342

tendent of Institutes and the other speakers, land as soon as the crop is off. existence on summer-fallowing.

FARMER. Sask

# The Eradication of Wild Oats in Saskatchewan

EDITOR FARMER'S ADVOCATE:

it might be advisable to impress upon every and the value of barley fed to swine are too well reader of the FARMER'S ADVOCATE the absolute known to require comment, and it would be lightened by what the travellers have to relate. necessity of, at the earliest possible moment, impossible to even touch on the raising of either Truth to tell, the writer feels that, without travelling becoming familiar with this, the worst of all weeds without going into the question of buildings, over the country at all when it is at its best, as did with which the western farmer has to contend. fencing, etc., which would make this article the visitors in question, he obtained at Guelph and Once recognized, the wild oat can hardly be mis- altogether too long. taken, and if it is found growing on one's farm, or in seed secured from any source whatever, the action with regard to it cannot be too drastic.

When tumbling weed was discovered in the western provinces it was said that it would, if allowed to spread, mean the ruination of the country, and of stink weed much the same was said. The former, however, was easily handled by intelligent cultivation without any change or interruption in the cropping to wheat; the latter, also, can be kept in check, if not entirely

At the present moment I do not believe that in the valley of Birch Creek, Quill Plains district. there is any plan on earth that will permit the Most of my neighbors on both sides of me, but on growing of wheat and the eradication of wild oats higher land, have been frozen out these last two to go on at the same time.

or quit.

On account of wild oats repending in considerably timers on how to escape frost. Some advocate that the Canadian Northwest presents the best opwheat growing on the wild oat infested land must high land; others land having a slope to the portunities to a man having perhaps £200 of capital cease until the wild oats shall have been attended north; then, again, some claim that water on the and a healthy wife and family. Such a one will do to, and to provide something, that will in a meas- north side will draw away the frost. In regard well to go out, not as a homesteader, but husbanding ure make up for the loss, must be one object of to the latter, those of us on the south side of the his resources for a couple of years, and then taking up any plan for the eradication of the weed.

any plan for the eradication of the weed. With this in view, it is submitted that where wild oats have spread over any considerable portion of the farm, the growing of an early variety of six-rowed barley, in conjunction with those on the north side, as we did not suffer but little. The first prize oats (for the northern division) at Regina, this year, came from the south side of the Little Quill Lake. To give my own opinion of frost, I have no-the prize oats (for the northern division) at Regina, this year, came from the south side of the Little Quill Lake. To give my own opinion of frost, I have nothe system of cultivation described below, will for give my own opinion of frost, I have no-prove the most profitable crop that can be grown during the treatment. There are a number of varieties of six-rowed undescribed below, will find prently of guickly as those on new land. After the frost barley that may be depended upon to ripen in quickly as those on new land. After the frost, success in the Dominion of every man of the type from 90 to 95 days in an average season. two-rowed barley usually requires from 100 to the potatoes were not even touched, not even 105 days, and wild oats, under ordinary circum- the blooms; then, perhaps, for another two stances, will not mature under 115 to 118 days.

deserted for the shadow; or of a Manitoba Fall complete the eradication, but if there is any doubt has not been much delayed at any time on account plower being turned loose in a section of Saskatch- of it, barley should be again sown in the fifth year, of frost. The season of 1908, financially, is proving ewan that must naturally depend for its very after spring cultivation, and the plan for the second year repeated.

new settlers, such as the treatment of seed for prevent the introduction of new wild oat seed. so that he is compelled to throw his sheep upon a mar-smut upon which the "Authorities," differing Separators should be carefully inspected before ket which does not in the least want them. The very materially, might easily come to an agree- they are allowed to pull in, not an ounce of seed astonishing thing is that, while the farmer has been ment if the importance of so doing were brought containing wild oats should be used, implements producing the muttor at a dead loss, the consumer home to them, but this letter is already much too should be cleaned when changing from one field has been getting no abatement on the retail price. Iong. allowed to roam over the land under treatment, pockets to purpose, and saying nothing. making trails across the field should not be permitted; in fact, every possible precaution should Quite a number of those who visited the Do-

Before going into the question of eradication, plan. The value of sheep in keeping down weeds,

FARMER.

a place in our last week's competition, but as the Columbia. winners were from Manitoba, we submit this plan The two most exhaustive addresses have, so far, as applying particularly to Saskatchewan. What been delivered by Mr. Barber and Mr. Hope. about Alberta? ED.)

## How Can Wheat Escape Frost

eradicated, without the cessation of wheat that high land is not so liable to be caught by growing; but with wild oats it is entirely different. frost as is low land. My homestead is situated ears whereas, a few of us have not suffered at all. That something must be done, and done at I have asked some of those who were frozen out and then we did not get any more frost for about On account of wild oats ripening in considerably a month. Many theories are advanced by old-

time in propounding a theory for the guidance of of the second sprouting. If, however, it is seen and inexperienced settlers, that in the older districts would brand him as a faddist, a dreamer or a crank. Before the commencement of judging in the Standing Grain Competitions, the judges meet at some central point and spend a day or two in arranging and becoming familiar with a system, and this, as nearly as possible, is followed out in immediately after the crop has been removed. and this, as nearly as possible, is followed out in immediately after the crop has been removed. But it did not last more than a week altogether and their individual work. 3rd year—Disc or cultivate 3 inches deep the frost disappeared just as the curlers were getting Why could this plan not be worked in con- during the last week in May, and sow 2 bushels ready to enjoy themselves. We had, also, a short Why could this plan not be worked in con- during the last week in May, and sow 2 bushels ready to enjoy themserves. We had, also, a short nection with the Institute Meetings? If a man of six-rowed barley per acre. Watch the wild had to submit the speech he intended to make at oats very carefully, and cut for hay if there is the meetings on his route to the criticism of the the least chance of kernels being formed before the farmer, as such, is, on the whole, happy. His Hon. the Minister of Agriculture, the Superin- the barley will be ready to cut. Cultivate the work has seldom been as well advanced at this tendent of Institutes and the other speakers, land as soon as the crop is off. there would be less chance of the substance being 4th year-Summer-fallow again. This should to get his cattle-courts cleaned out, and plowing to have been a very unremunerative one in general for the Scottish farmer. He cannot make ends meet at all, and, as if to mock him altogether, while mutton There are some other matters of importance to In the meantime, every care must be taken to is at a ruinously low price, his turnips have given out,

Founded 1866

#### SCOTSMEN'S IMPRESSIONS OF CANADA.

be taken to prevent the introduction of fresh minion during last autumn have been giving an seeds after the first year of the treatment. It does not seem necessary to go into the quest-ion of sheep, swine or cattle as an adjunct to this plan. The value of sheep in keeping down weeds, Canada, and been in touch with the leaders in her agriculture, can hardly pretend to be greatly en-Amherst as good an idea of the resources and capabilities of Canada as they have done who spent six weeks in the Dominion, and v'sited all her Provinces, from (This contribution was received too late for Nova Scotia and Prince Edward Island to British

gentlemen kept their eyes open, and discriminated what they saw. Perhaps what strikes one most in the addresses is the impression made upon the visitors by the possibilities of the Maritime Provinces and In your February 3rd issue, a writer claims the Northwest that men are apt to forget the older that high land is not so liable to be caught by portions of the Dominion. That a most excellent livelihood could be made in these older parts of the Dominion, goes without saying.

It goes without saying that all the reporters so far have indicated their high appreciation of the possibili-ties of the Northwest. They do not indiscriminately advise men to emigrate and homestead there. They admit the chances which may come to a man who goes once, there can be no question. In some districts, if they could give any reason, and they told me out with nothing but a good character and what may once, there can be no question. In some districts, in they could give any reason, and they could not out with nothing but a good character and what may wild oats are just making their appearance, while that their grain was in the milk stage, whereas, be on his back. They indicate that, for such a one, in others, which were practically clear a few years those of us who escaped the frost sowed our grain who is willing to work, plenty of work will be ob-ago, the pest has taken possession of some of the later, making it not so far advanced and so tained during the working period of the year, at rates is the pest has taken possession of some of the later, making it not so far advanced and so tained during the working period of the year, at rates is the pest has taken possession of some of the later, making it not so far advanced and so tained during the working period of the year, at rates is the pest has taken possession of some of the scaped. Last year the frost came on August 13, which will enable him to lay past enough to keep him during the non-working months, should he not succeed in getting an all-year engagement. But in the main, the recommendation of your recent visitors is Quill Lakes are certainly more fortunate than the investment in land which promises best to his

## March 10, 1909

by an actual germinat vesting, as its externa ever to its germinativ being frosted, from th may not be contracte the ferment cells which the starchy portion of active and fail to se element, when the g after sowing.

The weakened ger nutriment soon collar to the want of the ne to maintain its furthe of the internal develo your correspondent t damage to the germin

frosting. In the development blooming, the endosp grain, is first formed, cells containing the starchy contents into to develop, being onl the grain begins to ri may seem to be fully very, minute microso terior would show th were still in an under velopment is arrested the grain ripens with essential cells taking p

In districts which frost, those types which at the base should be only mature their gra stem, but also retard stem itself, thus arre maturity of the entire For such areas th

types, producing few if the risk from dam terially lessened. With regard to the

oat to damage by f enable your correspo occurs:

There are several fa development and rij differ from the gener types. One importapeculiar power of wh germination, that is, the ripened crop may but a portion of it re the following season, be damaged in occasi in the ground are alw in the second year. the wild type is that top of the ear bloor from the sheath, an florets, are in a very that the grain develo dosperm, or germ food ion of the grain in a v ty of the germ, and o the individual grain of structural growth than do the cultiva

produce a much large Immediately after first-blooming florets they detach themsel the ground, and thus type in the following at the top of the ear and fallen, ripe, to th lower portion of th The outer skin or hus become fully colored parent plant, but ma but quickly develo yellow, grey, or whi falls to the ground. oats (in which wild at harvest time, it w

### PLAN

be sprouted and killed in the first year.

2nd year-Cultivate during the last week in May, and sow 24 bushels of six-rowed barley per acre. By the cultivation before seeding the first we have the Canadian curlers here, and so far ratio to the immaturity of the crop at the time of sprouting of wild oats will be killed, and the bar-they have given our devotees of what is called the freezing ley, which should be ready to cut by the last of "roaring game" a series of very severe drubbings. There

The last year you could drive perhaps two miles, and described. miles the potato tops were frozen to the ground.

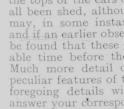
Three years ago, I had potatoes planted on old EDITOR FARMER'S ADVOCATE: land, and some on backsetting. There was no

1st year—Summer-fallow the land. That is, division between the two until the frost came, If so, how is it that the wild oat grain grows after plow from 6 to 7 inches deep during May or June, and then those on the backsetting froze black, being frosted?' and cultivate as often as a crop of weeds appears, and those on the old potato land were not By this means, a large proportion of the wild oats touched, the division was complete, as if somewithin three inches of the top of the soil will one had laid a straight edge on the field between the two kinds of land.

# How Frost Effects Seed Oats

W. T. K. entirely upon the stage of development of the grain when the frost occurs, if complete maturity of the grain has been reached very little detrimental effect

August, will be from ten days to two weeks ahead It is evident that our men cannot drive the stones at to the germinative value of a crop by frosting, except There is no means of arriving at the damage dono



In Nebraska, wh as dry enough wit are set straight wh valuable in the lig on our heavier cla