

GOOD SEED PAYS Corn grown on a Commission of Conservation

# Good Seed to Increase Crops

What good seed means to Canada was very clearly shown by a few figures submitted by Mr. L. H. Newman, Secretary of the Canadian Seed Growers' Association, at the Conference on Soil Fertility and Soil Fibre, held at Winnipeg by the Commission of Conservation.

Each spring Canada requires approximately 65,000,000 bushels of seed grain and 9,000,000 bushels of seed potatoes, or about 8 per cent of her annual average pro-

duction

About 41,000,000 acres are annually planted to these crops in Canada. An increase of but one bushel per acre of this area would add approximatly \$80,000,000 to the wealth of the country. One of the chief methods of increasing production is by the more general use of seed of better breeding and districts where sown.

#### Utilization is Conservation

The tree that comes to maturity in the forest, decays, and falls to the ground, only furnishes food for insect pests and fungi which nipeg. destroy other trees: the fruit that ripens, falls to the ground and rots benefits no one: surplus fish that is unutilized by man serves no useful purpose; but the utilization of the tree, the fruit, and the fish is pure conservation. On the other hand, to transport to lake Superioras we did in 1918-3,250,000 bushels of weed seeds which occupied space in cars equivalent to a train over 20 miles in length, is not conservation in any shape or form.

Metallic arsenic, running \$200 in value to the ton, has been dis-

### Crop Rotation

Dr. Grisdale Emphasizes this Neces-sary Factor of Permanency in Prosperous Agriculture

"The maintaining of the farm in a condition free from weeds and keeping the moisture-holding nower of the land as high as moisture-holding possible are factors that are of prime importance. A crop rotation, therefore, that is satisfactory makes preparations both by getting the soil in right shape and by cultural methods to hold that moisture as well as it possibly can be held, by storing all the moisture that comes along.

"Another advantage in crop otation is the conservation of the fertility and the maintenance, if not the increasing, of the fibre

content of the soil.

"Nearly all farmers are following rotations. They get into the habit of following some kind of a system, and if you are handling some land year after year you are bound to have some kind of a scheme worked out. Unfortunately we have too many farmers with a bad scheme—a bad rotation What we want to get introduced on every farm is a good rotation, and what is a good rotation on one farm is not necessarily the best rotation on another. That we appreciate this is shown by the fact that we have on trial on our experimental farms some twentyodd rotations in the West.

"I think the most important step in progression to be made on these prairies is the introduction of a better rotation. We have a rotation now, but it is a bad one. What we want to do is to change it and put a better one in, anthat is what we are trying to reach at this Conservation meeting. If we could get that change-if we could get the farmers of this country thinking along that line. the changing from that three-year rotation in the West or four-year in the eastern part of these prairies. including a summer-fallow in each case, and considering all the possibility of our hoed or cultivated of varieties better suited to the crop, we shall have done more for agriculture in these provinces than any other convention or meeting of men has ever done in the history of the Prairies."-From address of Dr. J. H. Grisdale, at Conference on Soil Fertility of the Commission of Conservation at Win-

#### Fox Breeders' Association

## Important Step to Promote Welfare of Canadian Silver-Fox Ranching Industry

In February last the Commission of Conservation called a first chilly weather brings the conference in Montreal of all furnace into use. This fall in interested in the fur trade. As temperature is almost invariably interested in the fur trade. As temperature is amost concerning the form of the full trade of the full this association, which has been furnace, the period for consumporganized by leaders in the Prince tion of coal could be shortened,

increasingly valuable one, not only in Prince Edward Island, but in all the other provinces where a substantial start has already been made. Perhaps the most immediate benefit which the association of live-stock breeding.

The objects of the new body are

as follows:

The Association shall have for its object the encouragement, develmembers of the raising of purebred silver foxes in Canada.

(a) By keeping a record of the breeding and origin of all foxes held in captivity by members of the Association, and by collecting, preserving and publishing data and documents relating to the

(b) By establishing standards of breeding and by carrying out a system of registration for its mem-

(c) By adopting means from time to time for the protection of its members engaged in propagation and breeding of pure-bred silver foxes in compliance with the Live Stock Pedigree Act or any regulations or by-laws thereunder.

(d) By maintaining an efficient inspection among members of the Association to prevent, detect and

punish fraud.

(e) By compiling statistics of the industry and furnishing official and authentic information in regard thereto.

## Wasting of Coal **During Scarcity**

Shortening Periods of Use and Effi-cient Operation of Furnaces to Offset Shortage of Coal

Eastern Canada is facing a serious coal shortage. Due to labour troubles, the output is below the average, while railway companies are handicapped by shortage of cars. Hon. Frank Carvell, Chairman of the Railway Commission, which is now control of the fuel situation, has stated that we will be fortunate to get coal, regardless of price. Every effort must be made to reduce the consumption, and to secure the greatest heat efficiency possible from the supply available.

Much coal is wasted by the too early starting of furnaces. The

ing the welfare of commercial imported 4,758,419 tons of anthrafur-farming throughout the Dom- cite coal in chestnut, stove and The production of value egg sizes. Our heating season able pelts in captivity has become is approximately seven months a a scientific and well-established portion of which at the beginning industry and should become an and end is comparatively mild By an average lessening of the coal-burning period of 20 days say, five per cent of this anthracite would be saved, or 238,000 tons With coal selling at an average price of \$15 per ton, this saving tate benefit which the association price of \$15 per son, this saving can bestow on the industry is would represent upwards of the establishment of a proper \$3,500,000. All of this coal has standard of registration, such as is to be hauled by rail. To move maintained for every other branch this 238,000 tons requires 4,760 cars of 50 tons each.

Economy in furnace operation would also considerably reduce the coal consumption. Much unconsumed carbon is discarded with opment and regulation among its the ashes, and much of the heating efficiency of the coal is also wasted through carelessness in firing or in defective installation.

The Mines Branch of the Federal Department of Mines has issued a bulletin, No. 28, "The Economic Use of Coal for Steam Raising and House Heating," by John Blizzard B.Sc., which gives valuable information regarding the economic and efficient operation of steam boilers and heating furnaces.

Every care should be exercised in the use of coal. With the limited supply available, the extravagance of some means that others will suffer.

#### **Exhibition of Live** Fur-bearers

As a result of the Fur Trade Conference called by the Commission of Conservation in Feb ruary last, an exhibition of live silver foxes and other fur-hearers will be held in Montreal the latter part of October or early in Nov ember. Details have not as yet been completed, but further announcement will be made in October Conservation.



covered on the Queen Charlotte Edward Island fox-ranching indus-islands.

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