April 7, 1909

f seeding that is best Some times it is es deeper and again get the seed buried est advantage of the deep that it will exthe surface. When throws out a second and a half from the of, that in ordinarily should be put about 1 between seeding at growth is this: Anyor weaken the wheat s able to resist an ating smut. Generally t, but if shallow seedne young plant owing oot system to frosts, eding will have the ding. It is seldom, too shallow.

ply also in the case of ally sown on spring lifying circumstances t is often necessary et them next to the hey would do better and the weather reilways tell what the so unless the land is ad better not be put

growers in Manitoba plants. They plant in arrow until the plants he rows as long as is Moulding them up dry out too much.

ass and Flax

ed with bluestone,

ing a ten-acre piece either brome grass, flax as a nurse crop.

O. K. LIPTON. ; I prefer formaldeit, but the bluestone me the best results years' experience, barley much more either the smut of ul treatment of the mical, I have usually whereas I have

pondent intends to ed from scrub, the stern rye grass, will a good crop of hay I would hesitate to land is open prairie

e good old plan of as thin as possible, st, plowing up from ional soil, and afterut putting in a crop thoroughly rots the of wheat for some

king, it prevents the and, as it is almost 1 flax seed, you are from the beginning id enough to get the rocess, but it is inh your land infested ually found in flax

S. A. BEDFORD.

by contact with his ken words. He has ickwards for orders. that he is "bossing" prompt obedience is intelligence directs. nd, attached to the ot keep the eye hot vision, while it does ng backward, thered attention for the



A TYPICAL NORTHERN ALBERTA FARMSTEAD ON FARM OF T. BOOKLESS NEAR INNISPAIL.

A Farm All Fenced

EDITOR "FARMER'S ADVOCATE"

I have a section and a half of land which is divided into quarters and fenced with three wires. On half a pump water from a ditch up a rise of about 8 or 9 section, there is brome and timothy. The other section is nearly all plowed. In the spring, we turn the cattle onto the quarter-section. We are going to summer-fallow when they have this pretty well eaten down. They are turned into one of the others with grass on, and the other is kept for hay. When the hay is cut, they are put onto this, and the sum-mer-fallow again. There are fences on the quarters where the stacks are put; so, as soon as stacking is done they are turned on the stubble. B. B. Wapella District, Sask.

Wheat on Breaking

Writing from Arelee, Sask., one of our correspondents asks for experiences in growing wheat on new breaking. In our February 17th number, we pub-lished a letter from D. B., Calgary, in which he told of the excellent crops of fall wheat sown on breaking, after discing four times, but we have very seldom heard of spring wheat doing well on new breaking. Experience points to the system of breaking and back-setting as being the best in the end, although flax is sometimes sown on breaking, if it is absolutely necessary to have some returns the first year.

Renewing Brome Sod

Editor Farmer's Advocate:

Could you tell me in your paper how to renew a brome grass meadow? At what time should I plow it and how deep, and how treat it after it is plowed? Would it give a crop next summer if it is plowed after having this summer?

Pembina, Mun., Man.

I have always found that brome grass meadows will sooner or later become sod bound. This is, no out so freely that they occupy all the soil, and there is not enough moisture to go around. When this condition is reached, the plants fail to send up a sufficient number of storm of the stable of its would sufficient number of storm of the stable of its would sufficient number of storm of the stable of its would sufficient number of storm of the stable of its would stable of the stable of t

The remedy is obvious, viz.: reduce the number of plants and the remaining ones will make a vigorous growth and produce a paying crop of hay or pasture. I have noticed that the following plan gives good results: After haying, the sod is plowed quite thin with a breaking plow; the furrows should be wide and straight so that the land will be quite smooth when rolled immediately afterwards. It will then be easy to mow the following years. I have found this treatment kill just enough of the brome grass this treatment kill just enough of the brome grass plants to ensure a good crop of hay for a number of years and also leave the land in excellent condition

On breaking up a field of brome, I have often been surprised at the mass of roots that have accumulated. The soil is perfectly matted with them for a consid erable depth and when they decay, it must add a

large amount of humus to the soil. M. A. C. S. A. BEDFORD.

I am writing to thank you for the ADVOCATE knife which I received the other day. I am pleased with it and think it as good as any knife bought in the stores for seventy-five cents. I have shown it to many of my friends who say they are going to try to get one like it. As for the FARMER'S ADVOCATE it speaks for itself. I think it is the best agricultural magazine going.

MacDonald, Mun., Man.

Hydraulic Ram: Size of Ditch

Editor "Farmer's Advocate"

What would be the cost of installing a ram to



Miama's progressive farmers and winner of first prize for White Fife wheat at the provincial seed grain show, Winnipeg

sufficient number of stems to ensure a profitable like water in the stable, if it would not cost too much, as cows get on the ice in winter, and sometimes hurt

Ans.—1. It will be pretty difficult to get fall enough in a reasonable length of drive pipe where your fall is so slight as 7 or 8 feet in 100 rods. If you can so manage as to get, say, 18 inches of fall within 100 feet or so of the ram, the scheme is feasible, however. Your idea of leading sufficient water to one side of the ditch, and putting the ram in a box or well, will work all right if you can get drainage from the well to carry away the waste water. The cost will vary with the capacity of the outfit. A small-sized ram—i.e., one to work on a supply of, say, 2 gallons per minute—would cost about as fol-

7S :	
Ram	\$9.00
100 ft. of 3-inch drive pipe, it about	
6 cents	6.00
100 ft. of 3-8-inch discharge pipe, at	
about 3 cents	3.00
Digging and filling 200 feet of trench,	
say	4.00
Installing ram, say, 1 day's work of	
plumber	4.00
\$	26.00

The cost of stable fittings would vary with their simplicity or elaborateness.

2. Various dimensions might be stated, depending on width of the ditch at the bottom and the slope of the sides. If the ditch were six inches wide at the bottom, and the slope of the sides 1 to 1, it would need to be $9\frac{1}{2}$ inches deep. If, however, the sides sloped 1 horizontal to 2 vertical, and the ditch were 6 inches wide at the bottom, then it would have to be 11½ inches deep. But if the bottom width were 8 inches, it would only need to be 8½ inches deep. These dimensions are for a ditch with smooth earth sides and bottom, and running full. If the sides were rough, or grown with long grass, it would take a much larger ditch, as the friction would be very

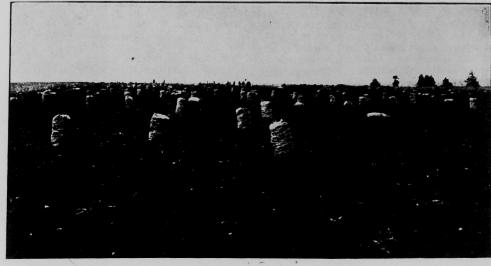
Foreign Crop Conditions

Crop conditions have been fully maintained in Western Europe, but in central and eastern Europe there has been undoubtedly more or less deterioration. The cold has not been excessive, but, owing to the variable temperature, the snow cover has been more or less deficient. The crops of Germany and Austria-Hungary, which were seeded late and under unfavorable conditions, have perhaps suffered most severely from the continued alternation of frost and thaw. From Russia, likewise, come pessimistic reports, but in the Balkan States and Roumania crops are thought to have withstood successfully the somewhat adverse conditions of the past month.

An extension of the wheat acreage in France by 400,000 acres this year is shown by a recent official estimate. According to a commercial estimate an increase of one-fourth that amount has likewise taken place in Great Britain. These gains, however, were probably more than offset by the impossibility of completing the sowings of winter grain in the countries of central and southeastern Europe.

The harvests in the Southern Hemisphere are now practically ended and that in India about to begin. This year once more the receipts from these midseason sources of supply will be unusually large. Reports during the last month indicate that the contribution of India and Argentina will be somewhat less and that of Australia somewhat more than had hitherto been

To pay the railway fare of all New Brunswick



POTATO CROP, 9 TONS PER ACRE. ST. MARY'S PRAIRIE, NEAR CRANBROOK, B.C.