moved, and planted enough potatoes to provide his seed stock for the com-ing year. By the time frost had cut down the top, the immature seed had developed sufficiently to be used next

developed sufficiently to be used next spring. By these methods he claims to have increased his yields in the neighborhood of 100 bushels per acro. In Northern Ontario, owing to cli-matic conditions, the seed, while grow-ing to large size, very seldom matures. This factor of immaturity is chough to be one very important reason why Northern seed, when planted in 000 Ontario, gives such outstanding re-sults.

In a series of experiments conducted

for five years, Dr. C. A. Zavitz of the Ontario Agricultural College, has

Oniario Agricultural College, has proven the relative merits of seed potatoes grown in Northern Oniario. New Brunswick and Old Oniario. The seed from these different sources was planted side by side on exactly the same kind of soll. The yields last year were 356 brahels, 318 bushels and 230 brahels respectively, and these tr

sults may be taken as representative of the five years' operation. In New Outario a special investigating committee found but six per cent of serious disease and practically no

physiological disease at all. In each of the three districts in Old Ontario

that they visited they found a very great amount of all kinds of potato

diseases and an alarming amount of physiological disease in each case. Al-

physiological disease in each case. A together they discovered an average of 23 per cent. of serious diseases in these three older counties. Moreover, the Northern crops were more vigor ous and promised far larger yields.

A Coming Agricultural District. While large districts in the North are not yet cleared, it is one of the great coming agricultural districts of

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America. The has 40,000 acr tato soil, a con is already un thousands of heavier nature potato growing example of he veloping, it ma weloping, it ma that four years William and P Bay district we whereas the d jacent now superports to Old (hood of 140 car

If growers in once convinces of planting Nor are willing, by i age seed produc Ontario can be to supply all th of the Province

In order to en Northern Ontar seed by growers Ontario Departm ontario Departm has made certain of assistance this tatoes to be us purposes are be from Northern C Brunswick-a to orthern Ontario the present time anteed quality, V farmers will be gi the auspices of Union Some 10 who are taking p Fairs will also re ties. In every co the district repretive value of see Brunswick, in No. in Old Ontario, B acres of potatoes the Ontario Depart on Government ow ern Ontario in ord dation stock of Al ern growers

Good Seed for (

Besides this, it i to some extent fa Northern grown loads of seed pot Brunswick of the Green Mountain va to freedom of disea Government, are to growers in Northe seed will be distri farmers in three of potato producing see

So far as Old On So far as Old On it has been arrange who wish to buy i quality of the Gre Irish Cobbler varies New Brunswick sel This seed was inspe in the growing cond inspectors was from inspectors, was insp ber in the bin and w the spring before Farmers and farm therefore, who wish potatoes in car load at a reasonable price mum of work on the Next summer the I

riculture has made have a staff of insy make a survey of O termine the exact di termine the exact di as they exist. Other work in the North, ro which result from fir ing shipped in this yr also other fields of thes reasonably free fi true to variety. By it abould be definitely ; badly Oid Ontario change of seed and b badly Old Ontario change of seed and by vision will have been ample supply of first-c in New Ontario to ve

CREAM Yields have not become established. This district, so far as potato growers in HE superiority of Northern On-We are the largest manufacturers of creamery district, so far as potato growers in Oid Ontario, would optically seem to be Northern Ontario. As has already been explained, physiological diseases have not yet, become established to any extent in the North, and owing to climatic conditions which do not favor the development of such dis-eases, it is doubtful that they ever will become a menace to the potato industry of the North. The third factor which makes tario for the production of seed potatoes is due, we believe, to a factors. The first of these is three found in the peculiarly favorable cli-mate that prevails in the North. The natural habitat of the poiato was found in the high plateaus in Colo-rado and Peru. The characteristics of the climate prevailing in these dis-tricts are: long growing days of sun-ahine, cool nights, abundant moisture and heavy dews, without periods of drought. Under such conditions the potato has been proven to thrive best. In Northern Ontario these conditions are prevalent. Severe heat and und in the peculiarly favorable cil-PROFITABLE PRICES PROMPTLY PAID Write Ile **BELLEVILLE CREAMERY Limited** The third factor which makes Northern Ontario particularly adapt-ed to the production of high-class quality of seed potato is the imma-turity of the seed in these districts which is found. That immaturity in-creases yields can hardly be doubled in view of scientific experiment and practical experience which would Belleville, Ont. In Northern Ontario these conditions are prevalent. Severe heat and drought, which arrest the growth and lower the vitality of potatoes, are very uncommon, while abundant rains CREAM WANTED We supply cans. We pay all express charges. We remit daily. We guarantee highest market prices. For prompt service ship your cream to us. A card will bring you cans. very uncommon, while abundant rains and heavy dews are the rule. Physiological diseases, which are becoming all too common in Old On-tario, are hardly known in the north. Leaf Roll, the worst of these dis-cases, was not found in a single case. practical experience which would seem to prove the point. On the Cen-tral Experimental Farm at Ottawa the tral Experimental Parm at Ottawa the factor of immaturity was emphasised in a particularly foreible way last summer. In 1916 Professor W. T. Ma-eque, Dominion Horticulturist, con-ducted an experiment with potators on three different types of soll-sand, city and muck. The potatorse planted on the muck happened to be near the boundary of the farm and Professor Macoun discovered, early in the fail, that workness were stealing these po-tators. To preserve uniformity in his screetment he had the three lots due MUTUAL DAIRY AND CREAMERY COMPANY 743 KING STREET WEST TORONTO, ONT. eases, was not found in a single case during a lengthy investigation con-ducted in Northern Ontario in the summer of 1917. Curly Dwarf was not noted either. Mosaic, a bad die The Cheapest Way To ease, but less serious than leaf roll, was encountered to a small extent, but in a very few cases was the per-centage of diseased plants large. Pull Stumps centage of diseased plants large. These diseases are all hareditary. Their action is to stunt the growth of the plants and reduce the size and number of the tubers. It tubers from plants affected with this disease are planted, the disease will exist ir, the resultant plants in a still more ag-gravated form until in the third or experiment he had the three lots dug in August. This immature seed plant. in Angust 1917 gave astonishing results, ad in yielding very much more than ma-ture seed of the same variety and planted on the same soil. Get Our Big Immature Seed in Old Ontario. Immature Seed in Old Ontario. At a conference of potato experts and practical growers held in Toronto in October, 1917, this question was very thoroughly discussed and it was gravated form until in the third or fourth generation the plants will be very small and stunted and the crop of marketable potatoes produced by them almost nil. very thoroughly discussed and it was genorally agreed by all present that immaturity of seed very greatly in-croased yields. At that meeting Mr. Waiter Cook, of Cataraqui, explained his methods. He ploughed his sod in July, after a crop of hay had been re-moved, and planted enough potatos to amenide his and shoth for the cost One-Man How Yields Are Reduced. Cirstin Stump Puller

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Why Northern Grown Seed Potatoes Increase

Physiological Diseases Loweri-s, Yields in Old Ontario. Immature Seed Po-tatoes Give Best Results. By Justus Miller. Assistant Commissioner of Agriculture for Ontario

From experiments conducted by P. A. Murphy, who has charge of potato disease investigation work in Canada, it would appear that these diseases also communicable. Just how they are communicated is not kno they are communicated is not known, as no organism has been found which causes them. It is thought, however, that enzymes of the diseased plants contaminate healthy plants immedi-ately adjacent to them. It is gen-erally believed that the diseases are produced by prolonged drought or other unfavorable conditions which

other unfavorable conditions which produce the degeneracy noted. Whatever the cause, however, it has been abundantly proven that these diseases are about the most serious obtacle which the potate grower has to face. As an example, a number of experiments conducted in Nova Scotia may be cited. Several lots of potatoes were planted in this experiment, some from healthy and some periment, some from healthy and some from diseased stock. Where 100 per cent leaf roll was present the plots yielded at the rate per acre of from 36 to 46 bushels of marketable pola-tees. Where no leaf roll was present from 232 to 340 bushels of marketable polatoes were ascurde par acre. Its styp yields varying between these two extremes two marks in direct proporextremes very nearly in direct propor tion to the amount of leaf roll pres tion to the amount of least foll pres-ent. As a general result of these experiments it may be taken that for each per cent, of leaf roll present in the crop the yield of marketable po-tatoes will be reduced 1 2-3 bushels per acre

Must Secure Clean Seed. It is believed that these diseases can be communicated to healthy plants and they are certainly inherit-able. The best authorities, both in Canada and United States, agree that it is practically impossible to control these diseases in a district where they are well established by selec-tion. The only safe remedy is to se seed from a district where they

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