

The Markdale  
STANDARD

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**BUSINESS DIRECTORY**

R. J. SPROULE, Conveyancer, Appraiser, Valuator and Money Lender. Deeds, Mortgages, Leases and Wills drawn up and Valuations made on shortest notice. Charges very low. Apply to R. J. Sproule, Flasherton.

**LEGAL.**

P. McCULLOUGH, Barrister, Solicitor, etc. Office, Main street, Markdale. Money to lend.

**MEDICAL.**

DR. J. W. LEACH, Practicing Physician, Rocklyn, Ontario. Phones:—Markdale exchange, 112-21 (215 pd.) Meaford exchange, 213 v. 24.

**DENTISTLY:**

DR. J. A. MacARTHUR, Dentist. Office in Artley Block (over Bowes hardware store). Entrance at south-west corner of building, Toronto street.

**L. G. CAMPBELL**, (L.D.S., D.B.S.) Dental Surgeon. Graduate of Ontario College of Dentistry and University of Toronto. Office over the post-office. Office hours 8 a.m. to 5 p.m. Appointments made by phone.

**FRATERNAL.**

A. F. & A. M.—Hiram Lodge, No. 490, G.R.C. Markdale, meets in Masonic Hall, McFarland Block, on Tuesday evening or before the full moon every month. Visiting brethren cordially invited. T. H. Reburn, W.M.; S. A. Morrison, Secretary.

C. O. C. F., No. 399.

Markdale Council, Canadian Order Chosen Friends, No. 399, meets second Monday in the month in Haskett's Hall, at 8 o'clock. A Jackson, Chief Councillor; Herb. M. Irwin, Recorder.

**AUCTIONEERS.**

B. H. WALDEN,

Licensed Auctioneer for the County of Grey. All sales promptly attended to. Farm sales a specialty. Arrangements for sales may be made at Standard Office or B. H. Walden, Markdale.

C. D. CARRUTHERS

Licensed Auctioneer County of Grey. Reasonable terms. Satisfaction guaranteed. One £1 or 2s, or write. A.R. No. 2, Markdale, Ontario. 20c.

**Cook's Cotton Root Compound.**

A new, refined product, containing 20 per cent. of cotton root, and a gross of strength—No. 1, \$1. No. 2, \$2. No. 3, 50c per box. Send all mail orders direct. Prepaid on receipt of price. Free pamphlet. Address: THE COOK MEDICINE CO., TORONTO, ONT. (Toronto, W.M.)

20c.

VOL. 41

MARKDALE, ONT., WEDNESDAY, SEPTEMBER 13, 1923

Established in 1875

## Farm Crop Queries

CONDUCTED BY PROF. HENRY G. BELL

The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and crops.

Answer all questions to Professor Henry G. Bell, in care of The Standard Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received.

When writing kindly mention this paper.

As space is limited it is advisable where immediate reply is necessary that a stamped and ad-

dressed envelope be enclosed with the question, when the answer will be mailed direct.

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E. J.—Would like advice in regard to a piece of swamp. It has always raised large crops until the last four or five years. About all it will grow now is sorrel and a small fuzzy grass and smart weed. I plowed it last summer after cutting hay and kept it worked all fall. I plowed it again this spring and planted it to corn about the first of June, but the corn is not doing anything. What is the trouble?

Answer.—I cannot tell exactly what is the matter that you do not get a better growth on your swamp soil but would suggest that it may be for one or a combination of the following reasons:

(1) Your swamp may not be sufficiently drained, hence the water standing in the soil will prevent deep rooting such as is natural to corn.

(2) Your swamp soil may be very sour, hence impossible to corn. I suspect this is partially the cause of your trouble since sorrel thrives on sour soil. It usually does well on sour soils. To test out your soil for sourness, get a few sheets of blue litmus paper from your druggist, and bury this paper 4 to 6 inches in the soil at different points. When you dig it up in about 20 minutes, if the paper has turned pink it indicates sourness, or the need of lime. If it is the case apply lime at about 1,000 to 2,000 lbs. per acre, putting it on any time this fall or early spring.

(3) Your swamp soil is strong in nitrogen, weak in phosphoric acid, and very weak in potash. Now corn requires a large amount of potash and considerable phosphoric acid and potash. Hence it will be necessary

to fertilize the wheat to meet winter. Use at least 200 to 300 lbs. per acre of a 2-10-2.

T. H.—I have a 10-acre field to sow to wheat. It is a heavy clay soil and was in oats this season. What is the best fertilizer to use as I have only a small amount of manure.

Answer.—On your soil, for fall wheat I would advise a 2-10-2 or 2-12-2 at 250 lbs. per acre.

for you to apply 300 to 500 lbs. per acre of a fertilizer carrying 10 per cent. phosphoric acid and 8 per cent. potash before you can expect good crops on corn or potatoes.

My advice to you would be to seed your swamp land to red top grass and alsike clover, and use higher ground for general crops.

R. F.—Please give some advice for destroying cabbage worms. We have tried ashes and this doubled the amount of worms.

Answer.—Spray your cabbage with Paris green or lead arsenate, 1 lb. of Paris green to 150 gallons of water or double the amount of lead arsenate.

There is no danger of human poison-

ing because the cabbage grows from

the centre out, and the outer leaves

are always removed in preparing the vegetable for cooking.

K. A.—Can you give me the right dates for sowing wheat in various parts of Ontario, to avoid the Hessian fly?

Answer.—It is advisable to wait as late as possible in sowing fall wheat, so as to avoid the late brood of Hessian fly. Usually the middle of September will accomplish this. It is necessary to fertilize the wheat liberally to get sufficient head-growth to meet winter. Use at least 200 to 300 lbs. per acre of a 2-10-2.

T. H.—I have a 10-acre field to sow to wheat. It is a heavy clay soil and was in oats this season. What is the best fertilizer to use as I have only a small amount of manure.

Answer.—On your soil, for fall wheat I would advise a 2-10-2 or 2-12-2 at 250 lbs. per acre.

### Fertilization of Field Crops.

A careful study of bulletin No. 8 of the Dominion Department of Agriculture, should prove well worth while to every farmer. It treats of fertilizers for field crops, describes their nature, functions and methods of application, and gives results obtained at the various Dominion Experimental Farms and Stations, which include about all the soils and climatic conditions of the country. The first three chapters deal with the influence that those three necessary ingredients, nitrogen, phosphoric acid and potash, have upon the soil and on particular crops in different localities. Chapter four treats of mineral and organic fertilizer materials; chapter five of manure with fertilizers and lime; chapter six of farm yard manure and green manuring; and chapter seven treats of the nature, origin and uses of fertilizer materials. Chapter eight explains the value and proper uses of lime in its various forms. Chapter nine supplies formulae for fertilizers and home mixing mixing, and chapter ten describes the fertilizing needs of grain crops, potatoes, turnips, mangel-beets, corn, timothy, clover, alfalfa, flax, tobacco, vegetables, fruit, etc. Every chapter is of obvious value to tillers of the soil, but the last three contain information of an especial nature which no farmer can afford to be without. Of particular importance is the plain and straightforward language of the entire bulletin, which can be had simply by applying to the Publications Branch, Ottawa.

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### Healthy Cows Mean Good Milk.

The news letter of August 10th is

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