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\$4,000 A YEAR IN POTATOES

Rotation is Important in Getting Maximum Returns From Each Year's Crop.

LATEST MACHINERY ESSENTIAL TO SUCCESS.

This year I sold from a twelve-acre patch \$1,200 worth of potatoes. We had paid for the land three or four times with potatoes, and some years potatoes were pretty cheap; thus said Fred A. Johnson, of Port Stanley, potato farmer.

The growing of potatoes on Canadian farms is apt to take one or two forms: it may be a highly-specialized industry, to which other farm work constitutes a mere ground work, or it may be merely one especially lucrative phase of manifold farm activity. In either case the result is the same. Possibly no farm crop is, at all times, more in demand than the modern form of this—except first, called by the Spaniards "batata." Certainly no crop will show a better proportionate profit, all things considered, year in and year out, than the ubiquitous potato.

The writer has found, on Ontario farms, splendid examples of these two phases of potato-growing. Let us first briefly consider the case of a man who has become rather an expert, a specialist. I first heard him described in the city of St. Thomas as "Johnson, the potato man," and at once went to visit him. Fred A. Johnson lives on a hundred and fifty acre farm very near the village of Port Stanley, on Lake Erie. When he moved to his present place forty-three years ago, he put in five acres of potatoes, and in no single year since has he failed of a crop. Space forbids a detailed explanation of this expert's methods, but a few facts may here be set down that should be of value to farmers throughout the Province.

Of the entire 150 acre area of the farm, twenty-eight acres are devoted to potatoes. This area comprises two fields of ten and eighteen acres, respectively, and in two fields each of this size, the annual crop is produced, part of a scientific rotation. In preparing a field for potatoes, Mr. Johnson first grows a crop of oats, seeded down with clover. While the first crop of clover is cut for hay, the second is left on the ground, and the mat thus formed is plowed under the following spring. Clover, by the way, Mr. Johnson regards as absolutely invaluable for use on the potato ground. When spring comes, plowing and discing are done, barnyard manure being applied at the rate of twelve to fifteen loads per acre. Should the supply of manure be exhausted, fertilizer consisting of potash (2%), ammonia (10%) and dried phosphate (6%) is applied by means of a fertilizer drill. The soil is, after manuring and fertilizing, thoroughly cultivated with a two-horse cultivator, and this operation is repeated from five to seven times, at intervals of a few days.

Owing to the close proximity of the United States gardens, with their early varieties, Mr. Johnson prefers to handle late potatoes. Planting, for the most part, is done the first week in June. Just here it might be mentioned that, on this farm, seed-cutting is done by hand, the proprietors having found that, no matter how efficient the machine used, spuds went to the fields without the necessary "eye." As Mr.

Johnson said, "When every potato means two or three cents, one must be careful that there is an eye on each piece planted." The planting is completed by about the 10th of June, and thereafter comes continuous cultivation. After the seed has been planted for a week, the ground is harrowed lightly, and a week or so later a cultivator, with hilles, is used. Once the plants appear above the surface, cultivation continues at intervals of one week during the entire growing season.

A one-horse hiller is used after the plants attain a fair growth. Then comes spraying.

"We use an American machine," Mr. Johnson said, "a one-horse affair, by means of which the driver, with a simple pressure on the foot brake, directs the spray over eight rows on each trip up and down the field. We use a paraffin green spray for bugs, as, in my forty-three years' experience I have never had a case of blight or rot. In the last two years I have sold 15,000 bushels of potatoes to my St. Thomas customers alone, and I have yet to hear of one single bad potato."

Three years ago Mr. Baldwin sold the potato crop from a fifteen acre field for about \$1,000. How much profit? You ask. Mr. Baldwin puts it this way:

"Frankly, I reckon that the potato crop pays all farm-running and minor expenses, leaving the returns from other farm work for any other use we desire."

Mr. Baldwin each year plants by hand some twelve or fifteen acres, mostly of the Delaware variety, which he finds very popular on Ontario markets. Like Mr. Johnson, he finds heavy fertilization very essential and profitable, and is a firm believer, also, in the virtue of consistent, thorough summer cultivation of the potato ground.

"We find potato-growing to work in well with grain crops," Mr. Baldwin said to the writer. "We generally sow grain on potato or turnip ground and get excellent results."

How can the ordinary farmer market a big potato crop? Mr. Baldwin, at the time of my visit, was throwing all his energies into the forwarding of the scheme to form a Hillsburg Potato Growers' Association. "We grow good potatoes," he said, "and we want the public to feel assured in dealing with us. There are far too many varieties at present, and the only remedy we can see is local organization, whereby all the growers of one locality will produce the same variety of potato."

Already this article is over-bounds. Little needs to be said regarding the actual profits from potato growing. Nearly every farmer has at some time or another gone heavily into potatoes, and, generally, with gratifying results. This year, if ever, would seem to be an opportune time for the extension of the potato-growing industry on the ordinary farm. By H. B. McKinnon, in the Canadian Countryman.

Now, as to seed—you couldn't sell Mr. Johnson any, he your specimens ever so perfect. He believes in seed selection from his own crop, and his great success has justified his policy. On no account would he buy seed from an outsider. No variety, he says, will ever "run out" if properly propagated by intelligent selection. His favorite "late" varieties are the Worley and the Carmen, the latter of which he has grown continuously for a quarter of a century. Mr.

VALLEY FARM;

Or, Felicity's Inheritance.

CHAPTER IX.—(Continued).

"I wonder if you two kind people would have my little girl here till I can run away? It will be so hard for you to know. For, of course, you will decide on a visit, and I must decide on a trip to Canada for the honeymoon. I must wind up my affairs, and then I will go to the Blythby Hall estate—it has been in the market a long time, and you could buy it new, I suppose," said Mrs. Verinder.

"That is, of course, what we could say," said Mrs. Hamilton.

"I am quite sure that she will come to England, I hope I can get the place—

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