

### GOOD SEED POTATOES ARE STILL AVAILABLE

Good potatoes which are not good enough to qualify as certified seed might be very dear, even as a gift. When a potato grower figures his labour costs for planting, cultivating, spraying, and harvesting, and his outlay for fertilizer and spray materials, depreciation on machinery, marketing costs, and other items, then it becomes very evident that success or failure of the whole season's operations may depend largely upon the quality of the seed he is planting, the weather conditions during the growing period, and the marketing situation following harvest. The weather hazards he is aware of. He must, of course, take the weather as it comes, but he can arrange his cultural practices for either wet or dry seasons, or both. The decision he makes about seed, however, must rest with himself, and it is a most important decision to make, for it may mean not only the difference between a good yield and a poor yield, but may make all the difference in the work as to the disposition of the crop, due to quality or marketability.

All good seed potato dealers now recommend only the planting of certified seed for the logical reason, that they are convinced that certified seed is improved seed and more growers are asking for it. The dealers like to have a constant and dependable supply of well graded, healthy vigorous seed potatoes for their trade and they know that certified seed has been selected, grown and regrown for disease under supervision, and is inspected and passed upon by an unbiased third party of sound integrity, who is just as anxious as the dealers are that the seed purchasers are fully satisfied. Furthermore, the field reports of the inspectors are available, and can be relied upon, which is better, in their opinion, than having to depend upon the grower's own interpretation of the quality of potatoes he may have for sale. Another important point is that the dealer knows that the table potatoes produced from certified seed are going to be more readily saleable at harvest, and that will aid his table stock business very materially.

Further information about seed potatoes will be gladly supplied by Plant Protection Division, Dominion Department of Agriculture, Ottawa, or from the District Certified Seed Potato Inspector.

#### The Wisdom of Youth

That a young man was wise beyond his years was proved when he paused before answering a widow who had asked him to guess her age.

"You must have some idea," she said.

"I have several ideas," said the young man, "with a smile. The only trouble is that I hesitate whether to make you ten years younger on account of your looks or ten years older on account of your intelligence."

### Little Chats ON Farm Management NO. 5

#### Farm Business Management

The successful farmer may be classified as a business manager. He no longer provides the major part of his living on his own farm. He now produces farm products for sale to others and, with the cash received, purchases the variety of commodities which make up his living standard. The change from the old self-sufficing farming to the new commercial agriculture has made it possible for the successful farm business manager and his family to enjoy farm life to a greater extent than ever before. The complete revolution in communication and transportation has brought to him an opportunity to enter more fully into the life of the whole community.

The general manager of a business is recognized as a person of considerable ability. Certainly, this is even more true of those who successfully manage a farm business. In urban industry in Canada there is an average of one general manager and 27 workers for each plant. In Canadian agriculture there is a manager for each farm and while the number of workers is not large the successful combination of labour and capital requires real managerial ability. Almost every alternate man in agriculture must accept the task of manager. The number of managers per worker is thus 10 times greater in agriculture than in urban industry.

Management ability is just as necessary in agriculture as in urban industry and training for service in this steadily changing conditions of production and marketing, is particularly important. This is strikingly shown by a study of the business of more than 800 individual dairy farms throughout Ontario. The earnings of individual farm operators, for one year, show a range of more than \$7,000 between the least and most successfully operated farms. The study of a small group of farms specializing in apple production in Quebec gave similar results. The range between high and low incomes in this study was more than \$4,000.

Research in this field is being conducted by the Economics Division, Dominion Department of Agriculture, Ottawa, in co-operation with Provincial Departments and Colleges of Agriculture. The data obtained by these studies provides a sound basis for educational work in the realm of farm management.

Visitor — Well, Jackie, how do you like your new little sister?  
 Jackie — Oh, she's all right. But there are lots of things we needed worse.

### Trees Not Sprayed Menace to Orchard

Thousands of dollars are spent annually throughout Canada by prospective amateur garden fruit-growers for nursery trees of apple, pear, plum, cherry, and peach that are profitable only to nurserymen, states R. D. LeBlond, Dominion Experimental Station, Kentville, N.S. This is particularly true in areas remote from the recognized fruit growing sections. One sees it on every hand — a poor site, an unsuitable soil, improper planting with no thought of pollination, and after planting, neglect. The trees soon lose their self assertion, and when this internal or inherent "push" is gone, they become moribund, linger and fall an easy prey to rodents, winter injury, insect pests and fungus diseases.

The prospective amateur garden fruit-grower must be in a position to feed, cultivate, spray, and more or less coddle the young trees from the start. This intensive care need not be so thorough after the tree becomes established, but from the time the trees begin to fruit they must receive definite attention in respect to culture, cultivation, and a proper spray program for the control of insect pests and fungus diseases.

Improperly sprayed trees become a menace to the regular commercial orchards. It is from these trees that many of the destructive fruit insects are being disseminated to infest or re-infest commercial orchards that have been inspected and found free of insects. Spraying of these garden orchards has become compulsory in some districts but has not proved wholly effective because of the inaccessibility of the trees and the difficulty of getting the work done at the proper time. Elimination of some of these garden orchards has already taken place in certain districts and may become general and compulsory.

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### OTTAWA NAMES JAS. S. DUNCAN DEPUTY FOR AIR

#### MASSEY-HARRIS HEAD TAKES POST TO AID ORGANIZED TRAINING

Ottawa, April 11—James S. Duncan, vice-president and general manager of Massey-Harris Company, was named this week associate acting deputy Minister of National Defense in charge of aviation.

His appointment means that the three services—army, navy and air—will now each be under a deputy minister, all responsible to one Minister of National Defense.

Mr. Duncan is coming to Ottawa only for three months, Mr. King said, but during that period permanent arrangements for carrying on the work will be made.

The job of organizing for the British Commonwealth Air Training Plan will be Mr. Duncan's heaviest task. His recognized business experience as head of one of the world's



JAS. S. DUNCAN

greatest implement companies will be drawn on. He is considered one of the most incisive men in Canadian industry, and Mr. King expressed the gratitude of the Government to Massey-Harris Company for lending Mr. Duncan to Ottawa.

Few men have attained such outstanding success in the business world as has Mr. Duncan, and his talents and ability, in addition to his energy and enthusiasm, will be of inestimable value in the organizing and building up of the Dominion's great undertaking in the British Commonwealth Air Training Plan.

While both army and navy expansion has been along established lines, the rapid development of the air force in Canada is breaking new ground. In the appointment of Mr. Duncan, the Government takes the attitude that the main need at the moment is business experience. The chief of the air staff and the officers will look after technical air force problems.



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## Canadian National



The demands of our Country and Empire, occasioned by another Great War, cause us to pause and recount the progress made in the quarter-century since the beginning of the first Great War.

Then but 10,000,000 acres were sown to wheat in contrast to over 25,000,000 acres now; then we exported but 25,000,000 lbs. of bacon and ham to Great Britain in a year, whereas this year our shipments will total over 260,000,000 lbs. Then the average yearly production of a dairy cow was 4,500 lbs. of milk which now has been raised to 6,500 lbs.

Farmers have been alert to the findings of science and the better practices developed by our agricultural colleges and experimental farms. Changed methods have brought vast improvements; higher standards of products have been attained and maintained. Science, too, applied by practical men of knowledge has, through the solving of many of our immediate problems, greatly increased the productivity of our farms and added immense sums to the farmers' yearly revenue.

Rust-resisting varieties of wheat have now ended the annual losses occurring from this perennial blight which is estimated to have cost the farmers of Western Canada in the 62 years of wheat growing, an amount in excess of half a billion dollars.

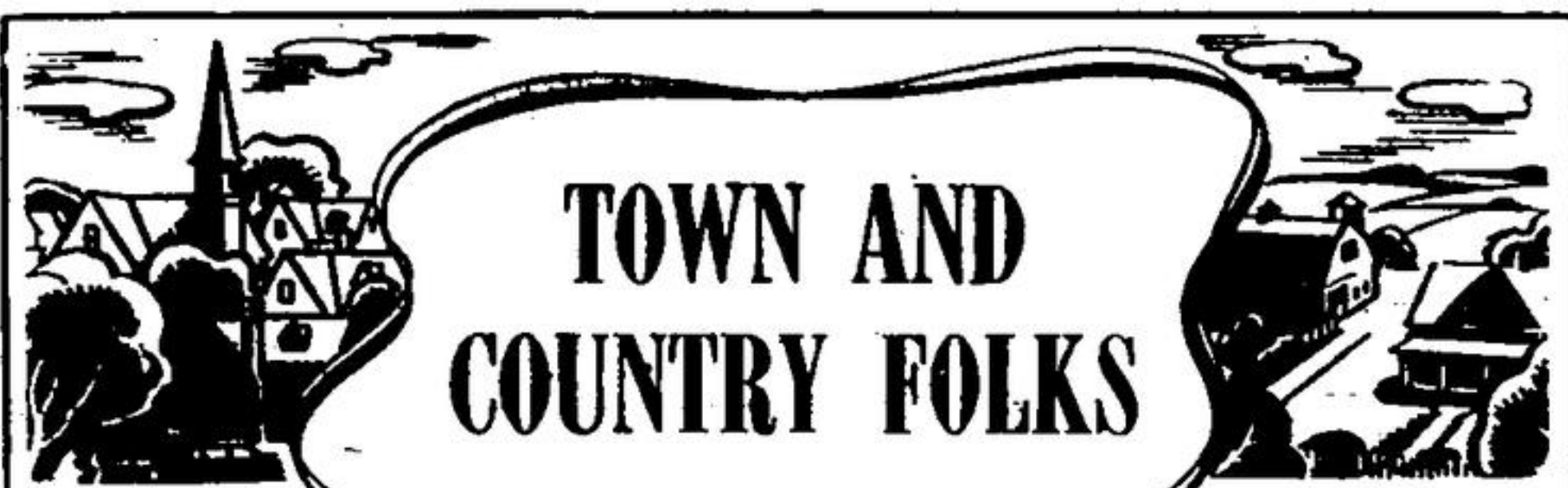
Grasshopper control efforts have been perfected to the point where the damage from these pests has been greatly curtailed, one authority placing the saving from this work at several hundreds of millions of bushels of grain in the last seven years.

And the agricultural implement engineer has been busy designing machines to meet the specific needs of the moment. Speed, less man-power, and lower costs of operation, have been the goal and as a result most machines have undergone great changes. Tractors have been tremendously improved. New machines have been made available. One-Way-Disc Seeders—till and sow in one operation, cutting the cost of these operations by 40% to 50%. The new Small Combines extend the use of this new low cost harvesting method to farms of all sizes—saving upwards of \$1.60 per acre in harvesting costs.

Massey-Harris is proud to have played an important part in adding the contribution of the implement maker to those of the scientist and farmer in furthering the interests of agriculture.

—and Agriculture Marches On

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