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RECORD MAPLE SUGAR CROP.

Reports from various maple sugar districts in Eastern Canada state that the maple products this year will beat all records for the last ten years.

PEACE RIVER PETROLEUM.

Application has been made to the British Columbia Provincial Government by the D'Arcy Exploration Company for an exclusive right to explore a petroleum area 60 miles square in the Peace River district. The Company offers a royalty of 12½ per cent. on the product of any wells developed, and the Government has taken the proposal under consideration.

THE INDUSTRIAL AWAKENING.

A land of prairie and forests before the war, she became an industrial country ere it was finished. The transformation not only enabled her to pour munitions into the conflict but it showed her the way by which, when the sword was beaten into the ploughshare, she could turn her war activities into peaceful channels of industry and open up for herself the prospect of becoming a greater force in the world's commerce. Canada is now grasping with both hands the opportunity thus offered. Her soldiers have discarded the rifle and are enlisting in the army of commerce whose advance into the unconquered markets of the world is making ever more rapid progress. The Canadian Government is urging the advance onwards and it is showing the way and the methods. Its Trade Mission in London is its General in Command of its expeditionary force of industrial development. All this progress has been Stimulated by the war effort of the Dominion. some 65,000,000 shells of all sizes were produced in Canada and enormous quantities of explosives were manufactured.

FARMS AND FARMING

The First Ontario Potato Institute.

One more institute to add to the collection, but be it noted that this one is of a specialized form. According to the Farmers' Advocate this birth took place in Carleton County under the guidance of W. D. Jackson, Agricultural Representative for that county. Other potato institutes are to be held in the counties where potato growing is carried on extensively, and it is hoped that in time these individual societies will be linked together to form a provincial potato association. The Ontario Department of Agriculture, through the medium of the Potato Specialist and Advisory Potato Council, is offering every encouragement and full co-operation for this organization of the potato industry.

The object of the potato institute is three-fold, namely: first, to provide an occasion for the gathering of potato growers and the exchange of ideas; secondly, to afford opportunities for competitions in exhibits; thirdly, the dissemination of the latest information from well-known potato experts.

Here are some of the points brought out in the Carleton County meeting by the various speakers:—

T. G. RAYNOR, Department of Agriculture: There must be a standardization of the Ontario Varieties as the Ontario crop, being variable in size, shape and maturity, and hence will not cook or keep evenly, cannot command the highest market price. Green Mountain and Irish Cobbler are the varieties recommended for Ontario. In selecting varieties consider the three R's—Reproductiveness or yield, Relish or cooking quality and Robustness or resistance to disease. Sandy loam is the best soil. Use only large sized tubers for seed rather than small ones; this applies also to the size of the sets which should weigh from one to 2½ ounces. Incessant scuffling is necessary throughout the summer, becoming shallower as the season advances.

H. G. BELL: The potato roots grow quickly, and in 30 days may cross the space between the rows. Lime is necessary to sweeten the soil; nitrogen produces stalk and leafage; phosphoric acid is essential for seed production, quality and maturity; while potash gives strength to the plant.

A. H. MACLENNAN, Ontario Department of Agriculture: It pays to cut potatoes by hand. Two-horse diggers are recommended, but larger ones are needlessly cumbersome.

JUSTUS MILLER, Ontario Department of Agriculture: The three necessary factors to a progressive potato growing industry are the production of the crop, its preparation for market and its sale. Because Ontario potatoes are not graded, the uniform Brunswick crop sells for over a dollar a bag more than Ontario potatoes. The Maritime potatoes have the preference even on the Ontario market, due to the lack of a proper organization among the Ontario growers.
C.A.G.

There is a place on every farm for at least one sow and her pigs because there is waste feed that they will consume. Preventing waste and producing pork is doing double service, and making money two ways at once.—"The Maritime Farmer."

Advance in Live Stock Values.

The following table shows the increase in the average value per head of the various kinds of live stock in the United States on farms as on January 1st, for the years named:—

	1919.	1918.	1917.	1914.
Horses ...	\$98.48	\$104.24	\$102.89	\$109.32
Milch Cows	78.28	70.54	59.63	53.94
Other Cattle	44.16	40.88	35.92	31.13
Sheep	11.61	11.82	7.13	4.02
Swine	22.04	19.54	11.75	10.40

"The Canadian Farm."

Increased Expenditures for Agriculture.

In the estimates brought down in the House of Commons, increased expenditures are announced in several branches of the Department of Agriculture for the coming fiscal year as follows:—

	1919-20.	1918-19.
Central & Branch Farms	1,200,000	1,012,037
Insect Pest Act.....	149,200	134,400
Health of Animals		
Branch	465,000	415,000
Meat and Corned Goods		
Branch	442,000	379,000
Live Stock Branch	800,000	600,000
Seed Control Act	200,000	165,000

The estimates for the Dairy and Cold Storage Branch are \$180.00 or the same as last year.—"Canadian Farm."

Losses of Manure in the Barnyard.

In three months untreated manure exposed in the open farmyard suffered the following losses:—

Total Organic matter	38%
Total Ash	17%
Total Phosphorous	23%
Total Water soluble phosphorous	29%
Total Potassium	57%
Total Water soluble potassium	59%
Total Nitrogen	27%
Total Water soluble nitrogen ...	67%

Field experiments continued for 14 years show that such exposure has caused a loss of at least 30% in the crop-producing value of the manure.—Ohio Experimental Station.

Live Stock Shortage in Europe.

The following table shows decreases in European live stock since the war, not counting Russia, Austria-Hungary and the Balkans, as compared with the total live stock in Canada as at the last census.

	Decrease in Live Stock Europe.	in Canada.
Cattle	28,080,000	6,526,113
Sheep	54,500,000	2,174,300
Hogs	32,425,000	3,634,778
Totals	115,005,000	12,335,191

The decrease in live stock in Europe, counting only the leading countries from which figures are available, is nearly ten times the total live stock population of Canada.
—"Canadian Farm."

Charcoal should be kept in reach of the hogs at all times. Free use of it is probably one of the best ways to rid hogs of worms, and inasmuch as it has no medicinal properties the effect must be purely mechanical.
—"The Maritime Farmer."