

army of soft or cast iron, unless the position of the length is at a right angle to the line of the direction of the earth's magnetic force, are possessed of magnetism which is as permanent as that of the earth's, whilst it retains the same relative position to that of the earth's line of force; but it changes its magnetism when it changes its relative position. The earth's line of magnetic force is inclined to the magnetic north or south of the horizon according to the number of degrees of "dip." Thus in London at the present time, the freely suspended magnet points 19 deg. west of the true North Pole or earth's axis, and is depressed below the horizon about 67 deg., which last named angle is denominated the dip; at Liverpool the dip is now about 59 deg 30 min." The iron of which a ship is constructed acquires a certain amount of magnetism with her head in one direction which is changed, when the direction of the ship's head is changed, and is reversed when the ship's head is reversed. The percussion produced by riveting the various parts of the ship together causes the magnetism of an iron ship to partake more of the character of permanent magnetism. Still this subpermanent magnetism undergoes a considerable diminution by being submitted to percussion with the ship's head in a different position to that in which it was when she was being built, and especially if in the contrary direction. Many an iron vessel has been stranded and even lost by having been sent to sea with the full amount of magnetism acquired in building. She had been masted, equipped, and subjected to percussion in the graving dock, in each case with her head in a similar direction as it had been when building. Then when proceeding on her first voyage, with her head in a different direction, a considerable reduction in the amount of deviation has resulted, and when this has not been discovered previously to entering a narrow channel, under any circumstance that obliged the mariner to depend principally on his compass for directing his course the safety of the ship has been jeopardized, even if she has not been wrecked. The navigation of the Gulf of St. Lawrence is very dangerous, and, perhaps a larger number of steamers have been lost there than in any other locality. One reason for this, though not the only reason, is that a very large number of the steamers engaged in this trade have been built with their heads in the direction calculated to increase this peril to a maximum, and no compass adjuster can so compensate the deviation as to avoid this source of danger. Nor can any master-marine insure the safety of his ship if built with her head in the wrong direction, especially if on the first voyage: we must look to the naval-architect, who advises the company on all matters connected with the building of a ship for such a service, to arrange that her head shall, while being built be in such a direction as will incur the least possible amount of danger.—*U.S. Army and Navy Journal.*

The new army reorganization in Russia is making progress very slowly. The question whether the corps or territorial system should be adopted in the military reform has been settled by accepting five military districts instead of the usual fourteen out of the great military commission, thereby retaining its territorial system. It is said that the solution of this question is a victory of the Minister of War, Miljutin, whose position was very precarious, and whose fall would have been inevitable had the corps system been preferred.

RIFLE COMPETITION.

The Company Matches between the members of No. 3 Company, Governor General's Foot Guards came off at the range on Saturday. There was a very good muster of the men considering the threatening aspect of the weather at two o'clock, but fortunately the rain ceased, and the clouds disappeared just in time. The very high winds which prevailed all the afternoon rendered it almost impossible to hold on the targets. Notwithstanding these disadvantages, the shooting was very good at 200 and 400 yards the men making an average of "outers" at those ranges. At the 600 yards from the top of the hill, the wind was blowing half a gale, and consequently, the shooting fell off considerably spoiling the aggregate scores of the best shots.

At the conclusion the prizes were presented to the winners by Lieut. Lammont, as follows:

- 1st prize—Ten dollar Gold Piece, Lance Corp. Hughes.
- 2nd prize—Field Glasses and \$4 Sgt. S. M. Watters.
- 3rd Prize—Meerschamm Pipe and \$3 Bardsm in McEwan.
- 4th prize—Flask and \$2, Private B. Williams.
- 5th prize—Box of Cigars, Private J. Stratton.
- 6th prize—Box of Cigars (given by R. Gilpin, Esq.) Pte. R. Watt.
- 7th prize—\$2 Pte H. Brooks.
- 8th prize—\$2 Col. Sgt. Harper.

In addition to these prizes, Lieut. Corporal Hughes won a Silver Cup to be given by Mr. McIntyre, for the highest score at 200 and 600 yards.—*Times.*

PROVINCE OF QUEBEC RIFLE ASSOCIATION.

(By one of our correspondents—Compiled from Page 359)

3RD MATCH—2ND STAGE Pts.

1st. Capt. Thomas	23
2nd. Lt. Whitman	22
3rd. Pte. Brazeau	21

COMPETITION IV.—PRINCE ARTHUR STAKES.

Open to all members as in competition Number 1. First Prize, \$25; 2nd do. do, \$20; 3rd do. \$15; 4th do, \$12.50; 5th do, \$10; 10 prizes, each \$5; 5 do, each \$4, \$20. In all 20 prizes. Snider rifle; Government issue. Range, 200 yards. Number of rounds, seven [7]. Entrance, 50 cents.

There were 176 entries for this match. The following are the winners and their totals:

Corp. Anthony, G.T.R.	25
Mr. Little, T.R.C.	24
Pte. Martin, 79th.	24
Capt. DeBoucherville, O.G.A.	24
Capt. Short, B Battery.	24
Lt. Hodge, 79th.	24
Sgt. Blackhall, M.G.A.	24
Lt. McNaughton, Cobourg G.A.	24
Sgt. Duncan, 54th	24
Pte D. Mitchell, 13th	24
Pte. May, G.T.R.	24
Capt. Wall, G.T.R.	24
Lt. Balfour, 8th.	24
Pts. Matthewson, 3rd.	23
Corp. Clayland, 51st.	23
Sergt Turnbull, G.T.R.	23
Pte. J. Ferguson, G.T.R.	23
Sgt. Henekans.	23
Ens. Trihey, G.T.R.	23
Lt. Kincaid, 4th.	23

COMPETITION V.—BATTALION MATCH.

To be competed for by five officers, non-

commissioned officers, and man of any volunteer regiment in the Province of Quebec having affiliated with the P. of Q. R. A.

1st prize, one presented by Lord Lisgar, late Governor General of Canada, and cash	\$40
2nd prize	50
3rd prize	15
Highst individual score	10
Second	10

Long Snider Rifle; Government issue. Ranges 500 and 600 yards. Number of rounds at each range seven. Entrance, 50 cents. No one can compete in this match unless six months a member of the corps he represents, and resident in this Province for the past six months at least.

There were 13 battalions entered for this match, and as usual in all such matches, the competition was very keen. It will be seen by the annexed scores that the 1st and 2nd G.T.R. are keeping up their reputation.

1st Battalion G. T. Rifles.

	500 yds.	600 yds.	point
Major Under	17	22	39
Private May	18	23	41
Private Blair	20	20	40
Sergt Major Gough	22	22	44
Sergt Metcalf	19	14	33

2nd Battalion G. T. R.

			197
Sergt Turnbull	22	18	40
Pte Dade	16	19	35
Lieut Wall	21	17	38
Ensign Trilvey	25	17	42
Pte Ferguson	20	15	35

54th Battalion.

			190
Lieut. Col. Hanning	18	16	34
Q. M. Cleveland	20	20	40
Sergt Duncan	22	21	43
Sergt Shaw	18	11	29
Capt. Thomas	17	22	30

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The 1st Brigade G. T. Artillery were only one point behind for 3rd place on the list.

INDIVIDUAL PRIZES.

1—Lieut. Campbell, 3rd V. V. R.	44
2—Lieut. Major Gough, 1st G. T. R.	44

COMPETITION VI.—MONTREAL STAKES

Open to all members as in competition No. 1. 1st Prize, \$30; 2nd do, \$20, 3rd do, \$15; 4th do, \$10; 10 prizes, each \$5, \$50; 6 do, each \$4, \$24. In all, 20 prizes. Snider Rifles; Government issue. Ranges, 600 yards. Number of rounds seven [7]. Entrance, 50 cents.

There were 152 entries for this match, the shooting was as good as could be expected, as the wind blew in puffs across the range from left to right during the competition.

Lieut Macnaughton, C.G.A.	24
Lieut Le Suenr, 8th	24
Sergt Hill, 1st	23
Mr Doudet, T.R.C.	23
Sergt Wynne, M.G.A.	23
Mr Strnhouse, M.G.A.	23
Pte Brazeau, 3rd V.V.R.	23
Capt Atkinson, G.T.R.	22
Gunner Hoyty, M.G.A.	21
Lieut Harris, O.G.A.	21
Corp Clayland, 51st.	21
Captain Thomas, 51th	21
Mr Shaw	21
Mr Crail, T.R.C.	21
Pte D Gordon, 51st	20
Bugler Norris, 8th.	20
Lieut Boyd, G.T.R.E.	19