Cereals for Central Ore. Ing in the lan, over same eye opener to many not familiar with the crop. Some of the points which are absolutely necessary for a maximum as so cu

By L. R. Briethaupt, Superintendent Harney Branch Experiment Station. (Oregon Countryman.)

In a consideration of cereal crops er cereals and is not so palatable to adapted to Central Oregon it must be remembered that climatic condition—moderately severe winters, short growing sensons and low prefer severely from winterkilling and short growing sensons and low pre-cipitation—are potent factors in de-termining crops and crop varieties that can be economically produced. Of the spring cereal crops, spring wheat has given the most profitable vields. Of the many varieties grows, gions where winters are mild, or sea-gions where winters are mild, or sea-gions cod rainfall ample may be for the three years trial. It is a sons long and rainfall ample, may be for the three years trial. It is total fallures here. wheat of good quality and altogether

total fallures here. The Harney Branch Experiment well adapted to our conditions. A Station was established in 1911, variety known as C. I. 2495 newly Among other things related to the put on trial made an excellent show. Agriculture of Central Oregon, ex- ing in the season just past and may periments with cereal crops on un- prove of worth later on. periments with cercal crops on unirigated land are conducted, that the crops best adapted may be determined, and that high yielding varieties of these crops may be segregated from the many existing varieties or this crop have been grown but sufficient data has not been collected from which to several the many existing varieties or the many

developed by selection or breeding.
It has been the policy of the Sta-It has been the policy of the Sta-tion from the start to use the summer lect any one lest variety. Sixty Day, method so essential to the profitable production of cereals in this region. Most of the Station was fallowed in 1912, the first real results not having been obtained until
Spring barley has not been a profitable dry land crop. Lake the oats,
work has been done.

work has been done.

Three years is not long to accumulate reliable data on crop yields. Though every precaution be taken seasonal variations play such an important part that only by averaging several year's results can accuracy be approximated. Many important facts have already been established and many points are get to be clear-

Cereal crop and cereal crop var-ley trials have been conducted with winter wheat, oats, barley, emmer, speit, and rye; also with spring wheat, oats, barley, emmer, rye and flax. Trials have been made with winter cereals sown very early in the winter cereals sown very early in the

Of the winter cereals tested, winter wheat and winter rye are most promising. Of these, winter wheat is the most dependable as a grain crop under good dry farming meth-ods. The Turkey Red group of wheats have shown considerable su-periority in hardiness as well as high yield of high quality wheat. C. 1. No. 1558 has produced the highest average yield of the several Turkey Red strains on trial.

Winter rye heads very early and is a good hay crop and may be grown for grain in favored localities. For unsafe grain crop, except in localities where rosting is infrequent. As the added to whater and spring wheat the added to whom the added to whater and spring wheat the added to whom ties wheref rosting is infrequent. As he added to whater and spring wheat a hay grop it is good, especially as a practical grain crop. Flax may where rodents and rabbits are numerous. It comes on earlier than others, and the second second into use as a first crop on earlier than others.

follows:

Swedish Select, Iowa Silvermine, Big Four and others have all done well in individual seasons, Sixty Day is probably the best on dry land.

as grain yielders. Both are excellent

recommended for growing on Central Oregon irrigated lands. Swanneck

and Hannchen varieties of barley have yielded best in wet years; White

Smyrna, Marious and California

Feed in dry years.

Spring rye is undoubtedly a safer

grain crop than winter rye under average conditions, but it is not as

Of the winter cereals sown early

in March, winter rve has given excel-

lent results both in grain and hay; winter spelt has done very well; win-

ter onts, barie, emmer and wheat have not been practical so sown.

So far as the tests at the Harney Branch Experiment Station have

gone, the best cereal grain crops for Central Oregon dry lands are Turkey

Red winter wheat, Early Baart spring wheat and spring rye. Winter rye is a good hay crop and may be grown

crops under irrigation and are to

1. Use of good seed,
2. Innoculate with purec ulture bacteria, (If soll contains the bacteria, there is no need of course, but

7. Seed drilled as shallow as poson new land the cost is too small to sible, and thinly

ing in the fall, over shallow spring neglect this.)

3. Sow on summer fallow land.
4. Seed bed should be fine, but not

stand of alfalfa on dry lands are as so cultivation can be practiced be-follows:

Cultivation to keep down weeds

fields or waste land where these animals are found will prove effective. However, as stated concerning the rabbit work, if only one man under-

every man consider this little animal

a very serious pest and work for his

destruction.

TO KILL THE PIUTE GROUND SQUIRREL OR "SAGE RAT"

Work Should Be Started When Rodents First Appear. (By County Agriculturist A. E. Lovett.)

Considerable success has resulted smooth mixture. Stir in one half from the organized work against the pint of corn syrup and then add the jack rabbit in Crook county during whole mixture to the grain in a wash the past two months. The time for tub or boiler and stir until every accomplishing the greatest results grain is thoroughly coated. The stirwith the animal have passed for the present. Another farm pest of almost as great importance to the entire county and of great importance in some sections is thoroughly coated. The stirring must be thorough and if these directions are followed carefully you will have a uniform poison mixture.

Distribute this poisoned grain in small carefully grain in small carefully and a stir until every grain is thoroughly coated. The stirring must be the stirring must be the stirring must be the stirring must be stirring must be the stirring must be the stirring must be the stirring must be stirring must be the stirring must be stirring must be the stirring must be the stirring must be stirring must in some sections is the little Piute Ground zquirrel, commonly known in trance of each burrow. Better suctinis section as the "sage rat." Reports from various sections are that this animal has already appeared in the burrows. Remember that this the fields and all of those which can poison mixture is dangerous and that be killed at present will mean many all such grain and utensits used in times this number out of the fields mixing it must be kept away from later in the season. mixing it must be kept away from children, live stock and irresponsible

Many methods have been tried for persons. many methods have been the description of the work eradicating this pest but none have against jack rabbits, thorough, systematic and persistent work in all the work of the state of the description of the work of the state of the manufactured poisons such as "Woodlark," "Kilmel," etc. Others succeeded as well with preparations succeeded as well with preparations of grains and strychnine made at home. The U. S. Biclogical survey has tested possibly every poison preparation known for cradicating these little animals. R. A. Ward, Assistant in this survey, who has spent considerable time in Crook would seriously recommend that good a hay yielder. Flax yields well on dry land in seasons of good summer rains. Its best use in Central Oregon, it transportation ever reach-es this part of the state, will be as a sod crop on newly broken wild hay county this winter recommends the following poison mixture for this ground squirrel: 10 quarts of wheat, 5 quarts of barley (preferably rolled) and 5 quarts of oats. Make a starch paste, by dissolving 2 tablespoonsful of gloss starch in a teneupful of cold water and adding this solution to 1 quart of boiling water, stirring until a clear thin paste is obtained. Remove from the stove and add to this paste 1 ounce of strychnine powder, 1 ounce of cooking seda and 1-5 oz.

of saccharine (1-2 pint of salt may be substituted for saccharine). Stir the mixture until you have a rich, creamy "SPEAR HEAD" AN OLD TIME **FAVORITE**

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SWEET CLOVER A GOOD CROP IN CROOK COUNTY

meadows.

A. E. Lovett, Crook County Agriculturist.

(Oregon Countryman.)

ue has not been appreciated as it should be. Through recommendation irrigated and dry land in 1915 and three fourth inches deep. reports from farmers growing the crop have been received at my office. ed land but the success of the crop has been found to depend almost entirely upon the stand obtained. On dry land about one third of the acre-

tus alba" or white blooming variety. If not allowed to go to seed. Pro-The hulled seed gives best results, duction of the seed may prove profi-Reports from other states show that table for several years to come as the the sacrificed seed give a much lar- seed i ger percentage germination. The mand. ger percentage germination.

Sweet clover as a cultivated crop is | date of planting in Crook county this a new thing in practically all parts of season has been generally too late. the United States. In Oregon its valas late as April 1st but on dry land should be. Through recommendation of the county agriculturist, 17 acres it should be from February 1st to of sweet clover were planted last year March 36th. To obtain a good stand and over 200 acres were planted this the seed bed must be firm. All san-year in Crook county. The results dy or loose soils should be firmly obtained lead us to believe that this packed before planting to sweet clo-crop will prove to be one of the most ver In'planting the soil should not valuable crops for Eastern Oregon. be loosened more than is necessary to cover the seed from one fourth to

Sweet clover will prove a valuable crop to most of the Eastern Oregon I also visited a large number of fields soils because of its shillty to add of sweet clover-personally. No fall-humus which is most necessary for ures have been discovered on irright-profitable production—even though profitable production—even though the crop itself be harvested. This is because of its large and numerous roots which are soft and decay reada failure but in every instance where there is also much loss danger of failure was encountered the cause bloat when used for pasture. failure was encountered the cause bloat when used for pasture. Well was found to be a loose seed bed or fed stock will usually refuse sweet the planting of the seed too late in clover pasture or hay until they have the spring for obtaining moisture for learned to like it but after being germination. All of the sweet clover planted this year was pastured. One field of twenty acres of black alkali river bottom land which received no water or rains after planting, the pasturing, stock should be turned to no water or rains after planting, the crop being planted April 1st, fourteen the crcp when about four to six inhead of calves and four head of the crcp when about for hay it horses were turned for pasturing on June first and from eighteen to twenty eight head of stock kept on this twenty acres until October 1st.

The variety planted is the "Melilo-ennial and need not become a pest two about planting variety of not allowed to go to seed. Pro-

seed is coming more and more in de

DRY LAND ALFALFA IN KLAMATH COUNY

H. R. Glaisyer, Klamath County Agriculturist.

(Oregon Countryman.)

Demonstration work with alfalfa | gated soils. The average rainfall is apart to cultivate readily, has proven mally. a success on most of our dry land soils in Klamath county this season tions were those on deep sandy losin co-operative work was carried on with twenty five farmers in the variety of the conserving some of

on dry land, sown in rows far enough determined at about 13 1/2 inches nor-The most successful demonstra-

with twenty five farmers in the various dry land districts and in all, tatoes, thus conserving some of the mine varieties of dryland alfalfas moisture of the season before. Our were grown. Out of these nine varieties the rieties the most satisfactory results fourths of a ton at the first cutting, were obtained with the Baltic strain. Some excellent stands were obtained a nameless variety from Kansas being however on land which had been in a close second.

The past season in this section of the state was a very dry one and very unfavorable to establishing a ctand of alfalfa, especially on no-irrition showing the value of deep plow-

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