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ment. It is a light load for four horses unless run was cut." very deep. We run it shallow and drive fast.

the plants. I do not believe in plowing manure No. 2. down deep, especially in light land. It seems to me that a lot of it is wasted if put down deep. alfalfa Mr. Thomas says: If we could grow grass successfully I do not think afalfa this year.

Man. "MIXED FARMING."

## Alfalfa in Central Alberta

EDITOR FARMER'S ADVOCATE:

Last year at Crossfield, about thirty miles north acre of old land to alfalfa. In each case I mixed until too late that I should have run a mower over the winter wheat and is growing better now." it after it was well started so as to give the weeds a set back and give the alfalfa a handicap over them, as once rooted it grows faster than the weeds. For this reason the weeds choked the al- Editor Farmer's Advocate: falfa in places on the old ground, but not on the new. I sowed it late to avoid cut-worms, which I think now was a mistake. When I sow alfalfa again I shall sow it in the regular seeding season. Shortly before freezing began I cut most of it. It was then in blossom, and the stand was very good. I left about a fourth of it uncut to see if it stood the winter better than that which was cut.

Before anything else began to show green this spring, the alfalfa produced its first leaves and began to grow quite rapidly. I have been reading a good deal about alfalfa culture and several writers said that it should be harvested in the spring to prevent the ground from hardening and to form a dust mulch for retaining the moisture. Accordingly I harrowed it. Nine of the writers had mentioned the fact that the harrow should not be put on till after a rain. I harrowed it as soon as I saw that it was growing well. There had been no rain, and the ground was quite dry on the surface. The harrowing damaged the alfalfa considerably on the old land, and somewhat, though not much, on the breaking, as the THE PULVERIZING PACKER IN USE IN SASKATCHEWAN soil in the old land was much more easily broken up than in the breaking.

crop on the breaking is better than that on the the second crop will die because of the flax wilt. old land. I am certain, however, that if I had In cutting use a flax dump, which all binder breaking. The breaking stood the harrowing to stack it. the better crop on the new land.

been used for three years as a truck patch. It had able frost. those on the breaking. W. I. Thomas. to perfection.

'No. 1 grew on new land and was cut; that is, yourself is best adapted for.

stroke each time, this leaves a slight ridge but No. 3 grew on the old land and the crop was cut with dairying he should dispose of his cattle. by running the centre of the disc on the ridge the at the time the area which produced No. 1 was However, all should keep poultry, hogs, sheep next time the land is left quite level. Ours is a cut. Unfortunately the idea of leaving some or horses, something that they can take honest sixteen disc and we find it a very useful imple- uncut did not occur to me till all the old land pride in, and they will succeed.

All the manure we have left we put on the advisable not to cut late in the fall. No. 2 be harvested when it is brown ripe and rattles. summerfallow, using a manure spreader, putting stands fifteen to twenty inches high, and is severa Of course, if it stands until the next day it won't it on as soon as the land is plowed. When it inches longer than No. 1; besides it is a bright hurt, unless a snow storm comes. With a fair has been disced two or three times the manure green and seems to have a vigorous growth. No. yield and prices such as have ruled for some time, is just where it is most needed—at the roots of 3, although cut in the fall, is practically as high as there is money in it.

Commenting further on his experience with

"This year's growth makes it certain that we would summerfallow any. We are trying alfalfa, here at least, grows better on old land EDITOR FARMER'S ADVOCATE: than on new, and better when not cut in the fall. I am very much encouraged with my alfalfa (1) Taking the earth from the bottom of the trial, especially as the test was made in a field slough, thereby deepening the hole and making the rest of which was sown to winter wheat. unsightly, dangerous holes, and (2) digging Although I have had considerable experience trenches in order to get dirt for grade, making the neighborhood and had no previous experience either in the dark or through a runaway, or in of Calgary, I sowed an acre of breaking and an with alfalfa, and in consequence made several any way loses control of the team, happens mistakes (which I would know better than to to drive over the edge of the ditch, cannot the seed with earth from an alfalfa field sent make again) and this has been a very hard season avoid an upset. me by the government experimental farm. In on winter wheat, the alfalfa came through the Earth should be obtained from the high ground both cases the catch was good. I did not learn winter and dry spring in better condition than and ditches should have a gradual slope or arch

## Flax as a Paying Crop

In growing a flax crop prepare the ground



been cut. In the uncut part the snow lay deep to follow with a crop of Mandscheuri barley. one levelling and two filling scrapers. all winter, and moistened the ground well in the Do not try to grow flax on the same land more spring. It has grown well this season. The than once in seven or eight years. If you do

understood alfalfa better and had cut it when manufacturers make to fit their machines. It

best. The weeds and the harrowing account for Flax is a strange plant. If sown too early it wheat in North Dakota, July 1, was 45, in Mingrows, and the frost kills the young plants. As nesota, 73, and in South Dakota, 64, as com-The old land on which I sowed the alfalfa had the plant becomes older it will stand consider- pared with a condition of 95.92 and 94, for the

raised white turnips, swedes, mangels and pota- I am of the opinion that flax can be grown suc- ing June there was a serious deterioration in the toes, and was worked fine to a considerable cessfully in many localities in Alberta, as there spring wheat outlook in North Dakota especially, depth. This told decidedly in the growth of the are places here which have six weeks longer sum-condition decreasing from 93 to 45. Lack of

Some like flax as part of their annual crop. An inspection of the samples shows that it is Others will not grow it. If it is grown it should

> A. L. DICKENS. Alta.

## Grading Country Roads

Two practices that are very objectionable are: with winter wheat and have the best piece in the edges perpendicular so that any person who,

> such as a road grader makes; also back of ditch should have slope enough to allow a team and rig to be driven through at right angles.

In order to utilize the ditches for drainage, it may be necessary to haul the dirt some considerable distance. For this purpose wheel scrapers thoroughly, and sow about June 5th. I have are advisable; in fact, in any case they are best. A wheel scraper holds nearly one yard. The small scraper holds about one-ninth of a yard, and each scraper takes a man to work it. Three wheel scrapers, a snatch team and a plow team makes a good outfit.

With regard to culvert, either tile or stone piled across the slough bottom, the pile to be large enough to give drainage. A pile of stones three feet wide and two feet six inches high would be enough with smaller stones on the top and sides, and a gravel finish where possible. This kind of culvert is indestructible and almost everlasting. The end up stream should project three feet beyond the grade. In view of the heavy traction outfits that travel the roads, a grade should be twenty feet wide on top where the grade is over two feet high. It is desirable to drain the water, if possible, in order to prevent the washing away of grade, and it may therefore be necessary to make a ditch on one side of the road only.

This, in my experience, is the cheapest and known excellent crops to be harvested that were most effective gang for constructing grades It all wintered well, especially that which sown June 20th. Sow 14 quarts of seed per through sloughs; the same outfit could be used was not cut in the fall. The land was level, and acre. As flax is very hard on the land—that is, on a grader if so desired: One snatch team; did not hold the snow well where the alfalfa had land sown to flax becomes very foul-it is well three wheel scrapers; one plow team; three men,

JOHN PARKER.

## Spring Wheat and Oats in U. S.

The July crop report of the United States deabout six or eight inches high to kill the weeds costs about \$7.00. Leave the crop in the field partment of agriculture discloses a rather serious and had not harrowed it till after the first rain just as it falls from the binder until you are state of affairs in the Northwestern States. in the spring, the better crop would have been ready to thresh, provided you can thresh in a The states of North Dakota, Minnesota and on the old land, for my father had weeded one reasonable time. Then haul direct with teams South Dakota contain nearly 85 per cent. of the corner of this piece of ground, and there was a to the thresher. However, if you are not able area sown to spring wheat in the United States, much stronger crop in that corner than on the to thresh until quite late in the season it is best and in these three states the most serious damage has been done. The condition of spring three states respectively on July 1, 1909. Duralfalfa, for where the weeds were kept down, the mers than others. There are many such fa- rain and long periods of intense heat with drying alfalfa plants were much taller and larger than vored localities in Alberta where flax can be grown winds has burned up the crop to such an extent that in some sections farmers are plowing up Note—Since sending these notes samples I say, farmers study your localities. Branch their fields. In Minnesota the early sown oats grown under different conditions have been for- out! Do something different from what the are ripe, or rather have been cooked white, and warded. In giving an outline of what these mass of farmers are doing; and, most of all, thousands of acres of this cereal are ready for samples represent, Mr. Thomas wrote on June 20: study your own farm, and learn what it and the binder and scarcely high enough to cut. In oats Illinois and Iowa are the chief producing the crop was cut last year after we began to have. It is useless for a man to try to do anything states, and in both this crop has gone back conlight frosts at night. No. 2 grew on the same if he is not really in love with the work he is siderably in the last month. In North Dakota new land, but the crop was not cut in the fall, trying to do; for example, if a man is no, in love the condition of oats is given as 42, where it was