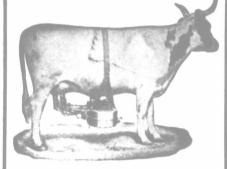
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has been installed in the private dairy of H. M. King George V. at Windsor Castle and also at His Mijesty's private estate at Sandringham. The OMEGA, in a 17-day test on ten cows, (against 17 previous days) at the O. A. C., Guelph, increased the milk flow 206 pounds, or 3 per cent.

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Why Northern Grown Seed Potatoes Increase Yields.

EDITOR "THE FARMER'S ADVOCATE"

The superiority of Northern Ontario for the production of seed potatoes is due, we believe, to three factors. The first of these is found in the peculiarly favorable climate that prevails in the north. The natural habitat of the potato was found in the high plateaus in Colorado and Peru. The characteristics of the climate prevailing in these districts are: Longgrowing days of sunshine, 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 drought which arrest the growth and lower the vitality of potatoes-are very uncommon, while abundant rains and heavy dews are the rule.

Physiological diseases which are becoming all too common in Old Ontario are hardly known in the north. Leaf Roll, the worst of these diseases was not found in a single case during a lengthy investiga-tion conducted in Northern Ontario in the summer of 1917. Curly Dwarf was not noted either. Mosaic, a bad disease, but less serious than Leaf Roll, was encountered to a small extent, but in a very few cases was the percentage of diseased plants large. These diseases are all hereditary. Their action is to stunt the growth of the plants and reduce the size and number of the tubers. If tubers from plants affected with this disease are planted, the disease will exist in the resultant plants in a still more aggravated 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.
From experiments conducted by P. A.

Murphy, who has charge of potato disease investigation work in Canada, it would appear that these diseases a e also communicable. Just how 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 immediately adjacent to them. It is generally believed that the diseases are produced by prolonged drought or 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 obstacle which the potato 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 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 potatoes. Where no leaf roll was pre-ent from 226 to 240 bushels of marketable potatoes were secured per acre. Intermediate percentages of leaf roll gave yields varying between these two extremes very nearly in direct proportion to the amount of leaf roll present. 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 potatoes will be reduced one and two-third bushels

It is believed that these diseases can be communicated to healthy plants, and they are certainly inheritable. 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 selection. The only safe remedy is to secure seed from a district where they have not become established. This district, so far as it affects potato growers in Old Ontario, would begically seem to be Northern Ontario. As has already been explaine I, 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 diseases, it is doubtful that they ever will become a menace to the potato industry in the north.

The third fact or which makes Northern Omario particularly adapted to the production of high-class quality of seed potato is the immaturity of the seed in these districts which is found. That immaturity increases yields can hardly be doubted in view of scientific experiment and practical experience which would seem





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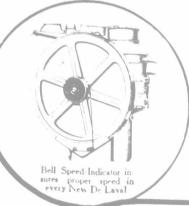
If you haven't the spare cash right now, that need not stand in the way of your getting a New De Laval at once. We have an arrangement with De Laval agents which makes it possible for any reputable farmer to secure a De Laval on the partial payment plan - a small payment at the time of purchase and the balance in several instalments—so that your De Laval will actually pay for itself while you are using it and getting the benefit from it.

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London, 1917. Our level of present holds the Conclusion records for both milk and butter in the two-year
the three-wear and the merine classes. Lee as to flyou about the daughters of Netherton King Theodore,
We have some of both helfs for side sall large R. O. P. dons. Visitors met at Hamilton by appointment.
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GLENHURST AVRSHIRES - ESTABLISHED 50 YEARS. smoothness of several and the filter threshold been noted for their depth and size, good teats and many on two selections of a material black through the produced dozens of 60 and 65-lb.-a-day cowa are looking to a manual of the several bills up to twelve months, and females all ages. If you the farm this RENNING is three several production—plus high butter-fat—write me or visit.

DAVENDED ATTO

RAVENSDALE AYRSHIRES

I K of P and sup high-testing dams. January test averaged three paysterned Cividesdales for sale, eight months old W F KAY, PHILIPSBURG, QUEBEC to make south of Montreal. St. Armand Station, G.T.R.

MARCH 28, 19

to prove the point perimental Farm immaturity was d larly forcible v 1916, Professor W Horticulturist, co with potatoes on soil-sand, clay a planted on the m the boundary of Macoun discover. workmen were ste preserve uniformi had three lots du mature seed plant ing results, yieldir mature seed of planted on the sar

At a conference practical growers October, 1917, this ly discussed, and by all present th very greatly incr meeting, Walter (plained his meth sod in July, after removed and plan provide his seed year. By the tir the tops, the imma sufficiently to be these methods he his yields in the

bushels per acre. In Northern On conditions, the se large size very factor of immaturi very important rea when planted in (outstanding result

In a series of for five years, Dr Ontario Agricultur the relative merits in Northern Ontar Old Ontario. The ferent sources was on exactly the sa yield last year was and 200 bushels, results may be tak the five years' oper

Practical grower

factory results. Sarnia Vegetable in his annual repo the members to pla in Northern Ontari report, that such s bers of his Associ increased their yiel-G. A. Williams, secured an increase acre by planting above the yield obta seed. G. Bridger Joak, Peterboro, O Sarnia, and Henr have all written to planting of norther they have increased 0.25 per cent Th in conjunction wi periments already clusively that potatoes give far Ontario. In consid an investigation wa late summer of 1917 tages of encouragin in Northern Ontario McCubbin, the Cl ologist in Ontario, Commissioner visite Northern Ontario y tatoes. Their meth best potato growers generally and make several hundreds of From this inspection percentage of diseas 87 growers in the ne

But after they finis they decided they ha tion they wanted. of the condition in N the potato inclustry know accurately th Ontario, particularly of physiological disea after, they visited t Ontario which specia ing-Carodoc Towns Middlesex, Frin Tow

of Wellington, and Con the County of Car In New Operation 11 cent, of serious diseas physiological disease the three districts in found very contame potate diseas and ar