## WINTER RYE

GROWS WELL ON DRY LAND

Prof. Shaw Tells How to Obtain The Most Success With This Grain in Central Oregon-Makes Good Hay and Pasture,

BY PROF. THOS. SHAW

(Written especially for The Bulletin)

to gather food from soils than other plowed under. When grazed the to encrust. Burial of rye in these grains. It furnishes good grain food drain on soil moisture is less than tends to more complete pulverizaerly fed. If out at the proper stage the transpiration is slower through The burial of this crop makes an exthe hay is not so much relished by burled as a green manure, the burlai winter wheat.

In dry areas should take place just before the sowing stage, and, thereformshea an excellent pasture plant.

Form before the sowing stage, and, thereform before the sowing stage, and, thereand it is a useful plant to bury in the The yields are usually not so high as those obtained from wheat but from what has been said it will adapted to the needs of Central Ore- wheat. gon and, therefore, should find an Important place in the same.

ment that would not furnish the best spring of the year. conditions for growing winter wheat.

grain. When it is sown for a grain alternate year, but tye crops may be crop not less than 5 pecks of seed grown more frequently. should be sown. More seed is called fore, before that time when the cropproves the most heavily on soil moisture, that is when it is maturing.

Winter rye should be buried about be apparent that this crop is well 234 to 3 inches, as in the case of

What has been said about the harrowing of winter wheat will apply Much of what was said with refers equally to the harrowing of winter ence to the growing of winter wheat rye. Both crops are usually much the paper that treated of wheat, benefitted by such harrowing when will apply equally to winter rye. It it is judiciously done in all areas will probably be found that the very where there is a shortage of rainfall best crops of winter rye will be grown where the ground crusts severely exactly on the lines submitted for the harrowing ought to be severe, but growing winter wheat. But winter not under ordinary conditions. In-

rye crops may be grown on other stances are on record wherein crops have been benefited by using the This crop will succeed with treat- disk to break up the crost in the

When the crop is grown for pas-For instance, it may be sown on ture the grazing may begin as soon ground from which a winter wheat is the pasture is enough to justify crop has been removed, the ground it, providing that the grazing will being played and privorized as soon not result in the encruating of the as the crop of winter wheat has been sell. There may be instances in removed, providing the plowing can which winter grasing would bring be done at such a time. If it cannot a bout such a condition. Where it be done then, it may be plowed as does not the crop may be grazed most suon as bosened by the fall rains of the wlater and up into the spring. The seed may then be sown. It may Where winter grazing would enbe sown at a period later than would crust the soil the grazing must be be suitable for winter wheat. The deferred until the ground becomes so latter should be sown so as to secure dry that no harm will result from the for it the entire advantages of the grazing. A large amount of grazing winter season's rainfail. The latter will thus be furnished by the rye in will succeed on a less amount of raintinued until the rye begins to joint. The aim should be to put this crop The ground should then be plowed in also with the drill. The amount and prepared for some autumn crop of seed to sow will be dependent on to be sown later. The wheat crop is the object sought in sowing the grown in best form when sown every

Should the rye be wanted for green for it will be noticed than in the case manure it should be buried in the The winter rye crop is the har- of wheat. This results from the less soil when approaching the heading diest of all cereals. It will endure degree of the stooling in the rys. stage. On the newly broken soil of when the crops is sown to provide Central Oregon, it may not be necessary to grow it thus for some time. It will grow under conditions that should be sown, and about the same except on lands with so much alkali are more dry. It has greater power amount when the crop is sown to be in them that they are much liable for any kind of live stock when prop- the leaf surface is less, and therefore power of these soils to hold moisture. of growth it may be used for hay but the leaves of the plants. When cellent preparation for growing

GOOD ROAD MAXIMS.

Good roads will bring a desire to seek country life. Good roads will bring country schools equal to thore in the

towns, We must have harmony in any effort for public improvement, Old methods of road construc-

tion must be abandoned. Bad roads are the sign of backwardness, indolence or careless citizenship. Mud is worse than an invading

army. Increase of wealth and pros perity immediately follow good

We cannot afford to have bad roads any longer.

Every voter should be a preacher, a worker and a fighter for good roads.—Jesse Taylor in Better Roads.

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RELATION OF GOOD ROADS TO HOME TRADE.

Farmer Will Buy of Local Merchants if He Can Reach Them,

Again and again it has been pointed out that the growing tendency toward buying by mail from far distant bouses. as far as the farmer is concerned, is directly traceable to the fact that be is growing away from the habit of driving into town once or twice a week, particularly on Saturdays visiting the local stores and keeping on friendly terms with the merchants. In other words, the success of the mail order house depends largely upon its ability to create a feeling of antagonism between the small merchant and his

The Saturday trip to town is one of the foundation stones of merchandising in the country. Take a Saturday afternoon photograph of the main streets in any moderate sized town, and if it shows a shortage of hitching room and a fair mixture of automobiles it is safe to say that local institutions are being supported.

To encourage the farmer to come to town regularly some communities have instituted regular series of Saturday fairs. Instead of having one big celebration during the season, they have some event scheduled for each Saturday during the summer and fall, advertise broadcast throughout the surrounding territory and put on their special sales and special displays to catch the Saturday crowds.

If the farmer is making money he is apt to put some of it into good horses or an automobile, providing the roads are in such shape that he can realize on that kind of investment. But bad roads are the farmer's curse. If he knows that he must travel four or five miles of muck a foot deep to get to town he will stay at home and let the R. F. D carrier take his order for cloth ing, groceries or lumber.

Of course the benefits of good roads can be enjoyed only by such towns as hose where merchants are progressive selling good merchandise at reasonable prices. But, given that first requisite. nothing else will help the local merchant keep his farmer customer in line so much as frequent personal contact. Here is where the Saturday trip to town counts in dollars and cents in the dealer's cash drawer,

American business men are learning that "hard times" can be overcome if the right curative measures are em ployed, and-what is more importantthat locally at least business stagnation can be prevented by judicious stimulation of trade. This lesson is rapidly being assimilated by the country's retail merchants and they are coming to appreciate more fully the bearing on their business of such questions as this of good roads. When they finally arrive at some means of co-op erative action on such problems and put that co-operation into effect the country will not longer suffer from

Every merchant should study this good roads question until he grasps it fully and outil he sees that it is his

many present causes of unrest.

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BEND, OREGON

Balt For Live Stock.

of live stock all the time so that the animal body may get all the salt it calls for, says the Kansas Parmer Common salt or pulverized salt is preferable to rock sait. The latter irritates the tongue, and very often the animal will not satisfy itself on account of a sore tongue. The most economical means of using sait is to place it in a box or trough under roof to prevent its being dissolved. Be sure that sait is always in the box. All farm animals should have access to sait. We do not believe in giving sait in the feed except in the case of chick eus, when all mashes should be skited However, the chicken has small requirement for salt, and an excess of sait is poison to the chicken. The nor

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NOTICE FOR PUBLICATION.

Land Office at The Dalles, Oregon, August 8, 1912. Notice is hereby given that Martha

Good, of Bend, Oregon, who, on Noread by hundreds and brings the ad- vember 3, 1910, made homestead entry, No. 67664, for N 16 SE 14, N 16 SW 4. Section 35, Township 19 South, Range 15 East, Willamette Meridian, has filed notice of intention to make Commutation proof, to establish claim to the land above described, before H. C. Ellis, United States Commissioner, at his office at Bend, Oregon, on the 20th day of September, 1912.

Claimant names as witnesses: Geo, Millican, O. C. Henkle, F. E. Kopper, and U. N. Hoffman, all of Bend, Oregon.

C. W. MOORE, Register.



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