do 26...	J. Marks.....	Caretaker, Rifle Range.....	2,800	44 80
do 26...	Lieut. Abbott.....	3rd Battalion..... M.H.	3,000	72 50
May 28...	J. Marks.....	Caretaker Rifle Range.....	4,480	71 68
June 2...	Major Maclean.....	50th Battalion.....	560	8 96
do 11...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68
do 12...	Major Morehouse.....	53rd Battalion.....	1,120	17 92
do 28...	Capt. Chamberlain.....	Aylwin Infantry Co.....	500	8 00
do 29...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68
do 29...	do.....	do do..... M.H.	1,120	100 48
July 2...	Jas. Ross.....	50th Battalion.....	560	8 96
do 12...	Major Morehouse.....	53rd Battalion.....	1,680	26 88
do 8...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68
do 16...	do.....	do do.....	4,480	71 68
do 23...	do.....	do do.....	4,480	71 68
do 26...	Capt. Hall.....	52nd Battalion.....	560	8 96
do 29...	Lt.-Col. Sheppard.....	53rd Battalion.....	560	8 96
do 30...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68
Aug. 6...	do.....	do do.....	5,600	89 60
do 6...	Lt.-Col. Bacon.....	Quebec R.A.	11,200	179 20
do 18...	J. Marks.....	Caretaker Rifle Range.....	6,720	107 52
do 18...	Capt. Mavis.....	54th Battalion.....	1,000	16 00
do 27...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68
do 30...	Lt. Cook.....	Wellington R.A.	1,120	17 92
do 31...	Lt.-Col. Houde.....	86th Battalion.....	560	8 96
Sept. 3...	J. Marks.....	Caretaker, Rifle Range.....	5,600	89 60
do 3...	Capt. Sheppard.....	Brome Troop of Cavalry.....	560	8 96
do 13...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68
do 13...	Lt. Edwards.....	3rd Battalion.....	560	8 96
do 16...	Lt.-Col. Sheppard.....	83rd Battalion.....	560	8 96
do 17...	J. Marks.....	Caretaker, Rifle Range.....	4,480	71 68

(B.)—S. A. Ammunition issued for practice during the Year 1880—*Con.**Military Districts Nos. 5 and 6, Montreal—Concluded.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
Sept. 22...	Lt. Martin.....	79th Battalion.....	560	8 96
do 27...	Lt.-Col. Houde.....	86th Battalion.....	560	8 96
Oct. 6...	Lt.-Col. Fletcher, D.A.G.	.....	1,120	17 92
do 9...	Capt. Roberts.....	65th Battalion.....	560	8 96
do 12...	J. Marks.....	Caretaker, Rifle Range.....	2,240	35 84
do 12...	Capt. Turnbull.....	Montreal Garrison Artillery.....	560	8 96
do 12...	Capt. McAllen.....	do do.....	560	8 96
Total.....			100,400	\$1,665 78

Military District No. 7, Quebec.

March 9...	Capt. Scott.....	8th Battalion.....	560	8 96
do 16...	do.....	do.....	2,800	44 80
April 10...	Capt. Miller.....	do.....	560	8 96
do 16...	Capt. Scott.....	do.....	2,240	35 84
do 21...	Capt. Ray.....	do.....	1,120	17 92
do 24...	Capt. Millar.....	do.....	1,120	17 92
do 24...	Capt. Scott.....	do.....	2,240	35 84
June 12...	Capt. Scott.....	do.....	2,000	32 00
do 15...	Lt.-Col. Hudon.....	Temiscouata R.A.	1,120	17 92
do 25...	Major Martin.....	Rimouski Battalion.....	560	8 96
do 28...	Capt. Scott.....	8th Battalion.....	1,680	26 88
July 18...	do.....	do.....	560	8 96
do 16...	Capt. Hamell.....	Lévis Battery Garrison Artillery.....	3,360	53 76
do 19...	Capt. Lesueur.....	Stadacona R.A.	3,000	48 00
do 29...	Major Stewart.....	Megantic R.A.	2,240	35 84
do 30...	Capt. Scott.....	8th Battalion.....	2,000	32 00
Aug. 3...	Lt.-Col. Hudon.....	Temiscouata R.A.	1,120	17 92
do 7...	Capt. Scott.....	8th Battalion.....	2,000	32 00
do 16...	Lt.-Col. Hudon.....	Temiscouata R.A.	800	12 80
do 27...	Capt. Laurin.....	Quebec Battalion.....	1,120	17 92
do 24...	Capt. Scott.....	8th Battalion.....	500	8 00
do 26...	Lt. Martin.....	Troop Cavalry.....	1,000	16 00
do 27...	Lt.-Col. Hudon.....	Temiscouata R.A.	1,000	16 00
do 30...	do.....	Rimouski Rifle Association.....	1,120	17 92
Sept. 1...	Capt. Scott.....	8th Battalion.....	1,120	17 92
do 10...	do.....	Rimouski Rifle Association.....	1,120	17 92
do 13...	Capt. Scott.....	8th Battalion.....	560	8 96
Dec. 11...	do.....	do.....	.....	.....
Total.....			38,620	\$617 92

Military District No. 8, St. John.

Mar. 30...	Sergt. Carmichael.....	New Brunswick Engineer Company.....	1,120	17 92
April 23...	E. L. Phillips.....	do.....	560	8 96
May 7...	Lieut. Hart.....	do.....	2,800	44 80
do 21...	Lieut. Hunter.....	do.....	560	8 96
June 19...	Lieut. Goddard.....	62nd Battalion.....	560	8 96
do 1...	Capt. Hartt.....	62nd do.....	1,120	17 92
do 10...	Lieut. Hunter.....	New Brunswick Engineer Company.....	.....	.....

(B.)—S. A. Ammunition issued for practice during the Year 1880—*Con.**Military District No. 8, St. John—Concluded.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
June 21...	Major Stickney	Charlotte Co. R.A.	1,120	17 92
do 30...	Capt. Langstroth	8th Cavalry	560	8 96
July 21...	Capt. Loggie	71st Battalion	1,120	17 92
do 28...	Lieut. Hunter	New Brunswick Engineers	560	8 96
do 27...	Major Vince	Engineers, Brighton	560	8 96
do 31...	Capt. Langstroth	New Brunswick Cavalry	1,680	26 88
Aug. 5...	Capt. Stewart	St. Stephen's Infantry Company	560	9 00
do 7...	Major Stickney	Charlotte Co. R.A.	2,240	35 84
do 7...	Sergt. Thompson	New Brunswick Engineers	560	8 96
do 9...	Capt. Hartt	62nd Battalion	560	8 96
do 10...	Capt. Bourne	67th do	1,120	17 92
do 10...	Lieut. Goddard	62nd do	560	8 96
do 14...	Lieut. Shives	St. John's Rifle Club	560	8 96
do 17...	Lieut. Hunter	New Brunswick Engineers	1,120	17 92
do 18...	Major Parks	do Rifle Association	11,200	179 20
do 21...	Lieut. Hunter	do Engineers	560	8 96
do 18...	Capt. Loggie	71st Battalion	1,120	17 92
Sept. 7...	Lieut. Goddard	62nd do	560	8 96
do 9...	Charlotte Co. R.A.		1,120	17 92
do 11...	W. B. Howard	Northumberland Co. R.A.	1,680	26 88
do 15...	Capt. Hartt	62nd Battalion	560	8 96
do 22...	D. Carmichael	New Brunswick Engineers	1,120	17 92
do 24...	Lieut.-Col. Beer	King's Co. R.A.	1,120	17 92
do 28...	Lieut. Goddard	62nd Battalion	560	8 96
Oct. 4...	Capt. Hartt	do	560	8 96
do 8...	Major Stickney	Charlotte Co. Rifle Association	560	8 96
Total			40,880	\$654 12

Military District No. 9, Halifax.

Mar. 17...	Lieut.-Col. Hudson	Pictou Co. R.A.	560	8 96
do 29...	Lieut. Egan	63rd Battalion	500	8 00
do 31...	Capt. Bland	Provincial R.A.	500	8 00
April 2...	Capt. Gordon	Pictou Garrison Artillery	560	8 96
do 8...	Capt. Lawrence	78th Battalion	500	8 00
do 24...	Capt. Stairs	2nd Brigade Garrison Artillery, friction tubes		10 00
do 29...	Lieut. Masters	King's Troop Cavalry	500	8 00
May 21...	Lieut.-Col. Mackintosh	63rd Battalion	500	8 00
do 25...	Capt. Bland	1st Brigade Garrison Artillery	1,000	16 00
do 20...	Lieut.-Col. Mackintosh	63rd Battalion	500	8 00
do 7...	do	do	500	8 00
do 19...	do	do	500	8 00
May 1...	Lieut.-Col. Mitchell	1st Brigade Garrison Artillery	500	8 00
do 12...	Major Graham	Halifax Field Battery	500	8 00
June 25...	do	do 100 friction tubes		2 50
do 25...	Capt. Gordon	Pictou Garrison Artillery, 25 friction tubes		0 63
do 26...	Col. Laurie	Provincial R.A.	1,500	24 00
do 16...	do	do	1,500	24 00
do 1...	do	do	5,000	80 00
do 2...	do	do	1,000	24 00
do 3...	Capt. Oxley	Cumberland Battalion	500	8 00
do 4...	Capt. Borden	68th Battalion	500	8 00
do 7...	Lieut.-Col. Mackintosh	63rd do	500	8 00
do 11...	Major Graham	Halifax Field Battery	500	8 00

(B.)—S. A. Ammunition issued for practice during the Year 1880—*Con.**Military District No. 9, Halifax—Concluded.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
June 14...	Major Lydiard	King's Co. R.A.	1,500	24 00
do 14...	Capt. Borden	68th Battalion	500	8 00
do 14...	Lieut.-Col. Mackintosh	63rd do	1,000	16 00
July 27...	Col. Laurie	Provincial R.A.	1,000	16 00
do 28...	do	do	1,500	24 00
do 20...	do	do	4,000	64 00
do 19...	Capt. Burgess	78th Battalion	500	8 00
do 20...	Capt. Lawrence	do	2,000	32 00
do 21...	do	do	500	8 00
do 27...	Capt. Bland	Halifax R.A.	4,000	64 00
do 29...	Capt. Oxley	Cumberland Battalion	500	8 00
do 29...	Lieut.-Col. McPherson	2nd Halifax Brigade Garrison Artillery	1,000	16 00
Aug. 27...	Capt. Mills	63rd Battalion	500	8 00
do 30...	Col. Laurie	Provincial Rifle Association	1,000	16 00
do 2...	do	do	1,000	16 00
do 7...	Lieut.-Col. Macintosh	63rd Battalion	4,000	64 00
do 10...	Lieut. Bremner	66th do	500	8 00
do 10...	Capt. Barnhill	78th do	500	8 00
do 11...	Lieut.-Col. Mitchell	Halifax Garrison Artillery	500	8 00
do 11...	Capt. Bland	do R.A.	500	8 00
do 16...	Capt. Burnhill	78th Battalion	500	8 00
do 18...	Lieut.-Col. Mackintosh	63rd do	500	8 00
do 27...	Capt. Bremner	66th do	2,500	40 00
do 27...	Col. Laurie	Provincial Rifle Association	21,000	336 00
Sept. 24...	Digby Co. R.A.		1,500	24 00
do 24...	Col. Laurie	Provincial Rifle Association	1,000	16 00
do 18...	C. A. Knowles	Hants Co. Royal Artillery	1,500	24 00
do 28...	Lieut.-Col. Mowbray	Halifax Garrison Artillery	1,000	16 00
do 15...	Capt. McLeod	78th Battalion	500	8 00
do 14...	Capt. Lawrence	78th do	1,000	16 00
do 3...	Capt. Gordon	Pictou Garrison Artillery	1,500	24 00
do 4...	Lieut.-Col. Mackintosh	63rd Battalion	500	8 00
do 4...	Capt. Payne	78th do	500	8 00
Nov. 2...	Capt. Bland	Halifax Co. R.A.	500	8 00
do 2...	Lieut.-Col. Mackintosh	63rd Battalion	1,000	16 00
Total			80,120	\$1,295 05

Military District No. 10, Winnipeg.

May 25...	A. McNee	Manitoba Rifle Association	1,000	16 00
do 25...	D. Huston	do do	500	8 00
June 18...	E. G. Conklin	do do	2,400	38 40
Aug. 4...	A. McNee	do do	7,200	115 20
do 13...	do	do do	4,800	76 80
Oct. 26...	J. H. Smith	do do	2,400	38 40
Dec. 20...	do	do do	2,400	38 40
Total			20,700	\$331 20

(B.)—S. A. Ammunition issued for practice during the Year 1880—*Con.**Military District No. 11, Victoria, B.C.*

Date.	Purchaser.	Corps.	Rounds.	Amount.
1880.				\$ cts.
Feb. 17...	Capt. Fletcher.....	Victoria Rifles	1,680	26 88
April 6...	do	British Columbia Rifle Association.....	5,460	87 36
do 27...	do	do do	840	13 44
July 3...	do	do do	840	13 44
do 10...	do	do do	4,200	67 20
do 13...	Capt. McDonald.....	Nanaimo Rifles.....	1,680	26 88
Aug. 20...	do Bryden	do	4,200	67 20
do 16...	do A. Peel.....	New Westminster Rifles.....	8,400	134 40
Oct. 7...	do Dupont.....	Victoria Garrison Artillery.....	1,680	26 88
do 22...	Capt. McDonald.....	Nanaimo Rifles.....	4,200	67 20
Total			33,180	\$530 88

Military District No. 12, Charlottetown.

March 5...	Major Dogherty.....	Engineer Company.....	1,680	26 88
May 20...	do	do	2,000	32 00
do 29...	Capt. Longworth.....	82nd Battalion.....	1,120	17 92
June 10...	Major Dogherty.....	Engineer Company.....	2,800	44 80
do 9...	do Mabon.....	82nd Battalion	550	8 80
do 17...	do Dogherty.....	Engineer Company.....	1,000	16 00
June 26...	do do	do	2,000	32 00
July 23...	Capt. Longworth.....	82nd Battalion.....	1,120	17 92
do 29...	Major Dogherty.....	Engineer Company.....	2,000	32 00
do 5...	Capt. McLeod.....	King's County Battalion	1,000	16 00
do 7...	do Mabon	82nd Battalion.....	530	8 50
do 15...	do McRae	do	1,000	16 00
do 11...	do Owen	Georgetown Garrison Artillery.....	1,000	16 00
Aug. 6...	Provincial Rifle Association.....	.....	6,000	96 00
do 7...	Capt. McLeod	King's County Battalion.....	500	8 00
do 11...	Major Dogherty.....	Engineer Company.....	500	8 00
do 12...	do	do	2,000	32 00
do 12...	Capt. McRae.....	82nd Battalion.....	1,000	16 00
do 18...	do Owen	Georgetown Garrison Artillery.....	500	8 00
Sept. 15...	do do	do do	1,000	16 00
do 27...	do McLeod.....	King's County Battalion.....	1,000	16 00
do 20...	Queen's Co. R.A. ....	.....	4,000	64 00
do 8...	Capt. Owen	Georgetown Garrison Artillery	1,000	16 00
Nov. 13...	Capt. Owen.....	do do	1,000	16 00
Dec. 3...	do Mabon	82nd Battalion.....	500	8 00
do 8...	do McLeod.....	King's Co. Battalion	1,000	16 00
do 18...	do Bartlett .....	.....	500	8 00
do 20...	do McRae	82nd Battalion.....	1,000	16 00
Total			39,300	\$630 82

(B.)—S. A. Ammunition sold during the year up to 1st December, 1880.

RECAPITULATION.

Military District.	Rounds.	Amount.
		\$ cts.
Military District No. 1, London.....	48,800	782 80
do No. 2, Toronto.....	147,856	2,369 70
do No. 3, Kingston.....	45,100	705 60
do No. 4, Ottawa.....	111,085	1,995 30
do Nos 5 and 6, Montreal.....	100,400	1,665 78
do No. 7, Quebec.....	38,620	617 92
do No. 8, St. John.....	40,880	654 12
do No. 9, Halifax.....	80,120	1,295 05
do No. 10, Winnipeg.....	20,700	331 20
do No. 11, Victoria.....	33,180	530 88
do No. 12, Charlottetown.....	39,300	630 82
Total	706,041	\$11,579 17

J. MACPHERSON, Lieut.-Colonel,

*Director of Stores and Keeper of Militia Properties.*STORE BRANCH,
31st December, 1881.

[C.]

RETURN of Gunpowder and Friction Tubes issued for practice and salutes
during the Year 1880.

Station.	Corps.	Rounds.	
		Gunpowder.	Friction Tubes.
		Lbs.	No.
M.D. No. 1. London.	Field and Garrison Batteries	496	400
2. Toronto	do do	2,155	904
3. Kingston	do do	3,417	969
4. Ottawa	Post-Office, Noon gun.	500	395
4. do	Salutes	445	130
4. do	Field Battery	275	225
5 & 6. Montreal.	Field and Garrison Batteries	646	539
7. Quebec	do do	2,667	620
7. do	"A" & "B" Batteries	4,202	1,078
8. St. John, N.B.	Field and Garrison Batteries	2,865	816
9. Halifax, N.S.	do do	7,700	1,910
10. Manitoba	Winnipeg Field Batteries	80	47
11. Victoria .....	.....	.....	.....
12. Charlottetown, P.E.I.	Garrison Batteries	1,168	258
Total.....		26,616	8,291

J. MACPHERSON, Lieut.-Colonel,

Director of Stores and Keeper of Militia Properties.

31st December, 1880.

The Honorable

The Minister of Militia and Defence,
Ottawa.