## Woodlots and

By Proper Utilization a Permanent Fuel Supply is Assured

Woodlots on the farms can be made an important factor in the relief of the threatened fuel shortage. Farmers and the residents of smaller towns and villages situated within hauling distance of woodlots, should, as a measure of practical patriotism, use wood in

preference to coal.

Few farmers realize the value of the crop which can be obtained from their woodlots. If even a small proportion of the attention given to other crops were devoted to the protection and improvement of the "bush" a good financial return could be secured. Aside from its value in affording protection against wind and storms, its importance in the conservation of soil moisture and its aesthetic value, the woodlot has a considerable value for the crops which can be harvested from it every year at a minimum expense. It should have a place on every farm.

Live stock should be excluded as they destroy the natural reproduction, injure the larger trees and pack the soil so that the growth of the trees is retarded. Defective and diseased trees should be removed first; then those of poor form, such as very crooked or very branchy ones which interfere with the growth of better formed neighbours. The trees of the less valuable species such as dogwood, ironwood and hornbeam should then be removed. Every efforts should be made to secure natural reproduction but, if that be impossible. planting will be found profitable.

The tendency has been to encourage the growing of soft-woods suitable for lumber, such as pine, spruce and cedar, but the function of a farmer's woodlot is better fulfilled by producing hardwoods for

The fuel value of one cord of several of the common kinds of wood is equal to the following quantities of anthracite coal:

Hickory and hard maple 1,800 to 2,000 lbs. of coal; white oak, 1,540 to 1,715 lbs. of coal; red oak, black oak and beech, 1,300 to 1,450 lbs. of coal; poplar, chesnut and elm. 940 to 1,050 lbs. of coal; pine, 800 to 925 lbs. of coal.

Therefore, hardwood is worth, to the owner of the woodlot, from \$6.00 to \$9.00 per cord, as compared with coal at \$10 per ton, plus the cost of hauling it out to his farm.

If a yield is to be sustained permanently, it should not exceed the annual growth which, in unmanaged woodlots, probably does not ex-

creased by careful management. A Fertilizers woodlot may be considered as Their Value similar to a savings' bank account from which the annual interest, represented by the growth, may be In the case of the woodlot, howproductivity.

and the various provincial forestry first have sound education, the outorganizations have done much to come of science with practice, on legate them to the class of

## and Farming

Fertilizers have a place in a taken out or allowed to accumulate. rational system of farming; but be necessary for the economic farmers should first clearly under- keep and increase of soil fer ever, the withdrawals can be so stand what that place is, if our made as to greatly benefit the con- land is to improve rather than to izers in farming, and we are dition of the stand and improve its deteriorate, and if financial loss, due to injudicious purchase of fer-The Dominion Forestry Branch tilizers, is to be avoided. We must the land, however, who have encourage farm forestry by sup- the principles involved in the up-

clusive use. I feel assured we never see the time when ferti can be profitably used as a tute for those means which se and practice alike have she

But there is a place for ing our farmers to find it. are those of the old school sti faith in fertilizers, those wh medicines, as frauds and fakes, who say they act merely as a r to a tired horse-as stimulant not food. The number of persons is happily decrea Again, there are others who, a as ignorant of the principle agriculture as those just refe to, argue that if fertilizers sources of available plant food that is necessary to increase crop yields is to apply them ge ously. These persons are ig of the fact that there are li factors to crop growth other the presence of available food. We may enumerate t First, there is the nature physical condition of the soil capacity for holding moisture pendent upon its texture and humus content), in other w its power to withstand drought, its degree of aeration, its drain etc.-all those qualities of a ical character which make for easier development of the root tem. Second, the character of season, by which I mean amount and distribution of a temperature, hours of suns ete. So far as we can see toseasonal conditions are the potent of all determinative fa in crop yields in Canada, as bably, also, all over the w Thirdly, there is the inh capacity for growth and rep tion in the crop sown. All with some others, are lin factors that cannot be overlo they are factors which may a profoundly modify the effect fertilizers. For instance. heavy undrained clays. chance is there that fertilizers play their part in nourishing crops? On the other hand plants can only absorb their in the form of a solution, how fertilizers feed the crop, if. to lack of humus or want of face cultivation the light readily dry up with a few drought? Or, again, if we sowing a variety of oats, the lificness of which is measure 40 bushels per acre, can we m yield 60 bushels by simply fe it? Many of these limitations be in some degree over through the application of teaching of science-of chemi physics and biology, but they not to be overcome simply by application of fertilizers .- Dr farming profitably from their ex- Commission of Conservation. T. Shutt at Annual Meeting of



THE WOODLOT COMES INTO ITS OWN

The shortage of fuel problem has no terrors for the farmer who has a woodlot on his farm

Dominion Government distributes position, value, care and applicaannually between 3,000,000 and tion of farm manures, on the de-3,750,000 seedlings and cuttings sirability of more live stock on our among the farmers of the prairie farms and the greater consumption provinces. In Ontario, the Forestry on the farm of the land's produce; Branch of the Department of on the importance of rotations, and Lands, Forests and Mines also sup- especially the value of clover and plies seedlings for planting in other legumes in the rotation for farmers woodlots.-R.D.C.

## Organization Needed

High Prices Due in Great Part to Speculation and Manipulation

High prices of food stuffs are due, partly, to the shortage of food, partly to waste in handling and, partly, to manipulation of the markets and to speculation. It is estimated that 80 per cent of the Canadian farmers sold their wheat last fall at \$1.40 per bushel. Who received the difference between that price and \$2.80 per bushel, the price which recently prevailed? Here is work for the food controller or a food dictator. The people are becoming restive respecting the speculation in wheat and in all other food products and would be glad to see the elimination of the speculator. Wherever profits are abnormal and unreasonable they should be confiscated.

The raising of cattle in Rhodesia has now reached the stage where meat canning plants must be provided to care for the excess output.

Douglas fir has been recomceed 34 cord per acre. This pro-duction can be considerably in forester of that country. This pro-farming profitably from their ex-

plying advice and assistance. The keep of soil fertility, on the commaintaining the humus and nitrogen of a good seed bed. When all these matters are correctly understood and practised, then and not before, may we advocate the judicious employment of fertilizers with advantage, in general farm-Fertilizers are no panacea for the evils of poor farmingthey connot be depended on solely to give profitable yields, to leave the land richer for posterity than when first broken, or entered upon. That is what we ought to aim at, for our native fertile soils are a great and important national asset and inheritance. Our experience has shown that fertilizers cannot profitably be used as substitutes for manure, for the growing of clover, or for good soil management, but that their rôle is rather supplemental to all these rational means for the up-keep of soil fertility. I make this statement for two reasons. First: At the present time, those who are urging us to a large and practically universal, almost indiscriminate, use of fertilizers; and second, from our voluminous correspondence on the subject, it is evident that, for the most part, it is the man using poor farming methods who is clamoring mended for the reforestation of for cheaper fertilizers, and who