Winter Short Course at O. A. C.

$0_{\text {they }}$
(tipgotal to Farm Makasine.) son farmers keep books and they make profits, of course or not arange thetr bankting in such a way Whether thetr business is being conducted with a profit or loss, but oniy occastonally are farmers found who
can tell exactly which crops are paycan tell exactly which crops are pay-
ink for themselves and making profit beadden, and which crops are the grand parlor boarders. The books
of the genoral farmer should show of the genoral farmer should show accoints with crops, livestock, labor
and inmpements, as well as with vestmenfis, interest and depreciation. The crop accounts should be classiWhich are profitable from the income atandpoint and which are not. This
phase of the work will recelve spepanse of the work whe recelve spe-
dial emphasis at the Winter Short Coirse of the Oregon Agricultural
College. In which other subjects reotly and intimately related to it Understanding Feeds,
Understanding Feeds,
"The eye of the feeder fattens hits stock," aays an old adage, but now-a-daye if the feeder does not know
shage from " S to E ," the fattening In ilkely to be too expensive to leave
any profit on the work and investment, There are many other feeds
which likewise should be thorought whatal Hkewise should be thoroughly
underntood by the feeder of any kind
of stock. All of these will be conof stock: All from the standpolst of profuetion, cost, market value, and yoll short. Course. Lectures concerning
the seneral princlples of stock feed the with reference to the selentific prindpleas of nutrition will be given during the first week of the serle
hegtning the first Monday in Janu begtining the first Monday in Janu-
ary. This knowledge should enable the ntock growers better to apprefater in the course. The feeding of
poutry. swine, horses, sheep, beet poultry swine, horses, sheep, beet
and dalry cattie, will be considered and dairy cattie, will be considered
In detail by speciallsts of the faculty who are beat quallfied by speclal
tuowledge of each of the several types of stock and thelr particular
reanirementa. Practicing Cooking.
"What shall I cook for dinner?"
often the Oregon housewife asks her Often the Oregon housewife asks her-
self this fmportant question without nelf this important question without
knowing where to flad the bent ansrer, xet, on the correct answer to fazuly income as well as the family expenses, since the wage-earner must
have plenty of nourlshing food of ainficlent varlety if he fs to maintaln his efticiency in office, fleld or facWry. Some very definte help togolng quention will be offered in the dours of each day through the entire our weeks will be spent in practicfied In this feature of the work. The arenase, use and nutrittve value of
sods will be explained by aneclal charge. The preparation of and the gerving of meals will given in two sections providing both erienced and less skilled, so that ace student may recelve prectsely
Farmers Not Specialists,

The great majority of farmers in producers of general crops. Special attention will be given to the grow-
lag and handiligg of the pasture, hay, olling and sllage crops from soeding
feeding, at the Short Coure. The feeding, at the Short Course. The
epartments inferested in such crops if give a complete discussion of ing crop syatems and siltage malsFor many conditions, alfalfa, G. R. Hyslop wint go fato detall will consider every main point,
nding inoculation and other clal practices.
Gertain parts Certain parts of Oregon are esclally suited to the growing of ed crops. Oregon potato growers
bo can produce disease-free seed
thtoes are recelving fancy prices Calfornia growers, In thices
this attention to the best methods such as barley, oats, wheat
corn for grain or for seed; sud production of seed crops of h, clover, potatoes, airaira and grower's standpoint. A "commoney crop for Eastern Oregon
iers is the growing of seed from rmers is the growing of seed from
falfa and fleld peas, but speclai sifalfa and field peas, but speclal
fiethods must be followed for suc-
ess, and these will be discussed in
detall. Practical plant breeding methods for the farmer will be dis cussed, and to llastrate the princlples the students will Judge grain, ory. Noll Requirements.
In conjunction with this study of Oregon's crops, Professors Scudder and Ruzick will present a study of
the soll requirements of each crop and the roquirements of each crop ach type of farming. They will also liscuss the value, preservation and orrect use of manures and fertillzrg , and the various treatments for
acidis. Oregon is a land of varied nolls and there will be lectures, demonstrattons and roundtable discussfons of the good and bad features of each of the chief soll
types of the state and the crops and treatment best adapted to each. The undamental facts relating to the luding soll structure, soll molsture heat and air, soll bacteria, and plant
foods, tllage operations, will be presented in lectures, both illustrated and non-illustrated, and by demonstrations in fleld and laboratory,
There will be spectal laboratory and There winl be spectal laboratory and
field practice in sampling and fudg.

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Work in Solis.
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The work in solls will be assisted the Department of Bacteriology, experiments in inocculatige ng solls, and other special features of soll management that should be nown to every farmer in both Eastartment of Horticulturo. The Deent the question of the proper solls or horticultural purposes. Illustrated lectures wil by Dr. W. W. Atwood on the subject of Plant Physiology, Those bearing directly upon the subjects of crops rom the Soll and Make Use of the Materinls They Need," "The RelaPon of the Green Coloring Matter of Plants to Their Ability to Make rease in Size," and "Rest Perlods of Seeds and Planta."

## SOME BREEDERS GET

The man who wants to succeed to pouttry-ralsing must look keenly to his profits. There munt not be a loop-
bole anywhere. There are so many hances for leaks that few breeders ciances for leaks that fow breeders
nvested. The the amount of money who uses Lice-0 Inverted. The man who waen Lise-O
has the advantage. Hin birds lay in meason, his chick loms is very low, and
his blrds develop one-third fastor. He is sure of his pronts. Llse-o is used
in every state on the Coant and is sold In every state on the Coast and is sold
under a poaltive guarantee. A tubo under a poalitive guarantec. A tube
largo enough to taat the average
breeder one year poatpald Llee-or Co., $2861 / 4 \mathrm{~W}$ Washlington street,
Porttand, Or.-Adv.

## Sugar Beet Industry

The frist beet-sugar factory In the delphla in 1830. It did in Phflaelphla 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 in 1860 . The first successful factory
was built in 1870 at Alvarado, Cal and was in operation untll 1913, when it closed down. It is estimated that
$\$ 100.000,000$ is now invested sugar beet industry of this country The sugar zupply of the American. people is drawn from three main sugar prodnced in 17 states from Ohlo in the East to California in the West, with Colorado having more factorles than any other state; do-
mestle cane sugar produced in Loulatana, Hawall, Porto Rico and the PhilIppine; Imported cane sugar produced
tn Cuba. In Cuba.

## Forgetfulness.

How quitly above this ruined home Wild roses creep, and green vines So do the years above the hearta of Lay grie?
Lay love's noft covering of bloom and
leaf! Wallace Peach, in New York Sun.

IMPORTANT, 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."

## BEAVER BRAND ANIMAL FERTILIZERS

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Book of Ideal Home Plans Free! ASSEMBLE Your own ho
AND SAVE MONEY. More "ITen Housen". aro stippeed rendy to put up - no okilla 1 abor re-


J. BRYSON MOORE


