The potato is the most extensively cultivated plant in the world. A native of the mountainous

THE POTATO AS A FARM CROP

which it may be grown. One thinks of the potato as a human food, but less than half the total crop each year goes into consumption as a food for man. In Europe, millions of bushels are converted into alcohol, millions of bushels more are used in the manufacture of starch, they are dried and used in breakfast foods, fed to live-stock and used for as many purposes as wheat or our cereal grains, unless perhaps, corn.

In the Dominion of Canada, the potato does not rank very high in importance in agriculture, manufacturing or commerce, generally. Our market is almost entirely a home one, there is small demand for alcohol for use in the production of heat, power or light and little market for starch. Hence most of the potatoes grown on our farms and entering trade pass into human consumption as food. In the United States, the crop is more extensively grown, in comparison with the other crops cultivated, than it is here, and some years a large proportion of it is used in manufacturing. But despite this, the demand for the potato as a food, and the supply of the commodity, not the extent to which it is required as a raw material in manufacturing, determines the price at which potatoes shall be sold. The supply of potatoes, it must be remembered, fluctuates district by district, in its output of this crop. In more widely perhaps than any other crop. It is Saskatchewan and Alberta, the potato is grown one of these crops that cannot be carried over chiefly for local consumption, though some years, one year from another, so that the size of the considerable quantities of Alberta potatoes enter crop each year determines the price that will be the general trade. British Columbia, is a paid for it. There are never any potato reserves potato growing province with many possibilities. as there are reserves of corn, wheat, oats, pork To such difficulties in the way of growing, as and other non-perishable commodities. There- are incident to the shortness of the season, fore, potato prices fluctuate within wider limits scarcity of help and pressure of other work, in a country that depends entirely upon its home must be added some difficulties in the way of market, and the human food demand, than does marketing. If one reviews the development of any other crop grown. It is not unusual to see any department of agriculture or live-stock mong our correspondents as to the cost per acre potatoes three times the price one year that they rearing, in any section of the world, he is impreswere the year before This present winter we sed at once with the importance of every producer over \$40.00 per acre, and some as low as \$17.00. had an example of the way values jump just as of whatever commodity it may be that section is It is probable that the average cost one year with soon as supplies are touched. Frost was said to producing, specializing in the production of one another does not exceed \$35.00 per acre, including have damaged seriously the potatoes stored in particular kind of that commodity. A section of rental of the land as well as the necessary labor Alberta and British Columbia. There was a country that breeds nothing but Clydesdale cost for preparing the soil, for planting and small quantity in store in Winnipeg, and about horses is a better place for a Clydesdale breeder handling the crop all through the season. The the usual quantity in dealers' and farmers' hands to live in than any other. He can sell his stock average yield runs about 200 bushels per acre. in the country. Prices simply advanced from more readily and at better prices. The same At the Brandon Experimental Farm the best about 40 cents a bushel one week to 80 or 90 cents principle operates with all breeds of live-stock, yielding variety last year produced at the rate per bushel the next. No one ever saw wheat and with all classes of farm products. If the of 597 bushels per acre; at Indian Head the highmove up the scale of value at such speed as that, farmers of Western Canada were producing as est yielder was 486 bushels per acre. The grower

potato growing business very extensively yet. able a commodity as it is now. Because nearly will have no difficulty in raising from 200 to 400 Down in Eastern Canada where population is all of us are producing one kind of wheat, and bushels per acre. There are farmers in this more dense and agriculture more intensively trainloads of the one kind, whole shiploads of country who are doing it year after year. And carried on, the potato is, in some districts, a one variety in fact, are available for export, it costs no more to raise a three hundred bushel crop of some importance. In the Maritime is one reason that our wheat market is as satis- crop than one yielding a hundred or less. provinces, certain districts favorably situated as factorily established as it is, is the reason largely regards soil, and markets are noted more for their we are able to sell wheat under the selling system growing of this crop than they are for anything in vogue. else. In Ontario, of late years, potatoes have Now the potato buyer requires a product of potatoes the two most important points to increased in importance as a farm crop, chiefly graded as closely as to type and variety as the consider are the selection and preparation of the because of the difficulty of procuring help, one of wheat buyer does. He wants to buy stock by soil and seed. the most serious difficulties farmers have had to the carload, every tuber of which will cook out. In selecting the plot, any old place where the contend with in recent years. In this country, exactly the same. And as a general rule, he soil is not good enough for anything else, will we mean the prairie West, we have not yet gone fails to get them. Mixed potatoes are about the certainly do. It is a very good idea to clean land much into the growing of any field crops save the only kind that may be purchased in our Western by putting in potatoes, but not with the idea of of farm crop, is there an export market. We had wholesale produce trade of Winnipeg, than a car- you have and the cleanest if you expect to make to have something that could be turned into load of potatoes of one variety and of one size. money from the crop. money regularly, or fairly so each year, and They come in every size from marbles up, and of I find that one has to be very particular in something that could be produced at a minimum varieties, samples of everything grown within the selecting seed, selecting the best tubers of the

As a general rule, potatoes are grown in this ordinary crop, and given the required amount of market and a portion of his crop is intended for work in. After the potatoes are planted, howattention during growth, there are possibilities early use.

regions of the tropics, it has been taken out in potato growing that figure into money more by way of summarizing the ideas expressed it to every corner of the earth, and thrives under rapidly than it may be made in most farm crops. may be said that the potato thrives best in a cool



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In this country we have not gone into the they are of potatoes, wheat would not be as sale- planting and management of the crop generally

country on land that is not much use for anything district and inducing every potato grower to raise to cut the seed each season—every other year else. They are put in without much preparation, it, is very nearly impossible. But one farmer will do given little attention during the growing season, raising five, ten or twenty acres can just as easily Doubtless the best method of planting is with harvested, if there is anything to harvest and the keep within one variety as he can attempt to grow the planter. It puts the potatoes in a warm soft deal closed. Grown in this manner there is little every kind he hears about. The man who grows bed. With the plough the seed is put in a hard money to be made in the potato business, but potatoes in quantities should grow one variety bottom, but with ploughing and good cultivating grown in such a soil as would be prepared for any alone, unless, of course, he is situated near a city the bed is made warm and soft for the planter to

follow most of practical points of potato cultivation are discussed, but for brevity and

conditions ranging from equatorial heat, almost Following are some experiences in potato growing rich soil, plentifully supplied with moisture. to polar cold Potatoes, on this continent, contributed by prominent growers in various The seed should be planted sometime between the have been grown beyond the arctic circle. In parts, though mostly from Manitoba, where 10th and 25th of May, in rows from 30 inches to South America they are cultivated beyond the marketing facilities are better than in the far 3 feet apart, and covered 4 inches at least with climatic limits of the cereal and most other crops. West, and farmers apparently, less inclined in the soil. The sets or seed should be about 16 inches Bushel for bushel there are more potatoes grown desire to occupy all the land in sight at one crop- apart in the rows, and each set of sufficient size each year, than any other crop cultivated, of ping. The districts adjacent to Winnipeg have to nourish two eyes. Preparation of the land which statistics of acreage and yield are estimated. been heavy potato producers for many years; previous to seeding should consist of good deep The uses to which the potato may be put are now, however, the potato growing territory is plowing in the fall, the application of well rotted nearly as wide as the climatic conditions under spreading out, until the province is fairly uniform, manure if the soil requires it, plowing again in the spring. Planting, if any quantity is grown, is most economically done by use of the planter. After seeding cultivation consists of thorough harrowing of the surface after the potatoes are planted, and harrowing once or twice a week afterwards until the plants show through the surface. As soon as the rows may be seen, the scuffler, or two horse cultivator, may be started, and this will provide all the cultivation necessary during

If bugs are numerous it is necessary to spray the patch once or twice during the summer. adding somewhat to the cost of growing, and if blight appears it may become necessary to treat the crop with Bordeaux mixture, but blight has not vet appeared to any extent in this country. or bugs either for that matter, and the bulk o our potato crop is raised without treatment with either insecticide or fungicide. How long we may remain in this fortunate condition is difficult to forecast. In Ontario, fifteen years ago, potato diseases were unknown, but now some seasons and in some sections they destroy the entire crop.

In harvesting the potato crop, if one has any considerable acreage, a digger is a necessity. digging machine may be purchased for a hundred dollars or less, and saves its cost in manual labor in a short time. The machine lifts the tubers, shakes the soil from them and leaves the crop in a row on the surface, cleaned of earth, and easily picked up. As to selling it is probably as well for the average farm grower to sell directly from the field, unless he has convenient facilities for storing. If he has it pays to carry the crop over till spring, or on into the winter at least

There is considerable difference of opinion aof raising potatoes. Some estimate the cost as or any other commodity almost that men trade in. many distinct varieties and types of wheat as who gives attention to the details of cultivation,

SUCCESSFUL POTATO GROWING

Before planting the seed for a profitable crop

previous season, being careful to select those Now, establishing one variety of potato in a that have not sprouted at all. It is not necessary

ever clean the land is, have them harrowed in the

first week, and every In the letters which and every way. Har

I grow about twen vear and advise grow than one can reasona I like best for an ear Eureka and Drew Sta MacGregor is coming t many varieties of pot if we had one or two would be better.

As I have said I h tops are showing 9 inc and as soon as the rov and go through the fi I follow the hilling sy dry season, hill twice Potatoes should be

few early frosts and dead. I prefer hauli field to the root house if left out in the fiel guided by the market: If one has a good reli advise holding the cr turn them into mone For harvesting I ca It does good work, esp I should estimate t potatoes as follows:

Plowing Cultivating Planting Harrowing . . . Scuffling Hoeing Harvesting, with Seed, 15 bushels

Undoubtedly ther opinion as to cost of an acre a liberal esti One may expect a

per acre, and 50 cent I have always four

from the middle of Oc early ones come in at per bushel in Novem Tune.

The trouble amo growing potatoes is t to put in the seed bushels per acre cro planted or looked at If a small crop res they grumble at the but themselves. Po care in growing as n

GROWS ON A

I consider the pot crops, the best for are more bushels gro crop unless it be tu there is no market. potato crop is bette clean the land, and shape for wheat with

I have five or six the land now for t seed I find the Wee I I can get and is a be keeps well and canno I am trying a varie this year. They McGregor. The on McGregor, is that i

Now I have been glowing sides of the many drawbacks t other crop. I will planted between th very much the be getting help for the the other work don last year and I be planter going stead machine one man w becoming a hard all right as the sno