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The Volunteer Review

AND MILITARY AND NAVAL GAZ TTE.

A Journal Devoted to the Interests of the Military and Naval Forces of the Dominion of Canada.

VOL, X.

OTTAWA, (CANADA,) TUESDAY, APRIL 11, 1876.

No. 14.

The Volunteer Review iblished EVERY TUESDAY MORNING, at

OTTAWA, Dominion of Canada, by DAWSON KERR, Proprietor, to whom all Busizess Correspindences hould be addressed.

TERMS-TWO DOLLARS perannim, strictly nadvance.

TO CORRESPONDENTS.

AllCommunications regarding the Militia or Volunteer movement, or for the Editorial Department, should be addressed to the Editor of THE VOLUNTEER REVIEW, Ottawa.

Communications intended for insertions hould be written on one side of the paper only.

Wecannot undertake to return rejected communications. Correspondents must invariably send us confidentially, their name and address.
Allletters must be Post-paid, or they will not

be taken out of the Post Office.

Adjutants and Officers of Corps throughout the Provinces are particularly requested to favor us egularly with weekly information concerning the movements and doings of their respective Corps, including the fixtures for drill, marching out, rifle practice, &c.

We shallfeel obliged to such to forward all in rmation of this kind a searly as possible, so that may reach us in time for publication.

TERMS OF ADVERTISING:

First insertion, measured by solid nonparell type. 10cts. per line. Subsequent insertions..... 5cts. " "

Professional Card six lines or under, \$6 per year; over six lines and under fifteen, \$10 per

Announcements or Notices of a personal er business nature, in the Editorial, Local or Correspondence columns, Twenty-Five Cents aline for the first insertion and 121 Cents for

each subsequent insertion.
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Special arrangements of an advantageous character male with Merchants for the Year, Half Year or Center.

PROSPECTUS FOR 1876 OF THE " WITNESS."

THE friends of healthy literature have, by permeasuring diligence, placed the Montreal Witness in the very first rank of newspapers. The rapid growth of trashy reading, and of what is positively vile, stimulating good people to more samples entires than ever to fill every household with sound mental food. A clergyman has lately secured for the Wissess hundreds of subscribers, and declars his intention to make this one of his first duties in his present this every future field of labor, as he holds that by no other means could he do so much for the factors of a neighborhood as by placing good resides in every family.

Subscribers remitting new subscriptions beside their own are entitled to the following discounts on such subscriptions:

Daily Witness 50c.

PROSPECTUS FOR 1876 OF THE "CA-NADIAN MESSENGER."

THE PIONEER PAPER.

The Messenger is designed to supply the homes of the Sunday School scholars of America with family reading of the most useful and interesting sort at the lowest possible cost. It consists of Temperance department, and an Agricultural degit to concentrate and interesting the seal of the lands of Temperance and religious liberty in lends of Temperance and religious liberty in lends of Temperance and religious liberty in lends of Temperance department, and an Agricultural degration of the most useful and interesting sort at the lowest possible cost. It consists of Temperance department, and an Agricultural degration of the most useful and interesting sort at the lowest possible cost. It consists of Temperance department, and an Agricultural degration of the most useful and interesting sort at the lowest possible cost. It consists of Temperance department, and an Agricultural degit pages of four columns are a Sanitary debartment, and an Agricultural degration of the such pages of four columns are a Sanitary de

favor of the Wilness. Indeed, the fact that the last assault has been followed up for six months with the most untiring efforts to break down the paper on the part of the most power ul moral opposition that could be organized on earth, and has resulted in cutting us off from some, at least, of those Roman Catholic readers whose good will we formerly enjoyed and highly prized, give us perhaps, some claim on the kind offices of those who value free speech and freedom of religious belief. The actual diminution of the circulation of the Daily Wilness is of course, omparatively small, amounting to about 500 out of 13,000, or less than four per cent., and does not effect us pecuniarily, as we can still claim a circulation equal in volume to that of all the rest of the daily city press, probably the majority of our old Roman Catholic reading beingsuch still.

The progress of the paper may be gathered approximately from the following figures:

Cir. Semi-Weekly

Cir. Daily, and Tri-Weekly ir. Weekly

	Cir. Daily.	and Tri-Weekly	ir. Weekly
	1st Sept.	1st Sept.	1st Sept.
1871,	10,700	3,000	8,000
1872,	10,000	3,600	9,000
1873,	11,600	3,600	10,750
1874,	12,900	3,800	17,000
1875,	12,400	3,200	19,700

We have good reasons to be specially desirous to reach the whole country this winter, and have the Witness presented earnestly to the notice of every family. To this end we have determined to depart from the usual course of allowing our publications to commend themselves on their merits alone, and to inagurate on a large scale a competitive effort on the part of all our subscribers to increase the subscription list. This competition will last during the month of October, and will be open to all. The list of prizes will be found below.

tition will last during the month of October, and will be open to all. The list of prizes will be found below.

If this comes to any who are not familiar with the Witness, we may say that for twenty-nine years it has labored for the promotion of evangelical truth, and for the suppression of the liquor traffic. Our effort is to produce a Christian Temperance Newspaper, unattached to any political party or religious denomination, seeking only to witness fearlessly for the truth and against evil doing under all circumstances, and to keep its readers abrest with the news and the knowledge of the day. It devotes much space to Social, Agricultural and Sanltary matters, and is especially the paper for the home circle. It is freely embellished with engravings.

The Weekly Witness has been enlarged twice, and nearly doubled within four years, and is the very most that can be given for the price—\$1.10 per annum.

The Montreal Witness (Tri-Weekly), gives the news three times a week, and all the reading of the Daily Witness for \$2.00 per annum.

The Daily Witness for \$2.00 per annum.

The Daily Witness is in every respect a first class daily containing much more reading matter than the papers which cost twice as much, for \$3.00 per an.

All of course, are post-paid by Publishers.

Subscribers remitting new subscriptions beside their own are eatitled to the following disconnts on such subscriptions:

Daily Witness

50c.

Tri-Weekly

25c.

PROSPECTUS FOR 1876 OF THE "CA-

one to the Sunday School lessons of the International Series, and a children's column. The paper is magnificently illustrated. There has been a very rapid increase in its circulation during the past year, namely, from 15,000 to 25,000, and the ratio of increase rises so rapidly that the proprietors have sanguine hopes of doubling the latter figure before the end of next year. There has been, as a result of this prosperity, some improvement in the style of the paper, and it will, of course, be possible to introduce more and more improvements as circulation grows. Most of the growth of the Messenger has been by the volumary recommendation of it by triends who have formed thier own opinion of its worth, and by the introduction offlinto Sunday Schools. Young correspondents say that their Sunday Schools are more interesting and better attended since it has been introduced.

The ollowing are the prices of the Messenarr

The ollowing are the prices of the Messenger 1 copy 10 copies 25 copies 50 copies 100 copies 1,000 copies 0 30 2 50 6 00 11 50 22 00 8 200 00

Surplus copies for distribution as tracis, twelv dozen for \$1.

PROSPECTUS FOR 1876 OF THE " NEW LOMINION MONTHLY."

In general style and appearance the Dominio has, during the last few months, very considerably improved, and it is intended to improve ou the present as much as the present is an improvement on the past, and the Magazine of next year will be read with an ease and pleasure greater than hitherto. When we say that these improvements are not to be marked by any change of price, we refer to the full price of \$1.5\$, per annum. Hitherto the Dominion has been clubbed with the "Weekly Witness" at \$1.00, which it will be simply impossible to continue now that one-fifth has been added to its bulk, a ong with better paper and printing. The Dominion is henceforth to be clubbed with the "Witness" at \$1.25, and is better worth its cost than ever before. Twenty-five cents, instead of fifty will be the discount allowed to friends obtaining for us new subscribers at full rates, the inducements to subscribers being now put into the magazine itself. The object of the publishers of the Dominion is to develop a native Canadian ilterature, and very much has been accomplished in this way during its history of nine years, thage of the magazine being that of the Dominion of Canada. Those interested in the same object will not, we think, waste their efforts if they do what they can to make the magazine a pecuniary success, what we presume no magazine in Canada has ever yet been for any length of time.

LIST OF PRIZES.

1			-		
1. T	amount	ison sendofnoney	on or be	fore 1st	
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1	our pub	lications.	. 		\$50. 00
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3.	4.	4.	3td	+ 6	30.00
4.	4.6	16	4th	44	20,00
5.	44	61	5th	4.6	15.00
6.	6 ·	41	6th	"	10.00
7.	"	16	7th	4+	10.00
Five	prizes	of \$5 ea	ch for tl	he next	
		amounts			20.0

JOHN DOUGALL & SON, Publishers, I ontreal.

THE

BEST INVESTMENT!

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\$20 WHOLE BONDS. EACH. HALF .. \$10 " QUARTER \$5

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All Bonds participate in each Series drawing

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ing Premiums:

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Portions of Bonds receive their proper propertion.

ALLOTMENT, MARCH 6.

And in April, June. July, September, October, December, 1876.

BUY A BOND NOW AND IT PARTICI PATES IN EVERY DRAWING TILL IT IS REDEEMED.

Fractions of Drawing Bonds, in Maion 6th Premium Allatment, \$5 each.

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Albert L. Catlin. Burlington, Vt. Wm. F. Trake, Drake Bros., Bankers. N. Y. John J. Anderson. St. Irouts and new York Warren Murdook. New York Hon. Joha C. Robinson, Binghampion, and N. Y. City.

Trustees of Mortgage.

Norg.-\$5 will purchase a Fraction participat-

MARCH 6 ALLOTMENT.

If it draws less than \$5, Company will take it hack as \$5 in the purchase of a whole bond of the Industrial Exhibition Co. of New York.

195,000. The DAILY and WEEKLY Editions of the

MONTREAL STAR

have now (it is estimated) an audience of One Hundred and Ninety-five Thousand Readers, which makes them the most widely circulated and influential newspapers published ir Canada.

BOYNTON'S PATENT LIGHTNING SAW

S500 CHALLENGE.

That it is the FASTEST-CUTTING SAW in the world.

In order to introduce my unrivalled Cross-out Saws to the Canadian market, I will send my best saws to any address at 5n cts. per foot for each in advance for one month. This is one-half my list price. Perfect quality gwaranteed. Agents wanted.

E. M. BOYNTON, 50 Beekman St., N. Y.

DR. WARNER'S SANITARY CORSET.

With Skirt-Supporter and Self-Adjusting Pads.



Patentel Sept 28th, 1875.

Secures health and comfort of body, with grace and beauty of form.

and beauty of form.

We would particularly call attention to the folowing advantages:
ist. It affords a convenient and efficient support for the underclothing.
Id. The Soif Adjusting Pads are the delight of every ladv. They give elegance to the form, and are not in any way injuries or objectionable.

3d. It combines three garments in one—a corsot, a skirt supporter, and self-adjusting tuds—and yet costs no more than an o divary corsot.
In ordering, give size of waist instead of number of corsot usually worn.

Price in London Cord, \$2.00, Satteen, \$1.75.
Misses' Corsets, \$1.25, Children's Corsot-waist with stocking supporter, \$1.50. Samples sent by math, on receipt of price.
25 cts, will be allowed for this advertisement, if it is cut out and sent with the order.

Great inducements to good Agents.

Address.

WARNER BROS.,

5in-1

THE WEEKLY SUN. 1776. New York. 1876.

Eighteen hundred and soventy-siz is tite ('on tennial year. It is also the year in which an Opposition House of Representatives, the first since the war, will be in power at Washington; and the year of the twenty-third election of a President of the United States. All of these events are sure to be of great interest and importance, especially the two latter; and all of them and of crything connected with them white telliy and freshly reported and expounded in The Sun.

The Opposition House of Representatives, taking up the line of inquiry opened years ago by Tux Sun, will sternly and diligently investigate the corruptions and misd eds of Gran "sadiministratio; and will, it is to be hopea lay-the foundation for a new and better perh d in our national history. Uf and this Tine Sun will continue complete and accumic accounts, furnishing its readers with early and trustworty information upon these absorbing topics.

The twenty-third Presidential election, with the preparations for it, will be memorable as declaing upon Grant's assirations for a third form of power and plander, and said more as deciding who shall be the candidate of the party of Reform and as electing that candidate. Concerning all those as blocks, three who read Time Sunwich have the constant means of being theroughly full informed.

has its readers in every State and Territory, and we trust that the year 1878 will see their numbers doubled. It will commune to be a thorough newspaper. All the general news of the day will be found in it, condensed when unimpertant, at full length when of moment; and always, we trust, treated it a clear, interesting and instructive manner. manner.

manner.

It is our aim to make the Weekly Sun the best family newspaper in the world, and we shall continue to give in its columns a large amount of miscolianeous reading, such as stories, inles, poems; scientific intelligence and agricultural information, for which we are not able to make room in our daily edition. The agricultural department especially hone of its prominent features. The fashions are also regularly reported. tures. The fashions are also regularly reported in its columns; and so are the markets of every

kind.
The Weekly Sun. eight pages with fifty-six broad columns is only \$1.20 a year posting prepaid. As this price barely repays the cest of the paper, no discount can be made from this rate to cinbs, agents, Postmasters, or anyone.
The Daily Sun, a large four page nowepaper of twenty eight joinmas, gives all the news for two cents a copy. Subscriptions, postage prepaid, 55c. a month or \$4.50 a year. Sunday edition extra, \$1.10 per year. We have no travelling als.

THE SIIN. New York City.

THE SUN, New York City.

TASTELESS MEDICINES.

A prominent New York physician lately complained to DUNDAS DICK & CO. about their SANDALWOOD OL CAPSULKS, stating that sometimes they cored miraculously, but that a patient of his had taken them without effect. On being informed that so eral iminations were sold, he inquired and founch his patient had not been taking DUNDAS DICK & CO'S.

What happened to this physician may have happened to others, and DUNDAS DICK & CO take this method of matering physicians, drugals and thems tees, and proventing the Capsules will continue to do to, for they contain the pure Oil in the best and chapest form.

DUNDAS DICK & CO. so more Oil of Sandarwood than all the Wholesale and Retail Drug-list and Perumers in the United states combined, and this is the sole teason why the pure Oil is sold cheaper in their Capsules than in any other form.

soid cheaper in their Japsules than in any other form.

OIL OF SANDALWOOD is fast superseding every other remody, sixty Capsules only being required to insure a safe and c. rt. in cure in six or eight days. From no other medicine can this result is had.

DUNDAS DICK & CO'S. SOFT CAPSULES solve the problem, long considered by eminent physicians, of how to avoid the nansea and disgust experienced in swallowing, which are well known to defract from, if not destroy, the good effects of many valuable remedies.

Soft Capsules are put up in tin-foil and neat boxes, thirty i each, and are the only Capsules prescribed by physicians.

TASTELES MEDICINES.—Caster Oil and many other nauseous medicines can be taken easily and safely in Dundas Dick & Co's Soft Japsules. No Snell.

These were the only Capsules admitted to the last Parls Exposition.

Cond for Circular to St Wooster street, N.Y.

Soid at all Drug Stores Here.

Sold at all Drug Stores Here.

Price, Twenty five Cenis.

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NINETY EIGHTH EDITION.

Containing a complete list of all the towns in the United States, the Territories and the Dominian of Canada, inving a population greater than 5,000 according to the last cerus, tegether with the names of the newspapers having the largest local streulation in each of the places named. Also, a catalogue of newspapers which are recommended to advertisers as giving greatest value in proportion to prices charged. Also, all newspapers in the United States and Canada printing over 5,000 copies such issue. Also, all the Religious, Agricultura; Sciutilia and Mechanical, Medical, Masonic, Javenile, Advestional, Commercial, Insurance, Real Issuer, Law, Sporting, Musical, Exploid, and other special class journals; very complete lists. Together with a complete list of over 500. German palers printed in the United States. Also, an essay upon suvertising many inbles of raice, showing the cost of advertising in various newspapers, suit everything which a beginner in advertising would like to Madeau. kno

Address GEO. P. ROWFLL, & CO., Al Park Row, New York

Review Volunteer

AND MILITARY AND NAVAL GAZITE.

A Journal Devoted to the Interests of the Military and Naval Forces of the Dominion of Canada.

VOL. X

OTTAWA, (CANADA,) TUESDAY, APAIL II. 1876.

NEWS OF THE WELK.

It will be seen by the following extract from the Winnipeg Standard, that the pros pects of Manitoba are in no wise damped by the ravages of the grasshopper list year -ror are emigrants deterred from going there-as quite a large number having left this neighbourhood within the last two months for that Province and British Columbia.

" Notwithstanding the plague which fell so heavily upon us last year, there were 500 homestead entries, representing 80 000 acres, made in this Province in the ten months ending the 31st October last; during the same period pre-emption entries covering 60.000 acres were made, 15,000 acres were sold for cash, and 17,000 acres were disposed of under military bounty warrants."

The Hon. Judge Taschereau has forward ed a bottle of flies to Dr. Lorne, of the Lavel University, with a letter stating that a singular phenomenon occurred at River du Loup during a northeast tempest on Monday the 3rd. A shower of flies fell with the snow, covering a space of several acres, and millions of these insects were walking over the snow, without appearing able to fly. In shape they resemble the mosquito, but are somewhat larger.

The representatives in Senate and House

of Commons of Manitoba have invited the Premier to pay their Province a visited dur ing the coming summer which he is likely to comply with, if possible.

Mr. Cartwright has withdrawn the In-

surance Bill. It will be reintroduced next

Mr. G. P. Drummond, of this city, has invented and completed a machine for ex hibition at the American Ceutennial, which he claims will set and distribute from 12,000 to 15,000 type per hour. Application for patents has been made in England, France, Germay the United States and Canada.

Captain Kensington, R. A., and Captain Ridout, 90th Regiment, recently appointed to the staff of the Military College, have arrived at Kingston.

The Hamilton School Board has ordered negatives to be taken of the Central School, Collegiate Institute, Murray and Victoria streets schools, and forwarded with reports of the schools to the Philadelphia Exhibi-

Further experiments are to be made at Portsmouth with the air bag presented to the Admiralty by the Russian Government as a suggestion for raising the "Vanguard," although there is now but faint hope of ever recovering that unfortunate ship.

Commerce voted to report adversely on the joint resolution requesting the President to appoint three commissioners to confer with other commissioners, to be authorized by Great Britain, to investigate and ascertain on what basis a treaty of reciprocal trade for the mutual benefit of the people of the United States and the Dominion of Canada can be negotiated.

The Belfast News Letter announces that ' Capt, J. B. Redoubt, 90th Light Infantry, has returned to Dublin to make arrangements for embarkation for Kingston and Ottawa, to take up the duties of Captain of Cadets of the Canadian Military College, for

which he has been selected "
In the House of Lords last night April 4 the Earl of Shaftesbury offered his motion for an address to the Queen praying Her Majesty not to assume the title of Empress. He argued that that title was distasteful to the vast majority of the people, and made the point that after the recent argument of Mr. Disraeli the assumption of such a title would be an insult to the Czir. The Eurl of Carnaryon opposed and Lord Selbourne supported the motion, which, after a long debate, was rej eted by a vote of 137 to 91. The Royal Titles Bill then passed through the committee.

A commencement is to be at once made of the powerful broadside ship "Agamemnon, which is to be built at Chatham. The new vessel is intended to be the most powerful armor clad ship of ber class yet constructed for the Royal Navy. a somewhat novel feature being introduced in her. as she is intended to carry her monster guns in what is described as a citadel on her upper deck.

The Duke of Cambridge has issued new regulations relative to musketry instruction. His Ropel Highness points to the number of detached and employed men who have been exempted from musketry exercise, and has issued an imperative order that every sol-

dier shall be trained annually.

Four powder magazines on Arsenal Hall Salt Lake city, exploded on the evening of 5th. Boulders fell crushing through the city, some falling a mile distant. Five persons were killed, and one woman died of fright. The damage to glass alone is \$50,000. Two boys went shooting this morning Enough of the remains were found near the magazine to indentify them. One of their hands was found clutching a duck. It is now supposed they had fired into the maga zine, causing the explosion. It is stated that no men were at work on the maganine.

Advices from Bosnia assert that the insurrection which broke out in Bihacs District is in full headway along the Drina and North his sojourn in Paris.

The United States House Committee on | Besni in frontiers, and all the places between Magdane, Polje and Belrawawatzh we risen. Deputations of the insurgents have gone to Belgrade.

NOT THE REPORT OF THE STATE OF THE STATE OF THE STATE OF THE PROPERTY OF THE STATE OF THE STATE

Russia has lost no time in considering how to turn her new possession, Sighilien, to a profitable account. A commission in stituted at St. Petersburg recommends the construction of five steamers to ply between the southern shores of the Island of Sagira lien, the Russian Pacific coast, and Shanghai. Tue fine seams of coal in the island will prove of inestimable value for steam pur poses in the part Ruscia is destined to play in the waters of the Japan Sea. Japan will probably have cause bitterly to regret that she ever exchanged there valuable deposits of coal for a few rocky islands, capable of nothing better than for breeding and dwelling places for sea otters. With respect to the steamers to be built, they will in all probability be so constructed as to be suitable for war purposes. These steamers will probably prove to be the nucleus of a Russian fleet, to be permanently employed in these waters.

The Times' special despatch from Alexanthis sys that the King of Abyssima sent envoys to Egypt asking for peace, but afterward made impossible demands for a treaty of commerce before a treaty of peace was signed, and for the payment of the war expenses. The Egyptians are fortifying strong cositions commanding the passes. They will gurison these, and withdraw the rest of their troops during the rainy season It is suggested that a neutral territory be formed to prevent future warfare between Abyssinia and Egypt. It is reported that Prince Tigre has revolted, and is marching on Adown the capital of the State Many persons favor the plan of of Tigre. placing the late King Theodorus's son on the throne of Abyssinia under a guarantee.

The insurgent leaders have informed Buron Pedik of the conditions on which they will lay down their arms. Their terms include the withdrawal of all Turkish troops except six small garrisons, which shall be placed under the supervision of the Russian and Austrian inspectors. They also require the disarmament of the Mohamedans, and guarantees from their power.

A cable despatch says: In the House of Lords yesterday the Royal Titles Bill as received from the House of Commons passed third reading without a division after a brief

The Earl of Derby, British Minister of Foreign Affairs, arrived in Paris on the 7th. The Memorial Diplomatique says a satisfactory solution of the question relative to Egypt will doubtless be arrived at during Annual Report on the State of the Militia for 1875.

(Continued from page 147.)

APPENDIX No. I.

MILITARY DISTRICT, NO. 2.

Old Fort. Toronto, 16th December, 1875.

Sir,-I have the honor to forward, for sub mission to the Major General Commanding, the enclosed Inspection Report of corps of the Active Militia, which have performed the annual drill for the year 1875 76 in Milita. 7 District No. 2, in accordance with Gen-enral Orders, dated Ottawa, 23rd April,

In submitting this report, I beg leave to lay before the Major General Commanding, the following memoranda in relation to the strength, and the manner in which the annual drill of the force, under my command was performed.
The authorized establishment of the Active

Militin, in the District, consists of :-

Cavalry.

Governor General's Body Guard and 2nd Regiment—(7 Troops) 32 officers, 440 non-commissioned officers and men, horses 472.

Artillery.

3 Field Batteries, 18 officers, 225 non commissioned officers and men, horses 195, guns 12. 3 Garrison Batteries, 9 officers, 165 noncommissioned officers.

Infantry.

15 Battalions; 1 Rifle Company at Saulte Ste. Marie (the Rifle Company at the Saulte is in possession of two Mountain Rifled Guns) 481 officers, 6,380 non commissioned officers and men, 68 horses, guns 2. Total officers 520, non commissioned officers 7,210, horses 735, guns 14.

The force authorized to drill by General Order, 23rd April, 1875, is as follows:-

Cavalru.

Governor General's Body Guard and 2nd Regiment—(7 Troops) 24 officers, 336 non commissioned officers and men, horses 360

Arlilleru.

3 Field Batteries, 18 officers, 225 non-commissioned officers and men, horses 183, 3 Garrison Batteries, 6 officers, 126 non commissioned officers and men.

Infantry.

15 Battalions 1 Rifle Company, 348 officers. 4,914 non commissioned officers and men, 68 horses. Total, officers 396, non commissioned officers and men 5,601, horses 611.

The force which performed the annual drill for the year, is as undermentioned :-

Civalry.

Regiment—(7 Iroops, 22 officers, 325 non commissioned officers and men, 347 horses.

Artiller

3 Field Batteries, 11 officers, 225 non commissioned and men, 110 officers. 3 trarison; ment Cavarry: Officer in charge of Cam, Batteries, 6 officers, 118 non commissioned, Police, Energy Kerr, 13th Battalion. officers and men.

Infuntry

15 Battalions 293 officers, 4,617 non com-

Regimental Officers and N.-C. O. employed on the Brigade Staff, 9 officers, 8 non commissioned officers, 7 horses. Total, 341 officers, 5,293 non commissioned officers and men, 598 horses.

Recapitulation.

Establishment, 520 officers, 7,210 non commissioned officers and men, 735 horses, 14 guns.

The force ordered to drill, 396 officers, 5,601 non commissioned officers and men, 611 horse

The force which performed annual drill, 341 officers, 5,293 non commissioned officers and men, 598 horses,

There were three companies of infantry, two of which were not required to drill by an after General Order. Rating them at the authorized strength, they would show six officers and 118 non commissioned officers and men in favour of the drilled force, thus approximating the latter force to within 49 others and 196 non commissioned officers and men, to that ordered to perform its annual drill.

The three Garrisson Batteries-Toronto, Collingwood and St. Catharines—were assembled, by order, at the New Fort Barracks, Toronto, in order to perform their an nual drill, and brigaded there.

These corps were assisted in the perform ance of their drill and duties by Lieut. Wilson, "A" Battery, who acted as Fort Adjutant; Sergis. Bramah and Baldock, "A" Battery, as Instructors.

They rationed themselves in a satisfactory manner, receiving the allowance of 25 cents per man.

Before the termination of their drill, they were inspected by Lieut, Col. Irwin, Assist ant inspector of Artillery, accompanied by Lieut. Col. Denison, Brigade Major, who made a very favourable report of the efficiency of these corps.

It appears to me to be the most satisfactory manner in which these corps can per form their annual drill, deriving all the benefit of being placed in barracks, as well as the practical instruction of heavy gun drill-shot and shell practice.

The 10th Royals performed its annual drill at Toronto. This corps is much improved, both in physique and general appear ance, when inspected by mc. They muster ed nearly in full strength, both officers and men. Although it is not a satisfactory manner to perform its drill at home, the general appearance of this corps was very credit-

With the exception of this corps and the three corps previously mentioned, the re-mainder of the force performed the annual drill in two Brigade Camps of Instruction, formed at Niagara on the ist, and at Holland Landing on the 22nd Jane last, respectively. Both camps were under my personal command.

CAMP NIAGARA.

Brigade Staff.

Superintendent of Dr.II, Lieut. Col. Deni-Governor General's Body Guard and 2nd son, Brigade Major, Brigade Major, Lieut.
egiment—(7 froups, 22 officers, 325 non vol. Viniers, Brigade Major, Camp Quarter
emmissioned officers and men, 347 horses. Major Moore, 13th Battalion, Supply Officer, Capt. Mason, 13th Battalion, Musketry Instructor, Capt. Johnston, Orderly Uthcer, Lieut. Jones, No. 5 Troop 2nd Regi

The camp was composed of the following corps :

2nd Regiment of Cavalry (5 Troops) 16 officers, 199 non commissioned officers and men, 215 horses.

Hamilton Field Battery, 3 officers, 75 non commissioned officers and mon, 57 horses.

Welland Field Battery, 3 officers, 75 non 2nd Battalion Queen's Own Rifles 24 officers, 420 non commissioned officers and men, 4 horaes.

13th Battalion, 16 officers, 245 non com-missioned officers and men, 5 horses. 19th Battalion, 17 officers, 253 non commis-sioned officers and men. 4 horses.

20th Battalion, 20 officers, 287 non com-missioned officers and men, 4 horses. 37th Battalion, 20 officers, 284 non com-missioned officers and men, 5 horses.

38th Battalion, 13 officers, 199 non commissioned officers and men, 4 horses.

39th Battalion, 24 officers, 336 non commissioned officers and men, 5 horses.

44th Battalion, 16 officers, 257 non commissioned officers and men, 4 horses.

77th Battalion, 16 officers, 240 non commissioned officers and men, 4 horses. Brigade Staff, 8 officers, 6 non commission.

ed officers, 8 horses. Total 196 officers, 2,876 non commissioned officers and men, 374

The above force moved into camp and went under canyas, without any difficulty, for twelve days' drill, on Tuesday, 1st June. The issue of rations on the following morning took place without any delay whatever. The machinery of the whole camp worked

uncommonly well.

The drill of the few days of the first week, was confined exclusively by the three arms of the force (with the exception of the force daily detailed for the target practices at the rifle ranges) to that appertaining to each

Carrying out the General Orders.

The officers commanding corps availed themselves of the facilities for drill on the fine open common, where there is plenty of room for each corps.

The camp was visited and inspected on the Monday following, the 7th inst., by the Hon. W. B. Vhil, the Minister of Militia and Defence, accompanied by Lieut. Col. Mac-Pherson, Accountant at Head Quarters, on which day the first brigade parade was formed, in honor of that Minister, who evidently showed and took the greatest interest in the force, as well as the working of the camp in all its details.

The Minister was good enough to express himself on parade as much pleased with the general appearance of the force, and the

On Wednesday, the 9th June, Major Gen eml Selby Smyth, commanding the Militia, with his A. D. C., Captain the Hon. Miles Stapleton, visited and inspected the camp, with a brigade parade in the afternoon. On the following day, Thursday, the whole force was inspected by the M jor General, when a brigade field day took place under the su pervision of that officer. The Major General was good enough to state on parade his sat-isfaction with the force in camp, their movements in the field, as well as their appear ance.

The musier of the force was very good, in fact every corps responding well to the General Order. The 2nd Battalion, Queen's Own Julies, over its required quots; the 39th Battalion, every officer and man preειnt.

The supply of rations was very good, and was well carried out by the respective contractors. There were no complaints. The cost of rations per man was 21 cents; the cust of forage per ration was 312 cents. The general conduct and her the of the men in damp were good.

The camp broke up on Saturday, the 12th, and the officers and men were duly muster

ed by the District Paymaster, Major Alger. in the presence of Liev'. Col. Denison, Drill Instructor. The two Field Batteries remain. ed in camp, according to order, in order to finish their shot and shell practice. These batteries were isspected by Lieut. Col. Irwin, Assistant Inspector of Artillery.

CAMP, HOLLAND LANDING.

Brigade State.

Superintendent of Drill, Lieut, Col Denison, Brevet Major; Brigade Major, Major Bligh, 35th Fattalion; Supply Officer, Major Selby, 12th Estalion; Camp Quartermaster, Major Moore 13th Battalion; Musketry In structor, Captain White, 12th Battalion; Orderly Officer, Cornet Denison, Governor General's Jody Guard; Officer in charge of Camp Pollie, Ensign Perritt, 31st Battalion. The camp was composed of the following

corps :-Governo General's Body Guard, 2officers, 42 non commissioned officers and men, 44

horaes.

2nd Ragiment of Cavalry (2 Troops) 4 officers, 84 non commissioned officers and men, 88 horses.

Toronto Field Battery, 5 officers, 75 non commissioned officers and men, 55 horses.

12th Battalion, 23 officers. 335 non commissioned officers and men, 4 horses.

31st Battalion, 17 officers, 295 non com missioned officers and men. 4 horses.

14th Battalion, 16 officers, 287 non commissioned officers and men, 4 horses.

85h Battalion, 24 officers, 413 non com missioned officers and men, 4 horses.

36th Battation, 18 officers, 362 non commissioned officers and men, 4 horses.

Brigade Staff, 8 officers, 6 non commission ed officers, 8 horses. Total, officers 117. non commissioned officers and men 1,899, horses 215.

Thosboveforceassembled and went under canvas on the 22nd June, for twelve days'

The same routine of drill and duties and issue of rations was carried out in this camp which took place at Niagara. The muster of the different corps very good. General behavour and health of the men, good. One or two cases or typhoid fever reported. Ra-

tions equally as good, and well supplied by contractors. Cost of rations per man. log cents; cost of the forage rations, 50

The comp was visited and inspected by Major General Selby Smyth, Commanding the Militia, accompanied by his A. D. C., Capt. the Hon. Miles Stapleton, on the 20th June. The force paraded in brigade on the afternoon of that day, when a field day took place in the presence of the Major General. at the termination of which he again express. ed himself a favourable terms on the appearance or see whole force on parade, and the manner in which they moved in the field.

On the 1st July a brigade parade took place, in honor of Dom' ion Day, on which occassion a fue de joie was fired, with a few brigade movements. An immense concourse of people from all parts of the country, estimated at 10,000, assembled to see the troops. No accident occurred. The camp broke up on Saturday, the 3rd July. The force, hav ing been duly mustered by the District Pay master, Major Alger, and paid, then prooceded homewards.

Turget Practice.

I beg leave to forward the enclosed re-ports of Capt Johnston, Musketry Instruc-tor at Magara Camp (marked A), and Capt. White, 84th Battalion, Musketry Instructor | tion.

at the Camp at Holland Landing (marked B).
On reference to these reports it will be

seen that at the

CAMP NINGARA,

The brigade figure of merit was, 18:14.

Best shooting Battalion, 20th Battalion, figure of merit 26:30.

Best shooting Troop, No. 1 Troop, 2nd Regiment, figure of morit 16:43.

Best shooting Company, No. 5 Company,

With Battalion, figure of merit 33-40.

Best shot in Brigade, Color Sergt. Brady,
2nd Battalion, Queen's Own Rifles, 66 pts.

AT HOLLAND LANDING.

Brigade figure of merit 18-53.

Best shooting Battalion, 35th Battalion, figure of merit 22-02.

Best shooting Troop, No. 2 Troop, 2nd Regi-ment, figure of morit 15:22.

Best shooting Company, No. 4 Company, 35th Battalion, figure of merit 28 00.

Best shot in Brigade, Corpl. Shaver, No. 7 Company, 31st Battalion, 63 pts.

Both the officers recommend a fewer numher of rounds to be fired by the rank and file (20 rounds having been fired), or more time given, in order to afford instruction in

the rifle practice. The 600 yards range appears to be a most difficult range for young shots, especially if there is any wind blowing across the range. Young shots, as a rule, fire at the target without making any allowance for windage, &c., and as the time permitted is so very limited, the Instructor is unable to give that instruction at the ranges, which is necessary

to make them fire with any precis:on or accuracy.

I would therefore respectfully suggest and recommend, that instead of 12 days, 16 days be allowed in camp, when two or three days could be devoted entirely to musketry instruction, however short it would do much good, preparing the men for the rifle ranges. When it is considered how important a branch of military drill is " the use of the rifle' without it, the amount of ammunition must necessarily be thrown away therefore inessective. The extra time, if sanctioned,

would well repay the expenditure.
Out of 12 days' drill allowed, there must be two days required for proceeding to and returning from the camp and one Sunday and the day before the camp breaks up is generally required for receiving pay, arranging the camp equipage, &c. Four days are thus taken out of the twelve; leaving but eight days, even if the weather be fine, during which time, squad, company, battalion skirmishing and brigade drill, together with the target practice, must be all carried out. It really is marvelous for so short a time, how well the men do.

The four extra days would well repay, more especially, as all the expense of moving the force to and from the camp, camp men leave the camp just at the time when per construction of the markers huts, and three or four data' attra drill growth be sain, also to the diligence of the commanding three or four days' extra drill would be valu-

The Young Men's Christian Association established themselves at both camps, othering every inducement for the non commissioned theers and men of the camp to, attend their tents, in the way of pens, ink, paper, and the pull emspapers, free of all churge.

Every afternoon and evening religious services were held, at which large numbers of the force attended, who expressed them solves much gratified by the kind manner in which they were treated by this Associa-

It gives me more than ordinary pleasure to be able to bring before the notice of the Major General commanding, not only the great attention, but ability displayed by the officers on the Staff of the Brigade Camps, in the discharge of their various duties.

I beg also to acknowledge the able assistance I have always derived from the officers belonging to the permanent Staff of the

District.

I must not omit to mention the zealous exertions of officers commanding corps, in the performance of their duties, and in carry. ing out the annual drill of the year.

> I have the honor to be, Sir, Your obedient servant,

> > WM. S. DURIE. Lt. Colonel,

Deputy Adjutant General. Commanding Military District No. 2. The Adjutant General of Militia, Ottawa.

[A.]

STEWARTTOWN, Aug. 18th, 1875. Sun,-I have the honor to submit herewith, the practice returns of the 2nd Brigade, per

formed at the Brigade Camp, Niagara, from June 1st to 12th, inclusive.

It will be seen that the figure of merit of the Queen's Own Rifles is very low; this is accountable to the shooting at 600 yards, which was struck off immediately after they had done firing, and also to the unfavourable state of the weather. A much higher average in the whole brigade might be expected. were it not that two thirds of the men at practice had never previously fired a shot with a rifle. The advisability of dropping the 600 yards range, under such circumstances, can easily be seen, and I am of opinion that better results would follow under a different system of tifle practice while in brigade.

It will been that 2,287 men had to put in the practice in the short space of eight days, and fire 20 rounds per man, to accomplish which no man can receive any instruction whatever, but must rather be hurried on so as to get through with the work. To remedy this, I would suggest that no more than 10 rounds per man be fired; five rounds at 400. and that a sergeant, who understands the most important points in rifle shooting, be appointed to each squad or company, whose duty it would be to stay at the firing point and instruct every man when in act of shoots ing, regarding position, holding rifle plumb, bringing the sights to the eye, pull of trigger, &c.; the sergeants to be under the charge of the Musketry Instructor, whose duty it would be to see that they were thoroughly posted in these particulars.

I have much pleasure in saying that otherwise, the practice of the brigade has been most satisfactory, and without the slighest equipage and stores of all kinds, is all incurred for eight days drill. In a word, the parties. This is due, no doubt, to the pro-

officers.

Before closing this report, I desire to acknowledge the valuable assistance rendered by Staff Sergeant Dansford, and also to thank the officers, non commissioned officers and men of the brigade, for the courtesy extended to me, and their willinguess to assist me in the discharge of my duties.

I have the honor to be, Sir, Your opedient servant.

> J. JOHNSOY. Captain B. M. I.

To Lieut. Col. Durie,
Dep'y Acting Adjt. Gen. Militia, Toronto. .

rB.1 WHITEY, July 19, 1875.

Sin,-I have the honor to report, as Musk etry Instructor to the brigade assembled at Holland Landing, June 22nd, that I carried out the orders in regard to target practice to the best of my ability in the limited time at my disposal.

The total number who completed the course was 1,405. The best shot this year, Corporal Shaver, No. 7. Company, 31st Battalion, who scored 63 out of a possible 80 points.

The best shooting battalion, the 35th Sincos Foresters; figure of ment, 22.92 Best shooting Company, No. 4 Company, 35th Battalion; figure of ment, 28.00. I would say that the same company and battelion held the same post of honor last year.

The figure of merit and the best shore it each buttilion and cavalry being-

12th York, figure of merit 17:86. Bost shot Bandeman Harstock, 59 pts.

31st Grey, figure of merit 19.77. Best shot Corpl. Shaver, 63 pts.

34th Ontario, figure of merit 17 57. Best shot Sergt. Major Chishelm, 53 pts.

35th Simcoe, figure of merit 22 92. Best shot Sergt. S A Nailly, 57 pts.

36th Peel, figure of merit 10-18. Best shot

St. John, 52 pts.
Cwatty, 14 rounds, figure of merit 12 60.
Best Shot Peter J. Boynton, 8 pts. Figure of merit of the brigade-18 53.

In comparison with List year I find a slight improvement. The reason I believe the men tike so little interest in rifle shooting is the want of some badge or prize as an inducement or honor to strive for, as at pre sent the men take little or no interest, and feel relieved when they can get rid of their ammunition.

I would suggest that fewer rounds be fited another year, as I believe more instructions can be imparted and real tenefits de rived from ten rounds being fired; as under the present system the men have to be hurned faster than is proper to get through with brigade in the short time allowed.

I cannot close this report without mentioning the efficient manner in which Sergeant Dunford performed his duties, and hope he will be employed in the same capacity another year.

It is my pleasing duty to report, that the course was gone through without a single accident to either marker or marksman,

In conclusion I beg to bring before your notice the fact that I was compelled on the two last days practice to keep the same markers in the butts from six o'c ock, 'a.m. until seven o'clock, pm.; which tuey did without complaint, and I hope before another camp that an additional allowance be again granted, or elso it will be impossible get good men for markers.

I remain, Sir,

Your most obedient servant, JOSEPH WHITE, Cart. Brigade Musketry Instructor.

To Licut.-Col. Durie, Deputy Adojmt General, Military District No 2.

MILITARY DISTRICT, NO. 3

Deputy Adjutant General's Office. Kingston, November 12, 1875

Sr., - In compliance with Militia General O.dets (7) of April 23, 1875, I have the honor to transmit my Report of the Annual Drill of Military District No. 3, for submission to the Mejor General Commanding.

The Force of Active Militia in this District consists of the following Corps, name

2 Regiments of Cavalry (7 Troops). 2 Field Butteries.

4 Garcison Butteries

10 Bittalions of Infantry, (64 Companies). The full nominal strength of the above Force under the Militia and Defence Act

> Officers. N. C. O and Men. Horses. 4285 591° 326

The uniform establishment of Troops or Companies is 3 Officers and 55 N. C. Q. and men, but this year the number allowed to receive drill pay was limited to 2 Officers and 42 N. C. O. and men per Troop or Com

The Battalion Staff and the Field Battery stablishment were unchanged.

Under this Regulation the number of Offi cers and men entitled to perform Annual Dall for pay in this District, was:-

7 Troops in two Regiments of Civalry, 28 officers, 315 non commissioned officers and men, 343 horses.

Two Field Batteries, 10 officers, 150 non commissioned officers and men, 124 horses. Four Garrison Batteries, 8 officers, 168 non

commissioned officers and men.

64 Companies in 10 Batialions of Infantry, 208 officers, 2,688 non commissioned officers and men,50 horses. Total 254 officers, 3,321 non commissioned officers and men, horses

The numbers who have been mustered

and paid up to the present date, are:

7 Troops Cavalry, 27 officers 315 non
commissioned officers and men, 342 horses. 2 Field Batteries with 8 guns, 10 officers

133 non commissioned officers and men, 124 horses.

2 Garrison Batteries, 5 officers, 74 non commissioned officers and men,

8 Infantry Buttalions, comprising 52 Com mies, 156 officers, 2,127 non commissioned officers and men, 35 horses.

Brigade Staff in Camps, 14 officers, 21 non commissioned officers, 12 horses. Total 212 officers, 2,670 non commissioned officers and men 513 horses.

The corps which have not performed their drill this year, are :-

2 Garrison Batteries of Port Hope and Trenton,

2 Battalions of Infantry, viz: 16th Prince Edward. Lieut Col. Walter Ross, M.P.,

49th Hastings. Lt. Col. James Brown, M.P.

No reason has been given by the above named Officers for the non performance of Drill by the Corps under their command.

The Cavalry, Field Batteries and Infantry were divided into two Brigades, and assembled in Camps of Exercise at Cobourg and Kingston, as follow: For 12 days. The field Batteries for 16 days,

Cobourg Camp.

6th Brigade Division at Colourg, on the 14th June, 1875.

3rd Provisional Regiment of Cavalry. Durham Field Battery 40th, 45th, 46th, and 57th Bittalions.

Kingston Camp.

7th Brigade Division at Kingston, on the 21st Jul.o, 1875.

4th Provisional Regiment of Cavalry, Kingston Field Battery.

14th, 15th, 47th, and 48th Battalions. The field Batteries assembled on the 10th June and 17th June, respectively, joined the | gade Staff, viz:-

Camps on their formation, and completed the Drill with the remainder of the Troops.

Garrison Batteries of Artillery whose Head Quarters were within 50 miles of Kingston were ordered to be drilled at that station, under the superintendence of the Command. ant of the School of Gunnery.

The remaining battries vere permitted to drill under the same regulations as applied

to Corps of Infantry.

The Napance Garrison Battery, Captain Hooper commanding, came to Kingston on the 23rd August, 1875, and were provided with barrack accommodatoin at the School of Gunnery for 12 days.

The Cobourg Garrison Bullery, Captain Dumble commanding, being nore than 50 mile. from Kingston, performet drill at their own Head Quarters on different days under the regulations applicable to Cty Battalions as regards pay and without allovance.

An order issued on the 27th September,

1875, prohibited further drill or pay from that date, in consequence of the money vot-

ed for drill being exhausted.

The Cobourg Garrison Battery had per formed nine days' drill only up to that date and were paid accordingly. This Battery was inspected on the 12th October, 1875, at Cobourg by the Assistant Inspector of Artil lery for Ontario, and the Brigade Major 6th Brigade Division.

The total strength of the Cobourg camp at muster, including the Brigade Staff, was 1,456 officers and men, and 184 horses. The cost of rations and forage was \$3,895.25 of which sum \$\$47.60 was for forage. The pay of officers and men amounted to \$17,546.75, politing a total for a mounted to \$17,546.75, making a total for pay and subsistence in this camp of \$21,446.

The total strength of the Kingston camp at muster, including the Brigad's Staff, was 1,347 officers and men, and 269 noises. cost of rations and forage was \$3.573.49, of which sum \$668 92 was for forsge. The pay of officers and men amounted to \$16,563.49. making a total for pay and subsistence in this camp of \$20,136.98.

The Cobourg camp was under the command of Lieut. Colonel D'Arcy Boulton 3rd Provisional Regiment of Cavalry, with the following Staff, viz:

Commanding.— Lieut. Colonel D'Arcy, Boulton, 3rd Cavalry. Brigade Major — Major H. Smith, Militia

Staff.

Supply Officer .- Quartermaster Van Ingen, 40th Buttalion.

Musketry Instructor .-- Captain M. Johnston, 57th Battalion.

Camp Quartermaster.—Brevet Major J. CDermid 46th Battalion.

Aide de Camp. - Lieut. R. A. Morrow, 3rd Cavalry.

Principal Medical Officer. - Surgeon II. B.

Road, M. D., 45th Battalioh.
Camp Sergeant Major.—Sergeant Major Burke, 57th Battalion

Provost Sergeant.—Sergeant Shea, 40th Battalion.

Supply Sergeant - Sergeant M. Y. Cal-

cutt, 57th Battalion.

Musketry Sergeant,—Not named. Q. Master Sergeant.—Not named. Hospital Sergeunt.-Not named.

Brigado Bugler.—Bugler John McUallum. Brigado Clerk.—Sergeant Major Polking

horne, Cobourg Garrison Battery.

The Kingston Camp was to have been under the command of Lieutenant Colonel A. Campbell, 15th Argylo Light Infantry of Belleville, but owing to the illness of that officer at the last moment, I went into camp, with permission from Head Quartets, and took the command with the following Bri-

Commanding .- Lieut. Colonel S. P. Jarvis, Militia Staff.

Brigade Major.-Lieut. Colonel P. W.

Worsley, Militia Staff.
Supply Officers.—Captain W. D. Gordon,
14th P. W. O. Riflet.

Musketry Instructor.—Captain James Bryrne. 47th Battulion.

Camp Quartermaster. — Quartermaster Crozier, 15th Battalion Argylo Light Intan-

Aide-de Camp.-Lieutenant J. F. Wilson.

" A" Battery. Principal Medical Officer.—Surgeon Bristol, 4th Cavalry.

Camp Sergeant Major.—Sergeant Major Charles Field, 14th P. W. O. Rilles. Provost Sergeant.—Sergeant J. Rawson,

14th P. W. O. Rilles. Supply Sergeant.—Sergeant Alex. Smith, 14th P. W. O. Rifles,
Musketry Sergeant.—Sergeant G. T. Salter, 14th P. W. O. Rifles.

Quartermaster Sergeant,-Color Sergeant

Robert Glen, 48th Buttalion. Hospital Sergeant .- Sergeant J. F. Miller,

4th Cavalry.

Brigade Clerk.—Sergeant P. O'Conner,
14th P. W. O. Rifles.

Brigade Bugler.-Joseph Robinson, 47th Battalion.

Markers.-Seven men from the 14th and 47th Battalions in Camp.

The duties of the Camps were conducted with regularity and zeal on the part of all concerned.

The weather was most favourable; the supplies were good. The comp grounds were well chosen, and the Staff being carefully selected, all the machiners of a camp life worked smoothly.

Officers and men vied with each other in their exertions to master the details of dull and duties, as far as the limited time would

The twelve days included the days of coming and going, one Sunday, and one field day for inspection and muster and pay. that eight clear days only were available for regular work, a period much too short to be of material advantage for drill purpose, though sufficient to form the Squads, Proops or Companies and Battalions and inspect the property in their charge.

A small portion only of the force could receive practical instruction in mounting Guard and Piquet, but a very large proportion of both Camps performed Target practice with 15 rounds per man, at 200, 400 and 600 yards ranges.

The Report (A) of Lt. Col. Boulton, accompanies this report, as well as the reports (B) of the Medical Officers in charge and the Returns of Musketry practic, as turnished by the appointed Musketry Instructors.

I have the the melancholy duty of report ing the death of the late Brigade Major Lt. Colonel W. P. Phillips on the 1st September, after a long and lingering illness.

His remains were interred on the 3rd September with Military honors. The "A" Battery furnised baid, gun carriage, horses, and drivers, and the 14th R W. O. Rissa in which corps Lt. Colonel Pailing, formerly had command of a company, to med the es

Owing to his illness at the time of the camps, and upon my application to Hold Queriers for the services of another officer to perform Brigade, Majors duties, Lt. Col. P. W. Worsley, Brigade Major of the Grand Trunk Brigade, was ordered to Kingston on that duty, and I have much plemure in bringing to your notice the valuable assistance allorded by this officer, whose thorough knowledge of his profession, great regularity, I the chief expense.

diligence, and good temper, contributed in no small decree to the successful termina tion of the Kingston Cump with perfect sa tisfaction to all concerned.

The other staff officers were also active in their respective duties. I would specially mention Captain Byrne 47th, the Musketry Instructor, and Captain Gordon 14th, the Supply officer, whose admirable arrange ments and constant attention were very con

I observe with satisfaction that Lieutenant Colonel Boulton expresses his gratitude to the Brigide Stuff of the Cobourg Camp, as well as to the Officers and men of all ranks, in their ready co-operation, support, and cheerful obedience to orders.

During the Kingston Camp a friendly match was shot with the rifle by Officers of the 47th and 48th Battalions, 10 on each side, in which the 47th came off victors. Captain Byrne, 47th Battation, the Camp Muskerry Instructor, scoring 52 and of a possible 60. This was the highest score made in the District.

The 47th Frontenac Battalion also attains ed the highest figure of merit in the District at the Runges, with 28.08 points as figure of merit.

The health of the troops in both camps was excellent and no accidents of any consequence occurred to Officers or men, but two horses of the Picton Troop of Cavalry at the Kingston Camp were badly injured on the march, one by a sprain of the fetlock joint on a Railway crossing, and the other by a nail through the foot, both accidents caus ing serious lameness for the time being. The owners were promptly indemnified by a liberal gratuity from the Militia Department as soon as the cases were officially represent: ed. Liberality on the part of the Govern ment in such cases will bear good fruit.

In report (B) of the motical officers, it will be observed that a suggestion is offered by one of the Surgeons for some additional medicines in the field Pamers. It will also be noticed that a tent for a Field Hospital is required on all occasions of encampments.

It is hard on the other occupants of tents to have sick or injured comrades put into the same tents with them. The tents being always filled to their utmost capacity.

I have here to mention that Mr. John Creighton, the Waden of the Penttentiary, which is on the road to the Kingston Camp ground, kindly furnished a large quantity of quicklime for sanitary purposes. The horses and men under his orders delivered the lime within the Camps without charge, and although this may appear a slight service, the thanks of the Department, as well as of the Officers and men in Camps are due to Mr. Creighton for his prompt attention to our request.

The Veterinary Surgeons should also be furnished with appliances and medicines for the prompt treatment of sick or injured horaes.

It is a matter for congramlation that the several bodies of Cavalry in this District have at length been formed into two Pro visional Regiments with a full Staff. I still advocate the encouragement of this branch of the service. During the year 1874 two fine troops were disbanded. The 3rd kegi ment has now but 3 troops and there is not a better locality in the Dominion for Cavalry than the Counties of Durbain, Northumberland and Peterborough. The 4th Regiment has only 4 troops and could easily raise two more in the vicinity of Kingston.

Each Regiment should have at least 6 troops.

The first cost of Siddlery and Carbines is

It will be seen by the Supply O'licers' Roturns that the cost of forage during these camps has only been three dollars for each horse for the whole period of annual drill, and the average cost of each efficer and man, including the psyment of horses of the mounted portion, has been under fifteen dollars a head for the same period.

A body of mounted men, costing so little in time of peace, would be of untold value in time of war or internal disturbance, for outpost duty and to warn the Infantry and Artillery of the approach or whereabouts of the enemy.

Canada is not a close country with deep lanes, hedges, walls, dykes, where mounted men would be upuble to move without break neck leaps or making long detours to avoid insurmountable obstacles. The fences are no obstacle to a body of Cavalry marching or scouting across country. Half a dozen men sent on shead would lower fences faster than the main body would require to follow. and the same road would be open to them when retiring, at any pace, to the shelter afforded by rifles.

The idea is gradually spreading that the old Cavalry man with sword and pistol must soon be replaced, or at any rate supplemen ted by the mounted Rifleman, who would form a screen far in advance of Infantry, and in their turn be well protected by the fire of Artiflery more than a thousand yards in their rear.

It is a fact to be noted that the members of Cavalry in the two Camps were within one officer and one horse of the full number allowed to drill. No other arm was so fully

represented in proportion. Many young farmers who own horses would gadly enrol in Mounted Corps, when they are averse to joining the Infantry. If these men were encouraged to eared them-selves and their houses, the number of fine animals that would thus he scenred for ser vice, trained to sights and sounds of life in Camp, as well as fitted with saddlery and accustomed to move together or separately, to stand while their owners dismount to fire, and to lose the dangerous habit of kicking at each other in the ranks or when picketed, which all horses are liable to do when first brought in close contact with strangers of the same species, would more than compensate for the outlay and cost of subsisting

them for a few days in the year. The Infantry Battalions were generally made up or raw material. It is presumed that the men are enrolled for 3 years and sworn in. Such is stated to be the case, but it may be doubted whether there are not now many exceptions in the ranks of some of the Bittalions. To go through every Battalion, man by man, after they reach Camp to ascertain whether they are all regularly enrolled according to law could still turther reduce the time for drill and exercises, and unless the service can be mode sufficiently attractive by extra remuneration, or by other means, to cause a rush for places in it, rather than by the importunity of officers to coax an inferior class of men to join their companies on any terms. I fear the active force, as now supposed to exist, will gradually melt away during peace time.

Two fine Lattalions of Infantry in this District have failed to perform drill this year. No reason has yet been given, and I can only suppose that the men will not turn out even with such influental members as the Commanding Officers of the Prince Edward and Hastings Bittallons. I do not think that compulsory service or the ballot in peace time will succeed in this country.

(To be Continued)

CORRESPONDENCE.

The Editor does not hold himself responsible for individual expressions of opinion in communications addressed to the Volunteer Review The real name of the writer must invariably accompany each communication to insure insertion, but not necessarily for publication.

To the Editor of the Volunteer Review.

Sir, - As a volunteer I desire to thank you for your able and valuable remarks as to duty of Adjutants, and also the injury they are very likely to inflict on the volunteer force if given too much power. There is no doubt Capt, Spillette would like permanent pay, and as he tells us in the second paragraph of what he is pleased to call "his system" for organizing Cavalry that a Drill Instructor should be granted a forage allowance for his horse, I do not doubt but what he would like that also. The horse he says would lessen the cost of travelling. I am rather inclined to think he is mistaken in this; but there is one thing certain he could give his horse exercise when not on military duty over those sixteen miles of road of which he tells us he is Assistant Engineer. That word "Engineer" has rather a high sound, but I suppose he is correct, because we are told in ancient history of the Ele phants used in war, the quantity of men they carried, &c., besides the Engineer that ruled the beast, but the employment spoken of by Capt, Spillette were his time is so much taken up should be "Section Boss" in our day. I do not propose to say anything in defence of those sweeping charges against the District Staff and Officers of the 2nd Regiment of Cavalry made by Capt. Spil lette; they, I presume, will attend to that, if they do not it goes to prove his (Spillette) statements correct, but I would remark that although General Smyth tells us in his Report that Troop Sergeant Major Spillette's position in the 9th Lancers is a sufficient guarantee for his knowledge in Regimental detail, his conduct goes decidedly to shew a very limited knowledge of his duty to his superior. I would also make a few remarks in reference to his system for organizing Cavalry-in paragraph let we are told that a troop should have one Captain, one Lieu. tenant, one Cornet, four Sergeants, four Corporals, one Farrier, one Trumpeter, and forty Privates; well this part of it at least did not originate with Capt. Spillette for it has been the usual number of officers and men long before Capt. Spillette came into existence, and is quite likely to continue in about the same proportion long after he goes out of it. Paragraph 2nd. Three troops to compose a Regiment, with necessary staff. &c., viz. : Consisting of a Lieutenant Colonel Major, Adjutant, Paymaster, Quartermaster, Surgeon, Assistant Surgeon, and Veterinary Surgeon; here it will be at once seen that we should have the same staff as we now have for Regiments of six and eig. it Troops, thus causing a useless and unnecessary expense.

Paragraph 3rd. We are to have only six consecutive day's drill; just think of all this expensive staff for six day's drill in a year, the balance being put in at the most convenient season at the discretion of the Captains, so the staff would not be wanted. Passing over paragraph 4, it being very little different as regards pay from the usual amount paid, we come to paragraph 5: To be clothed at the expence of the Province. I suppose the Dominion is meant, that is all very well, but the pattern to be of the uniform of the Imperial Hussars is anything but what is wanted amongst Canadian volunteers, for where there is no barrack accommedation to crome-yellow the braided faceings nothing can look dirtier, or worse than it does, as to each suit lasting five years the suggestion is simply rediculous. The tunic might last five years, but it is a well known fact amongst Cavalry men at least, that overalls cannot last much more than half of that time, for wear caused by being jamed about by unbroken horses, and having to wear the same overalls in camp whilst cleaning horses, accoutrements, &c., they get worn out in little more than half the time as those used by Infantry.

I don't wish to take up any more of your valuable space in reference to this system, but would say that I fear the General has been slightly misled in reference to the author. It will be remembered that in 1862 a lot of Sergeants were sent out by the British Government as Instructors to the Canadian Volunteers, amongst them were some ten or a dozen from about as many Cavalry Regiments. Those Sergeants were given the temporary rank of Sergeaut Majors, so as to make them senior to volunteers of similar rank, amongst those newly made Sergeant Majors was Adjutant Spillette so that his experience as a Sergeant Major of the 9th Lancers is very limited indeed. I have been informed that he served some eight or ten years in his Regiment. I am not certain on this point, but looking at his "system," the charges made against the officers of his Regiment, also the way in which those charges were made, I am at a lost to know how he served so long and yet knows so little.

> Yours respectfully, CANADIAN VOLUNTEER.

Discipline and Obedience vs. Tyranny.

To the Editor of the Volunteer Review.

Sir,-Being neither a writer nor lecturer of subjects generally, I do not presume to treat the above philosophically, but merely to give an idea so that the readers of your paper who," I believe, are for the most part volunteers may get some insight into, and not have that misrepresentation of the word discipline, as I believe is commonly under-

I belive, is included discipline, and obedience without which everything is in a chaotic and disorganized state.

The meaning of the word discipline is not literally understood I do not imagine among our volunteers; a disciplinarian is put down as a tyrant, or almost so, and exceeding his authority.

I have seen tyrants who knew little or anything about discipline and vice versa; therefore, I mean to state that a disciplinarian is not necessarily a tyrant, as well as, a tyrant u disciplinarian.

In the military service "obedience" is the first duty of a soldier. From the Commanderin Chief down to the junior Drummer in an army, all are under (or should be so) obedience. The whole machinery is worked upon a system, if any of the gear goes estray, probably the whole is affected.

Every other or man joining an armed force authorized by the Government of his country should know for what purpose he enters it; he should also understand the nature of it, and also weigh in his own mind whother he will be able to undergo all that should be required of him.

Every one is not possessed with the same temper, since some are what are generally termed in the army "fire eaters," hasty in temper, irritable, &c., &c. No one is perfect in this world. If all men, whether in high or low position, would do to others, as they wish other should do to them, then discipline and obedience would go hand in hand and tyranny would be obsolete.

It is expressly stated that no officer should speak harshly or use irritating language to a non commissioned officer or private. All orders should be given out in a proper manner, and those who are to execute the same are to do it firmly and business like.

No threats should be allowed. If the order is not obeyed, as it ought to be, or is out of place and unwarrantable, there is a law and justice for the offender as well as the aggrieved:

I have known officers and non-commissioned officers jump and swear, and threaten what they would do if such an order or command given was not immediately attended to, (a case perhaps where the offender of a non-commissioned officer would be put under arrest, or a private into the guard room) and punished as the offence should merit. After all nothing was done. In other instances some trivial offence was committed not worthy of punishment, but simply deserving a reprimand, &c., the unfortunate party was punished severely, lost heart and got disgusted with the service, weall this neither discipline nor tyranny, but a want of proper judgment on the part of the giver of the order, such conduct on the part of the commanding officers causing dissatisfaction and tending to mutiny.

Cases of severity for the non-performance St. Paul says: "All things should be done of orders have taken place, especially in decently and in order." Under that bead, I young battalions of the line and imong volunteers, the reasons for which were intended; for examples and to deter others. It often happens that a little severity is needed; it is no uso pampering to the whims and caprices of individuals.

Every one in the military service has a certain duty to perform. I meintain that performing the like at once in a cheerful manner and with alacrity is discipline and obedience combined.

Tyranny on the other hand is an excess of duty often caused by a superior having an antipathy to his inferior whenever the chance should occur, given him or a too great zeal exhibited by those in power for stretching the authority deputed to him too far.

Many soldiers have told me they would much rather serve under the strict and just commanding officer than the vacillating one who could never be depended upon.

Refore I close I may state again that the whole machinery working harmoniously, and as one from the superior to the inferior with all orders executed smartly and cheerfully is discipline; the excess of which is tyranny. A disciplinarian is a person who sees all orders committed to him are performed with assiduity, and without fayor, partiality, or affection to any one.

In addition. I wish to say something about saluting. Our volunteers, especially in country places, are mostly farmers, and hold the same status socially speaking. The officers of course hold certificates of fitness and are looked upon as officers and gentlemen, altho' in some instances, as far as this worlc's goods are concerned, are not as well off as the privates they command,

When the training takes place and the position of officers, non-commissioned officers, privates, &c., are defined, the saluting first of an inferior in rank to a superior is thought humiliating and not agreeing with the general view of equality as estimated in Canada. This is a great mistake, altho' the inferior has to give the salute first to the superior, the latter has to return it, and the rule for so doing holds good in both cases.

EX LINER.

To the Editor of the Volunteer Review.

DEAR SIR,-That paragraph in the able report of Major General Smyth which has just been submitted to the Canadian Parliament, speaking favorably of the efforts made by the small cavalry force of the Domision to attain efficiency is so gratifying, and as one cannot be in several places at the same time. 1 venture to address you a few lines affecting reconnoitering and outpost duty.

I wish the Major General could say that all the minor details relating to them duties were understood by all ranks, and that all were so instructed as to be able to at with intelligence and a general understanding in the emergency of actual service, when there is no longer any time for minute expanations. Still as more men and horses can now be got than the Government are willing to but simply remind all ranks who will pro-

pay, much may be done by an improved established system on the part of Command. ing officers of troops, who upon the reenrollment of their corps should see, that no man is enlisted, who connot take his horse cleverly over a fence, and be required to furnish himself with regulation long boots, spurs, and gloves.

In reference to clothing I am sorry that at Headquarters the importance of saving five shillings per suit, or a total of three hundred dollars per annum, should have outweighed the importance of Vedettes being concealed from the enemy as much as possible ;—for no human means can be devised to conceal men equipped with brass or steel helmets, cuirasses, or lances with flags-and it is reasonable to suppose that no cavalry man in Canada will array himself in a dragoon's tunic with an hussar busby, unless he completes the fancy dress with sailor's trowsers.

To return to the subject of enlistmentto have a few practical civil engineers and two or three telegraph operators in each troop is very important; while every man should have a small parcel containing dynamite to destroy iron rails, and silver wire to repair telegraph lines; as at present carried by the German cavalry. Good trumpeters are indispensable, and a few experienced draughtsmen ought not to be overlooked,

In matters of equipment officers and noncommissioned officers should supply themselves with a map of their military district and a pocket compass—the former might also add a pocket telemeter and field glass. while the latter might have a small dark lantern attached to the belt-three or four men per troop ought also to carry a small axe attached to the saddle.

The normal condition of the Vedette is one of motionless vigilance and observation, and the transition from this state of rest to movement should be the signal-but it will be better to keep to the formation of double vedettes posted about thirty yards apart, the junior of the two conveying any information to the officer commanding the piquet, who will ride forward and verify the facts before giving the alarm; thus preventing needless scares; and also better suited to imperfectly instructed men in an enclosed country. Of course this does not apply to those vedettes or sentries who simply form connecting links in the chain and have no duties to perform than that of passing the

The happy knack of posting men properly can only be learnt by practice; but all outpost work comes easily to any one who has a good eye for country; and notwithstandin few being accustomed to follow hounds ing Canada, still the social instincts of the people are calculated to develope a good class of light cavalry soldiers.

So many works are now published giving all the details of outpost duties and patrolling that I will not attempt togo into them,

bably feel fresh and equal to any exertion at the commencement of their work, that it is a peculiarity of this service to generally require the greatest vigilance and activity towards the conclusion of a tour of duty, and to husband their energy for a final dash if required.

HUSSAR VEDETTR.

Junior Naval and Military Club. Pall Mall, 13th March, 1876.

To the Editor of the Volunteer Review.

DEAR SIR.-I have just been examing the army list for this month, and it appears to me in these days when the whole defensive power of the Empire is being put into order -that the organization of the Cavalry arm in Canada wants a few touches from the able hand of that gallant officer Major General Symth, who commands this portion of our auxilliary forces.

Might I venture to suggest a plan which will cost nothing-the first consideration I believe in the colony-and so far in accord with the social instincts of the people that it will develope this arm and bring it more into proportion to the other arms.

1st. Each military district to have its regiment of cavalry completed to eight (8) troops, the balance of the troops so required over and above the present active service troops to belong to the "Reserve Militia"but to be the reserve militia troops of the regiment of their district.

2nd. Those military districts where the independent troops of the present active force have not been formed into regiments and numbered in accordance with said dia. tricts, to be so.

3rd. Some inducements should be given to those officers, non-commissioned officers and men upon retiring from the active secvice troops to go into the reserve ones.

Your ob't serv't.

WAR OFFICE.

Pall Mall, 20th March, 1876.

VOLUNTEER INSPECTIONS .- The following are the inspections by Colonel Villiers for this week :-

-No. 4 Troop, 2nd Cav'y,St. Anns. -No. 4 Com'y 19 Batt., Beamsville. Monday Wednes'y -No. 1 Troop 2nd Cavelry, St. Catharines.

-Nos. 2, 3 and 5 Companies 19th Batt., St. Catherines.

44 -Garrison Artil'y, St. Catharines. Thursday -No. 1 Com'y 19th Batt., Niagara.
No.6 Troop 2ndCay'y, Queenston -Hamilton Times, 3rd April.

The largest armour plate ever made has just been produced at the Cyclops Works (Messrs. Cammel & Jo.'s, Sheffeld). thickest made previously was 14 inches, but this plate was 22 inches thick. It is one of the several intended for two warvessels now constructing for the Italian Government. The plate, which weighs 35 tons, will be tested by a 100 ton gun. Each vessel will have two turrets, and each turret two guns. The plate was very successfully rolled. number of military and naval authorities representing Lome and foreign governments, were present at the operation.

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Jolunicer Gebiew,

MILITARY AND NAVAL GAZETTE

"Unbribed, unbought, our swords we draw, To guard the Monarch, fence the Law."

OTTAWA, TUESDAY, APRIL 11, 1876. PROBLEM FOR A STATE OF THE STATE OF T

ToCorrespondents - Letters addressed to either the Editor or Publisher, as well as Communications intended for publication, must, invariably, be pre-paid. Correspondents with also bear in mind that one end of the envelope should be left open, and at the corner the word: Printer's Copy" written and a two or five cent stamp(according to the weight of the communication) placed thereon will pay the postage. No communication, however, will be inserted enless the writer's name is given, not necessarily for publication, but that we may know from whom it is sent.

WE have for the past vine years enleavored to furnish the Volunteer Force of Canada with a paper worthy of their support, but, we regret to say, have not met with that tangit le encouragement which we confidently expected when we undertook the publication of a paper wholly devoted to their Interests. We now appeal to their chivalry and ask each of our subscribers to procure another, or to a person sending us the names of four or five new subscribers and the money—will be entitled to receive one copy for the year f.ee. A little exertion on the part of our friends would ma erially assist us, besides extending the usefulness of ine paper among the Force—keeping them theroughly osied in all the changes and improvements in the art of war so essential for a military man to know. Our ambition is to improve the Folunteer Review in every respect, so as to make i second to none. Will our friends help us to do it? Premiums will be given to those getting up the largest lists. The Review being the only military paper published in Canada, it ought to be liberally supported by the officers, noncommissioned affects, a d men of each Battanion.

" Last night, on going into Committee of Supply, the member for Hockney called attention to the state of our military forces, and moved that in the opinion of the House, the present condition of the British Army is most unsatisfactory and its cost extravagent; that our present pratice of retaining men in barracks for home service longer than is necessary to make them efficient and thorough soldiers is vicious and immoral; and that, having regard to the efficient defence of the country, it is inexpedient to maintain two rival paid forces in the United Kingdom. To this motion General Shute moved as an amendment that the admirable regimental nothing occurred in any way to mar the

United Kingdom has tended to reform the intemperate and immoral habits of any bad characters who may have been occasionally tecruited for the Army; and that in this country, where military service is entirely voluntary, the fact of having varied descriptions of forces such as the Regular Army, Militia, Volunteers, and Yeomanry Cavalry, tends to utilize for military service al rger proportion of the population than would other ise be found available. In the course of his remarks Mr. Holmes sugmatized as scandalous and immoral the practice of keeping soldiers in barracks for any length of time, declared the Militia to be useless and detrimental to the regular army, and propounded a notable scheme for not sending any soldiers abroad in time of peace unless they volunteered and selected their We shall be able next week to station. consider this extraordinary motion more at length."

THE foregoing paragraph from BroadArrow, of 26th February, shews what difference of opinion exists in Great Britain as to the value of retaining its "Regular Army" at home; the member for Hackney is right respecting the inexpediency of keeping up "rival forces" to perform the duties of a simpler organization. The defence of Britain, if invasion is possible, must rest on her whole population.

Metropolitan Rifle Association.

The annual meeting of this Association was held on Wednesday evening in the room over the store of Mr. Roos, tobacconist Sparks street, which was kindly placed at the service of the members of the Association by Mr. Roos.

The meeting was organized by calling Capt. Macpherson to the chair, who request ed the Secretary, Mr. Newsy, to read the report, which is as follows :-

Gentlemen, the Committee on presenting their annual report of the affairs of the Association have much pleasure in calling your attention to the renewed interest shown in it, as evinced by the large subscription list. The Government made its usual grant of \$150, the Corporation of the city gave \$100, and our worthy President, Mr. Allan Gilmour, most generously doubled his accustomed yearly subscription, making it \$100. Numerous other gentlemen also subscribed liberally. The Hon. W. B. Vail, Minister of Militia and Defence, kindly consented to become Patron of the Association. total receipts from all sources amounted to \$854.35, and disbursements to \$836.99, leav ing a balance of \$17.36 in hand. The mem bers will perhaps remember that when the Secretary presented his last annual report to chowed a deficit of \$42.50, which the management of this year had to meet. The annual prize meeting was held at the Rideau range on the 24th and 25th days of August, and it brought 41 competitors to the ground for the opening match. The total number of entries during the meeting was 222, the average per match 37, and the most in any one match 46 \$605 was given in cash prizes, besides the Civil Service epergne, a cup presented by Mr. Barber, and the medals of the national Rafle A-sociation and Ontario Rifle Association. The weather during the matches was all that could have been desired, and discipline carried out in the barracks of the pleasantness of the meeting, universally to have a body of thoroughly trained officers

agreed to have been a most successful one. We sffiliated with the Ontario Rifle Association, but not with the Dominion, the committee thinking that the funds woulds carcely admit it, and really no adequate return is made for the large sum (\$20) necessary to do so."

After the adoption of the report a vote of thanks was passed to the retiring officers. especially to the Secretary Treasurer, for the trouble they had taken in the interests of the Association during the past year.

It was then moved by Mr Cotton, second. ed by Mr. Sutherland, that the thanks of the Association are due and are hereby tendered to Mr. Allan Gilmour, Hon. W. B. Vail, Hon. James Skead, Hon. John Hamilton, Messrs. Pattee, McLeod, Stuart, and the numerous other gentlemen who sub-scribed so liberally to the funds of the Association. Carried.

The election of officers for the ensuing year was then proceeded with and resulted as follows:—President, Mr. Allan Gilmour; 1st Vice President, Mr. Barber; 2nd, Mr. Pattee; Secretary Treasurer, Mr. A. Cotton; Assistant Secretary, Mr. F. Clayton. Committee of Management: Mesars. W. P. Lett. H. Walters, R. Graburn, F. Newby and E. D. Sutherland.

After a vote of thanks to Mr. Roos for the use of his room the meeting adjourned.

Parliamentary.

OTTAWA, April 4,

The House went into Committee of Supply, and passed the following items:

Contingencies and general service not otherwise provided for, including assistance to Rifle Associations and bands of efficient Orps, \$50.000.

Targets, re-vote, \$2 000. Drill Sheds and Rifle Ranges, \$10,000. Mistary College, 26,000. Military Stores, \$40,000.

Public A mories, care of arms, &c., **\$5**2,000.

April 6th.

On the motion of Mr. Cartwright the House went into Committee of Supply.

On the item of \$29,400 for salaries of mili tary br nch and district staffs.

Mr. Bowell had hoped that in this branch of the service, which was over-stocked, a decrease in the number of officers would have been made. The apparent decresse in this item was owing to the reduction in supplies and not to a reduction in the number of officers. He considered that this was economizing in the wrong place. A large num ber of these officers were mere sinecures, and actually decracted from the efficiency of the force. He quoted from Adjutant General Smyth's report, in which he (Smyth) expressed the same opinions. The speaker proceeded to advocate the recruiting of the vo.unteer force with young able bodied men, and he considered they should be officered with men who had attained to a certain rank in the regular army.

Mr. Mackensie said the policy of the Government was not to fill any vacancy in the militis staff until it was one half its present proportions. With regard to the employ-ment of Canadians as the higher officers, it was intended to do so as soon as the Military School offered the material to make the appontments from that institution, officers would also be given priority in regard to sugmeering positions in the Rublic Works Tepartment. Ry this means it was hoped.

who could be called upon should any emer gency arise, and to secure the skeleton of a force so far as the higher officers were con-The object of the Government was cerned. that while not having a standing army, they would have material from which a really efficient army might be created in a short time and placed in the field. A defect in our force at the time of the Fenian raid was the want of knowledge of field movements on the part of our officers, but this defect had been remedied.

Mr. McKay Wright said that under the present existing laws Canadians were praccally shut out from the higher offices in our militia. He denied that an English officer of the line was the best commander of Canadian militia, who were not mere ma-

chines.
Mr. Vail said the necessity of a volunteer force was apparent from the fact that it had been called out this year, in three of the Provinces to assist the civil authorities.

After remarks by several others the item was carried. The item of \$28,500, salaries of Brigade

Majors, passed. On the item of drill pay and all other incidental expenses connected with the drill

and training of militia, \$125,000.

Mr. Kirkpatrick would like to know whether the volunteer force was to be called out for drill next season. He himself would approve of discontinuing the battalion drill

of county companies. Hon. Mr. Mackenzie could not tell whether the city or county companies, or either, would be called out. It was not possible to give any details at present. He admitted that it was necessary to maintain a military force to preserve internal order, but he did not think we required a very extensive one. He was not in favor of military schools, but he had no doubt that if the course of training was so arranged as to fit graduates for other positions in life it would prove of good

service. Mr. Ross (Middlesex) considered a large expense in maintaining the militia was un

necessary.

Mr. Orton suggested that a volunteer, after having served five years, sho ld receive a medal and a grant of land in the

Northwest. Hon. Mr Mitchell was not satisfied with the explanations of the Premier. He presumed that the Ministry had based this ap propriation upon some minute calculation, and they should submit their reasons for asking this vote to the House. He would like to know whether the money was to be expended in brigade drill or company drill, and whether the whole force or part of the force was to be called out? When the former Government was in power they were always required to furnish this information, and he did not think it was right to refuse such in-

formation at present.

Hon. Mr. Vail said the Government had not desided how they would drill the volun. teers this year. The item passed.

The Indians of the Dominion.

The introduction by the Minister of the Interior of his measure for regulating the relations between the Dominion Government who, where, and in what condition the people are who are affected by its pro-

The total number of Indians in the Dominion is returned as 91,910. Of these minion is returned as 91,910. Of these 15,000 roughly speakin; are in Ontario; 11,000 in Quebec; 25,000 in Manitoba and

pert's Land, and 31.000 in British Columbia: Nova Scotia and New Brunswick each conmining less than 2,000, while Prince Edward sland only returns 302. These figures, specially those relating to the unsettled md semi nomadic tribes of the North West, an only be taken as somewhat approximating to the truth. With regard to these latter to attempt can be made to compare their resent with their past numbers, for all such satistics must necessarily be of little value. lut in the more settled Provinces some approach to accuracy may be reasonably looked or; and so we find that among the Ontario tribes the increase during the past year is noted as 200, and the decrease as 42; in Quebec, the increase is 22, and the decrease 128; in Nova Scotia, increase 16, and derease 4; in New Brunswick, increase 24, lecrease 35. If these figures are of any If these figures are of any alue at all, they seem to indicate that the aboriginal race is slowly, very slowly, dying ut, although under favorable circumstances he progress of decay seems to be arrested, and in some cases the population is on the ircrease. At all events, the rate of decrease isless than it is usually assumed to be-a fict of which those most conversant with the hdians have long been aware. Turning to the provisions made by the State for their elucation we find that 3,921 children are aported as having been in attendance at shool during the past year. Ontario returns 1.762 scholars. British Columbia tirns 1,762 scholars. British Columbia cimes next with 1,159; Quebec 441; Mani-tiba does well to show 480 scholars; Nova Stotia has 79; Prince Eaward Island sends no returns from its one school; and Nev Brunswick returns no schools at all—a fac. that does it little credit.

Setting aside the North West and the Pacific Coast, about which no satisfactory statistics are at hand, we find that in the five Provinces just enumerated, the value of improvements made by Indians on their reserves is estimated at \$1,200, 00, and their personal property at nearly half a million of dollars. Their stock totals up 13,000 head of all sorts. The Ontario tribes alone are credited with having raised last year 36 000 bushels of corn. 42,000 of wheat, and 45,000 of oats, and with having sold fish and furs to the value of \$14.000, while the result of sugar making, baskets, &c., is returned as \$41,000. On the whole the evidence afforded. even by dry statistical tables, of the progress made by Indians when properly looked after and placed in a position to improve them selves, is very satisfactory. Many of us, of course, know from other sources how great the progress of the aborigines towards civi lization has been in several instances, and many, too, know to their cost how many disappointments, attend exertions made on behalf of those who have been for many years totally neglected, if not debased, by the white occupiers of their country. circumstances, indeed, must be peculiarly favourable under which an adult Indian can be reclaimed from a wild life and settled down as a plodding agriculturist, Many of them do not and will not take to farming. You may present them with plougle, and seed, and harrows, but in many instances all will be thrown away. There is, in fact, too much sameness of idea in the good inten tions with which philanthropists approach the Indians, among them, as amongst all other people, there are diversities of habit, of inclination, and of capability. Some will

tle North West Territories; 5,000 in Ru 1 mong them the working in wood for which they seem to have a natural genius.

In the Far West the Indian policy of Canada has been as different in tone as in result from that adopted by the United States. In no boastful spirit we may affirm that ours has been as successful and honest as theirs has been disastrous and corrupt. Of the immense benefit conferred upon the Indians by the establishment of the North West Mounted Police evidence con readily be gleaned from General Smyth's report of lis journey from ocean to ocean. The force has given a fatal blow to the whiskey traders of the North West, and under that name may be grouped all the lawless blackguard sm which for the last few years has made continuous raids upon British territory from ts safe base of operations across the border. he Indian tribes who are fortunate enough o live under the British flag know well anough that, to the utmost of the Governnent's ability, peace, security, and temperince are guaranteed to them; and for these llessings they are not ungrateful. Among he wandering and semi-civilized races with vnom Canada has now to deal in the North Vest, we must not expect to perceive too apid an advance towards settled habits; lut we may safely predict that from amongst he Indians of Ontario and the other Eastern rovinces many of the aborigines will soon ake advantage of the new scheme of enranchisement and cease, in the eye of the aw, to be "Indians."

The Admiralty.

On the order for going into Committee of Supply, Mr. Bentinck called attention to the practice of placing at the head of the Ad. miralty civilians who, from their antecedents, could not be conversant with the business of the Department. The practice, he contended, led to jobbing and disaster, and he asked the House to affirm a resolution to the effect that it was " detrimental to the interests of the service." The motion was seconded by Mr. onk, but opposed by Mr. Disraeli, who argued that there were no duties devolving upon the First Lord which any public man in the position of a Cabinet Minister would not be competent to discharge, with the exception of such purely professional questions as the arming and plating of ships, the appointment of naval commanders, and the delicate and important subject of promotion. These were invariably referred to the naval members of the board, though the First Lord had the ultimate decision, without which their councils might possibly end in anarchy. The right hon, gentleman then cited the opinions of several high authorities in favour of the existing practice, including Sir J. Graham. Admiral Sir G. Cockburn, Admiral Lord J. Hay, the Duke of Somerset, Lord Halifax, and Sir John Barrow, and reminded the House of the fact that from 1782 to the general peace in 1815 the entire series of English naval victories had been achieved under naval administrations headed by civilians. It appeared to him, then, that the House would be taking a very rash step if it adopted the proposal before it. House then divided, and negatived Mr. Bentinck's motion by 261 to 18.

REVIEWS.

The New Dominion Monthly for April is received. The following are the contents:—
A Trip to the Sugaries; Jesukism (continuso on. A considerable number have no small taste for carving; and we should like to see more attention given to encouraging DO THIS IN REMEMBRANCE OF ME.

When the Paschal evening fell Deep in Kedron's hallowed dell, When around the festal board Sate the Apostles with their Lord, Then his parting word he said, Blessed the cup and brake the bread—"This when'er ye do or see, Evermore remember Me,"

Years have passed; in every clime, Changing with the changing time, Varying through a thousand forms, Torn by factions, rocked by storms, Still the sacred table spread, Flowing cup and broken bread, With that parting word agree, Drink and eat—remember Me,"

When, thro' all the scenes of life, Hearths of peace and fields of str Friends or foes together meet. Now to part and now to greet, Let those holy tokens tell Of that sad and sweet farewell, And, in mingled grief, or glee, Whisper still, "Remember Me."

When diverging creeds shall learn Toward their sentral source to turn; Toward their sentral source to turn When contending churches tire Of the earthquake, wind, and fire; Here let strife and clamor cease At that still, small voice of peace—"May they all united be In the Father and in Me.

When as rolls the sacred year.
Each fresh note of love we hear;
When the Babe, the Youth, the Min,
Full of grace divine we scan;
When the mournful way tread,
Where for us His blood He shed;
When on Faster morn we tell
How He conquered Death and Hell;
When we watch his spirit true
Heaven and earth transform anew;
Then with quickened sense we see
Why he said "Remember Me."

When in this Thanksgiving feast When in this Thanksgiving teast We would give to God our best, From the treasures of His might Seeking life and love and light; Then, O friend of human kind, Make us true and firm of mind, Pure of heart, in spirit free— Thus may we remember Thee

Literary and Scientific.

CAPT, WICKSTEED'S LECTURE ON "THE RIFLE."

(From the Free Press.)

(Continued from Page 153.)

For projectiles fired in the northern hemisphere - When firing from north to south deflection is to west; when firing from south to north deflection is to west; when firing from west to east deflection is to south; when firing from east to west deflection is to north; so that the deviation is in all cases to the right in the northern hemisphere. It must also be observed that in firing from west to east the range is increased, and from east to west the range is decreased, but in firing due north or south the range is not altered.

2nd. Deviation of projectiles fired from S. B. guns. The principal causes for these deviations are: (1) Windage; (2) the imperfect form and roughness of surface of the shot; (3) eccentricity of projectile, arising from a want of homogeneity.

1. Windage causes irregularity in the flight of a projectile, from the fact of the elasic gas acting in the first instance on the upper portion of the projectile, and driving it against the bottom of the bore; the shot reacts at the same time that it is impelled forward by the charge, and strikes the up per surface of the bore some distance down, and so on by a succession of rebounds, until it leaves the bore in an accidental direction and with a rotatory motion depending chiefly on the position of the last impact against the bure.

Thus should the last impact of a (concen-

the right hand side of the bore, the sho will have a tendency to deflect to the left, vhile at the same time a rotation will be given to it the effect of this rotation will, however. cause the ball during its flight to beat off gradually to the right, so that the deflection will not be to the left, but to the right, inless the range be short.

Cause 2. Shot cannot be cast with perfect. ly smooth surfaces, consequently a cerain amount of unequal friction arises between these surfaces and the atmosphere.

Cause 3. Rotation is also occasioned by the eccentricity of the spherical shot, which is thus explained: The shot being supposed to fit the gun, the force of the powder may be said to act equally on its hinder part, the direction of the force being through the centre of the bullet. Should the centre of gravity of a shot not coincide with the centre of the figure the shot is termed eccentric, and is found to deviate in its trajectory & cording to the position of the centre of gravity when the ball is placed in the boe of the gun. Should the line joining the centre of gravity and the centre of the figure of a projectile be not parallel to the axisof the bore, the charge of powder will act upon a larger surface on one side of the centre of gravity than on the other, so that there vill be a rotation from the lightest to the hewiest side. The effect of the rotation originating from

windage, or from the eccentricity of the projectile, is explained by Robins, woo states, "this whirling motion of the bulet occasions it to strike the air obliquely, and thereby produces a resistance which is dique to the track of the bullet, and consequently perpetually deflects it from its course." The side of the bullet which moves forward experiences an increased re sistance, and the opposite side, which retires. experiences a less resistance than it would do if it received no rotation. The consequence naturally is, that the bulllet is deflected in the direction of the least resistance, or in the direction to which the leading surface of the bullet spins, which will be in the opposite direction to the deflection caused by the rebound of the bullet from in last impact on leaving the bore. Robins il lustrated this deviation by suspending a wooden ball 4½ inches in diameter to the ceiling by a double string 8 or nine feelong. The ball was turned round and the long. string twisted; when left to itself the ball rotated from the untwisting of the string; if drawn considerably from the perpendicular, it vibrated steadily at first in the same vertical plane in which it began to move; but by the untwisting of the string, it so quired, after a short time, a sufficient degree of rotation, and began to deflect to the right or left of its proper track. This appeared to be entirely owing to the resistance being greater on one part of the leading surface of the globe than the other.

Another experiment of Robins' to elucidate the deflection caused by the rotation of a projectile round an axis not coincident with its line of flight, was as follows: He took a gun barrel and bent it (about four inches from the muzzle) the left, at an angle of 30 or 40, he then fired it with a loose ball, through two thin paper screens, at a wall: the first screen was fifty feet from the barel, the second fifty feet behind the first. and the wall two hundred feet behind the second screen, and three hundred feet from the barrel: he found that in the first screen the bullet had struck 11 inches to the left of the centre of it: in the second screen about three inches to the left; but on the Thus should the last impact of a (concentric) shot, when ared from a gun, be upon siderably to the right, about 14 inches. "non-polar" weapon is the spherical forms. wall the mark of the bullet was found con-

The bullet, fired when the barrel was bent described a doubly curved line, one curve being caused by gravity, and the other by the resistance of the sir to the rotation of the bullet: for in passing out of the barrel the bullet naturally sliding against the right side a rotation from the left to the right was imparted to it, and the air resisting the rotation would cause this gradual bearing off to the right.

Professor Magnus, of Berlin, demonstrated the unequal resistance of the air on the front of a rotating spherical bullet; the projectile was stationary, and a strong current of air directed upon it; it being assumed that the relative pressures upon the projec tile are the same whether it is made *p move with a certain velocity through the air, or whether a current of air is impelled with the same velocity against the projec

A brass cylinder, 14 inches diameter, and four inches high, on a vertical axis, represented the projectile; this was made to rotate by machinery. A rotatory fan, with a nozzle five inches wide and $\frac{3}{4}$ inch deep, delivered the current of air. Two light vanes were placed on each side of the cylinder, so that the pivots were equi-distant from the mouth of the blower, and from a vertical plane passing the centre of the current and the axis of the cylinder. When the blower was put in action the vanes placed themselves in the direction of the current, as shown by the continuous lines; but when in addition to the current of air produced by the blower, the cylinder was made to rotate with a certain velocity, the vane, on that side of the cylinder which moved in the same direction as the current, approached the cylinder, while on the contrary side, the vane receded, as shown by the dotted lines. It followed that on the former side there was a diminished, and on the latter a dereased pressure, compared with that which existed when the cylinder was at rest.

PRINCIPLES OF RIFLING.

For a long time the deviations observed in shot were not attributed to their eccentricity. When it became known that eccen tricity was the cause of the resistance of the air, producing such great deviations in the firing, every effort was put forth to make the projectiles as concentric as possible, with the view of increasing the accuracy of fire. It was not until quite recently that this very eccentricity was made use of to increase the accuracy and range of projectiles, and it was found that the accuracy and range could even be further increased by magnifying what had hitherto been regarded as the cause of the evils, viz., the distance between the centre of gravity and figure.

As a corollary of what I have stated, when a ball has been made as nearly spher ical as it can; when the distribution of metal within such ball has been so effected that the centres of sphericity and of gravity correspond as near as can be; no further aid to correct flight can be imparted to the ball itself. Care in respect of the piece from which it is fired, so that the bore may be smooth and nearly fitting to the ball, contribute something more; and a chamber, or patent breeghing, by means of which the gunpowder charge is lighted well op-posite the centre of the ball, may also large to achieve such correctness of flight, as spheroid, or "ball" properly so-called, projected from a non-rifled gua is euaceptible. Before going further, it will be well-bere to observe, that the only form that is shall compatible with correctness of dishifteen.

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The subject of polar weapons does not dmit, perhaps, of being conveniently introduced and explained than through the me

dium of a boy's peg top.

If a peg top were given to any person accompanied by the request that he would drop it from the window of an upper floor in such wise that the peg end should strike the ground first, how might this be done?

A peg top is, when simply thrown from the hand or let drop, not a "polar" projec-It might strike on the peg or it might strike on the very reverse aspect; or, in short, on any aspect. How can it be

Polarised?

Firstly—something might be attached to it, which, by offering resistance to the air, should act like a parachute, or a vane; thus Pirtually, though not absolutely, rendering the part of the top furthest away from the Peg end the lightest part. Thus, one long straight feather might be stuck into a hole drilled into the upper part, thus converting the top into an arrow; or several feathers might be stuck laterally into the top, thus converting it into a shuttle cock; or, finally, instead of imparting a virtual lightness to the upper end of the top by means of the serial resistance of feathers, we might attach simple stick to it, thus rendering it a com-Pound projectile, absolutely heavier at one end than at the other

Now, if the reader will for the instant exclude rifle bullets he will not fail to perceive that all other polar projectiles, ancient no less than modern, acquire their polarity by variations, more or less closely followed, of the expedients represented above. As for the first, it converts the top, almost literally, into an arrow. As to the last, it is at once the type of the javelin in all its varieties,

and of the Congreve rocket.

But the simplest means of insuring im-Pact between the peg of the top and the ground, would consist in projecting it from the hand in the ordinary way that peg tops are protected; that is to say, having a spinning movement imparted to it by the

unwinding of a cord.

No person ever yet saw a peg top standing upon its peg otherwise than when in motion. Yet, if a top were accurately formed that its absolute centre of gravity exited in its geometrical axis, it assuredly would stand on its peg, if accurately set down upon it, even though not in motion. This fact has never been accomplished, and never will be, seeing that a top so absolute ly correct in its parts as we have assumed cannot come from the hands of man. But the ease with which a top when spinning stand on its peg, show how completely the pinning motion of the top counterbalances the unequal distribution of its parts. Not only will a peg top fly spinning through the air, peg foremost, if thus launched to begin with, but it will coontinue to stand on the peg after reaching the ground, until the otatory motion decreases below a certain limit.

Directing our attention now to ascertain the reason of this, the explanation is ob-tious. A peg top is a thing of unequally distributed weight, and unequally distributed shape; in other words, it lacks symme Fashion it with all possible correctness, one one side will always be heavier than one other side. But the effect of rapid Station is virtually to so make up and disibute real inequalities, that the result is irtustequality. In other words, all rolat-ing bodies tend to keep the same position of eir azis im space.

Whatever the form of the suites spher cal or clongated, its path is described by the centre of gravity. In vacuo, no rotation

would be necessary: the existence of a medium, through which projectiles of any form most pass, is the sole cause of their upsetting, or deviating from their true path

All projectiles (except those fired from rified barrels of sufficient pitch) in consequence of the resistance they meet with fron the air when they are eccentric, spherical, elongated, (and they are always one or the other) rotate naturally the forner round an accidental axis, passing through the centre of gravity, and the lat ter round the short axis, also passing through the centre of gravity. As we have seen, however, the rotation to correct the flight of the projectile should be round an axis coincident with its initial direction, or the tengent to its trajectory. Any rotation, in any other direction, acts as a disturbing force, and causes irregularities.

By a successful introduction of the rifle

system the chief causes of deviation are very greatly diminished. The object of rifling the bore of a musket barrel is to give the projectile a rotatory motion on an axis, parallel to that of the bore, or soincident with that of fire. The most perfect form for retation is that of the disc, for when rotation is round any axis but the shortest, the constant tendency is to return to this. But the disc, in consequence of the great rear dation it would experience, would be useless is a projectile. Spherical balls were fired from the rifled arms first introduced, but it was soon found that elongated pro jectiles could be successfully employed with these pieces; and, as so many advantages were secured by the adoption of the eloc gated forms for bullets, the use of spherical projectiles has beed discontinued except for smooth bored guns. Elongated projectiles cannot be used with advantage if fired from smooth bored guns, for the pressure of the air acting unequally upon them when they have left the tore, they soon turn over in their flight and accuracy of fire is then lost.

The object of rifling is to give such a rotation to the projectile as to ensure its sta-bility for the longest ranges. That rotation does give stability is well known from the top, but more especially from the gyroscope The weaker the rotation the less the sta bility, and vice versa; the longer the bullet the less the stability, and consequently the greater the rotation required. If the rotation becomes weak at any part of the range, the bullet will wabble, perhaps turn over,

and deviation must ensie.

The rifle gun is an ingenious contrivance for converting the undefined and irregular motion of fire aim projectiles into one predetermined and regular, by imparting, in fact, a spinning top to like motion to the bullet, and thus ensuring its continuance in a vertical trajectory curve. It is strange, however, that although the rifle principle is founded on the ides of a spinning top, yet, until very lately, the spinning motion was imparted to a sphencal bullet merely, and not to projectiles ashioned like a top. The general aspect in which a rifle differs from a common gun is this: - Whereas the latter has a smooth cylindrical bore, the former has a bore not so smooth, but cut into grooves or indentations. This is the sole peculiarity a first glance will disclose, but if the observer unscrews the breeching of a rifle and looks through the barrel the grooves in quastion will not be found to proceed from breech to mozzla in lines parallel to the axis of the piece, but to take the path of a spiral. Now it is evident that a bullet or plug of lead-closely wedged into a barrel of this kind, and made to pass along

low in its course the direction of the spiral and if propelled through the barrel by the force of gunpowder, must fly through the air in a spinning or top like manner. This is the effect of the rifle gun, and this is the mode of flight of a rifle ball.

The rotatory motion given to an elongated projectile round its longer axis in pass. ing through the bore of a rifled piece, imparts stability to this axis, thereby prevent. ing the projectile from turning over, and causing it to proceed in the desired direction with but little deviation.

Three different ways of giving the requisite rotatory motion to a projectile suggest themselves: (1) By mechanical means inside the bore of the gun; (2) by the action of the gas (from the gunpowder) upon the shot inside the bore; (3) by the pressure of the air upon the projectile after it has left the bore

In order to obtain rotation by the two latter methods, the projectile is provided with wings, spiral grooves (either round the exterior surface or running through the metal). or other contrivances for the gas inside the bore, or the air during flight, to act upon; but by none of these have satisfactory results been obtained in practice, and it is not therefore necessary to describe them.

We may consider the different methods of giving rotation in the bores of rifled guns.

Great numbers of rifled guns with projec tiles to correspond have been proposed, but most of the systems of rifling that have been adopted by any service, or tried on the practice ground, may be divided into the following classes:

(1) Muzzle or breech loading guns having projectiles of hard metal, fitting the pecu-liar form of the bore mechanically.

(2) Muzzle or breech loading guns having projectiles with study or ribs to fit the rooves.

(3) Muzzie loading guns with projectiles of soft metal which is expanded or upset by the gas in the bore.

(4)Breech loading guns with projectiles of soft metal larger in diameter than the bore. but which is compressed by the gas into the form of the bore.

In order to secure accuracy of fire, it is essential that the axis of the projectile should correspond with that of the bore of the gun; for, otherwise, the axis of rotation will be variable, and the deflection of the projectile uncertain.

The velocity of rotation varies with both

the charge and twist of the grooves,

The velocity of rotation required by a projectile will depend chiefly upon the nitial velocity, the form, and density, and distribution of the material of the shot, and also upon the position of its centre of gravity. As the initial velocity of a shot is in-creased, so will the resistance of the air tending to upset the projectile be greater.

Long projectiles require a more rapid rotatory motion than short ones of equal weight; for the resultant of the resistance of the air, which pressing in front of the centre of gravity of an elongated shot and below the point, tends to give the projectile a rotation round its shorter axis, acts with a greater leverage as the length of the shot is increased.

Upon the position of the centre of gravity. If the centre of gravity of a shot is very far torward, the hinder part of the shot would be pressed upwards. if the velocity of rotation be very low, so that the axis might

correspond very nearly during flight with a

tregent to the trajectory
If this case (with a very low velocity of the bore, must (except a sudden and extra-ordinary degree of violence be applied) fol. will generally result from the opposite

tendencies of the forces which act upon the shot, the air endergoring to press up the hind part of the saot, while the rotatory motion resists any change in the direction of the longer wais. With the centre of gravity in this position, there is little fear of the shot turning over even with a low velocity of rotation, but in order that the axis might be stable, a rapid rotatory motion must be given to prevent any wabbling motion which might arise from the cause explained above. Should the centre of gravity be situated near the base, a very high velocity of rotation is requisite to compel the shot to proceed point first

3rd. Deviations of elongated projectiles. An elongated shot fired from a rifled gun is autject to a peculiar deviation termed (from the French) derivation, and sometimes called drift. It is found in practice that elongated projectiles fired from affed guns giving a right handed rotation, always deviate to the right, and in the few cases tried with guns giving a left handed rotation, the derivation is to the left.

Various explanations have been given to account for the derivations from rifled guns: Fustly-a shot rotating rapidly and at the same time falling in the air, will experience a greater pressure underneath than above, and will therefore roll as it were upon the denser air below. Secondly (probably the correct explanation)—If a projectile having a right handed rotation, be fired with a high velocity, the resultant of the air and resis trace which would tend to raise the point if the projectile be not rotating, will, from what can be observed with the gyroscope. give the point a lateral movement to the right. As this lateral movement proceeds. so will the resultant act more and in re to the left of the vertical plane passing through the longer axis of the projectile, and therefore, is in the gyroscope, the point will soon begin to droop,—effects being afterwards successfully produced similar to those which would be caused by a pressure acting gradualty round the pointed end. In fact there is very little doubt but that the longer axis of such elongated projectile does not remain parallel to its primary direction, when the velo city is high enough to create considerable resistance, but the point of the shot will first move to the right, then downwards still keeping to the right, then to the left, and so on, describing a portion of the circle the continuance of the motion depending upon the time of flight and the velocity maintained. As the velocity becomes low the circular motion of the point will gradually cease; but in practice during the few seconds in the flight, which generally elapse, as the velocity is pretty high throughout, there is probably sufficient time and pressure not only to throw the point to the right, but to bring it down on the trajectory and even below it. In whichever direction the axis is twisted from the plane of fire, the resistance of the air passing through the centre of gravity will cause the bullet to deviate in the same direction.

From the fact of the rotation imported to a projectile giving its longer axis stability, it was at first almost universally admitted that this axis remained during flight parallel to its primary direction, and this idea appeared to be borne out by the assertious, that the holes made in targets by elongated projectiles were generally elliptical and not circular, and that the tower and hinder part of the shot must have touched the ground first. These holes in targets are, however,

ground, when the point of the shot is rising from the graze. The axis of a shot would remain parallel to the primary direction if the projectile was opposed by only a very slight resistance; but the enormous force exerted by the air against a shot moving with a high velocity must produce some motion of the point, unless the force acted directly upon the point, and through the long axis, which it cannot do in ordinary cases. Neither do I, however, maintain the notion that the longer axis of an elongated shot remains during flight continually t tangent to the trajectory, for this cannot possibly be correct except in the case of the shot having its centre of gravity, as in an arrow or rocket, very near the fore end. Practically, however, on account of the drooping of the point, the longer axis may throughout a considerable portion of the time of flight approximate very nearly to a tangent with the trajectory.

The results of experiments are, however, sufficient to establish the following facts. (1) That elongated projectiles with rounded or pointed heads deflect to the right at ordinary ranges, shen fired with right handed rotation. (2) That similar projectiles, fired with left hanged r tation, deflect to the left
(3) That the deviation of cylindrical or (flat headed prejectiles is in the opposite direction to that of projectiles with rounded or pointed leads fired with similar rotation.

CONCLUSION.

To conclude-" Whatever State," says the clear headed Robins, writing a hundred and tlirty years ago, "shall thoroughly comprehend the nature and advantage of rifle pieces, and having facilitated and completed their construction, shall introluce into their armies their general use, with a dextenty in the management of them, wili by this means acquire a superiority which will almost equal anything that has been done at any time by the particular excel lence of any one kind of arms, and will perhaps fall but little short of the wonderful effects which historics relate to have been fr-merly produced by the first invention of firearms."

"The nation," says a writer of the pre sent day, "that takes thoroughly to the rifle is impregnable."

The national impregnability, which means national independence, there are three military requires; the first, the weapon t at shoots i.r; the second, the half pike, or short spear, for the close thrust; the third, the union of these two into a single weapon:—that weapon is the rifle. 3 The rifle, with its bayonet, which no man can handle like the British solder, is, in fact, a symbol of the national union which made a United Kingdom out of two independent monarchies. The bow was the national weapon of England, the speir the national weapon of Scotland; the two combined make the bayonetted firearm, or rifle, which the boys of Ireland have ever used with resistless effect in Britain's butles.

God save the Queen of Canada and Em-

press of India.

At the conclusion of the lecture, the chairman made a few remarks, after which a vote of thanks was passed to the lecturer and the audience dispersed.

The Royal Title Bill and the Colonies.

Yielding to the manifest wish o' the House. as indicated by Mr. Samuelson's hostile notice of motion, the Prime Minister, on March seldom elliptical; also the instances of shot. It, rewealed the addition which will be made wife the distinctive appellation who inhelist being flattened behind are rare, and this to the Sovereign's official styleso soon as the lost when marrying a Prince who inhelist flattening may probably be produced by the R al Titles Bill has become law. Her Ma. has been content with the smaller hill.

jesty will then be, "Victoria, by the Gra of God, of the United Kingdom of Great Ba tain and Ireland Queen, Defender of the Faith, and Empress of India." In the count of his speech Mr. Disraeli remarked:—" know it may be said, for it was said, in the recent debate, and urged strongly by the righ hon gentleman the member for Brad ford, that all this amplification of her Majesty's style was not treating with consider tion the colonies. I cannot in any way agrewith that. No one honours more than my self the colonial empire of England. No one is more auxious to maintain it. No one re. grets more than myself that op ortunities have been lost of identitying the colonier with the Royal House of England. But ne one essentially different from the colonic condition. The condition of India and the condition of the colonics have no similarity. In the colonies you have, first, a fluctuating population. The man who is a member of Parliament one year in Melbourne may the next year be member of Parliament in West minster. A colonist who finds a nugget of fleeces a thousand flocks makes a fortune, refurns to England, buys an estate, become amagistrate, and represents Her Majesty, he becomes High Sheriff, he has a magnificent house near Hyde Park, he goes to Court to levees, to drawing rooms; he has an opportunity of pledging his troth personally whis Sovereign. Ho is in frequent and direct communication with that Sovereign; but that is not the case with India. The condition of Colonial society is also of a ren fluctuating character. It political and social elements change. I remember twenty year ago a very distinguished statesman who would willingly have seen the Dukedom of Canada; but the Dukedom of Canada dos not exist. It is called the Dominion of Canada. There is no similarity between the situation of our Colonial fellow subjects is India. Our Colonists are English. They come and go. They go over to the Colonia to make fortunes to invest in England. The matual interests are ramified, intense, com plicated, and keen; and they have constant opportunites of improving and enlarging the relations which exist between them and thez countrymen in the metropolis. Their relations to the Sovereign are admitted. The satisfy them—they are proud of those rela-tions—tney are invested with titles by the Queen; they return to their country, and they are what they were when they left it." (Loud cheers.)

The London correspondent of the Glasger Herald writes:—"On good authority I lean that the Queen herself, and at the instigs tion of the Duke of Edinburgh, suggested the Royal Titles Bill which is provoking much lively opposition on the part of the Liberals, and so much grumbling in the ranks of the Ministerialists. Mr. Distant bimself, though he undertook to bring it forward, could not affect an enthusiasm be was far from feeling; whilst in the midstd the Cabinet itself more than one member expressed his dislike to the proposal. The Duke of Edinburgh, who looks formed to the time when he shall have taken up his abode at Saxe Cobourg, does not make to find himself placed at a disadvanter when in the society of other princelings and kinglets, and sees in the combined flours of Your Royal and Imperial Highner,'s consolution for the loss of the presugewhich has been monopolized of late years by Prosis alone. With such a high sounding tills moreover, he will be able to restore to will the distinctive appellation which it 3170

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Telegraphic communication is now established between Winnipeg, Pelly and Bittle River, over 500 miles.

No less than 14 000 rockets were taken out with the Serapis for pyrotechnic our poses during the stay of His Royal Histories the Prince of Wales in India; but the fleet said to have nearly exhausted its sore, and several thousands more have been minufactured in the Royal Luberator, and will be transmitted to Bombay withall despatch. None of the rockets issued from the Government works were for sophys on shore, which were chiefly arranged by private manufacturers from England.

Broad Arrow, Jan, 15, mentions a curious fact about the new Kussian iron-dada called Popovkas, referring to the volume of Punch for 1847 48, page 233. It there find pictured a small fleet of such circular shipscruising in the Channel, and in the letterpres this form of thip is recommended (ironicaly, no doubt) to the consideration of the Atmiralty as an improvement on the form of ships the government were then building Now in its old age the Admiralty is t king Punch's advice.

The war in the Malay peninsula between the British and some of the native chiefs come to a practical termination on March 20, by the surrender of the Rejoh Ismail t Penang. By what circumstances the sur render was brought about is not yet known, but it is thought that he must have been blockaded. The direct object of the British in their military operations in Persk has been to punish the natives for murdering Mr Birch, the English Resident, and three out of his pine products. out of his nine murderers are now in cus tody, besides Datu Sigor, the chief who was present when the morder was committed. In the war, Sir William Jeryois has been as: sisted by the good will and co operation of many of the Malay cliefs, who have not sympathized with the hijah Isma'l and his party.

An official testing of the merits of the "Makaroff safety mat' for stopping leaks in vesse's took place on the 13th inst., at Keylam. This new contivance was sent down to Devenport by the Admiralty a short time since to be reported upon. The trial came off at the inner raisson, at the entrance to the south basir, and at low water the water was allowed to flow out of the lock, the outer casson being taised for that purpose. In the inner offision about twelve feet down is a sluice, about eighteen inches square, that passes through the cais. son, and at that aperture the mit was tried. Some pigs of ballist, with blocks attached, were lowered to the bottom close to the caison, and through those blocks ropes were rove, and made fast to the two lower corners of the mat to haul it down over the The valve of the sluice was then aperture. opened full; but from the great rush of water through, the men failed in hauling the mat over the operture. The valve was then half closed, and the mat secured over the hole. The leak was not then fully the hole. The leak was not then fully stopped; but the leakage was not more than a ship's numps could have cleared This test could hardly, however, he said to be fair, for in a ship the ropes attached to the lower end could have been passed under the bottom and up the opposite side of the vessel and the mat brought opposite the bile before it was hauled close to the side; but on the other hand, in an actual collision, there would be no valve, to have reduced the inrush of water. The mat appeared to be too stiff, at when it was over making test of the collision.

No. 21 East 16th Street, New York

| Collision to Describe the collision of the coll

the aparture and confined there by the pressue of water, its edges were forced off from the side of the calsson, and such a desect in an actual case of necessity with a ship passing through the water would be likely to spoil, all, for the water would get between the ship and the mat, and the mat would be soon lost.

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