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# Volunteer Review NAVAL GAZETTE. AND

Journal Deboted to the Interests of the Military and Nabal Forces of the Dominion of Canada

VOL. VIII.

OTTAWA, (CANADA,) TUESDAY, JULY 28, 1874.

No. 30.

## NEWS OF THE WEEK.

The Quebec City Council have voted one million dollars to the North Shore Railway.

A new well was struck at Petrolia on the 21st by Mr. Loney. It is pumping at the rate of 250 barrels per day.

Sixteen persons were fined at Port Rowan on the 21st for violating the Fishery Act during the close season.

Messrs. Bell and Hubertus, of the Parry Sound Railway expedition, were encamped at Brule Lake, near Frontenac Road on Sunday, July 19th. The examination of the route on toot has been carried fifty miles from Carleton Place, or about eighty miles West of Ottawa city.

On Friday the 10th inst., Sir Garnet Wolesley paid a visit to the Wimbledon camp, and was presented with an address by the Canadian Team. The names of the following Canadian marksmen appear in the scores issued by the Statistical Department, and Published in the Volunteer Service Gazette: Daily Telegraph prize—200 yards, seven shots—highest number of points made 34, by two marksmen; Color Sergeant Baillie, 47th, Canada, 33 points: Capt. Church. Provisional Batt., 32 points; Capt Layton, 18th Canada, 31 points; Ensign Wolfenden, Pro Vincial Batt. Canada, 31 points.

In the "Extra Prizes" contest the high-est number of points made was 34. Ser-geant Sutherland of the Foot Guards, Cana-da, scored 32. In the highest scores in un completed competitions 32 was the best; Color Sergeant Baillie, of the 47th, Canada,

The schooner Annie Laurie, twenty two tons, before reported as having sailed from St. John for Great Britain, has been totally lost near Halifax. The crew were saved

A court martial is sitting on board H.M.S. Dorie, upon the Captain and officers of the Niobe, for the loss of that vessel.

The Governor General and party met with fair amount of success during their recent fishing excursion below Quebec. Some thirty salmon were killed, the largest of which weighed 26 pounds. It was hooked and landed by Lady Dufferin, after playing it for nearly an hour.

The steamer Cumberland, which left Collingwood on the 21st for Thunder Bay, had on board ten Armstrong field pieces for use in Manitoba and North West.

The terrible calamity of a visitation of the grasshopers has befallen the Prairle Province, and the people are greatly disheartened in consequence.

The colony of Menonites for Manitoba 330 in number, including fifty one families hail ing from Kateuna Stauffa, arrived in Montreal on Saturday the 18th en route for Manitoba. Three children died during the pas sage in the steamship Austrian from Liverpool to Halifax, and two were born. The party (which brings out \$45,985 in gold and drafts) proceed by rail to Sarnia and take the Dawson route to Manitoba.

A special telegram from New Brunswick says that the appeal to the Privy Council against the existing school Law has been dismissed. This is another victory for the New Brunswick Government.

The annual meeting of the Kingston Rifle Associasion will be held on the 25th of August and following days. Prizes in money will be competed for. A successful meet ing is anticipated,

A terrific thunderstorm visited Ottawa and Hull on Sunday night the 19th inst. Several houses and telegraph poles were struck, and the crops in the surrounding country were considerably damaged. In Hull the women became panic striken, and ran about the streets in their terror.

News reaches us from Manitobe of an as sault of a peculiarly ferocious character per petrated in St Paul, Minn., on the person of ex-Attorney General Clarke. As it appears that the brutal injuries were inflicted upon the unfortunate gentleman in revenge for his official acts in his own Province, it is possible the outrage may be made an inter national grievance. Mr. Clarke has long been in very delicate health, so the effects of such a shock to his system may be very serious indeed.

A New gun, the invention of James P. Taylor, of Knoxville, Tenn, is being tried at Colt's armoury, Hartford, Conn. The Springfield Republican says: It is claimed that it will discharge 800 balls a minute, and has been known to discharge 1,000. There are 24 barrels in the outer circle and eight inside. They do not revolve, but are all convergent, so that at 500 yards the balls would strike within a circle of one foot. Arrangements are in progress for their

Arrangements are in progress for their manufacture at Colt's.

The New Brunswick Brigade of Garrison Artillery and 62nd Battalion of infantry, went into camp at St John, July 23rd on Barrack Square. Adjutant General Maun sell is in command.

The Times Paris special says the Committee of Thirty agreed to the Electoral Bill, fixing the age of voters at twenty five, providing for elections by arondissements instead of departments, and giving an additional member to every 50,000 inhabitants.

A suggestion in a Madrid newspaper for a union of Spain and Portugal, has been re-

ceived with great disfavour in Lisbon.
France will support England in her refusal to allow naval affairs to form part of the discussion at the forthcoming international congress at Brussels.

Brady the hero who took charge of the steamship Pennsylvania, when during a storm she lost all her officers, has been awarded only \$4.000 salvage.

Dr. Thirwall, the eminent English historian, has resigned his position of Bishop of St. David's which he has held since 1840. His father said of him, that "at a very early age he read English so well that at the age of three years he was taught Latin, and at four he read Greek with an ease and fluency which astonished all who heard him." His subsequent career was worthy

of this extraordinary precocity,
An alarming outbreak of small pox has occurred at Newmarket England, Upwards of sixty cases are already reported. The authorities of the town have asked the Jockey Club to convert their grand stand into a hospital where effected persons may

The Lord Mayor of London gave a ban-quet on the 22nd to Her Majesty's Minis-ters at the Mansion House.

The Lord Mayor of London, Mr. Andrew Lusk, has been created a Baronet.

The North German Gazette says in reference to the recent outrages by the Carlists, "Germany, in behalf of outraged European civilization, will seek and find means to teach the Carlists that the murder of a captured German shall not remain unpunished."

It is stated that Seniors Castellar and Serrioll are preparing to act in concert for the definite establishment of a Conservative Republic.

The extreme Republican theories only divided them from the Liberals, who were their best allies.

Senor Sanz has been appointed Minister of Spain to Mexico.

The Carlists shot every tenth man of the volunteer battalions captured at Cuenca. General Dominiquez is in command of the

Republican army in Catalonia. General Ravia will soon take the field in central Spain with I4,000 men and 30. guns.
The Carlists shot 160 Republicans at

The Govenment has ordered contribu-to be levied on the partizans of Don

The property of the Carlists resident in Cuenca has been seized to indemnify the relatives of the Republicans killed during

the siege.

ANNUAL REPORT ON THE STATE OF THE MILITIA FOR 1873.

### APPENDIX No. I

(Continued from Page, 339)

MILITARY DISTRICT NO. 10.

FORT GARRY, January 2nd, 1873.

Sir,—In forwarding to you my report for the past year on the state of the Militia in this Province, I have, so far as the local corps are concerned, little or no change to

The nominal and actual strengths remain as reported by me in January last, viz: Corps authorized, 36 officers and 660 non-

commissioned officers and men.

Corps actually raised, 18 officers and 330 non commissioned officers and men. Of these the "Headingly" Troop of mounted Rifles is organized, but not yet equipped or uniformed.

The "Field Battery" of Winnipeg is organized, and partially uniformed, and equipped for purposes of drill, with two 7 pound-

er mountain howitzers.

The "Winnipeg Rifle Company" is uniformed, but not yet officially inspected, and

is not armed.
The "Lisgar" Rifle Company, the "Mapleton" Rifle Company, and "Poplar Point" Rifle Company are complete in organization, uniform and equipment. These companies, with the exception of the "Mapleton Company" which has gone through a portion of it, have not has yet performed the drill for the year ending June 30th 1874; but since my last report performed and were inspected for the annual drill of 1872 73, and with the following strengths.

Officers.	N, C. O. & Men.
" Lisgar" Rifle Co: 3	55
"Mapleton" , 2	<b>3</b> 0
"Mapleton" ,, 2 "Poplar Point",, 2	44

These three are fine companies, and give

promise of great efficiency.

The Winnipeg Field Battery consists of a superior class of young men, and if fully equipped, and that arrangements for horsing the Battery were made, would be a use ful corps.

Circumstances have delayed the complete organization and equipment of the Win nipeg Rifle Company; but from a late com-munication with the commanding officer I am led to believe that it will soon be on a

satisfactory footing.
With regard to the various other corps authorized in 1871, in the Province, none have organized, and can be considered, but paper companies. My special report called for from the Adjutant General's office, on the 18th of June last, will have fully informed you on this subject; and in connection with my various previous reports, have placed you in rossession of my views as to a more satisfactory organization of the militia in this Province, than has as yet been found practicable.

I would, however, respectfully suggest. that instead of the desultory system of drill as at present authorized, that the annual drills be consecutive, and, when practicable without any considerable expense, the ne local empanies should perform successful in camp attached to the Provisional Batta lion on service here, in such manner as may be deemed advisable.

By this means the force on service here, in addition to its other duties, may be utiliz. ed as a valuable training school for local corps.

I have also respectfully to recommend that a School of Instruction, at which officers of the Local Active Force may be enabled to obtain certificates in this Province, may be established.

In the Dominion Forces serving here, there has been a considerable change in organization since my last report, the Depart ment of Artillery having been increased to the strength and constitution of a Battery; and the Provisional Battalion proportionate ly reduced, in order that the Force may come within the prescribed strength, which at the present date is returned as follows:

> Officers N. C. O. & Men.

Battery of Artillery..... 80 Provisional Battalion of Infantry—including in Regimental Staff the Surgeon and Paymaster, acting for both corps..., 17

The duties and discipline of those corps are carried on as in H. M. Regular Ser-

A considerable amount of extra duty has fallen on these corps during the past year in consequence of requisitions in aid of the civil power. The principal occasions on which such services were given, being, first in March last, when at the time of the prorogation of the Provincial Legislature, it was considered necessary to maintain an officers' guard in the Parliament Buildings, as well as strong inlying piquets in barracks. Again, on the 2nd of July last, a detachment of fifty men had to be despatched by night to White Horse Plains, to repress riots, and to aid in effecting the capture of rioters, a duty which was satisfactorily accomplished.

Immediately after this occurance, the services of the troops were required for a special guard, which was maintained for some time over the building in Fort Garry used as a prison, in which a party of men from the United States were confined, await ing trial on a serious criminal charge.

Subsequently, fresh requisitions occasion. ed extra guards and a strong inlying piquet in aid of the civil power, whilst one Lepine was in custody on charge of murder.

On all those occasions, proper legal requisitions where required, and obtained by me from the proper authorities; and the use of the troops was strictly confined to such purposes as are precribed in the militia and Defence Act.

In accordance with our orders, a company of the provisional Battalion of Infantry was detached to the North West Angle of the Lake of the Woods, as an escort and guard for His Honor the Lieutenant Governor, during the negotiations for a treaty with the Ogiobewa Indians. This duty, which occupied about three weeks was satisfactorily performed; the party returning to head quarters on the 9th October.

On the night of the 3rd of December, a fire which totally destroyed the Legislative Buildings, occurred in the Town of Winnipeg. The exertions of a strong party of Infantry and Artillery, who I thought it proper to employ for the purpose, mainly prevented the fire spreading to adjacent buildings, where large quantities of powder and coal oil where stored, and which if and coal oil where stored, and which, if ignited, would have caused the detstruction of the greater portion of the town.

As already specially reported to you, the services of the troops on this occasion procured them the thanks, by Minute of Council, of His Honor the Lieutenant Governor, and the Provincial Government.

The general health of the troops has been good, although the sick returns have been greater than in previous years; this may be in a great measure attributed to the fect that of the drafts from Nova Sectia and New Brunswick, numbering one hundred men, who replaced the time expired men, were growing lads whose physique was not sufficiently established to fit them for hardships which service in this country necessarily entails. It is right, however, that I should add, that in the soldierlike qualities of zest for service, and amenability to discipline which distinguished our Dominion Forces, these young levies from the Maritime Provinces are in no wise inferior to the troops that they have replaced.

I would respectfully suggest that, unless under exceptional circumstances, no men should be engaged for service in the North West under twenty years of age.

It is with satisfaction that I am enabled to report to you that the whole of the froops are comfortably quartered in the new harrack huts, lately erected, and of which full reports, plans, &c., will be forwarded to you by an early mail.

I have the honor to be, Sir, Your most obedient servant, W. Osborne Smith, Lt. Col.

D. A. G., Commanding Military District, No. 10.

11 - 1

The Acting Adjt. General, Ottawa.

REPORT ON THE ARTILLERY OF THE PROVINGS OF ONTARIO.

Kingston, November, 1873.

Sir.—The following batteries of Field Artillery have performed their drill for the year 1873-74, and have been inspected by

me viz, :-The Ottawa Field Battery; Kingston
Field Battery; Toronto Field Battery;
Hamilton Field Battery; and Wellington Field Battery.

The London Field Battery will probably carry on its annual drill in the month, of June next; the Welland Canal Field Battery in March or April next, and the Durham and Gananoque Field Batteries, being still without the guns or equipment, it is diffi-cult to say when they are likely to turn out.

The Ottawa Field Battery performed its annual training in eight consective days in September, being endamped at Ottawa: The weather was very unfavourable, and the rain greatly injured the harness and sad. dlery. I thing it would be well for the future to issue to each battery going into camp a couple of extra tents for harness; as, not alone is it very annoying to the men having so much extra work thrown on them by hav ing to remove daily a quantity of rust from the iron work of the harness, but the policy of allowing harness worth \$2,000 to be injured rather than issue a couple of extra tents, worth about \$20 apiece, is very questionable.

Notwithstanding the difficulties this battery had to encounter, both as regards the weather and being short of officers, I am happy to inform you that the non-commissioned officers and gunners were efficient gun drill, and the drivers at driving.

Captain Stewart can instruct well at gui drill and field manœuvres.

Owing to very few of the officers, noncommissioned officers or men of the battery having attended the School of Gunnery, there is not as great a knowledge of the tas and application of artillery projectiles and atores as I should desire. This remark also applies to the Hamilton Field Battery.

The Kingston Field Battery was inspected

by me on the 22nd September.

The Battery was rather short of men dur' ing the training, and but little gun drill had been carried on. The greater portion of the drill was devoted to driving and field manœuvres, and consequently the battery was very efficient therein. The battery was very well horsed.

I inspected the Toronto Field Battery on the 30th September. The turn out, whether of men, horses, harness or guns, left little to be desired.

The gun drill and field manœuvres were remarkably well done. This battery has ent a large number of non commissioned officers and men to the School of Gunnery at different times.

The officers are exceptionally good.

Lieutenant General Haly, C.B., command. ing the troops in British North America, was Present on the occasion of the inspection. He was agreeably astonished at the ready way the battery manœuvred. The annexed letter (A) which he was kind enough to write to me a short time afterwards, expresses more fully his opinion on this matter.

I inspected the Wellington Field Battery

on the 30th September.

A sergeant-instructor from the School of Gunnery, was present with the battery during the whole training. This was only the second turn out of this battery since its formation. It progress has been remarkable, and I think will probably be still more o, as all ranks show the greatest zeal for their work.

The Hamilton Field Battery performed its annual training in the early part of Oct. This Battery was particularly well horsed. The harness was in excellent order. The

nen were well up in gun drill. Capt. Smith performed field manœuvres

Very well.

At the Niagara Camp, in 1871, I gave a amall priss to the cleanest set of harness, and I am glad to say, that in most of the batteries the hint has been taken up, and the officers offer small prizes for the cleanest harness; as nearly all the drivers endeavour to obtain a prize, the general effect on the appearance of the battery may readily be magined.

I have frequently pointed out no provis-on has been made for a Government prize for drivers. I think it hard, that as a class, they should be debarred from all Govern-

ment prizes.

A badge of crossed whips, and \$10 to aot appreciably affect the Military expendi-

# GARRISON ARTILLERY.

Of the Garrison Batteries shewn on the Inspection State, the Toronto, Collingwood, Barria, Napanee, and Nos. 3 and 5 Batteries of the Ottawa Brigade Garrson Artillery, performed the annual drill in eight concontive days; the Goderich and Cobourg batteries in sixteen day, drilling at various

the particulars connected with the above liberies, will be seen on reference to the

napaction State.
The Toronto, Napanee and Cobourg Bat-

wood and Goderich Batteries were fairly efficient but the two batteries of the Ottawa Brigade Garrison Artillery gave me anything but satisfaction.

These batteries were encamped at Ottawa; their appearance on parade was not particularly good, and with the concurrence of the acting Deputy Adjutant-General, several names were struck from the Muster Roll, as the individuals were quite unfit for service, several of them being boys of fourteen and sixteen years of age.

I inspected several detachments at gun

drill, but was not at all favourably impressed I have reason to believe that the discipline maintained or attempted to be main-

ed, was of a very loose kind.
Unless Garrison Batteries are brought in to forts and instructed at garrison gun drill, mortar drill, &c, under properly qualified instructors, I doubt very much if there is any advantage in retaining them on the strength of the force as Garrison Artillery.

In the Field Artillery of the Province there is much greater esprit de corps than in the Garrison. I would however, even in the case of Field Batteries, recommend that the annual training be carried on in the District camps, under proper supervision and with the assistance of the staff of instructors from the School of Gunnery.

As I shall probably have no future op portunity of bringing forward any recommendations with reference to the artillery warlike stores of the Dominion, I beg to submit the following matters, most of which

I have previously recommended:—
1st. The appointment of a Major to each

Field Battery.

2nd. The increase of the establishment of a Field Battery to 100 non commissioned officers and men.

3rd. The enrolment of draught horses

for Field Batteries.

4th. The simplification of the drill of Field Batteries, by manœuvering with the guns independently of the wagons.

5th. Granting prizes to drivers for pro-

ficiency in their own particular line.
6th. The removal of Garrison Batteries from their own headquarters to the most convenient forts and batteries for the annual

training.
7th. The appointment of a Battery Sergeant Major to each Garrison Battery.

8th. Extension of the period of annual drill for both Field and Garrison Batter-

9th. The manufacture of small-arm ammunition, and other warlike stores in the Dominion.

10. The encouragement of the manufacture of large grain gunpowder, by purchas ing the powder required for annual practice in the Dominion.

11. The annual inspection of all warlike

stores by competent officers.

12. The adoption of some fixed policy with reference to the fortifications and their armaments, as they are rapidly going to

Having, during the last three years, been brought much in contact with the Artillery of the Dominion, (but more particularly of Ontario), it gives me great pleasure in being able to testify that during all that time, I have ever been treated with the greatest kindness and consideration by all ranks, and I would respectfully request that I may be allowed through the medium of your report to return my sincere thanks to the officers, non-commissioned officers and men of the The Toronto, Napanee and Cobourg Batderice turned out very creditably, and were
to Lieut Colonel Shanly, of London; Capt.
Gray, Toronto; Captain Macdonald, Guelph;

Major Kirkpatrick, Kingston; Lieut. Col: Jago, of St. John, New Brunswick, hoping that during the period of my connection with the Artillery of the Dominion, I have generally conducted my duties to the satisfaction of the officers commanding the Militia of the Dominion.

I have the honor to be, Sir, Your most obedient servant. G. A. FRENCH, Lieut. Col. Inspector of Artillery, and Warlike Stores. Dominion of Canada.

The Acting Adjt. Gen. of Militia, Ottawa.

(A)

CITADEL, QUEBEO, 14th Oct. 1873.

My Dear Colonel,—It was a great satisfaction to me during my tour, in the upper Provinces, having the opportunity which you so kindly afforded me of seeing unofficially your batteries of the Dominion Art. tillery at Toronto, and at Kingston. As I verbally expressed myself on those occasions I was very much pleased with what I saw of those troops. The Field Batteries of four guns, which, I saw on parade at Toronto; efficiently horsed and commanded by a smart and intelligent officer, gave most sat isfactory evidence of the manner in which field artillery can be raised and formed, for which the Province of Ontario appears to me to possess special capabilities, both in men and horses. The manner in which that battery moved, evidences the zeal and intelligence with which it has been trained and instructed, and the turn out on parade of both men and horses was highly creditable to yourself, and those officers and soldiers

serving under your command.

The battery and detachment at Kingston appeared equally efficient and well appoint. ed. I was impressed with the feeling that both your officers, non-commissioned officers, and soldiers, appeared to be animated with a zealous and soldier like spirit and bearing, and can only hope that increased opportunity and facilities may be offered these troops of attaining to the highest degrees of efficiency commensurate with Imperial and Dominion military interests. Wishing yourself and them every success, believe me,

Sincerely yours,

(Signed,)

W. O. G. HALY. Lieut. General

(To be continued.)

MILITIA INSPECTION. -On Thursday evening at 7., the New Westminster Rifles mustered in their Drill Shed—36 being present—and marched out to the Cricket Ground, to be inspected by Lieut. Col. Houghton, Deputy. Adjutant General. After inspection of arms &c., various evolutions were performed in a new oreditable manner. Calcal Houghton. very creditable manner. Colonel Houghton then addressed the men in very complimen. tary terms, expressing his satisfaction at the progress made by the company and referre ing in terms of special praise to the good muster (40 is the full strength of the com-pany), and to the fact that the New West-minster kifles numbered among them three or four of the best shots in the Province. Colonel Houghton urged the men to make fresh efforts to maintain and improve the standing they had acquired, both on the Parade Ground and at the Butts .- Domicion Pacific Hearld.

# DUMINION OF CANADA.



MILITIA GENERAL, ORDERS,

# HEAD QUARTERS,

Ottawa, 24th July, 1874.

- . GENERAL ORDERS (20).
- No. 1,

ACTIVE MILITIA.

#### ANNUAL DRILL.

Adverting to No. 3 of General Orders (13) 2nd June. 1874, the following Corps are removed from the List of Corps not entitled to pay on completion of the Annual Drill for 1874.75:

Mil Dist.

- No. 5.—No. 7 Co'y. (St. Chrysostome) 51st
   Batt., Captain Livingstone.
  - 2 " (Clarenceville)60thBatt. Capt. Jameson.
  - 3 " (Durham) 60th Batt., Capt. Robinson.

Provisional Battalion of Infantry on Service in Manitoba.

To be Ensign:

Charles R. F. Twining, Gentleman, vice Joseph Taillefer whose resignation is hereby accepted.

#### PROVINCE OF ONTARIO.

Gananoque Field Battery of Artillery.

To be 1st Lieutenant:

2nd Lieutenant Charles Edwin Britton, G. S.,vice John Brown Haig whose resignation is hereby accepted.

To be 2nd Lieutenant, provisionally.

James Alexander McCammon, Gentleman,
vice Britton, promoted.

1st Battalion, Governor General's Foot Guards.

To be Lieutenant:

Ensign Horace Gerald Dunlevie, V.B., vice Charles E. Laumann, whose resignation is hereby accepted.

Captain Richard John Wicksteed, is hereby Fermitted to retire retaining rank.

30th "Wellington" Battalion of Rifles.

To be Paymaster:

Quarter Master Edmund Harvey, vice Honorary Major Malcolm O. MacGregor, who is hereby permitted to retire retaining his honorary rank.

- To be Quarter Master with Honorary Rank of Captain:
  - H. H. Swinford, formerly Captain of No. 6 Company, vice Harvey, promoted.

41st " Brockville' Battalion of Rifles.

To be Paymaster:

Honorary Captain and Quartermaster David B. Jones, vice Honorary Mejor Herbert S. McDonald, who is hereby permitted to retire retaining his honorary rank.

To be Quarter Master:

Quarter Master Sergeant Elkinah Kincaid, vice Jones, promoted.

77th Wentworth Battalion of Infantry.

No. 1 Company, Dundas.

To be Lieutenant:

Ensign Alexander Bertram, M.S., vice Ogg promoted.

To be Lieutenant, specially and provisionally:

Charles Cornelius Greening, Gentleman, vice Bertram promoted.

#### CONFIRMATION OF RANK.

Lieutenant John F. Smart, V.B., 1st Class, 59th Battalion, is hereby confirmed as Adiment from 3rd July 1874.
Cornet John Stewart, Ottawa 1700p or

Cavalry, from 2nd July 1874.

#### BREVET.

To be Major from 15th January, 1874. Captain John F. Hollinger, M.S., No. 10 Company, 30th Battalion.

#### PROVINCE OF QUEBEC,

"B" Battery, School of Gunnery.

In addition to Lieutenant and Captain Charles John Short, from Sherbrooke Battery of Garrison Artillery, who retains the rank of Captain, the following Officers, Lieutenants in "B" Battery, will also here by have the rank of Captain in the Militia, from 10th July, 1874.

Lieutenant Maurice E J. Duchesnay.

- do Oscar Prevost.
- do Charles Auguste LaRue.

1st Ballalion of Rifles, or "Prince of Wales".

Regiment.

To be Captain:

Lieutenant Robert Ward Shopherd, V.B., vice Robinson resigned.

To be Lieutenant:

Ensign Alexander Robertson, V.B., vice Watt, promoted.

55th " Megantic" Battalion of Infantry.

To be Major, from 10th July, 1874; Captain and Brevet Major Robert Stewart, M.S., from No. 2 Company, vice King,

No. 2 Company, Inverness.

To be Captain, from 10th July, 1874:

promoted.

Lieutenant Thomas McKenzie, M.S., vice Stewart promoted.

76th Battalion of Infantry, or "Voltigeurs de Chateauguay."

To be Quarter Master, from 4th July, 1874: Ensign Cyprien, Durocher, from No. 2 Company, vice Pierre Dupuis, left limits.

No. 6 Company, Chateaguay.

The resignation of Captain J. Autoine Roid, is hereby accepted.

79th "Shefford" Battalion of Infantry, or "Highlanders,",

To be Quarter Master:

Peter Albert Martin, Gentlaman, vice E. B. Hodge, left limits.

No. 4 Company, South Rexton.

To be Lieutenant, provisionally:

John H. Bartlett, Gentleman, vice George Edward Savage, left limits.

Ensign Lyman Savage having left limits, his name is hereby removed from the list of Officers of the Active Militia.

No. 6 Company, North Ely.

To be Lieutenant:

Robert Hackwell, Gentleman, M. S., vice Hodge, appointed Quarter-Master.

Ensign Pierre Paul Bissonette, having left limits his name is hereby removed from the list of Officers of the Active Militia.

Temiscouata Provisional Battalion of Infantry.

No. 2 Company, Trois Photoles.

This company having become disorganized is bereby removed from the list of Corps of the Active Militia, and the Officers there of are also hereby removed from the list of Officers of the Active Militia.

No. 3 Company, St. George de Cacouna.

To be Lieutenant:

David Trève, Gentleman, M. S. vice Aug' uste H. Jean, left limits.

No. 5 Company, Isle Verte.

To be Captain:

Ensign Alexis Dumas, M. S., from No 3. Company, vice Alexis Frazer, left limits.

To be Lieutenants:

George DeFoy, Gentleman, M. S., vice P. R. Dubé, left limits.

Ensign J. B. Raymond having loft limits his name is hereby removed from the list of Officers of the Active Militia.

Portneuf Provisional Battalion of Infantry.

Assistant Surgeon Thomas Gendron, having disobeyed Orders to attend Brigade Camp, his name is hereby removed from the list of Officers of the Active Militia.

## PROVINCE OF NOVA SCOTIA.

69th Annapolis Buttalion of Infantry.
To be Adjutant:

Ensign Osbert Marshall, M.S., from No. 4 Company, vice Malcolm C. Bent, deceased.

# CONFIRMATION OF RANK.

Ensign William F. Rogers, M. S., 66th Battalion, from 25th June, 1874.

No. 2

#### CERTIFICATES.

SCHOOLS OF MILITARY INSTRUCTION,

Certificates received from Commandants of Schools of Military Instruction.

PROVINCE OF NOVA-SCOTIA.

FIRST CLASS CERTIFICATES.

Regimental Division.

Name.

Halifax City. - Ensign Arthur Edward Curren, 66th Batt.

> do -Sergeaut D. S. Stewart, 2nd Halifux Brigade Garrison Artillery.

SECOND CLASS CERTIFICATES.

Regimental Divisions. Names.

Halifax City. —Ensign William F. Rogers, 66th Batt.

do County. —Corporal W.H. Stevens, 66th.

do City. —Gunner H. Gammon, 2nd Halifax B. G. A.

do -Gunner M. Mahoney, 2nd Halifax B. G. A.

do —Private J. N. Crane, 63rd Batt.

do —Private T. M: Cutler, 63rd Batt.

do —Private A. G. Cunning ham, 63rd Batt.

BOARDS OF EXAMINERS.
PROVINCE OF ONTARIO.

First Class Certificates.

Lieutenant John F. Smart, 59th Battalion.

Lieutenant Edward Hull Sheffield, No. 1 Company, 41st Battation.

PROVINCE OF NOVA SCOTIA.

FIRST CLASS CERTIFICATES.

Captain John D. Cummins, 63rd Batta' lion.

By Command of his Excellency the Governor General.

WALKER POWELL, Lieut. Col. Acting Adjutant General of Militia,

Canada.

The Madras Times gives particulars of the establishment of a Mountain Train Battery with elephants at Tonghoo, The battery will consist solely of elephants, the provision of bearers for the carriage of the guns and a certain number of rounds of ammunition, in addition to elephants, not being essential. If at any time it should be found necessary to move the guns by hand into any peculiarly difficult position where the elephants could not be used, there would, it is supposed, be no difficulty in moving them by means of the troops and followers. The normal load of an elephant in the plains of India is about fifteen maunds, (a Madras maund is 25lbs.) but in the course of the Looshai Expedition, it was found that on very difficult ground the elephants, though picked, were unable at times to move along with more than five or six maunds burden. It has therefore been decided that in the Tonghoo battery the ele phant loads should consist of four boxes only of ammunition, of the approximate weight of seven maunds, and that cradles be made to carry six boxes, with which number the load will be raised to about nine maunds, whereby fewer elephants with suitable loads for ordinary country will suffice for the transport of a somewhat lar ger quantity of ammunition. The cradles are to be constructed so as to carry only six boxes, because, whatever the loads carried by the elephants, there must be a separate establishment for taking the guns and ammunition into action, for elephants have not been found to go into or stand under fire. In the heavy field batteries of this Presidency, and whenever guns are transported by means of elephants, an esta-blishment of bullocks is maintained for fighting the batteries, and in this case also there must needs be an establishment for the same purpose, and therefore it is not necessary to restrict their loads to what may possibly be esrried over the most difficult and impracticable kind of country, The number of rounds per gun will be 150. The ammunition boxes are to be of teak instead of leather because wood is the most durable in a damp climate, where leather imtib;s moisture and gets mildewed and rotten.

Advices from India represent that cholera has broken out among 50,000 pilgrims assembled at Poonah for the Juggernaut festival.

The floods in the North of India have subsided. Southern districts are still without rain. The little that has fallen in some sections has done no good.

Servia has sent concluding proposals to Constantinople. It is said the Porte is negotiating with the Khedive for auxiliary troops in case of an emergency.

# RIFLE CONPETITION.

To the Editor of the Volunteer Review.

DEAR SIR,—The following is an account of 'No. 1 Company (P.W.R.) annual rifle match held yesterday at Point St. Charles ranges. I may say that the great drawback to rifle matches is the very meagre allowance of ammunition by Government.

Yours truly,

E. W. Modou, Capt.

OPENING MATCH.

TRanges-200, 500, and 600 yards; five shots at each.

Ranges-200 and 500 yards; five shots a each.

1st Prize \$5 Pyt. Thom.
2nd "Stewart.

Montroal, 23rd July, 1874.

The Castalia, called the "twin ship." The invention of Capt. W. T. Dicey, late master attendant of the port of Calcutta, has been launched in England. She is 290 ft. long, and consists of two half hulls, divided lengthways, each 17 ft. beam, built 26 ft. apart, and joined by strong girders, which form the framework of a superior strecture 183 ft. long and 60 ft. wide, extending to the outside of either hull, and affording ample space for saloons and other necommodations. The engines are of 260 horse power (neminal); one will be placeed in each hull, the paddles working in the intermediate space between them. Both ends of the steamer are alike, and fitted with double rudders, thus obviating the necessity of turning in harbor. The main object of Capt. Dicey's invention is to provent the trolling motion which is the principal cause of sea sickness.

states that the wheat harvest is in great progress in the southern counties of Indiana and the reports in almost every instance indicate the crop to be of more than usual yield and quality. The Chicago Tribane has reports from 165 stations in Illinois, thirty-two in Iowa, twenty in Michigan, and two in Indiana, along the lines of the Chicago, Burlington Quincy, Alton, St. Louis, Illinois Jentral, and Michigan central rail-roads, giving the latest information as to the state of the crops. From these reports it appears that there will be a large increase in the corn crop over that of 1873. The wheat promises well, and will yield an average crop. Oats will probably fall slightly below the average yield. Other grains are doing well and will afford an average yield.

The Provinzial! Correspondenz, a semiofficial organ, congratulates King Louis on the establishment of the most cordial relations between Bayaria and the other States of the German Empire.

Algerian papers fear trouble with the natives is impending, having heard that 10,000 muskets and 500 cwt. of powder ar imported across the Tunisian from really.

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# The Volunteer Rebiew,

# MILITARY AND NAVAL GAZETTE.

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

OTTAWA, TUESDAY, JULY 28, 1874.

To Correspondents.—Letters addressed to either the Editor or Publisher, as well as Communications intended for publication, must, invariably, be pre-paid. Correspondents will also bear in mind that one end of the envelope should be left open, and at the corner the words "Printer's copy" written and a two or five cent stamp (according to the weight of the communication) placed thereon will pay the postage

LIEUT. J. B. VINTER, of Victoria, is our authorised Agent for Vancouver Island, British Columbia. As is also Captain H. V. Edmonds for New Westminster and adjacent country.

In a recent issue we called the attention of our readers to an article in the Edinburgh Review for April, on the "Hydraulics of Great Rivers." We now propose to give such extracts from that article as will enable them to appreciate the magnitude of the water system so elaborately described in M. REVY's memoir; as well as to decide on the claims which that gentleman may have to the honor claimed for him by the Review. of throwing a flood of light on what it holds be an obscure subject. Of the Parana the review r says. "Second only to that regina fluvorium the Amazon, the Parana and its affluents from the main outfall of a

vast triangular area bounded by the Andes on the West, by the Southern water shed of the basin of the Amazon on the North, and by the Mountain chains and ridges that flank the Atlantic coast of South America on the East. From the Delta of the Amazon to that of the Plata, a range of thirty-five degrees of latitude, the rivers that enter the Atlantio derive their waters from a succes sion of broken and interrupted versants(the total area of which is but small compared to the great Central district with its numerous ramifications), the unevaporated rainfall of which tends to the estuary of the Plata. The basin of the Amazon, with its embouchure lying on the equator itself attracts, a heavior rainfull than that which visits any other portion of the surface of our planet. But its area is inferior to that of the watersheds conveying on the Plata. It is the greater depth of the equatorial rainfall that the superiority of the volume of the Ameron, as compared with that of its Southern sister, must be principally attributed."

The Review proceeds to give some de soription of the regime of the main river at d its affluents, from which we learn that "the estuary f the Rio de la Plata is nearly seventy geographical miles wider at Monte Video, Trending from the North West in a distance of 150 miles at narrows irre gularly to a width of about thirty miles. At this point the broad, deep channel of the Unegay lying on the Meridian makes a f r. more imposing show, as far as the map is concerned, than do the two less variable streams, or rather river rouths, by which, under the names of Larana Guazau and the Parana de las Palmas, the mighty central flood stealing through its own delta for a distance of sixty miles enters the common firth."

The Uruguay, however, appears to be a colossal torrent. It is lowest in December. At 200 miles above its mouth it passes through a natural canal known as "the Corralito." At this point it is 145 feet wide, has a current of six feet dee, flowing at the rate of five miles per hour. High water occurs in September and October, and it attains an elevation of forty five to fifty feet above low water,

Vessels drawing fifteen feet of water can ascend the Parana to the town of Rosario. about 350 miles above the junction of the La Plata with the Atlantic. The section of the river thirteen miles below the town shew a width of 4.787 feet at low water, the depth gradually increases to seventy-two feet at a distance of 1,100ft, from the right bank; thence it rapidly shallows to about twelve feet and rises gradually to the foot of a vertical cliff forming the right bank of the river. The flood rise is ordinarily twelve feet, and the area of cross section is 243,000 square feet, the low water 184,858; at times of ex ceptional rise the depth of high water has been increased to twenty-four feet over low water.

The Review now claims for M. REVY the discovery of what it is pleased to call "a new aspect of the great hydraulic law of the proportion of our ent to depth," and "that this rate is at all events approximately represented in this instance by the ratio of the squares of the depth." Further on he says, "We labor under the disadvantage that the most important discovery made by M. Revy in the pursuit of his very elaborate survey, that of the law o the relation of depths and currents, was arrived at late in the course o his observations. The observations are sufficient to show the inaccuracy of the ordinary mode of calculation, and thus to prevent us from attempting to guage the flow of a river by taking any per centage of the surface velocity as the mean velocity of the stream. Unfortunately, however, they are not sccompanied by those measurements of the bottom current which their very experience shows to be so needful. It is therefore or ly approximately that we can estimate from the details before us the low water flow of the Parana at six hundred times that of the Uruguay."

It is very evident from the above that the survey of the Parana was the first river on which M. REVY's talents were exercised because, in the first place, there has been a well known rule deduced from careful experiments and confirmed by all authorities on hydraulies, by which having the observed superficial velocity of a st. eam the bottom vel ocity can be culculated and the mean velocity deduced As we presume from this that all the velocities given are merely superficial, we shall show in the second place that if the velocity per mile of the Parana had been stated, as it has been in the case of the Uruguay, no difficulty could have been experienced in getting at the exact comparison of the volume of both rivers. At the Corralito, the latter river is said to be 145 feet wider, 6 feet deep, flowing at the rate of fire miles per hour, or 440 feet per minute. Then the bottom velocity must be 396 feet per minute, the mean velocity 418 feet, and the discharge through the Corralito 383 660 (three hundred and eighty three thousand six hundred and sixty) cubic feet per minute. Six hundred times that amount would give for the Parana 230, 196,000 (two hundred and thirty milion one hundred and ninety six thousand) cubic feet per minute; and taking its sectional area at 184,858 superficial feet its mean velocity must be over 1245 per minute, or more than fourteen miles per hour. Astounding as those results appear they are nothing in comparison to the following: "We have before seen that the volume of the Uruguay in its ordinary annual flood is more than five fold its summer votume. But the increase of velocity according to M. Ravy's measurements will be in a ratio of more than 70 to 1. The movement of water line indicated is appreciably greater than that of the ordinary flow of the Parans." Uruguay has an ordinary velocity at the

Corralito of five miles per hour, its velocity at flood is therefore 350 miles per hour—that is if velocity means the rate at which water flows in a river.

At this rate the Uruguay may well be call ed a great torrent as it flows at the rate of 30,800 feet per minute, whereat water rush ing over the Ningara Falls attain a rate of only 3,000 feet per minute. Certainly South America is a land of wonders. One more extract and we have done with the descriptive part of what is quite as wonderful a book as the natural phenomena it describes: "The first great affluent of the Parana above its confluence with the Paraguay is the Yduszu, a great river of the first order which falls into the former in latitude 25 degrees 0 minutes South. Nearly 400 miles further North the Rio Pardo, another great river is an affluent, and beyond little is accurately known. We must take leave of this noble stream by a reference to the falls of Guaira, about 700 miles above Corrientes, which are of a character calculated to inspire even the Spanish American visitant with wonder and with awe. The width of the Parana above the falls is about 4,500 yards. This great width is suddenly contracted into a narrow channel of from seventy to eighty yards, bounded by vertical wells of granite, against which the current breaks with indescribable fury. There is no vertical fall (as at Niagara), but a descent of about fifty feet, down which the river rushes on a plane inclined from fifty degrees to the horizon. The con cussion of the water against these walls and against rocks which project in the middle of channel form volumes of vapor which can be seen for many leagues, and on which no cording to the position of the sun and of the spectator, numerous rambows become visible. A continuous rain from the condensation of the up borne apray falls in the neighborhood. The thunder of the cataract is heard at a distance of thirty mtles. At three miles distant it is difficult to hear the human voice. Nearer to the fall it is impossible to distinguish any sound except that caused by terrific concussion of the waves. The earth trembles, and the vicinity is desolated by the terror of the scene. Settlements in the neighborhood having been abandoned in consequence of the deafness that was occasioned in the whole population by the constant thunder of the river,"

WE copy today an article from the Volun teer News (English) of 10th June, entitled "Our Recruiting Makeshifts Fallacies" - in which the whole question of Army Organiza tion is ably handled, as well in its political, economical, as its social aspects. O r contemporary tells his countrymen a few suit lime truths, that all the Pharasaical cant or political economical humbug the world has yet seen cannot alter, and it will be well for the future not only of Great Britain but of her great dependencies that her people will awake from slumbering in the fools par- respective troops; at Wagram, the French | the United States Naval Academy, says

adise to which they have been lured by Peace Societies and their cognate humbugs.

In only one essential particular does the picture drawn suit us, it is that we do not pay the soldier the full value of his service; but as our military force is not absolutely abstracted from the labour market, this error, for it is nothing else, will be eliminated from what is otherwise a complete organiza tion, in conception at least. The whole ar ticle however is one which should be studied with the attention its importance deserves.

His Majesty the Czar and His Majesty the KAISER have each a "manifest destiny," founded on a traditional policy, to work out .. in the furtherance thereof they are not particular as to the means, provided the end is accomplished. An "International Congress" has been called at Brussels by some of those goody-goodies whose absurd and mischievous interference with political developements they could not possibly understand, has been productive of such mischief already; and for Great Britain at least, pro mises to be so disastrous in the future. Their plan on the present occasion is the sentimental cry of humanity; but it has leaked out that the Czar and Kaiser are the real projectors of the movement, and are using their tools in order to neutralize any advantage England might derive from her wealth and mechanical power in the coming contest, for which both parties are prepared; and the English Premier declares to be nearer than is anticipated.

The ostensible object is to prevent the use of explosive projectiles in small arms; but in reality it is to tie the hands of the great est manufacturing power in the world, while those amuble monarchs and their slaves parcel it out as they think fit.

It appears by recent discussion in the Imperial Parliament that the little game is understod, and no concession of the kind will be made.

"The Borsenzeitung says it is feared in military circles at Berlin that the forthcoming International Congress at Brussels, Engtand will not be disposed to make any im portant concession as to the use of explosive projectiles in time of war. It has been as certained that, in 1868, when a similar meeting was held at St. Petersburg, the English Government ilistructed its represontative to be very careful in avoiding any measure which would be calculated to hinder the improvement of weapons used in war fure, adding that England cannot torego the advantages it has hitherto derived from her superior mechanical skill and inventive spirit in this respect. At the same time re ference was made to a statistical report prepared in the French War Department, from which : appeared that the losses of armies in battle since the introduction of arms of precision and long range guns have beca relatively much less than when the old-fashioned artillery and muskets were in use. In the battle of Friedland, for instance, the losses of the French were lourteen per cent., and of the Russians thirty per cent. of their

lost thirteen per cent., and the Austrians fourteen per cent.; at Moskowa, the French thirty three per cont., and the Russians forty-four per cent.; and at Waterloo, tho French thirty-six per cent., and the Allies thirty per cent. Forty years later, when the new arms had been introduced, the loss of the French and Austrians was seven per cent. each only; while at Solferino, the losses of the French and Sardinans were ten per cent., and of the Austrians eight per

THE following valuable article on the subject of the advantages of military drill is taken from the United States Army and Navy Journal of the 4th July. It deserves careful consideration, and as a rule a met. sure of drill should be adopted in all public school as a part of the gymnastic exercises necessary for the proper training of chil-

"The subject of military drill in colleges is up at present for discussion, the newly awakened attention being caused mainly by the recent revolt at Bowdoin. of this fact the report of a select committee, which consisted of the Hon. Alexander H. Rice, John Cummings, and Edward Atkin son, has just made a report, earnestly recommending the continuance of the system of infantry drill, but saying that the artillery and cavalry practice, however desirable in an institution thoroughly military, and necessary to the professional soldier, aronot compatible with the appointments of the institution, nor consistent with its purposes and objects The report says:
"In the opinion of your committee, the

value of military instruction and discipline is by no means to be estimated alone by their possible relations to a state of war, when the citizen is transferred into the soldier. Such instruction has great and peouliar value as an educational and disciplinary agency, and as a sanitary exercise of the highest type. It cultivates habits of neat ness, order, precision, quickness of thought, and action, and absolute obedience with those must first learn who are afterward fit to comman I. It inspires a maily and chivalric spiri', gives ease of carriage and movement, develops muscular energy and endurance, and stimulates the intellectual powers by kindling all the vital forces into health, activity. If, therefore, education be interpreted as a process of developing the intellectual faculties, as well as a mode of receiving and classifying knowledge, it is believed that mi itary tactics compare most favorably as a branch of study with certain branches of mathematics, and with many other studies which especially engender ncentration and persistent Military practice is certainly habits of concentration and application. superior to eit'ier in the particular that it If we blends recreation with acquisition. mistake not, the course of study in the national military academies are as difficult of accomplishment as are those in the average of American colleges, and yet they completed in as many months as the college courses, nothwitstanding students in the former are subjected to frequent and protracted military exercises duly. And testimony is abundant to prove that the time employed in the military drill is more than accounted for in the increased mental activity and energy which it produces. a letter to the chairman of this committee, Rear Admiral Worden, Superintendent of

"The average time assigned to the drill of each student during the scademic year (eight months) is seven hours por week This includes the time occupied by all seamanship, great guns, field artillery, boat howitzers, infantry, fencing and boxing exervises and dress parades. Bosides these exercises, those members of the Fourth Class, who enter in June, are practised in gymnastics during the summer months, three hours every week, and in swimming every morning. The third class has instruction in gymnastics about three hours per month; and all the classes are invited and encouraged to use the gymnasium for exercise during recreation hours. The average time assigned to drill in infantry tactics does not exceed two hours par week throughout the academic year. . . . . As to the amount of drill which can be profitably employed in such a school as the Massachusetts Institute of Technology, for the purposes of exercise, discipline &c., I am of opinion that one hour per day could be so appropriated with great advantage to the physical culture and men-tal development of the students. . . . . 1 have always been strongly impressed with the necessity of bodily culture as the true complement of mental development; and I know of no readier and more congenial method of obtaining a good result then the practice of military exercises, in the full meaning of that term. For in that sense what 18 called military training—a kind of training which is but a small part of a military education, and which ought to be common and not peculiar to soldiers and sai ors- is to be valued not only in a muscular point of view, but as generating habits of just sub-ordination, of manly self-control, and of neatness and good order in person and personal property."
"Admiral Worden also refers in his valu-

able letter to an elaborate article on "Physical and Military Exercise in Public Schools—a National Necessity," contributed by Gen. Edward L. Mollineaux of New York, to Barnard's "Military Systems of Education," first published in 1862, and revised in 1872. In this article we find the following

suggestions:

The influence of health upon the facul ties of the mind is acknowledged by all, and yet how few in this country devote attention to those important exercises which are necessary to the preservation of health, and without which intellectual power cannot be applied to its highest use. The talents, the experience of our best educators of youth are taxed to devise exercise to develop the mental faculties, forgetting that too close application to study is detrimental to the What, then, is growth of the body. . the most simple, fessible, and useful plan to adopt for physical exercise in our col leges, normal, and public schools? We unhesitatingly reply that the only success. ful, orderly, and sytematic method is to en graft hem upon the course of studies during school hours, and to carry it out under strict military discipline; the exercise being such as are best suited to the ages, strength and capabilities of the pupils, namely, calis thenics and walking for the girls and younger children, and military exercises for the elder boys "

High English authority is cited in support not only of the gractice of infantry tactics in schools, but even of cavalry drill for the middle and higher grades. The Vice Chancellor of Oxford testifies that the institution of the systematized exercise of the volunteer drill in the mental labors, and of the whole of the order and discipline, as wellas of the health of the university. Hon.

Joseph White, the present experienced Secretary of the Massachusetts Board of Education, and also a member, on the part of the Commonwealth, of the corporation of this institute, says:

Let the drill be regular and compulsory, taking the place of the very irregular and insufficient physical exercises now taken, and our colleges would be vastly improved in their educational power, and the Commonwealth would, in a short time, have a numerous body of educated men, well skilled in military science and art, who will become teachers in our lower grades of schools, and in our military companies and associations, and competent when the alarm is sounded, to lead our citizen soldiers to the field."

The following official report is the embodiment of the opinions of the United States "Board of Engineers for Fortifications" on the official report of the Board of Officers appointed by S. G. O. No. 108, H. C. O., May 21, 1873, a Gatling Guns of large calibre for flank defences," which has appeared in former issues. This last is copied from United States Army and Navy Journal of the 4th July.

Office Board of Engineers for Fortifications. Army Building, New York Feb. 3, 1874.

GENERAL

The Board of Engineers for Fortifications having examined the report referred to them by your endorsement of January 23, 1874, of a special Board of officers upon the introduction of the Gatling gun for flank detence in fortification, have the honor to submit the following views thereon. The experiment firings with the Gatling gun compared with those of the Sinch howitzer and 24pounder Napoleon are clearly set forth and fully discussed by the officers conducting these firings, and this board concurgenerally in their deductions and conclusions. White a good flank defence of most of our forts may not require the introduction of the Gatling gun, its use as an auxiliary in special cases may be desirable.

The fire of canister, 440 bullets at once, his the effect of a volley, and the first discharge may completely break an assaulting colomn. This volley effect of the howitzer is in part made up by the continuity of fire of the Gatling, and the combination of the two, the latter filling up the intervals between the volleys, would seem to be superior to either singly, unless the howitzers gives a rapidity of fire approaching continuity.

The Gatling requires fewer gunners for its service, and there are some small works where the garrisons may be quite limited on the breaking out of war necessitating the economy of men in the service of the pieces. These guns on the ramparts in such works, would supply the place of a large number of soldiers. In many of our works the strength is su erabundant, and either system of flank defence will doubtless be suffi-Before determining to what extent cient. the Giling may be introduced as an auxiliary, it will be necessary to take up our permanent work scriaton and discuss the probabilities and nature of the attack, and decide therefrom it my change in the flank guns will be required. From their position and strength many forts will need no change. In the more exposed works, Hon. especially in the cases noted by the

| hoard, the Gatling will doubtless aid flank | defence.

2d. This board give it as their opinion that a number of Gatling guns may be effectually used on the parapet of works, as being more accurate in their fire at a distance upon reconnoitring parties, both by land and water than field artillery, or pieces in position, or even musketry, and they can be served with less exposure. Many of the barbette batteries that have been recom mended by this board are isolated and unsupported by permanent works. Some small keeps will probably be built to pro-tect them. The Gatling gun will be found efficient in these keeps to clear the advanced batteries if attacked by boat or store parties with a view to spiking the guns, and will sweep the approaches to such batteries. Further, the Gatling gun will prove very serviceable in firing into the embrasures of ironclad ships that approach within 1,000 or 1,200 yards of a fort. For these various purposes it will be perceived that each fort may use judiciously a number of Gatling guns, and their utility may be further developed when once introduced into service. The study of each fortified position should be made before determining, even in a general manner, the number of such guns needed.

Though concurring generally in the deductions of the special board as to the utility of the Gatling gun in many positions, a thorough discussion of our forts may show, as before stated, that only a limited portion of them will need the auxiliary assistance of the Gatling gun for an excient flank defence. Its efficiency in field works, not only for flank but for direct fire, seems un-

questionable.

The report of the board on Gatling guns, with letter of transmittal, are herewith returned, (in separate package, by mail).

Respectfully submitted.

J. G. BANARD,
Col. of Eng. and Byt. Major Gen.
Z. B. Tower,
Lt.Col. of Eng. and Byt. Major Gen.

Lt.Col. of Eng. and Stt.Major Gen. H. G. WRIGHT, Lt. Col. of Eng and Stt.Major Gen. Brig. Gen. A. A. Humphreys, Chief of Engineers, U. S. A., Washing

ton, D C.

The Prefect of Cuenca announces that thirty-four bodies of Ropublicans, murdered by the Carlist, have been found in a house in that town, mutilated so horribly, as to be unrecognisable.

The Epaca says that Don Carlos invited Cabreera to accept a position in his army, and that Cabreera replied that he would never make common cause with cannibula and fanatics.

The Impareial says that Senor Camacho, Minister of Finance, has informed the Council of Ministers that he has sufficient funds on hand to arm 125,000 reserves, and to meet the ordinary requirements of the State until next September.

The Imperial Parliament has voted a yearly pension of \$757,000 to Prince Leopold, youngest son of Her Majesty.

The Times correspondent telegraphs from Paris, that the Marquis of Castellars will move for the prorogation of the Assembly to day, and that the motion will probably be carried, as the Government will accept it.

A special despatch from Berlin to the Times says, the Prussian Government have sent eight detectives to Kissengen to protect Bismarck,

# CORRESPONDENCE.

The Editor does not hold himself responsible for individual expressions of opinion in communications address to the Volument Review.

go the Editor of the Volunteer Review.

Sir,-The marksmen of New Brunswick desire to know how the "Wimbledon! Team wore selected this year. It appears that Ontario and Quebec have represented of Europe within the last fifteen years, wick far ahead of any other Province. tunes. It is unwise, and far from economical, placed four on the Team. Our marksmen by the way they were treated.

MARKSMAN.

Mount Fordham, July 15th, 1874.

say that, the Secretary of the Dominion of Canada Rifle Association, Lieut.Col. STUART, sent to the President of each Provincial Rifle Association throughout the Dominion a Circular, embodying the Resolutions passed at the last annual meeting, which we here transcribe :-

RESOLUTION No. 1,—That the Presidents of the Provincial Riflo Associations be requested to send in each, a list of names to the Secretary of the Dominion Rifle Association, from which the selection of 20 marksment to represent the Dominion. Hifle Association at Wimbledon, next July, is to be made. The list to be sent in not later than the 21th day of May next, to contain the names, distances, dates, and places of matches, with scores made in 1873; also rank, occupation, and status of each competitor, and his assent to go to Wimbledon if selected. The list to be signed by the Secre ary of each Provincial Association, and countersigned by the President. Said list to contain not more than 18 names from each Province. RESOLUTION No. 2,—That for the present year one member for the Wimbledon Team shall be selected from British Columbia, and one from Manitoba; and only eighteen from the remaining Provinces. The selection from British Co umbia and Manitoba to be made upon the recommendation of the Provincial Associations of these Provinces

rinces

RESOLUTION NO. 3 FOR SELECTION OF WIMBLEDON TRAM NEXT YARR.—Unanimously Resolved,
that 'he Presidents of the Provincial Rifle Associations be requested to arrange for a composition
match of three days, for the selection of marksmen from whom the twenty to be sont to Wimbiedon are to pe chosen, and that the 'eretury
of each Provincial Rifle Association sends to the
Secretary of the Dominion Rifle Association at
Ottawa, the names of eighteen competitors with
their scores made at Wimbledon ranges and targets, seven shots without sighting shots, each
day, at each range. The List to be accompanied
by a Certificate from the President of the Provincial Rifle Association, and to contain in addition
to the names and scores, the date of meeting,
rank, occupation and status of each, with the assent of each compositor, that if selected he will
be ready to go on the date to be named.

The List to be sent to the Secretary of the Dominion Rifle Association not later than the 3ist
December.

In accurdance with Resolution No. 1 the

In accordance with Resolution No. 1 the President of the New Brunswick Rifle Association was requested to send in to the Secretary, by the 24th of May last, the names of eighteen of the best shots in New Brunswick but only ten names were returned and out of these two only were found eligible, namely, Captain Annold and Corporal fools. No wonder that men would not such moment will only lead to graven Pallen.

Serve their country but for a bribe; but it pacts.—The Volunteer News, June 10th.

#### OUR RECRUITING MAKESHIFTS-FALLACIES.

The absolute failure to maintain the res gular army from the want of recruits, notwithstanding the repeated attempts of the War Office to deny or gloss it over, is again forcing itself upon our military authorities and on parliament. The enormous increase which has taken place in the standing armies the whole Dominion, and New Brunswick renders it necessary that, along with our and NovaScotia have been ignored. Take the spinning and mining, we should provide average shooting of the Teams that have gone some of our population to keep watch and Wimbledon and you will find New Bruns- ward, while others build up the national for-When the marksmen were elected by com- to fold our arms and sneer at the "trade of petitive shooting, New Brunswick always war." As well discared our policemen, and throw our most sacred treasures open, withwere practicing all spring in anticipation of out bolt or bar, to the tender mercies of the a match, and have been greatly disappointed accoundrel and the plunderer. Nations have ever risen to eminence and maintained their position in proportion to the power and courage they had to win and protect their conquests, whether in the stricken field of war or industry. The world has not changed a whit in character through all the In reference to the above we have only to ages of blood and battle and the cycles of commercial activity that have dawned and passed away among the nations. The sling and stone may have given way to the bow and arrow, and these again may have become playthings in the presence of modern rifles and 80 ton guns, but the spirit that directs the necessity for such alternatives has only become intensified and enlarged by the advancement of science and the progress of mankind in material comforts. We fear—in fact, we may as well say, we know—that our military impotency, so far as it exists, is due to a set of puling humanitarians, who, for upwards of a generation, have swarmed among us, and who dreamed dreams of ease and comfort without struggle, and wealth without the conquest of hard labour, and all to be maintained and en joyed without the fear of deprivation or put in jeopardy by the greedy eye of covetousness. War was to cease-but, strange to say, as to the army was left despised hated, and neglected by these goody goodists, they burdened the people with hosts of con-stables, as if they had discovered that the evil spirit of nations had taken refuge among the civic body politic. Mechanics' institu tions were to reform the world, and the abstruseness of newspaper-studies was to usher in the millennium. The arts of pro duction were elevated as emanating from the divine standard, and the science or making money was held to be the first and al'autscrbing worship fit for the deity. Uf course almagiving was enjoined in the way of taxes, and poor rates as the sublimest piety, while the great end of man-and eke of women too—was to vote for members of parliament. The world rolled on, and the earth-quakes of war rumbled in far-off regions, and the dream grew into a night mare of trades' unions and miners' strikes, and the servant pitted against master, and musters howling at the ingraticade of ser vants. The noble spirit of self sacrifice-or performance of duty even at risk and losswhich had mimated preceding generations, produced those herein and chivalric deeds which glorify the history of our race, was laughed to scorn as weekness, and banished from among us as the unprofitable work of

has actually taken more than one generation to emusculate our people, for even yet there is among us a martial and an energe tic spirit which only requires to be let loose in the proper direction to save all still. It is not, however, to be expected that our youth, after such teachings, will enter the list of our national defenders for thirteenpence a day, when a collier's boy may drink champagne, and defy the wishes of the na-tion for warmth and heat. The makers of personal wealth should not forget that, while they incaease their own store, those who labour with and for them have a fair right to a due share; and if that claim is not satisfied, it will be demanded by strikes and other social and industrial dislocations. The immediate workman has managed to make himself heard and our soldiers can only do so by ceasing to be--but the pressure of the scarcity of military labour can only be felt when our regiments cease to be maintained, and young men turn away, in the spirit of the age, to more profitable sources of employment. Our enlistment system is radically defective, take it as you may and it may now be a very difficult thing to keep up a sufficient military force for the emergencies of war under the old system. We hold that, whether the army is supplied by compulsory service or by our present nondes. oript plan of enlistment, it matters little in the end to the nation at large in a monetary point of view. One hundred thausand men's labour in the army is abstracted from the ranks of industry, whether by enforcement or enlistment, and the valve of that labour is exactly the same, by whatever means it is acquired; so that all the raving about the loss to industry and so forth is only the purest bosh. We firmly believe that we are approaching a new era of military service in this country, apart from that of our present system. The question has been moving Parliament, and Lord Sandhurst, on Monday week, referred to the falling off in the obtainment of proper recruits, and moved for the returns on the subject, which were granted. The sages of the Military Departs ments have turned eager looks to the Militia to help them out of their difficulty, and even have tried to meamerise them into the Army by various incantations. All, however, will not do; and the only result has been to-increase the evil, by actually placing the Militia service in the recruiting field as an opposition to the Army. Make the Militia what it constitutionally at the moment is—a service of the people and from the people—retain the Volunteer force on its present constitutional basis, and the Militia will become what our military statesmen have failed otherwise to make it-a freeder to the Army, and that too of a better class than they now obtain, while the expense to the nation, either in coin or the withdrawal of men from industry, wall not be one what increased. A more manly and courageous spirit will be developed among our whole population; and by a wholesome accquaintance with military discipline and system in their youth, our population will become as loyal, and true, and patriotic, as ever was exemplified by this or any other nation of modren or of ancient times. We have again and again referred to this question of recruiting, and the persistence of the military authorities in jumping from plan to plan, and regulation to regulation, to fill the anks of the Army with men or boys, has ever been to us a proof that every attempt to temporise with a question of such moment will only lead to graver as.

#### THE RUBY AND THE ROSE.

He was the lord of Merlintower,
And I was but of low degree;
She had her beauty for her dower,
Nor other treasure needed she;
He came, when hawtherns were a-flower,
And strove to steal my love from me.

Oh I she was sweeter than the wind That bloweth over Indian isles; As April bright, than June more kind, Fawn-wild, and full of winsome wiles. And I, also, had learned to find My only life beneath her smiles.

He sent my love a ruby rare,
That might have graced imperial brows.
Nogom id I. To deck her hair
I sent her—but a simple rose
And prayed her, on a night to wear
The gift of him whose love she chose.

"Come, queen of all my heart's desire!
Crown me or slay! My soul is stirred
To challenge fate. My pulses tire
Of fear's chill tremour. Slugs the bird
Of hope for him who dares aspire?"
A lover's scroll, and wild of word.

We watched her coming, he and I.
With utter dread my heart stood still.
The moon's wan crescent waned on high,
The nightingale had sung his fill.
In the dim distance seemed to die
To echo of his latest thrill.

The flower-trailed gate, our tryst of old, Gleam'd whitely neath the clustering bloom Of the dusk-starring Jasmine. Cold Hisshadow fell, a glastly gloom Lurked where it lay. Oh heart o'er bold! Hast thou but hastened utter doom?

A'still cold smile slept on his face,
That all my hope to auguish froze
Then, in the silence of the place,
We heard her flower-pied porch unclose,
And—in her hair's silk-soft embrace,
There nestled warm a ripe-red rate! All the Year Round.

# ARMY ORGANIZATION.

(By General George B. McClellan.) (Continued from page 317.)

In the German service the compositon of field music. a company of infantry is as follows:

	Peace Footing.	War Footing.
Captain. First Lieutenant. Second Lieutenant. Second Lieutenant. Feldwebel (orderly Sergeant) Porte-epee Faharich (non-commissioned officer in the line of promotion to 2nd Heutenant). Sorgeants Under-Officers(corporals) Musicians Lance-Corporals & re-enlisted men Hospital Stoward. Artificers. Privates. Aggregate, including com'ed officers. Total, not including com'ed officers.	12 12 13 99	1 1 3 1 1 1 4 21 1 202

The organization of a company of infan try in the French army does not differ materially from that of the United States service, except that there are eight corporals, and that the privates are divided into two

The company of English infantry is sub stantially like our own.

On the war footing the company of infan try in the United States service generally crasists of one captain, one first and one second lieutenant, six sergeants, four corpo ruls, two inusicians, one wagoner, and about eighty five privates; but we have no fixed organization, as every thing depends upon the caprice of each Congress, and nothing with regard to our army can be regarded as fixed and stable.

In another connection will be explained the interior arrangements of the company for the purposes of discipline and adminitration, as well as the systems of tactics applied to the large and small companies rospectively.

The Battalion.—As already stated, this is the next higher tactical unit to the company, and is made up of from four to ten companies. The average war strength of a battalion is about 1000 men, although it is in some cuses as low as 600. In the Ger man army the battalion consists of four companies of about 250 each; in the Russian, of five companies of 180 each, making the strength of the battalion 900 men; in the Italian army, of four companies of 150 each; in therAustrian army, of 930 men, in four companies; with the French, eight com-panies for the infantry of the line, and ten for the battalions of chasseurs; with the En. glish, and in our own army, of ten companies each. In regiments consisting of more than one battalion, each is commanded by a field officer of lower rank than a colonel, i.e., sometimes by a licutement colonel, generally by a major, and in the French service by a "chief of battalion." There is always attached to the battalion commander a staff officer, designated as battalion adjutant, who is usually a lieu-tenant, but in the French army a captain. As will hereafter be explained, it is the especial duty of the adjutant to keep the records, make the various details for duty, and transmit the orders of his chief. In the German army one or more supernumerary officers (captuins or lieutenants) are some times attached to the battation staff, and there is also a paymaster, two or three surgeons, and an armorer.

In all services there is a battalion sergeant major, who is the assistant of the adjutant, and generally a chief of the battalion

Subject to the conditions already mentioned when treating of the strength of the company, it is quite certain that, for all the purposes of discipline and of service in campaigns, the battalion of four strong companies is far preferable to that made up of eight or ten weak companies. The battalion commander has only four subordinates to whom it is necessary to give direct orders, and explain his wishes and intentions, so cant there is far less danger of mis understruding and confusion; and it is so much easier for him to exercise the proper supervision that the battalion is much more easily handled, and becomes far more effect tive. With this organization the battalion resolves itself readily into the natural division of one company as the advance, two as the main body, and one as the reserve.

In most European services the so-called rilles, or foot chasseurs, have no higher organization than that of the battalion. Now that all the infantry are armed with rifled wenpons, the denomination of "rifles" has ceased to be distinctive. These troops now consist of men selected for their activity. intelligence, and skill as marksmen, and are employed in preference for the work of skirmishing, and any service requiring po cultur endurance, activity, and marksman ship. But as rifled breech loaders are now in general use by all the infantry, and as the tendency of the times is to instruct them in all target practice and symmetric exercises, and to employ a loose or skir mishing order of formation very extensively the distinctive rifle battalions are no longer so important as formerly, and it is not un reasonable to suppose that their number regiment as this demands the possession of

will be decreased, and that in many services they may disappear ontirely. In armies, however, where the mass of the infantry are lacking in intelligence and education, and in the qualities which are needed to form good light troops, there will still be a demand for battalious of picked riflemen. rifle companies are in some services a little stronger than those of the line, and in that case have a few more non-commissioned officers. In the Frencharmy the rifle battalions have ten companies instead of eight; in the German army they have four companies.

While on this subject it may be said that the progress of the present is toward simplification in all parts of an army. The numerous subdivisions of infuntry into guards, grenadiers, fusiliers, musketeers, voltigeurs; light infantry, rifles, etc., are rapidly disappearing, although in many cases the names are still preserved, without involving any essential difference in organization, arms, or The Prussian Guards, for exequipment. ample, are still composed of picked men, and have a stronger peace organization than the rest of the army, but their arms, etc., do not differ from those of the other infan try regiments. The distinction of regiments as grenadiers, fusileers, and musketeers in the German army is simply nominal. The value of a corps d'élite, with picked men and glorious traditions, will always be felt in battle, but it must never be forgotton that these magnificient corps, such as the old Imperial Guard of the First Empire, have too often been formed at the expense of fatal injury to the other corps, Ly deprive ing them of their best soldiers, so that, in the opinion of many competent judges, such organizations are productive of far more harm than benefit. In the present state of the military science, and with the modern weapons, it seems undeniable that corps d'élite are objectionable, and that the wisest course is to elevate the condition of the army in general by a better education and more thorough military instruction. It is probable that in the not distant future the infantry in all armies will be composed of regiments precisely alike in organization, equipment, wimament, and instruction.

The Reg mint.—This is composed of from

one to six buttalions, In the United States service the regiment has but one battation; in the Euglish army, up to a comparatively recent period, the majority of the regiments had but one battalion, but at the present time a large number, and perhaps all, of the regiments have two battalions; in the German army the regiment consists of three battalions; in France certain regiments of the Guard had four battalions, while the regiments of the line had three; in Austria the regiments have four field battalions in peace, and five in war; in Italy the regi-ments consist of four battslions. The regiment is always commanded by a colonel, assisted by a lieutenant colonel, and some times, as in France, by a major also; he has also a regimental adjutant, paymaster, surgeon, and a suitable number of non-commissioned officers, mechanics, etc. The ex' perience of Continental armies has very clearly proved the great advantages of regiments composed of about three battalions, both as respects service in the field and the ordinary duties in peace. A regiment of three thousand men, organized in turee batinlinis, is readily handled by the colonel in battle, and forms a powerful unit, capable of accomplishing important work and producing decisi e results. It is, of course, to be understood that the command of such a

his work on the part of the colonel. If this fact should be advanced as a reason against the adoption of such an organization, it might be said in reply that an army that could not provide such colonets does not deserve the name of an army, and the sooner it is disbanded the better. The data already given will enable the reader to satisfy himself of the fact that the German organization is by far the most economical in regard to number of officers and noncommis sioned officers; but, at the risk of repetition, it must again be stated that the German system involves the necessity of having highly instructed officers and intelligent and thoroughly disciplined private soldiers.

The Brigade .- This unit is composed of Two or more regiments, depending upon the strength of the latter. In the German army it consists of two regiments, or six bat-talions. In the other Continental services also it consists of two regiments. In the English service and our own there is no invariable rule for the organization of the brigade, which usually consists of four or more regiments. This very important unit is commanded by a general officer who is provided with one or more nides-decamp, on adjutant general, quartermaster, eta.

Before passing to the division organization, which involves in its comnosition other arms than the infantry, it is advisable to explain briefly the chief points of difference between the organization of the infantry and that of the other arms of service.

(To be Continued)

#### OUR FISHERIES.

The report of the Department of Marine and Fisheries, which has just been issued, is a book of 770 pages, full of the most valuable information in regard to the important subjects of which it treats. There is no departmental report which we are accustomed to read with more pleasure and profit than that of the Marine and Fisheries, and we are happy to say that the present one is fully equal, and in some respects superior, to any of its predecessors in point of information and interest. The Fisheries branch of the report, although it occupies the second place in it, we shall deal with the first, as being more within the grast of a single article than that which relates to the Marine branch. ' It is very gratifying to note that our fisheries are steadily increasing in value and importance year by year. The harvest which we glean from the see annually grows larger, and it grows larger, too, without detriment or injury to the fishing grounds themselves. Our river fisheries, by means of careful preservation, are also growing more valuable and profliable.

During the year 1873 the fish products of the Dominion, of which the department received statistics, amounted to \$11,794,975. This included the Province of Nova Scotta, New Branswick, Quebec Ontario, and Prince Edward Island, but did not include the catch of Manitoba, the North West territor ies and British Columbir. Of this amount \$10,722,725 represented the value of the fish products for foreign export and domes tic commerce, exclusive of local co sumption. In addition to this it may be stated that it is computed United Sates fishermen have also caught on the coasts of Canada, during the year from six to eight million these two Provinces amounted to \$1.214. carving and s dollars. The following table shows the rogressive increase in the value of the recensed and about 20,000 tons of canned Golosatchoff.

vears :-

Years. 1873. 1871. 1872. 1870. Nova Scotia ... \$1,010,123 6,570,739 6,016,835 5,577,986 N.Brunswick 1,131,435 1,578,635 1,965,469 2,285,601 Quebec. ... 1,101,651 1,092,612 1,520,189 1,391,661 Ontario... ... 231,982 213,177 207,033 223,016 207,601 207,601 207,601 207,601 itario...... E. Island

Totals ...\$6,577,392 9,455,223 9,570,116 10,754,997 It will be observed that the fish products of Nova Scotia last year w 8 more than 50 per cent. greater than in 1870, and equal to that of the whole Dominion in that year; that the yield of New Brunswick in 1873 was more than double what it was 1870, and incressed \$320,000 between 1872 and 1873; that Quebec continues to exhibit a steady increase, and the Dominion as a whole has made gigantic strides in its fishing industries since 1870:--

The descriptions and value of the fish taken in New Brunswick in 1873 as compared with 1872 were as follows: .

1872 **\$346 035** Codfish. 32 728 Mackerel. Herring, 496,628 Salmon, pickled, 18 846 214,978 fresh in ice, 207,767 .. smoked, " preserved, 280 296 Alewives, 103,514 Cod tongues & sounds 25, 235 Pollock, Hake, Haddock. 15.880 Halibut, Shad. B168, 25,462 882,301 Trout, 6,598 Smelts. 41,851 32,868 Eels. Oysters, 45,480 Lobsters, 346.925 37.674 Oil, Fish guano, 7.237 3,894 Fish for manure,

\$1,965,459\$2,285.661

A great improvement will be noticed in the returns of the Department from an examination of the above table. In previous years only codfish, mackerel, herring and salmon were detailed in the returns, all other fish being grouped together. Now the re-It will be seen that while the yield, both of codfish and horring, was smaller l-st year than the year previous, there was an enor mous increase in the product of salmen, and it is not a little singular that the increase of the salmon fishery of 1873 over that of 1872, amounting to \$320,000 was precisely the amount of the total increase of all the New Brunswick fisheries for the same period. Now Brunswick caught nearly twice as many salmon as all the other provinces combined. The immense product of the lobster fishery, amounting to \$350 000, will, no doubt, sur prise many people, who have been unaware of the rapid development of this special branch of the fisheries. The return from smelts, a fish regarded a few years ago as of no commercial value is likewise remarkable. The return from our oyster beds, though considerable, is small compared with what it ought to be.

Perhaps the most notable feature of the growth of our fishing interests is the large business which has lately sprung up in New Brunswick and Nova Scotia in the canning of lobsters. The lobster catch of 1873 in these two Provinces amounted to \$1,214.

high qualities and thorough knowledge of fisheries of Canada for the last four lobsters exported to the United States maykets alone. The attention of the Govern. ment has been called to the possibility of this fishery being overdone, and regulations made with reference to it which, it is hoped, will prevent the lobster fisheries of Canada being destroyed, as they have been in the North Eastern States A good deal of attention has been paid to artificial fish breed. ing, and the operations at Newcastle, Ontario, last year were very successful. Sal-mon breeding establishments have been started at Tadousac, Gaspe, Miramichi and Restigouche, with every prospect of success. At the Moisie River, on the norh shore of the St. Lawrence, a private under-taking by the lessee of the salmon fishery, has resulted in the reproduction, by artifi-cial means, of a great number of salmon and augmented the yield of the estuary fishings. It is intended, also, to bestow some attention on establishments for the breeding of coarser fi. h, such as shad, alewives and bass, on an extensive scale, and a \$338,699 fish breeding establishment for the repro-32 290 duction of white fish is to be started in the 376 596 Detroit River. The United States are expected to join in this last undertaking. The pains which have been taken by the depart-13,192 ment to increase the productiveness of the 280,296 rivers of Canada, and prevent them from being destroyed by illegal fishing, have had the best results, and many rivers which 64,296 had been absolutely fished out are now free 90 065 quented by salmon. Valuable as our fisher. ies are now, there is reason to believe that 7,644 in a few years they will become infinitely 23,168 | more so, and continue to be, under wise re. gulation, a source of increasing wealth to the country.—St. John Telegraph.

> Stoux Massagne.-Intelligence has just come to hand of the massacre of four per sons by a party of American Sioux on the Pembina river, not far from St. Joe. victims are a brother and nephew of Pierre Delorme, Esq., member for St. Norbert, and a man named Baptiste Morin and his wife. We have not been able to glean any further particulars of the strocity, but believe that Col. Yard with a detachment of U.S. troops has gone in pursuit of the murderers. also understand that Col. French has offer ed the services of a detachment of Mounted Police, but are not in a position to say wher ther him offer has been accepted. We trust, showever, that the blood thirsty cut throats may be speedily brought to just tice, and that no harbor of refuge may be found for them on our side of the border .-Manitiba Gazette.

> The Derjava, in which the emperor of Russia made the voyage to England, was haunched only two years ago, and this was her first voyage of any length. She is entirely Russian built, and cost £450,000, the engines and steam launches being built at the Government ironworks at Colpina Her designer compared the lines of the Futoria and Albert the L'Aigle (once the Empress Eugenie's yacht), the Mahroussa (the Victory of Egypt's swift and splendid steamer), and the Standard (the Czar's former yacht), and endeavored to combine the good points of these vessels in one hull. The Derjava, it is said, steams, well enough, though not very smittly; she has a somewhat lumber ing lock, and scarcely seems to sit upon the water with the grace of the Victoria and Albat, nevertheless, she is a spleifdid vessel, and is beautifully fitted up with wood carving and stuffs of old Russian style and patterns. She is commanded by Captain

#### THE WIMBLEDON PEAM.

THE VOYAGE-ARRIVAL AT LIVERPOOL-MATCHDS AT ALTOAR.

Hightown, 2nd July, 1874.

On Saturday, the 20th of June, the Canadian Toam mustered on board the Circassian at Quebec. Lieut. Col. Macpherson was present on behalf of the Dominion Rifle Association, and, in a brief address, formally handed over the command to Lieut. Col. Gilmor. At 10.20 the steamer moved slowly away from the wharf, the band of B Battery playing "Auld Lang Syne" from the ramparts of the Catadel in compliment to Major Montizembert, second in command.

The voyage passed very pleaently until Monday morning, when we encuntered the worst fog Captain Wylie had ever experienced. It lasted without a break for sixteen hundred miles, and from Sunday to Satur day the officers were unable to take an observation. When it commenced we were near Cape Race, on the coast of Newfound. land, and being in the direct track of inward bound vessels, there was great danger of collision with some of them. Until we passed the Banks the whistle sounded every few minutes and the lead was kept con stantly going. For four days and nights Captain Wylie never had his boots off and spent almost the entire time on the bridge. Once we passed a vessel so close that the voices of the sailors shouting to each other could be distinctly heard, but she herself was quite invisible. Fortunately no accident occurred, and the only result was a loss of about awenty hours. In every other respect the passage was a pleasent as it nos-sibly could be, and at ten o'clock on Wednes day morning, the Team disembarked at Liverpool.

Immediately on arrival the following challenge was placed in the hands of Col. Gilmor:

"CASTLE ST., LIVERPOOL,

"29th June, 1874.

"DEAR SIR,—I am requested by the Shooting Committee of the Liverpool Rifle Brigade to ask for the p'easure of a friendly match with the Canadian Team for Wim bledon under your charge during their stay at Altear-twenty men a side and at Queen's ranges. I do not know whether a sufficient number or targets could be go of the new Wimbledon pattern, but I shall be at Alter on Wednesday, and this part of the programme could then be arranged. I propose Friday evening for the match, as I understand that the 1st Lancashire Rifles wish to have a match with the Team on thursday. I may add that my regiment has had a similar match with each of the previous teams.

"I am, dear sir, yours faithfully, m, dearsn, Journald WILLIAM COOPER, "Captain,

"Hon. Sec. Shooting Committee, " Liverpoot Rifle Brigade."

The Team left for Hightown by the 12 35 train, arriving about 12.55. Hightown con sists of the railway station and the hotel. The latter is kept by Abraham Thomas, and is as nice a little place as one could desire to stop at. From the bay window of the dining room can be seen a charming piece of English country scenery, with the farm houses, fields of waving grain, cattle, hedges, &c., and the spires and domes of Liverpool in the distance. The landlord and

their rooms and engaged in donning their uniform for the first practice, Col. Gilmor and Major Montizambert having gone ahead to the ranges to make the necessary arrangements. William Upon the return of the officers all sat

down to a genuine English dinner of rosst beet and plum pudding, digestion being aided by a glass of "bitter." Before the first course was removed a messenger was announced as desiring to see Col. Gilmor. On being ushered in, he handed the following challenge:

BIRKENHEAD, July I, 1874.

"To the Officers Commanding Team of Canadian Volunteers.

"DEAR SIR,-On behalf of the 1st Bat talion Cheshiro Rifle Volunteers, who have had the pleasure of shooting a match with their brother Volunteers from Canada for the past three years, I have to ask that if possible you will again meet us at Altcar before going to Wimbledon for a match at Queen's Ranges. If you will arrange with bearer and accept your ammunition from us you will much oblige.
"Yours faithfully,

" WILLIAM LOWE,

"Captain Ist Cheshire R. V." The matter was taken into consideration by the Whole Team, and it being the unanimous opinion that one day at least was necessary to lose the motion of the ship and get into something like form, and, there-fore, no challenges should be accepted for Thursday, the messenger was informed that the Canadians would be happey to shoot the Ist Cheshire at any time on Friday, previous to the match with the Rifle Brigade, or would shoot them at Wimbledon, scores in Queen's prizes to count, or simultaneously with the Rifle Brigade, provided that the latter had no objection. He intimated that he thought the latter proposition would be most acceptable, and left promising to send an answer to day.

By way of making the practices more interesting, matches were made up on board ship. It was found that there, were ten officers and ten N. C. O. and men, ten men over five feet ten and ten under, ten over one hundred and sixty pounds' weight and sen under, ten smokers and ten nou som kers, &c., and as the men were looked upon as pretty nearly equal, the results were looked forward to with interest.

The first fire was between the officers and the rest of the Team, and resulted in a victory for the officers by fifty eight points, the score standing 621 to 563. On the winning side the highest scores were made by Mason, Morgan, and Macnachtan, who got 78, 77, 74 respectively. For the losers Pallen, Bailhe and Disher made 76, 65 63. The next was between the heavy and light weights, and resulted in the heavy fellows winning by 36 points, the best scores for the winners being made by Disher, Mac pherson and Sutherland, who got 77, 69, 65, respectively, and for the others, Pain made 6, Gibson 66, Wolfenden 60. In the after noon the short men beat the tall by nearly the same points, the score standing 639 to 5v4.

According to the new style of marking a bull's eve counts 5, a centro 4, an inner 3, and an outer 2. The inner is signalled by a black and white disc, the others remain as before. Atthough a point has been added etc, in the province of Cuenca, delivering to the value of the centre and bull's eye 700 of the prisoners taken by the Carlists at they have been reduced so much in size Cuenca, and capturing eight officers of that a score does not run up so rapidly as his buxom wife similed a welcome at the door, and soon the Team were told off to following comparison:

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200 yards.
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O.	d marking.	ven m	ai King.
Bull's eye	8 in. square	8 in.	circle,
Centro	. 2 feet	16	••
	Nono		
Outer	. 6 ft. by 4 feet.	40	••
•	500 YARDS.		

Old marking. New marking. Bull's eye.... 2 ft. square.... 22 in. circle. Outer..... 6 ft. square. .. 70 ..

The differences will be more perceptible by comparison of areas, which is as follows:

#### 200 YARDS.

Old marking.	New marking.			
ft. in.	ft in.			
Bull's eye 61 Centre 4.	Bull s eye 50 Centre 1. 57			
Inner	Inner 4. 39			
Outer 24.	Outer 8. 104			
500 ₩	RDS.			

Old marking.	New marking:				
Bull's eye 4.	Bull's eye. 2. 90				
Centre 16.	Centre 7.126				
Inner	Inner 15, 130				
Outer 36.	Outer 26. 104				

From this it will be seen that the centre is not one half as large as it was before, and that an inner is about as good as a centre was, while the whole target has been reduced about two thirds at 200 yards, and one-third at 500 yards.

The targets here are of the old kin l, with the new rings painted on them. At Wim. bledon they will be canvas covered with

It is felt by the Team that too short a time is allowed for practice at Altear, After so long a sea voyage and want of proper exercise it requires a few days to get into their old form, and it is a matter worthy of being considered by the Council of the Dominion Rifle Association whether future teams should not be sent a steamer earlier than has been customary. " nen would have time to recover themselves, and a few friendly matches with the battalions in this neighbourhood would put them on their mettle and send them up to Wimbledon in the best of trim,

I have just heard that the match with the Rifle Bettalion and the let Cheshire has been satisfactorily arranged for to morros afternoon. I will give full particulars in my next.-Toronto Mail.

Madrid, 22nd.—Gene 1 Zibala has sen eight battalions of troops to reinforce the Republicans in the Province of Cuenca. The Carlists are in strong force in the province of Aloria, between Miranda and Vit

Brig. General Pints has defeated a detachment of Don Allonso's army at Salvan Cuenca, and capturing eight officers of Alfonso's staff, with a considerable quantity of arms and baggage. The Carlist lass it killed, wounded and prisoners, was heavy.