



Synopsis of Canadian North-West Land Regulations.

THE sole head of a family, or any male over 18 years old, may homestead a quarter section of available Dominion land in Manitoba, Saskatchewan or Alberta. Applicant must appear in person at the Dominion Lands Agency or sub-Agency for the district. Entry by proxy may be made at any Dominion Lands Agency (but not Sub-Agency) on certain conditions.

Duties—Six months residence upon and cultivation of the land in each of three years. A homesteader may live within five miles of his homestead on a farm of at least 80 acres, on certain conditions. A habitable house is required except where residence is performed in the vicinity.

In certain districts a homesteader in good standing may pre-empt a quarter section alongside his homestead. Price \$3.00 per acre.

Duties—Six months residence in each of three years after earning homestead patent; also 50 acres extra cultivation. Pre-emption patent may be obtained as soon as homestead patent, on certain conditions.

A settler who has exhausted his homestead right may take up purchased homestead in certain districts. Price \$3.00 per acre. Duties—Must reside six months out of three years. Cultivate 50 acres an erect a house worth \$300.

The acres of cultivation is subject to reduction in case of rough, shrubby to any land. Live stock may be substituted for cultivation under certain conditions.

W. W. COREY, C. M. G.,
Deputy of the Minister of the Interior

Fertilizer

It is hard to make most of the farmers realize that there is a great possibility of them not being able to get what commercial fertilizer they will require this spring. But never the less it is an absolute fact and the wise farmer will take home his fertilizer soon. As if you wait till spring you may not be able to get any. As even now it is very hard to get what you want as transportation is so bad we have only a few more cars of Basic Slag to sell.

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It is a positive fact that there will be a great advance in haying machinery before July 1st. We sell the famous Frost and Wood Mower with 3½, 4, 4½, 5 and 6 feet cutting bar, also the Tiger Self Dumping Rakes, 8, 9, and 10 feet wide, which any boy who can drive a horse can operate. Hay Tedders and Loaders. We have a limited number of Cultivators and weedeers. So place your orders early and Save Money. Extra repair parts always on hand.

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ville sw 31

THE EXPERIMENTAL FARMS REPORT

The first volume of the Experimental Farms Report for the year ending March 31, 1916, contains much information of value to the farmers of Canada. At such a time as this when production means so much no farmer can afford to overlook such information as this report contains when it is understood that it is available for the asking. It represents the work accomplished on the Central Farm at Ottawa and the fifteen branch farms and stations distributed over Canada. Volume 1 contains the report of the Director, which is a general review of the work accomplished, also the reports of the Divisions of Chemistry, Field Husbandry, and Animal Husbandry. Volume 2, not yet ready for distribution, will contain the reports of the Divisions of Horticulture, Cereals, Botany, Bees, Forage Plants, Poultry, Tobacco, Illustration Stations, and Extension and Publicity.

An interesting statement appears in the report of the Director, which deals with the cost of growing certain crops, as follows: Mangels: \$1.55 a ton; ensilage corn, \$1.45 a ton; oats 19.39 cents a bushel and hay \$5.00 a ton. The system of farming represented in these experiments is explained in the report. It is also shown as a result of seven years' experiments that in fertilizing the soil a distinct advantage is shown in the use of barnyard manure alone over commercial fertilizer alone. The experiments suggest the possibility of combining the two profitably when barnyard manure is scarce or high priced. Referring to new strains of grain being produced it is stated that hullless and beardless barleys are receiving close attention with the promise of some exceptional results. Earlier and more productive varieties are being sought for, while new strains of oats, peas, beans, buckwheat and flax, are being tested. These are but examples of the character of the information contained in the 598 pages of this first volume that can be received, without cost, on application to the

Publications Branch of the Department of Agriculture at Ottawa.

Programme of the Annual Meeting of the Nova Scotia Entomological Society to be held at Truro, 2nd Aug. 1917.

11 a.m.—Assembly Hall, Normal College.

BUSINESS MEETING

1—Report of Secretary.
2—Financial Statement.
3—Appointment of Committee on nominations
2.30 p.m. Science Building, Agricultural College.

READING OF PAPERS

Report of the Committee on nominations.

Field Observations in Collecting Lepidoptera.—L. A. DeWolfe.
Life histories of Some Common Aphids.—W. H. Brittain.

Some Advantages of Studying the Pupal Stage.—Miss E. Mosher.
The Work of the Dominion Entomological Laboratory.—G. E. Sanders.

Notes on Crambids.—E. C. Allen.

General Discussion, notes and questions.

7.30 p.m. Assembly Hall, Normal College.

Presidential Address.—E. C. Allen.
The Introduction of the Parasites of the Gypsy and Brown-tail moths and Their Colonization in Canada.—L. S. McLaine.

Note—This is a provincial program and subject to change. In addition to the papers given, Dr. A. H. McKay, Supt. of Education, and Mr. Harry Piers, Curator of the Provincial Museum are expected to be present and will address the members. Come prepared to pay your subscription of \$1.00 per year, which entitles members to the Annual Report of the Society and of the Ontario Entomological Society, also provincial and Dominion reports.

Why take the trouble to dispose of your eggs in small quantities. We can handle them for you in any quantity every week. Will pay the best market prices.

Supplies, Limited, Kentville sw

NOTES ON MISCELLANEOUS PESTS

By W. H. Brittain and G. E. Sanders
(Written at the request of the United Fruit Co's.)

THE ZEBRA CATERPILLAR

A black and yellow striped caterpillar appeared in the turnip patches last year, doing great damage. This caterpillar, known as the Zebra caterpillar, was heavily parasitized last fall and it was thought that it would be of little importance this season. Unfortunately, however, it is now beginning to appear in a number of places feeding on a wide range of plants, including turnip, rose, apple, ash, etc. As the insect has two broods it is very probable that a serious outbreak will develop this season.

As the caterpillars, on first hatching, feed in groups or bunches it will pay to send a boy over field at this time and when the second brood appears to pick off the infested leaves. If too late for this the turnip plants should be dusted with anseate of lime, or Paris green diluted with lime as for potato beetles. Do not fail to watch for this pest. There is every indication that it will prove serious.

The Potato and Corn Stalk Borer.

A pinkish caterpillar with a brown or reddish brown head has been very much in evidence this season boring in evidence this season boring in the stalks of potatoes, corn, rhubarb, etc. Our studies on this insect show that it deposits its eggs on couch grass or other weeds growing in the garden in the latter part of August and September. The caterpillar appears the next June, bores its way into the stalks of docks, horsetails and various cultivated plants, and there feeds until full grown, when it enters the ground and transforms to a pupa. It remains in this state for about three weeks, finally emerging as a brown colored moth, that deposits the eggs for the next year's brood.

From the habits of the insect it is obvious that it cannot be attacked by any insecticide when inside stalk. In a perennial plantation, such as rhubarb, clean cultivation should be practiced during Aug. and Sept. to force the insect to go elsewhere to deposit its eggs. The bad outbreaks in gardens are due to planting on land that was allowed to grow up in weeds the previous season, giving the insects an opportunity to develop and deposit their eggs. When it is intended to plant a piece of ground to garden crops the next year every effort should be made to destroy plants that would be likely to harbor the insect, by careful plowing, cultivation, etc. As an added precaution, plants infested this season should be gathered and burned when the caterpillars are still inside the stalk.

The Fall Webworm.
A white moth is now appearing in large numbers laying flat greenish masses of eggs upon the leaves of apple and other plants. From these will soon hatch a hairy grey caterpillar that will spin an ugly web, over the tree, beneath which shelter it will feed upon the leaves, gradually extending its field of operations until the whole tree may be involved. Apple growers should keep a sharp watch for this pest and immediately they are noticed the webs should be cut off and burned, otherwise a great deal of harm will be done.

TUSsock MOTHS.

From present indications both species of tussock moths will be numerous in some localities. It is hoped that our spray calendar for this year and growers have heeded the warnings in have not neglected to add poison to their last summer spray.

POTATO BEETLES

The potato beetle infestation is very uneven this year, some localities having prospects for a bad outbreak, while in others the insects are comparatively rare. In any case poison should be added to the first spray with Bordeaux and to the second as well, if necessary. Arsenate of lime, arsenate of lead or arsenate of zinc may be used with safety as substitutes for Paris green and all are effective if applied in time. Use arsenate of lead (paste) at the rate of 3 lbs to 40 gals. water, arsenate of lime 1½ lbs and arsenate of zinc 1 lb to 40 gals. Those strengths are for the young grubs; if allowed to become over half grown, stronger mixtures are required.

WANTED — Ten tons Prime Old Hay at \$5 per ton. Address Box 378, Kentville. In-ox

BROOKLYN CORNER

Miss Logan of the Sanatorium staff and her brothers lately Professors in Purdue and Depaw Universities, Ind., who are now taking a lieutenants course at Aldershot for overseas service, were the guests of Mr. and Mrs. R. C. Bligh on Sabbath last.

Miss Lila Rockwell who has been teaching at Edmonton returned home on the 11th inst. She was accompanied by her sister Gladys and little nephew Jack who joined at Quebec.

Miss Margaret Collins nurse, at the Provincial Sanatorium, who has been spending part of her vacation at her home, is now in Halifax visiting her sister Mrs. Boutillier.

Mrs. H. Logan is spending the summer with her sister Mrs. Bligh.

The little children of Mr. and Mrs. W. B. B. Rockwell are suffering from whooping cough.

Mrs. D. H. Eaton, of Kentville, was spending a few days last week with Mrs. E. C. Bligh.

This is to certify that fourteen years ago I got the cords of my left wrist nearly severed, and was for about nine months that I had no use of my hand, and tried other Liniments, also doctors, and was receiving no benefit. By a persuasion from a friend I got MINARD'S LINIMENT and used one bottle which completely cured me and have been using MINARD'S LINIMENT in my family ever since and find it the same as when I first used it, and would never be without it.

ISAAC E. MANN,
Metapedia, P. Q.

August 31st, 1908.

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