

A Reliable Firm.

Our readers will please observe the new advertisement on the back cover, of the Messrs. Burditt & Co., of St. John, N. B. This firm has long held the confidence of the farmers of the Maritime Provinces, and justly so, for the goods they sell are reasonable in price and exactly what they represent them to be.

The Colt Stakes.

The following have made second payments in the colt stakes, inaugurated by Jas. A. Fraser, New Glasgow, to be trotted this fall:

TWO YEAR OLDS.

- J. L. Cox, Canning, b c Loyola.
- A. L. Slipp, Truro, b f Melbourne Queen.
- N. Lee, Truro, b f Ethel B.
- J. C. Mahon, Truro, b f Adrain.
- H. Townsend, New Glasgow, ch f Preceptress.
- A. B. Etter, Amherst, b g Dexter.
- George Gordon, River John, b f Amanda.

THREE YEAR OLDS.

- Jas. Loughhead, Truro, ch f Annie L.
- L. D. Winsor, Halifax, ch f Ada King.
- J. W. Cox, Truro, br c Rambler.
- J. H. McKay, Truro, b f Salol.
- Jas. Gibson, Brooklyn, br c Resolution.
- A. Lamphier, Halifax, br m Rose Lee.
- R. C. Sharp, Amherst, blk g Sir Charles.
- H. Townsend, New Glasgow, b f Dorris.
- G. A. Andres, Amherst, b c Hon. Edward Blake.
- A. C. Bell, New Glasgow, b f Dinah.

FOUR YEAR OLDS.

- A. L. Slipp, ch c Sea King.
- W. Horriel, Charlottetown, b f Lady Pilot.
- Jas. Dover, Truro, blk m Maud M.
- N. Lee, Truro, blk c Hermit.
- H. Townsend, New Glasgow, b m Camilla.
- H. Murray, New Glasgow, ch c Heck.
- J. L. Cox, Canning, b c Clayson.

But four of the original entries have been declared out—Doughnut, Appellor and Gammon's colt in the two year old stakes, and Emma F. in the three year old stakes. The next payment becomes due August 1, and nominators are reminded that unless the payment is

made on or before that date, their entry will be considered declared out, and they forfeit both previous payments. The races will take place late in August or early in September, on the track which offers the best inducements.--Ex.

From the first publication of this journal the advertisement of Messrs. W. Bell & Co., organ manufacturers, Guelph, Ontario, has appeared in its columns. It is a well known fact that the BELL ORGAN is found in farmer's houses all over the Maritime Provinces, and all those who have become purchasers invariably express their admiration for them, which generally induces their neighbors to place themselves also in a position after the day's work is over, to listen to the sweetest of music.

Popular and Economic Entomology.

THE MEDITERRANEAN FLOUR MOTH (*Ephestia kuhniella*, ZELLER.)

BY JAMES FLETCHER, OTTAWA.

During the summer of 1888 considerable anxiety was caused amongst North American millers by the alarming intelligence that the small Pyralid moth, bearing the name given above, had made its appearance in one of our large Canadian milling centres. There are two or three well-known insects which attack manufactured cereal products; but none of these, have ever occurred in injurious numbers in Canada. When, therefore, it was learned that a large warehouse, twenty-five feet wide, seventy-five feet deep and four stories high, had been completely over-run by the caterpillars of a new insect, which had infested all the flour and other manufactured foods therein contained, and had rendered much valuable machinery temporarily useless, it naturally caused much excitement lest the pest should spread to other mills; nor did this excitement abate when it was announced that the new comer was the same species as had been causing so much loss and trouble in English and European mills during the last ten years. The attack was so severe that it became necessary to close the mill where the outbreak occurred, and also to destroy a large quantity of goods.

The insects in all stages were to be found in every part of the building. The cocoons were found adhering to the walls, joists, shelves and ceiling. Every crack or nail hole in the wood-work, machinery and furniture throughout the whole building was found to contain caterpillars or cocoons, and the moths were flying about in thousands. The attention of the Ontario Government was called to the matter in August last, and, under instructions from the Hon. Charles Drury, the Minister of Agriculture, prompt and vigorous steps were taken by Dr. P. H. Bryce, Secretary of the Provincial Board of Health, to ensure the extermination of so dangerous a visitor, which has been described as "the scourge of the Mediterranean ports." Dr. Bryce's investigations and the methods he adopted have been published in Bulletin I. of the Provincial Board of Health. This pamphlet, which is written in a clear, intelligible manner, and is illustrated with figures of the insect in its various stages, will certainly be of great use to millers in showing them how to recognize and wage war against the insect should they meet with it upon their premises. Other valuable sources of information on this subject are Miss E. A. Ormerod's article in her Twelfth Report (pp. 66-72), and Prof. Riley's article in "Insect Life" (Vol. II., pp. 166-171). The object of the present note is to draw the attention of our readers to the subject, so that the gravity of the case may be recognized and prompt advice sent either to our Society or to the Ontario Government in case of further outbreak occurring in other parts of the province. The perfect moth is a slender species about half an inch in length, with the wings folded close to the body when at rest. The upper wings are of a leaden grey colour, more or less sprinkled with black scales and crossed by three waved dark lines, two near together at the tip and the other a little nearer the shoulder than the middle of the wing.

To be continued.

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