Winter Short Course at O. A. C.

NLT a small percentage of Oreson farmers keep books and really know whether or not they make profits. Of course several arrange their banking in such a way that the bank balance partially tells whether their business is being conducted with a profit or loss, but only occasionally are farmers found who can tell exactly which crops are paying for themselves and making profit besides, and which crops are the grand parlor boarders. The books of the general farmer should show accounts with crops, livestock, labor and implements, as well as with in-(Special to Farm Magazine.)

OF 10

ilkewise should be thoroughly tood by the feeder of any kind k. All of these will be conof stock. All of these will be considered from the standpoint of production, cost, market value, and soil fertility effects, during the annual Short Course. Lectures concerning the general principles of stock feeding with reference to the scientific principles of nutrition will be given during the first week of the series beginning the first Monday in January. This knowledge should enable the stock growers better to appreciate and understand the work given later in the course. The feeding of poultry, swine, horses, sheep, beef and dairy cattle, will be considered in detail by specialists of the faculty who are best qualified by special types of stock and their particular requirements.

Practicing Cooking.

Practicing Cooking. "What shall I cook for dinner?" Often the Oregon housewife asks herhnowing where to find the best answer. Yet, on the correct answer to this question depends largely the family income as well as the family arrowses since the wage-garner must expenses, since the wage-earner must have plenty of nourishing food of sufficient variety if he is to maintain inficient variety if he is to maintain his efficiency in office, field or factory. Some very definite help toward finding the answer to the foresolar question will be offered in the sork of the Short Course. Two tours each day through the entire our weeks will be spent in practicing cooking by those who are intersted in this feature of the work. The archase, use and nutritive value of cods will be explained by special. will be explained by specialin charge. The preparation of the and the serving of meals will dve attention. This work will be in two sections providing both the experienced and the inexenced and less skilled, so that student may receive precisely the desired instruction.

Farmers Not Specialists.

The great majority of farmers in Dregon are not specialists but are producers of general crops. Special stiention will be given to the growing and handling of the pasture, hay, ing and stlage crops from seeding feeding, at the Short Course. The sartments interested in such crops give a complete discussion of ing crop systems and silage mak-For many conditions, alfalfa, rer many conditions, alfalfa, mestic or ver, kale, vetch and corn are es-ana, Haw ana, Haw G. R. Hyslop will go into detail will consider every main point, uding inoculation and other dal practices.

d crops. Oregon potato growers can produce disease-free seed atoes are receiving fancy prices m California growers. In this irse Professor Hyslop will give se attention to the best methods the production of grain and seed ops, such as barley, oats, wheat d corn for grain or for seed; and a production of seed crops of production of seed crops of tch, clover, potatoes, alfalfa and id peas will be discussed from the grower's standpoint. 'com-A money crop for Eastern Oregon rmers is the growing of seed from falfa and field peas, but special ethods must be followed for success, and these will be discussed in

and implements, as well as with investments, interest and depreciation.

The crop accounts should be classified and so kept as to show plainly which are profitable from the income standpoint and which are not. This phase of the work will receive special emphasis at the Winter Short Course of the Oregon Agricultural fundamental facts relating to the College, in which other subjects directly and intimately related to it will also receive attention.

Understanding Feeds. Understanding Feeds.

"The eye of the feeder fattens his stock," mays an old adage, but nowadays if the feeder does not know sillage from "S to E," the fattening is likely to be too expensive to leave any profit on the work and investment. There are many other feeds which likewise should be cluding soil structure, soil moisture, heat and air, soil bacteria, and plant foods, tillage operations, will be presented in lectures, both illustrated and non-illustrated, and by demonstrations in field and laboratory. There will be special laboratory and field practice in sampling and judging soils.

Work in Satta

The work in soils will be assisted by the Department of Bacteriology, which will present the results of its experiments in inocculating and liming soils, and other special features of soil management that should be known to every farmer in both Eastern and Western Oregon. The De-partment of Horticulture will pre-sent the question of the proper soils for hortfeultural purposes

for horticultural purposes.

Illustrated lectures will be given by Dr. W. W. Atwood on the subject of Plant Physiology. Those bearing directly upon the subjects of crops and soils are: "How Plants Draw from the Soil and Make Use of the Materials They Need," "The Relation of the Green Coloring Matter of Plants to Their Ability to Make Their Own Food," "How Plants Increase in Size," and "Rest Periods of Seeds and Plants."

SOME BREEDERS GET ADVAN-TAGE.

The man who wants to succeed in poultry-raising must look keenly to his profits. There must not be a loopprofits. There must not be a loop-hole anywhere. There are so many chances for leaks that few breeders actually take in the amount of money invested. The man who uses Lice-O has the advantage. His birds lay in season, his chick loss is very low, and his birds develop one-third faster. He is sure of his profits. Lice-O is used in every state on the Coast and is sold under a positive guarantee. A tube large enough to last the average breeder one year postpaid 50c. The Lice-O Co., 286 ½ Washington street, Portland, Or.—Adv.

Sugar Beet Industry.

The first beet-sugar factory in the United States was erected in Philadelphia in 1830. It did not prove a success and was dismantled. In 1853 Brigham Young imported a beet mill to Utah from France and Peter Magnes set a small one up near Denver in 1860. The first successful factory was built in 1870 at Alvarado, Cal., and was in operation until 1913, when and was in operation until 1913, when it closed down. It is estimated that \$100,000,000 is now invested in the \$100,000,000 is now invested in the sugar beet industry of this country. The sugar supply of the American people is drawn from three main sources. These are: Domestic beet sugar produced in 17 states from Ohio in the East to California in the West, with Colorado having more factories than any other state; mestic cane sugar produced in Louist-ana, Hawaii, Porto Rico and the Philippine; imported cane sugar produced

Forgetfulness.

Sertain parts of Oregon are es. How quietly above this ruined home inly suited to the growing of Wild roses creep, and green vines d crops. Oregon potato growers kindly roam; do the years above the hearts of

grief Lay love's soft covering of bloom and

leaf! Arthur Wallace Peach, in New York Sun.

TIMPORTANT, that you mention this paper in answering advertisements.



KEEP THE GREAT NORTHWEST THE LAND OF PERPETUAL **CROPS**

The Northwest is noted for abundant yields. Our land's natural richness in plant food is agricultural history.

Yet, once upon a time New England was noted for its record fruit shipments. Now it is known for its worn-out land.

Farms now covered with "For Sale" signs mark the penalty of taking away the land's ability to produce.

The land is the great Northwest's backbone. Take away its strength and its functions will soon become paralyzed-weakened -worn-out-"New Englandized."

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Prevent your land from wearing out. The guaranteed analysis shows the proper proportion of animal ammonia, nitrogen, phosphoric acid and potash that revives strength—gives new life—enables the next crop to feed upon the necessary sustenance for a good healthy harvest. Insure against poor crops—increase your land's producing ability by ordering this famous fertilizer NOW. Fertilizer booklet F43 free. Tells about fertilizers, their application and results they produce for others.





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over the roughest ground. Costs less than other makes.
One man writes he sawed 56 ricks in 10 hours. Another sawed 40 cords in 9 hours. There's more you ought to know. Write for FREE catalog containing full description with testimonials from enthusiastic users. WRITE TODAY. Reierson Machinery Co.