MAY 1, 1907.

otice where f wheat per nt of fields ung unhar

s too far

been done on a loose ved. Only

by excess very weed le to make be remem well rooted be attacked ; a crop i y root as will stand

ull vitalit e than one tending to runken o lants fron uch rough

s the drag be made VILLING.

len frame

g Crops.

e column: harrow or o, I would ch cultiva vocated ii itutes and shall soon e soil and the great eder, say ne at the d for use ble, doing conserves al benefit has come ise on the ereby (as but such carefull y enough ot to ball ld require er (which and giving case an wise, you is con or weed tances i he weed

langer 11

or Breed

e a more ould hav

to be more care exercised, but in this country we ating and killing the weed seeds by cultivation, a little less each succeeding year until last year only tougher and hardier than in other countries In order to get the best results for cleaning a therefore much less in danger of injury, and I field with this crop, it is necessary to disc it In 1905 I mixed red top clover and timothy seed. In 1905 I mixed red top clover and timothy seed mence on weedy soil immediately I saw the worked in to the soil with the disc. weeds showing themselves and continue it on After harvesting the crop, the land should be the crop. This stage would have to be entirely lower down and get them germinated and killed regulated by the opinion of the operator or in the fall.

Barley Culture and Weed Growth.

over-stimulating the growth of straw in barley

than in cats or wheat, by manuring, and it is the

most suitable of these crops for the application of

on the land during the winter or spring and should

for a succeeding crop of wheat.

EDITOR FARMER'S ADVOCATE:

very recently.

would in the case of oats and barley be sure not lightly as early as possible the fall previous together and sowed it with one and one half bushels to start work too early in the morning and to to seeding the barley. This will allow a large of oats per acre on land prepared in the same way select a bright, hot, sunny day for such work, as number of the weed seeds to germinate, either in as for brome and sowed with a press drill about the plants will then be wilted and consequently the fall or early in the spring. A good "burn' two inches deep. The result was a long heavy crop tougher; and it might be well to examine your will also help to clean up some of the weeds and of oat straw and only a few stems of clover appeared. plants before commencing and see that they are make conditions better for germinating those In 1906 I tried the same mixture again on the same tough enough for such treatment. Also it would remaining. When a good growth of weeds have be well not to undertake such treatment on land started in spring (towards the end of Max) the were made with the intention of taking off one or be well not to undertake such treatment on land started in spring (towards the end of May) the two crops of clover and plowing immediately after that was very lumpy with buried large clods, as land should be plowed shallow, and harrowed at and seeding to wheat, but I find the tests were they will be liable to be raked up or drawn out once to retain the moisture and to germinate expensive and shall resort to summer-fallowing as a from the lower part and thereby expose the roots more weed seeds. In about ten days (first week means of cleaning land of the plants. Of course with wheat there is really in June; the date will vary with the season) it In the fall of 1897 I drew an old manure pile out and no danger, as wheat, as you know, is a double should be harrowed again and seeded to barley. covered about twenty acres as evenly as possible rooter at any rate, having a top and base root. This treatment will germinate most of the weed and plowed and harrowed as I spread it on the land.

In 1898 I sowed wheat, with the result that a heavy according to its depth of sowing and grows from seed in the surface soil and give a good, firm crop of weeds smothered out the wheat and had to happen to injure the top root the lower one will of barley will not allow of harrowing after the piece of land has had very heavy crops of wheat each as the top root will have an opportunity of as will wheat. Barley land that has been man- massive head and always stands up where the manure ially beneficial to weedy soil and I would com- same way, only the manure should be well sure to be soft and lodge badly. My experience is

stage, in which you could see that it was injuring spring plowing to bring up some of the weed seeds keeps humus in the soil.

recommend too, that you have a competent in splendid condition for a succeeding crop of driver for this work, so as not to be crossing the drills instead of running parallel with them with a crop of barley. Of course, when the soil is badly "possessed," it may be necessary to is badly "possessed," it may be necessary to in harvest time. Besides, the land will produce a J. J. Golden, repeat the treatment, or to summer-fallow. But in harvest time. Besides, the land will produce a large yield per acre of good, clean, heavy grain.

C. T. S.

Rosedale Municipality, Man. W. A. A. Rowe. Deputy Minister, Agriculture. the above treatment will usually be effective.

C. T. S.

Cost of Growing a Wheat Crop.

Barley has until quite recently been a very Many people ask the question "What does it cost and it is surprising how many farmers through- profits to be made from buying and farming the been due no doubt, to the poor market and low West on this topic. At Brandon experimental prices that have prevailed for this cereal until farm the following figures were arrived at:

Barley is one of the oldest of our cereal crops made gave a yield of twenty-nine bushels at a food and oats for the food of his beasts, leaving items were: Plowing once, \$1.25; harrowing crop each man grows, is the most satisfactory barley to the maltsters. But of late years barley twice, 20 cents; cultivating twice, 40 cents; seed way of handling the vexed threshing question. has become more appreciated as a stock food, (one and a half bushels), 75 cents; drilling, 22 and at the present time our markets give a pre- cents; binding 33 cents; twine, 10 cents; stooking, mechanic and possess sufficient executive abilmium of only one cent per bushel for malt barley 16 cents; stacking, 60 cents; threshing, \$1.46; ity to thoroughly handle the men connected

this small premium, and considering the oppor- cents. tunity a barley crop gives of ridding our fields of Several years ago Supt. S. A. Bedford stated such as collections and payments, keep books, noxious weeds, it is plainly more profitable for that a yield of twenty bushels of wheat per acre and act as secretary-treasurer. I think the a farmer to grow it as a cleaning crop, even if it for which fifty cents per bushel was obtained reason that the threshing business is looked only produces feed barley. It is from this stand- would pay expenses. In recent years, despite upon with disfavor by so many people in the point that we wish to consider the cultivation of some crop reports, the yield has not been over 13 to 17 bushels per acre on the older worked lands, rigs have fallen into inexperienced and incom-Barley will do well on almost any arable soil, the deficiency being made up partially by the petent hands, and when the machinery fails though it does better on a loamy, well-drained higher prices obtained for wheat. Some farmers to come up to expectations of the purchaser, it soil than on the heavier clay soils. Its roots are do not hesitate to assert that as a paying crop, is condemned, together with the manufacturer, short and grow near the surface of the soil. For either barley or oats are superior to wheat, and as being no good. From what I have seen of this reason it is necessary to have a good firm when yields and prices are compared their con- the threshing business, I believe it would be a seed-bed for barley, to prevent it from lodging tention seems to be borne out. The figures step in advance to institute compulsory examiand to allow the moisture and soluble plant food given above are like those of immigration litera- nations for separator men, as well as engineers. to come up to the roots. Its short surface roots, ture, rather under the mark we believe, and it Such, in my opinion, would save a lot of trouble and the short period of growth, make it necessary would seem as if the cost of growing a wheat crop and reputations, and a certificate of such nature to have a fair amount of available plant food in a is well over eight dollars per acre. What do our would be a guarantee to the owner of the machine good batley soil. There is far less danger of readers think?

Favors Grass and Manure.

manure. The manure should be evenly spread Editor Farmer's Advocate. I have tried different methods of seeding to grass. and I think brome grass seed the more profitable to be well worked in with the soil before planting. sow on our heavy clay loam land. In 1901 I had a In this way the land will be in good condition piece of land that required cleaning and I adopted mature quicker than wild oats and hence that a the land in the fall as early as possible and many amount of work each will do. crop of barley will destroy the wild oats by allow- seeds germinated before cold weather set in, and

have so much light during the early part of the both before seeding and after harvesting the one and one-half tons per acre were realized. I season, especially strong sun, the plants are much crop.

both or either of them; therefore, if you should seed-bed for the barley crop. The shallow roots be plowed down. This was our very dry year. This continue to supply nuitriment until such time crop is up without considerable loss to the crop, year since, producing a strong stiff straw with a reasserting itself. This treatment is more espec- ured during the winter may be treated in the is, but on the ordinary summer-fallow the straw is (costs etc., considered), use manure on summer-fallow and work it well and you can reap twice as many every occasion that the soil was fit after rain, plowed and harrowed as soon as possible. This better sample than on ordinary fallow. Besides, crops of wheat with greater yields per acre and a until the crop had advanced to a considerable plowing should be two inches deeper than the land holds moisture better prepared in this way and

With regard to rotation of crops, my method is to divide the quarter section into 40 acre lots, if land farmer, because of the fact of the toughness of the grain having to be taken into account as to the (1) a paying crop of barley; (2) clean the soil of wheat off each quarter; follow with oats and barley amount of injury likely to be done. I would many of its noxious weeds; and (3) put the soil manured. Then more crops of wheat may be taken and then summer-fallow, except where land is manured. Then more crops of wheat may be taken

Too Much Incompetence in Threshermen.

EDITOR FARMER'S ADVOCATE:

The following are my views on the question secondary crop with the farmers of the West; to grow a crop of wheat?" when told about the of threshing, as concisely as I can express them: For myself, I may say I am decidedly in favor out the country do not grow it at all. This has virgin prairie. Data is not very plentiful in the of the small outfit for the average conditions. When I say small, I do not mean a toy machine, but a separator of say 28" to 32" cylinder, with The experimental acre on which the test was 18 to 20 h.-p. engine, so as to have plenty of power, as I believe a great many outfits to-day and for many years in European countries it cost of \$7.76. This included every possible item have not sufficient power. To my mind, an was a very close rival of wheat as a human food, of expense and also two years rent, or interest at outfit of this size, owned jointly by from two The Anglo-Saxon, however, chose wheat for his six per cent. on land valued at \$15 per acre. The to four farmers, depending upon the amount of One man of the company should be a good over feed barley. In feeding tests, too, barley teaming to market, four miles, 29 cents; rent or with the outfit, and he should be given full has proven itself a superior stock food. With interest, \$1.80; wear and tear of implements, 20 active control. Then a business manager should be appointed who would attend to all business, West to-day is because of the fact that so many that he was not being imposed upon by unscrupulous men looking for a job at high wages.

I am in favor of the small outfit for more than one reason. First, it does not cost nearly so much to run it, and when any breakage or stops occur, the expense is not nearly so great while the machine is idle; second, it is handier to move, and can be taken to places where the the Brandon Experimental Farm plan, which has larger rigs would be stalled; and third, the first lt has been claimed for barley that it will proved satisfactory in every particular. I disced cost is not nearly so great in proportion to the

The large outfit is all right for the man who ing them to be cut before they are mature. This again toward the end of May the following spring, has had plenty of experience, and intends to is not effective. Wild oats, though they appear green, will mature enough to reproduce vigorously during the life of a crop of barley. The valve of a crop of barley. The valve of a crop of barley. The county of t value of a crop of barley in the struggle with catch and the heavy mat afforded good pasture for wants it, I say get the small rig and your threshnoxious weeds lies in the fact that its short horses and cattle that fall and each fall since. I ing troubles will even then be found manifold, period of growth gives plenty of time for germin- cut about three tons per acre of hay the first year, and requiring a high degree of mechanical and