THE CANADA FARMER

IS PUBLISHED

ON THE 15th AND 30th OF EACH MONTH,

One Dollar and Fifty Cents Per Annum, FREE OF POSTAGE.

It is sent to Great Britain and Ireland by mail, for six shillings sterling, per annum.

No subscription received for a less term than one year, commencing from the month of January

THE CANADA FARMER is stereotyped so that copies can always be had of back numbers

A limited number of advertisements are inserted at twenty cents per line for each insertion. There are cleven lines in one inch of space. Advertisements under ten lines are charged as ten line advertisemente

All letters and money orders are addressed to THE GLOBE PRINTING CO. TORONTO.

Agents wanted in every town and village in the Dominion to canvass for subscribers Liberal commission allowed. Send for circular stating terms.

The Canada Farmer

TORONTO, CANADA, FEBRUARY 28, 1873.

- twas well on in January before the new series - 12 CANADA FARMER was determined upon-and this editorial and mechanical arrangements for its publication occupied some further time. The first numbers have in consequence, appeared behind time; we shall presently make up the lost space, and
 - ... punctually on our stated days of publication.

ENTOMOLOGICAL SPECIMENS may be sent for ident leation or for information respecting history and ists, to the office of the CANADA FARMER, or ct to the entomological editor, Rev. C. J S. hune, Port Hope, Ontario The postage should by pre-paid. The specimens should be sent in a pasteboard or other box, not loose, but packed with cotton wool, or some similar material. Grubs or caterpillars should have plenty of leaves, and not cotton wool sent with them. The name and address of the sender should also accompany the package. not necessarily for publication, but as an evidence of good faith, and that we may know where to apply for further information, if required.

Farmers' Clubs.

It is a matter of infinite regret that we have so few of these valuable organizations established throughout Canada. There are sections in every part of the Dominion, where first-class farmers are numerous, and capable of throwing a vast amount of valuable light upon the practice of agriculture. Yet, from some cause or other, they have never heartily taken up the plan of holding stated periodical discussions on questions affecting their common interests. This is much to be regretted. On the young men, especially amongstour intelligent agriculturists, we carnestly urge that they take prompt steps, in the absence of any such organization in their neighborhood, to establish and maintain a Farmers' Club, for the holding of stated meetings to discuss practical questions, state their experience of the members; make suggestions, obtain hints, and arrange for concurrent experiments.

It is predicted that in five years, at the present rate of consumption, the Mrine forests will be cleared of merchantable timber. The quant y cut in 1872 ne seven hundred millions of free- of which 225 highest 314 bushels per acre. n.illions came from the Penobecat farcate, and 107 millions from the Kennebec district.

Experiments with Fertilisers.

At the eastern experimental farm, of Pennsylvania, a series of interesting experiments have been made for five years past, as to the effects of various fertilizers on various crops, in comparison with the same crops on the same land without the use of any fertilizer A statement of the results has been given to the public through the columns of the Germantown Telegraph, which will be highly acceptable to agriculturists everywhere.

The statement of Mr. Carter does not disclose the kinds of fertilizers applied to the several crops. It was thought more advisable to state only the cost per ac-e of the fertilizers used; and the crop obtained from that expenditure in contrast with the crop obtained without any expenditure

Ten plots of each crop, if we understand correctly, were tested with different fertilizers. The average cost per acre of the ten kinds is given-and the average yield, the highest yield, and the lowest yield per acro.

With these explanations, let us see the results:-Effects on Grass.

In 1868, the average cost of the fertilizers used was \$9.37 per acro. The weight of hay obtained without any fertilizers, was 3,648 lbs. per acre. With fertilizers, the lowest weight was 3,608 lbs., the average was 4,301 lbs.; and the highest was 4,784 lbs. per acre.

In 1869, the average cost of fertilizers per acre, was \$8; without any fertilizers, the weight of hay was 2.400 lbs.; and with fertilizers, the lowest was 1,904 lbs.; the average was 2,772 lbs.; and the highest was 3.360 lbs

In 1870, the cost of fertilizers was \$8 per acre; without any fertilizers, the weight was 5,568 lbs : and with them, the lowest weight was 5,712 lbs.; the average 5,984 lbs., and the highest 6,336 lbs.

In 1871, the cost of fertilizers was \$8 per acre; the weight of the crop, without them, was 3,040 lbs.; and with them, the lowest was 3,136 lbs.; the average 3,704 lbs., and the highest 4,128 lbs.

In 1872, the cost of fertilizers was \$12.50 per acre; the weight of the crop without them was 1,232 lbs.; and with them, the lowest was 1,168 lbs.; the average 2,912 lbs, and the highest 4,048 lbs.

In 1872, a special experiment was made to test the effects of lime in different quantities on grass with the following results:-

No	Lime.					3,840	Ibe.
50	bush.	Limo,	per acre.		٠.	4,080	11
100	44	41	- "	 ٠.		4,416	**
200	44	44	**	 ٠		4,064	**

Effects on Oats.

In 1868, the cost of fertilizers was \$16 per acrethe crop without them was 12 bushels-and with them the lowest, the average, and the highest were all put about 16 bushels per acre.

In 1869, the cost of fertilizers was \$16 per acrethe crop without them was 57 -and with them 441 tion of the tissues. bushels per acre.

In 1870, the cost of fertilizers was \$10 per acre the crop without them was 43-and with them from 48 to 54 bushels per acre.

Effects on Wheat.

In 1869, the cost of fertilizers was \$25 per acrethe crop without them, was 184 bushels-and with them the lowest was 174, the average 24, and the highest 29 bushels per acre.

In 1870, the cost of fertilizers was \$13.50 per acre the crop without them, was 8 bushels-and with them, the lowest was 7, the average 9, and the highest Il bushels ner acre.

Ir 1871, the cost of fertilizers was \$12.50 per acre -the crop without them was 13} bushels-and with them the lowest was 151, the average 221, and the

In 1872, the cost of fertilizers was \$10 per acrethe crop without them was 164 bushols-and with them avail, but a very great deal can be done in the way

the lowest was 15%, the average 20%, and the highest 261 bushels per acre.

Effects on Corn.

In 1868, the results were fertilizers 8-without them 71 bushels- and with them the lowest 721, the average 74, and the highest 76 bushels per acre.

In 1870, fertilizers \$10-crop without them 44 bushels-and with them lowest 461, average 52, and highest 62 bushels per acre.

It will be interesting to know the kind and weight: of the several manures applied, as Mr. Carter frankly confesses that among them were "many notorious" humbugs which of course reduced the averages."

Quarter-evil.

A correspondent (Mr. A. D. McConnell) writes us from Port Burwell, that his cattle have been attacked by a disease which first shows itself by lameness in the leg and causes death in twenty-four hours. He has already lost four young beasts, and when he opened the carcases he found a great deal . blood and water settled in the parts affected.

We suspect the disease which has proved so fatal amongst your young cattle is what is generally known as black quarter, also called quarter-evil or black-leg. a congestive fever. It is a disease of an anthrax character, and must be regarded as a disease of the blood, resulting from an altered condition of that important fluid, whereby its natural elements are greatly changed. As far as we have had an opportunity of judging, quarter-evil is not a very common disease amongst the cattle of this country. In some parts of Britain, however, and on the continent of Europe hundreds of young animals are yearly lost from this disease, which has been found to result from various causes, as rough coarse herbage common to wet soils, or from the use of very stimulating and nourishing food in large quantities, this is especially the case in young animals that are closel , kept penned up in small places, and allowed little or no exercise, the supply of nutritive material to the blood is much greater than the waste of the tissues, and disease is the result Exposure and an insufficient supply of pure water may also produce the change in the blood that will excite the disease.

Quarter-evil is a disease that runs its course with alarming rapidity after the development of the first symptoms. Usually the first symptoms observed are lameness either in a fore or hind limb, great duliness, and a quick pulse, and these symptoms are speedily followed by those of great nervous debility, it is with the utmest difficulty the animal can move around, and will stagger and fall helpless to the ground. The mouth is unnaturally hot, for a short time, but me the disease advances it becomes cold, the eyes are reddened, and a swelling of the affected limbensucs. If the swelling is pressed a crackling noise is emitted, which is due to an emphysematous state of the subcutaneous arcolar tissue, resulting from decomposi-

The disease is not always confined to the limbs, in fact any part of the body may become affected, but it generally affects those textures which are loose and soft, and where the blood-vessels are not very firmly supported. As death approaches the swellings increase, the pulse is quick and weak, and the extremctics exceedingly cold.

Post-mortem appearances.-When the skin is removed, the blood-vessels immediately under the skin appear full, and from the parts immediately affected there issues a darkenlored and bloody discharge, and if the tissues are cut into they show a gangrenous condition, the belly is distended, and a dark frothy discharge comes from the nose and mouth. Quarter-evil is most common in young animals from six months to three years old, and is seldom met with in milking cows. It is a disease that runs its course so rapidly that treatment in many cases proves of very little