Founded 1866

May 11, 1910



eful considerapply really is may be essenffered merit a

country the old

tion

eat. one of oats , has had to be ation adopted. cases necessary n soil, can be n a profitable of soil fertility. a cheaper or land ready to ive got to plow atisfactory and hard to keep e plowing done evertheless, we ies arise against 'e must aim at n we know of to her-fallow. 1 ideal rotation? on that will give profitable crop keep the whole , and keep the will not allow of farming that must give as he rotation that is one that ex-To begin with, it in rough contre on this plowFARMER'S ADVOCATE AND HOME JOURNAL, WINNIPEG

that will abolish the summer-fallow, but it can Now, the question is : Is the above system at right to impoverish our farm, leaving it dirty and keeping the land at all clear of weeds ? On the As the plot to be entered in the provincial comuseless for the rising generations.

YOUNG MANITOBA FARMER.

"Sabbath" System on the Land

EDITOR FARMER'S ADVOCATE :

my own benefit. I visited and examined in de- be better for the country that it be abandoned. soon be here, so farmers should get busy and be tail over one hundred pieces of fallow, ranging Summer-fallowing has been carried on for among the 1,000 progressive ones who will take in size from ten acres to two hundred acres. They many generations in many countries, but it has up this competition. had been plowed some time after seeding and not been continuously popular or continuously While alfalfa is adaptable to a variety of condisced and harrowed. Fifty of the fallows were practiced. It becomes a fad or rage for a few ditions and is found in all countries where agripoorly plowed and very little better disced and years and then almost vanishes. It is now a culture is practiced it has certain well defined harrowed. The balance were better plowed and well known fact that it does not really enrich characteristics which must be kept in mind if the cultivated, shading down to a very few that were the soil. It is a well known fact also that greatest degree of success in growing it is to be well done. Fifty of them had a fine stand of a field kept naked during a season dissipates, de- attained. Alfalfa thrives best on a well drained every weed in the catalogue, from a Canada stroys almost the whole bacterial life so neces- loamy soil with a porous subsoil, as it is a deepthistle down to a creeping wheat weed. These sary to the breaking down of any material con- rooted plant and sends a large tap root to a depth crops had matured and ripened hundreds- taining plant food, fertilizers, and committing it of five to fifteen feet. While it utilizes a large ves, thousands-of bushels of weed seeds. The to the ground for feeding plants. fifty pieces would aggregate two thousands acres. Is there not a better system of accomplishing tially a drouth-resistant plant and kills out when No effort whatever had been made to destroy this our objects than fallowing? There must be, sown in fields that are subject to flooding. In vast amount of seed. It was simply returned Not that there are no conditions and circum- land that is not too heavy but inclined to be to the ground. Thirty of the remaining plots stances in which summer-fallowing is of immense sandy its root system is better able to penetrate had been a little more carefully looked after, value (dry farming, for instance), but as a uni- and draw the required supply of soluble plant vet there was more seed matured and returned versal practice it seems to be out of place. to the soil than was destroyed by the fallowing. Of all the systems of renewing the soil and of The soil should be well cultivated and firm. Ten of the remaining fallows had received a later keeping up its vitality yet discovered and prac- Alfalfa thrives when grown on land which was attention, and for all that had grown a lot of ticed by men, the system that may be called the planted in the previous year with potatoes or weeds that could not help but mature as much "soil Sabbath," as practiced by the Jews for some other hoed crop. For the same reason a seed as had been destroyed by the time frost hundreds of years, looks best. Were a return piece of summer fallowed land is very suitable for came. Five of the ten lots had been heavily to that old system made I am satisfied that our alfalfa as, if it has been properly and intelligently covered with weeds, but cattle had been herded land would never exhaust and that weeds would worked, the growth of weeds will have been thereon before the seed matured in any per- be more easily kept in control. Crop a field for checked, moisture will have been conserved, the ceptible quantities. Three plots had been so six years to our heart's desire, but give it an soil will be firm and in a good state of tilth constantly cultivated that weeds could not be absolute rest the seventh year. Return the whole so that the tiny rootlets can obtain a foothold observed at a distance. No seed had matured, of the seventh crop to the soil; do not allow it to and be able to develop for the support of the but the owner complained that the weeds had be plowed, cultivated, or fed off by animals; plant at a later date. This crop, however, been destroyed at the expense of a poor crop the if cut to prevent weed seeds maturing leave all on should never be sown on a summer fallow that is following year, as the straw would be so heavy the ground. Bacterial life would multiply, and subject to drifting, as the seed may be uncovered that it would lodge and not properly fill with the work done in preparing the soil to grow its or blown away. If other suitable land is not grain. The two remaining lots are really under heaviest crop that year, would so enrich and available, a piece of stubble should be prepared experiment. They were plowed the first time vitalize the land that it would yield up bountifully early in the spring. The preparation of spring when the weeds, grass and trash had made as for all time to come-it would grow fat. I do plowed land involves early plowing to a depth large a growth as possible without danger of not know of any other system, on a large scale, of about five inches, followed at once by harrowripening seed. Chains were put on the plows, and that will accomplish what we desire to do by ing and packing or rolling. Plowing should be the whole well plowed, and the weeds well fallowing; and it is admitted that fallowing is not done as early as possible in May and seeding covered. The fifty-acre lot had been fed off by an economic method of fulfilling our purposes, about the end of May. cattle, and had not been touched with disc or except it be a return to the above, and well Weeds are among the worst enemies of alfalfa harrow. The ten-acre lot was not fed off, but al- tried system, the soil Sabbath. lowed to grow a second crop of green and again chain-plowed, but not touched with any implement except the plow. When it froze up not a living weed could be seen. The soil of the last two lots seems to be well filled with plant mois- at least part of a field to kill weeds and form a developing without the competition of weeds. ture.

be done, is being done now, and it pays. What- all universal in Northwest Canada, or am I in a ever plan we adopt and whatever system we fol- shiftless summer-fallowing district ? Is summerlow, be it remembered that posterity has a claim fallowing of any value to farmers as a whole ? Is falfa have been sent out by the Saskatchewan to this country, so that we have absolutely no it a system of either replenishing the soil or of department of agriculture

Not being satisfied with the results of summer- it can be carried on on a very different system will be invaluable at a later date when the comfallowing I started off on an inspection tour for from what is in use at the present time it would petition is on in earnest. The year 1912 will

J. E. FRITH.

surface mulch to conserve moisture.

Alfalfa Growing Competition

The following practical hints for growers of al-

above block of fallows it would be putting the petition for cash prizes, totalling \$6,300, must matter very mildly in declaring that summer- consist of at least 10 acres and must be sown not fallowing thus carried on is worse than useless, later than 1912, persons who intend to take part outside of the fact that some land is partly ready in the contest must soon begin their prepara for the seed drill the following spring. I would tions. It would be well to begin with a small not like to disparage summer-fallowing, but unless plot this year and the experience thus gained

quantity of water during its growth, it is essen-

food.

and are a serious menace to the young crop, but if the land is well worked the weed seeds within germinating distance of the surface will have grown and been killed by frequent cultivation, When the crop is up well try a light harrow on and the young plants will thus have a chance of The cultivation necessary to secure these re-

ring disc the barley ; plow in nd seed down to ear pasture, and wheat, and sixth orn. It may not this system acbreak away at vheat, especially the sixth year. All these are contend, and cular conditions. beral use of the ace the weeds to retention of soil tre some of the ining the most ove rotation. hought is surely ng we can save re year, besides mmer-fallowing. wledge of some in connection stem of rotation

