

FARM WEEDS



The annual losses due to the pernicious weeds occurrence of upon farm lands, although acknowledged in a general way, are

WILD OAT-(Avena Fatua,) The stems are smooth and erect, while the head se panicle with nodding and spreading branch-oats havea thick hairy chaff and long bent awn, h brown hairs, which distinguish them from ng, July and August. An

far greater than is realized. The losses can be appreciably lessere however, by treatment base upon an accurate knowledge the nature of each weed.

Most farmers give little critical attention to the weeds grow among their crops. Some think that, because many of these plants are unfamiliar, the exact recognition of all of them is impossible. This, however, is not the case, and, as the different kinds vary greatly in their power of robbing the farmer, it is certainly advisable that more attention should be given to weed pests. Although several hundred kinds of plants grow wild in almost every locality, and many of these may appear among cultivated crops, comparatively few give serious trouble not more than there are different kinds of crops grown—and every cultivator of the soil knows the difference between wheat, barle oats, rye, peas, turnips, b It is no more difficult to b names, nature and app Stink-weed, Hare's ear False Flax, Canada Th

etc., than to recognize the familiar cultivated plants.

In the official bulletins which have been widely distributed dur-

ing recent years the weeds have been named uniformly, though many of them have other local names. It is therefore clearly important that those for whose benefit the bulletins have been prepared should know the plants by the names officially recognized, so that they may be able to make the fullest use of the information.

The prevalence of some species in certain parts of the Dominion must be viewed with gravest alarm, for thtey have taken such possession of the land as ous on their first appearance. Hence we have 'One year's seeding, seven years' weeding.' There are some weeds so noxious that if farmers knew their real character and recognized the plants on their first ap searance, they would postpone all other business until they were destroyed . . . Selfinterest should be a sufficient incentive to farmers to destroy weeds if it is clearly shown that it will pay them to do so,"-H. Mackellar.

WHAT IS A WEED?

There are many definitions of the word, but perhaps from a farmer's standpoint the best one is, "Any injurious, troublesome or unsightly plant that is at the same time useless or comparatively so." As a general statement, it may be said that our most troublesome weeds have been in-

troduced into Canada from other countries; but it is also true hat, under special circumstances, some of our wild native plants may increase and become noxious weeds." Losses Due To WEEDS.

It is impossible to determine acthe soil and wasting it by evapora-

2. Weeds crowd out more useful plants, being hardier and, as a rule, more prolific.

3. Weeds are a source of expense. From the time farmers begin to prepare their land for a crop, these energies increase the cost of every operation-of plowing, harrowing, seeding, cultivat-ing, cutting, binding, carrying and threshing as well as in cleaning, freighting and marketing the produce. Direct losses are the larger consumption of binder twine necessary when weedy crops are harvested, the extra wear and tear on machinery due to coarsegrowing weeds, and the depreciation in the market value of the crops because of the presence of weeds in hay or of weed seeds in grain.

4. The eradication of the worst weeds is costly in labor, time and machinery, and frequently prevents a farmer from following the best crop rotation, or even compels him to grow crops which are less advantageous.

5. Many weeds are conspicuous and all are unsightly on farm lands. They thus, in a varying degree, according to their several natures, depreciate the value of land.

6. Some weeds are harmful to stock, being poisonous, as Water Hemlock; others are injurious to their products, as burs in wool, or Wild Garlie and Stinkweed,



canada Thisti, R sial. Very hardy weed bear a large number of nd pastures. Seeds average plant production province; which bear

Ox-eye Daisy the Maritime Provinces; Field Sow Thistle in the Maritime Provinces, Quebec, Ontario, and the Red River Valley in Manitoba; and Stinkweed or Penny Cress, Ball Mustard and Hare'sear Mustard in all the Prairie Provinces.

Thistle

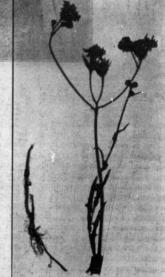
most every

The increase of weeds is frequently due to the fact that trough ignorance of their noxious orance of their noxious

Sow Thistle, Sweet Grass, Quack, recognize those that are danger-

curately the losses to the individual farmer, or to an agricultural district or country as a whole, from weeds growing upon cultivated land. In various ways they lower the yield, depreciate the quality and value of the crops, and add to the cost of production.

1. Weeds rob the soil of plant food and of moisture, thus increasby taking up water from



PERENNIAL SOW THISTLE. (Sonchus arvensis.) ing the effects of drought

Perennial, with vigorous underground root stalks, and of milky-white juice. Seeds June to August. An average plant