WHAT THE O. A. C. IS DOING FOR OREGON

tural College in dignifying the indus- erations in the East.

tries of the state.

a knowledge lought by years of transmute it. special problems of the district. through the alchemy of experience in practical application, into windom which will make their home, their

This year 2883 persons have reother of 20 different lines of instruc-tion. Every county in Oregon, as work is progressing well. well as 33 other states and eight foreign countries are represented in the stations are planned and demonwell-being of American citizenship.

lege division of horticulture. Years methods. of expensive experiment and discour- in Central Oregon, as in almost ev-

ment will fall behind. of the size and strength of the Ore- out a crop. Agricultural

The recent progress of the rulltion of those who are looking for opportunities to build up the commentransportation of crops would be sufficiently improved to warrant the establishment, of experiment stations

of living problems.

Heginning with the branch experiment station at Union, for which 620 by the introduction of a number of the wheat crops as well, which, it is acres were set aside in 1901, there the hardiest and earliest maturing believed, will be beneficial. has grown up a series of experiment kinds of corn from all over the farms in various districts of the American corn belt. The Minnesostate—the Umatilla station at Hermiston and the Moro staion in Sher- and were planted in separate fields. by of Prof. Scudder the past five man county established in 1909; the For two years individual plant selec-Talent station in Jackson county and tions have been made and ear row the great number of letters from the Burns station in Harney county last year; and this spring the Red-mond and Metolius stations established in Crook county.

These are centers from which beneficent influence radiates over all lems of the particular neighborhood crops, pests, tillage methods, transthe life more pleasant.

gon, to many sections of which con-gon, to many sections of which con-gon, to many sections of which con-gon, to many sections of which con-ging is are so unlike those of any Since the department hasn't funds tion of this new crop idea marks the other district that there are abso- for free work, it has been necessa-

Service to the state in all its needs; lutely new and untried paths to be aid for the individual in his prepara- trodden in the Journey toward suction for life, and for the community cessful development of the resources in its efforts in behalf of the citizens; of the various counties. The land in a word, material addition to the is rich with promise, but it can not prosperity, the health and the hap- be conquered with the same weappiness of all who come within the ons, the game methods of tillage, the wide circle of its influence: this is same crops, as the pioneer districts the great aim of the Oregan Agricul-

The work begun this year in The home—the heart of the com- Crook county is certain to have farmunity; the business organizations reaching results, although at presand professions—the brawn and sin- ent the funds provide for investigaew of civilization; and all the vast tions for one year only. Even in so multitude of agricultural activities short a time, it is hoped that the which fill the larders and coffers of demonstration farms at Redmond world, alike receive every year and Metolius will indicate to the from the college gates hundreds of farmers and ranchers of the county new recruits. These are girded with correct methods of irrigation tilla knowledge bought by years of hard age and crop rotation to meet the

work was found at Deschutes, but because it was necessary to locate the farms and orchards, their towns and demonstration farms where they cities the best in the state; their state could be most quickly and easily the best in the Northwest; and the Northwest the premier section of sible, it was decided that, for this America, as America is the mecca of year, the main farm for this work should be in a more populous disn'ict. Co-operative work is being ceived special training in one or an- carried on at Deschutes, however, as

the enrollment of 1280 regular stu- strations made of the handling of dents on the campus, besides the the peculiar soil conditions and of 1603 in attendance during the short the choice and planting of crops, and course and farmers' week lectures. like matters which may come to their if each of these carried away but one attention as the senson advances. single suggestion which will lighten Any farmer in the county who is not the burden of daily toil, add to the getting the results he desires, or yield of the field, or reduce the cost things land might be made to proof production in the factory, there duce heavier profits with different will be an appreciable advance in the handling need but to write to the supell-being of American citizenship. erintendent of the farm according as Many, however, reckon their gains his land is in the dry farming or irfrom single lecture courses to be rigated district, and the expert will worth thousands of dollars to their at once give him the assistance he rebusiness. One man saved over \$1000 quires, visiting the farm if possible. in horse feed in a single year as a re- Wherever a farmer is willing, his sult of a course in scientific feeding, farm has been made an auxiliary and at the same time improved the demonstration farm, the director of condition of his animals. Another the station planning the crop work, estimates that more than \$5000 and the farmer carrying out the culwould have been saved him in losses vation under his guidance, as an on his fruit lands had he known ear- example to the neighborhood of what ller what he learned from the col- may be accomplished by the new

aging failures are saved to those who ery region of the state, the results of learn in advance the new gospel of the corn breeding work of the colthe application of science to everyday lege agronomy department are now affairs. Whether it be the planting beginning to be seen. The greatest of a new orchard or the establish- advantage of the corn crop for the ment of an irrigation system; the district is that it is a low moisture raising of pedigreed swine or the consumer, and because it will permanagement of timber lands: the mit thorough cultivation and moissurvey of a new townsite or the as- ture conservation, it may be used as saying of the product of a mine, the a substitute crop instead of the costman who neglects to prepare himself by summer fallow. This will give a with the best possible mental equip- return for the handling of the land and at the same time get rid of the Training for the business of life weeds and leave the ground in almost young men and women is a task cal- of a crop of wheat the follwing seaand material, of an institution even worked over in summer fallow with-

exigencies of an unwented environ- or better, than the wheat crop itself. ment and occupation, the undertak. The summer fallow can not be en- be obtained on this important quesing is Herculean. But the hig tech- tirely dispensed with, but in the more tion. nical school which serves the state of favorable years and in those parts of This spring arrangements were Oregon is not content with even this the dry farming belt where the rainthe winter.

roads in Central and Eastern O. egon that have led the college to push the make the farmstead a more attrachas opened vast possibilities to an development of the plant, following tive home. It is hoped that funds immense territory hitherto too far up the corn breeding work closely will be available the coming year to ' from markets and large centers of since the development of the agron- permit a trial of some fruit varieties population for any great develop-ment, agriculturally or otherwise, the second year of the work some ex-farming belt. Rich lands which, under proper cul- cellent foundation stock to start the tivation, can be made to contribute breeding work was found, and experilargely to the food supply of Oregon ments were begun to develop two and to add to the exports of the state, varieties. One kind is to be especare now being brought to the atten- ially for forage for green feed or silage, for which there is great need in college in the experiment station the dairy regions. The other is to be wealth. The college has long had an early maturing ear, which will and institutes conducted. On five an eye on this section of the state, ripen and dry out sufficiently to be waiting and hoping for the time when stored and used for early fall feeding or pastured off by pigs, yet which will give a yield of grain which may compare favorably with that of other and all of these crops are being raised and demonstration farms in different grains.

ta 13 and 23 proved to be the best,

rieties for Oregon conditions. the department requesting seed from partment, and as a result has seeded the surrounding country. The prob- these two varieties at any price, at- 1000 acres of alfalfa, although the as to the climatic conditions, soils. In 1916 small samples of he best seed planting at one time without prior portation, roads, all things that farmers throughout the state for co-touch the life of that particular community are studied with a view to so large a demand last year and again he is growing under the special insolving the difficulties and showing this spring that he college can not on the demonstration tracts, just meet it. Some growers have asked Scudder believes it possible to get what can be done by the application for as much as 10 to 20 bushels of larger returns from wheat land in the seed, for which they offered \$5 s shape of alfalfa seed than from the bushel. Because of the limited supply on hand and the necessity for prove the fertility of the soil, diver-This work is of immeasurable im- distributing it as widely as possible sify the production and reduce the portance to Central and Eastern Ore- through the state, but small amounts amount of acreage necessary for the

seed, which has been hand selected state, the authorities believe.

This is but one of a number of Oregon farm schedule. lines of work begun for the improvehasing to be seen from the barley with satisfactory results.

Dr. James Withycombe, director it is the hope of the college to bring procured in the state at the present Prof. Hyslop has been making a specisl study of the crop, and hopes to be able to distribute seed as was done with the corn.

This year the first results of the co-operative trials will be secured from two varieties which have proven to be high yielders. Unfortunately the seed of these varieties could not be supplied by the college, but had to be imported from Wisconsin. The Southern Pacific Railway Company undertook to secure the seed and furnish it to the farmers, provided the agronomy department of the college supervised the growing of the succeeding crop. About 100 of the most progressive farmers of western Oregon were selected, and the seed distributed with special directions for growing the crop.

At the Moro experiment station, D. E. Stephens of the U. S. department at Washington, D. C., has taken charge as superintendent to have direction of the dry farming work there in place of H. Umberger, who resigned to accept another position. Stephens has been in the division of grain investigations for the govern-ment for a number of years, under Cercalist M. A. Carlton, and it is believed that he will prove eminently capable in supervising the field work

The best results since the establishment of the station are expected this year, since the conditions of the soll are greatly improved. It was originally very weedy and in bad physical condition. Now there are over 500 plots of a tenth of an acre each laid out, to be permanently devoted to the various experiments. Every variety of grain and forage that could be secured from all parts of the dry farming world is being tested for Oregon conditions on certain of these plots. The different varieties of wheat, barley, oats, corn, sorghum, field peas, potatoes, grases, alfalfa, and other forage plants now being tested and run into the hundreds. while a large number of plots are set aside for experiments in tillage mehods best adapted to dry farming areas. Methods which have proven failures are also used on some plots. to demonstrate to farmers their futility, and new methods are also be ing tried in the nope that they will prove of great practical use in the

Columbia basin area. The date and rate of seeding of annually increasing army of as good condition for the production different dry farming crops and the effect upon the yield form the subculated to test every resource, mental sn as though it had been merely jects of other experiments, while still another group of plots is devoted to the demonstration of some 29 differ-College. And Grown in this way on the dry farm ent crop rotations adapted to the dry when there is added to this duty that lands, the corn may be pastured of farming belt. These will be maint of equipping newcomers to meet the with pigs and bring as good profits, tained for a long period of years so that final and conclusive results may

broad field of activity. The regents fall is higher, it may replace the forest, shade and onamental trees have recently established the exten- summer fallow to a large extent. In surrounding the buildings of the stasion division which is to carry to ev- the irrigated sections the corn can tion at Moro, with an idea of determan, woman and child through- be replaced by no other plant in its mining not alone the possibility of out the state the benefits of the col- use as a green feed in the late sum- the growing of timber and fuel, now lege laboratories and their sciution mer and also for silage throughout so costly in dry farming districts, but to discover what varieties of orna-It is these features of the corn crop mental trees will prosper and thus

In a recent trip through the wheat producing areas of Eastern Oregon, Prof. Scudder found that everywhere the farmers were taking up the spec ial tillage methods advocated by the work and the demonstration trains large ranches visited there were seeded this spring from 10 to 40 acres each or alfalfa, field peas and corn of the Minnesota No. 23 variety. under the direction of Prof. Scudder. In the variety trials foundation Several important changes have been stocks for these two were developed made in the tillage methods used on

The growing of alfalfa on dry land in cultivated rows for the production of seed is a special dry farming holyears, and he has been delighted with planting tests carried out. The selections resulted in a very marked ing information on the subject. One improvement in the quality of the va- of the largest wheat farmers in Gilliam county recently came to Corval-The scores of letters received by lis to consult with the agronomy detest the success of the experiments. experts advised against so large a were sent out to various progressive experience. Near Arlington another

Oregon and elsewhere. Results are was conducted near Moro last fail, either under cultivation or about to

no high yielding varieties, and, in- of the Oregon Experiment Stations, to their highest point of production deed, no pure named varieties can be estimates that, if all of the agricul- through the adoption of suitable tural land in Central Oregon and in crops, right tillage methods and wise For four years variety tests Eastern Oregon were under cultiva- rotations. The college experts will have been conducted and selections tion there would be in Crook county, work hand in hand and shoulder to from the fields have been made, 1,707,562 acres; in Lake county, shoulder with the farmers of each 1,282,550; In Wheeler, 271,000; In district to this end.

ry to charge a round price for the the dry farming agriculture of the Harney 1,625,040; in Klamath, 278, 560; in Malheur, 1,569,360; in Grant, by an expert, every ear, from the The pasturing of poultry on the 574,912; in Wasco, 531,472; in Sherfield, and then carefully cured and stubble fields to fatten them for mar- man, 284,960; in Gilliam, 439,466; each ear tested for germination, ket is an enterprise which Prof. Jas. in Morrow, 224,566; in Umatilia. Only those of good quality are sent Dryden believes might well be made 939,840; in Union, 721,666; in Wala most profitable part of the Central lows, 1,071,360; and in Haker, 475, 729. This means a total of 12,979. An experiment with 500 chickens 236 acres of agricultural land in Cenment of crop conditions in Central in a colony of ten white canvas tents tral Oregon and in Eastern Oregon.

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