Oregon Agricultural College is the Friend of the Farmer

Page of News Notes and Interesting Articles Specially Written by College Experts For This Newspaper.



View of Oregon Agricultural College Corvallis, Oregon, the Sole Aim of Which Is to A Id Agriculturists.

ESSENTIALS OF BREAD MAKING. worthless. One plantation farmer sowed Paris green, then mowed and placed in distributed among the few. We have G ood BREAD can be made from either good hard wheat flow 350 acres to lespedeza with untested small heaps about the field is of some

either good hard wheat flour

gon Agricultural College, "but you should know which you are using because they require different treatment. be made into a very stiff dough and the bread will not need to rise more than once before it is put into the pans.

"Home-made yeast is much better than the dry yeast. tI can be likened to peas and velvet beans. the seed saved by a good gardener from his own healthy plants. When properly prepared it contains millions of live, growing, microscopic plants. Liquid yeast can be kept in a cool, dark place about two weeks.

for bread making. It should be scalded and then cooled. The micro-organisms that cause sourness in milk are thus heated until they all die. Milk bread H. F. Wilson. will be a little yellow but its flavor is better and it is more nutritious than water bread. Water may be used instead of milk, however, and good bread can be made with it.

"Sugar is a good yeast food. A little the Records, by W. A. Barr. added to the bread does not affect the flavor of the bread but does quicken the action of the yeast. Salt is used for flavor. Such a small quantity as is used in bread does not materially retard the growth of yeast but does whiten the bread.

"Bread while rising must not be kept too warm. More bread is spoiled by too much heat than too little. Bread that feels warm to the hand is too warm. The bacteria which cause sourness, and are to the bread baker as weeds are to the gardener, grow rapidly in the dough if it is quite warm."

The foregoing information in comprehensive form, together with detailed directions for making good and wholesome bread, is found in Extension Bulletin Series 8, No. 29, 'Essentials of Bread Making," which may be had by writing the Extension Division, O. A. C., Corvallis, Oregon, for a copy.

WHERE FARMERS PROFIT BY

tion at Baton Rouge, La., the cooperative seed testing laboratory doubled the number of samples of seed tested each year. Last year there were it 900 tests made and 90 per cent of them were for individual farmers. are present in such nur bers that drastic ately for the farmer it proceeds most This is in marked contrast to the measures seem warranted to prevent the readily in those soils that are in good record at the Oregon Agricultural Coloccurrence of an epidemic of the pest. lege, where fully 75 per cent of the Arsenical sprays some times prove matter that will regulate itself in soils tests made are on samples supplied by seed houses. Farmers have not been so ready to take advantage of the work in Oregon as they are in Louisiana, with the result that there is greater loss due to imperfect seed in this state. There is likewise greater "eed of seed lows: testing in Louisiana. The viability of Bran. Northern grown seeds that keep their Syrup. vitality well in the north rapidly lose it Oil of lemon in the humid warmth of the south, Red River Valley, with the exception after pressing together in the hand. of crimson clover, which is grown on sandy lands.

seed, and reports that he secured only value. or from good soft wheat flour, " a ten per cent germination, resulting in says Dean Henrietta Calvin of the Ore. entire loss of time, labor and seed. Activity is greatest in the months of December, January and February, during which time many planters gave a Hard wheat flour may be made into a great deal of thought to the selection soft dough, and if it is very hard wheat of seed. Seed dealers also take a great then the bread should be kneaded down deal of interest in seed testing, and several times. Soft wheat flour should one seedsman publishes advice to his customers recommending a frequent resort to the seed testing laboratory. Next to lespedeza the seeds most largely submitted for test are rice, cotton, cow

AGRICULTURAL BULLETINS.

lished since January 1, 1914, and copies "Sweet milk is the best of all liquids may be had by residents of Oregon upon same as that of sugar beets. The di-plication of art principles are a vital request:

Oregon Corn by H. D. Scudder. How to Conduct a Fly Campaign by

Fruit and Vegetable By-Products by

C. I. Lewis and W. S. Brown.

Feeding Young Chieks by Miss Clara Nixon Making Babcock Test and Keeping

Feeding and Care of Dairy Cows by

E. B. Fitts. Fowl Tuberculosis by T. D. Beckwith.

by T. D. Beckwith and T. A. Teeter. Feeding the Dairy Cow by R. R.

Raising the Dairy Calf by E. B. Fitts. Farm Butter Making by O. G. Simp-

Silo Construction and Silage Feeding by R. R. Graves and W. A. Barr.

Improving Oregon Dairy Herds by R. R. Graves and E. B. Fitts.

Breeds of Chickens by J. Dryden. Handling the Fruit Crop by C. I. Lewis and W. S. Brown.

Growing the Oregon Potato Crop by H. D. Seudder.

How and When to Spray the Orchard by H. S. Jackson.

In addition to the foregoing list 31 Industrial Club bulletins have been issued for special use of the members of the Boys' and Girls' Industrial Clubs of Oregon.

TROL CUTWORMS.

points throughout the valley. The sary and complicated part of the pre-attack is so general and the cutworms paration of plant food in soil, fortun-

VALUE OF SILAGE FEED.

HE relative value of roots, kale and silage-the usual sources of Middle West with the elevator trust.

succulence for winter feedingdepends upon their composition, com parative feeding values, cost of production, keeping qualities, and convenence of feeding," says Professor R. R. Graves, head of the O. A. C. Dairy Department.

the ton. Their nutritive ratio is the for the many and not for the few. widest of any of the common winter succulents, being 1 to 15.3.

"The corn and clover silage contain the greatest percentage of dry matter, while kale and some of the roots contain 90 per cent water. One ton of corn silage contains as much digestible Septic Tanks and Absorption Systems nutrients as a ton and a half of sugar beets, 1.8 tons rutabagas or carrots, and 2.3 tons of kale."

AMMONIA IN SOILS.

for HE transformation of nitrogenous substances into ammonia in soils is one of the most important phases of the nitrogen cycle in soils," says Professor T. D. Beckwith, bacteriologist at the Oregon Agricultural College. "It represents a certain stage in the process of decomposition, and bears a close relation to soil fertility problems. The chemical reaction, in which ammonia is one of the end products, depends upon many factors.

Moisture and temperature of soils, as well as physical and chemical composition, play an important part in determining the amount of ammonia pro-duced. Soils that are well aerated are favorable to ammonification. Lime is

soils, sweetening and lightening them so that aeration and chemical reaction

many illustrations of the latter method in European history, and a few cases in America that are right to the point, one of the best of which is the successful struggle of the grain growers of the

ART IN PUELIC SCHOOLS.

HAT public sentiment in America will demand better and more beautiful architecture, better planned cities, more refinement in the furnishings of homes and more art in dress "The total digestible nutrients in and daily surroundings, is the belief of one ton of corn silage is 326 pounds. Miss Edna M. Flarida, instructor in In a ton of red clover silage the total art at the Oregon Agricultural College. is 224 pounds, but the nutritive ratio It is the purpose of art in the public is 1 to 6.9, while in corn it is 1 to 11. schools to train the child to meet these THE following bulletins, issued by the The digestible nutrients in a ton of demands. The child should be inught sugar beets is 224 pounds, with a ratio to know the needs of our people and mgar beets is 224 pounds, with a ratio to know the needs of our people and Agricultural College, have been pub-of 1 to 8.5. In rutabagas the total is the finest ways of meeting these needs. and since January 1, 1914, and copies 186 pounds to the ton, with a ratio the This is where the appreciation and apgestible nutrients in a ton of kale are part of the child's training. Appreciabut 139 pounds, while the ratio is very tion of the beautiful and finer things narrow-1 to 2.8. It is also true that in life will make him happier, broader, the nutrients of apple pomace silage more liberal and an inspiration to his are pretty high, about 216 pounds to fellow creatures. Thus it is that art is

BASKETRY EXHIBIT.

O LEARN and to construct articles of basketry, reed and raffia, in a course of forty hours, was accomplished by a number of summer school students at the Oregon Agricultural College. A collection of baskets and basketry arts was made by the instructor, Miss Helen Cowgill, last Thursday afternoon. Some of the individual exhibits showed very great progress by the exhibitors, and one member of the elass had five well executed pieces of various artistic designs, all prepared in the space of two weeks.

HITS SCRUB SIRES.

for the SCRUB SIRE has done in-estimable damage to the quality

of Washington livestock. He is curse to his owner, who is cursed by his neighbors. The pure bred sire that is backed by parents and grandparents of high merit will add quality to the offsprings of your herd." From the foregoing, which was taken from the Washington State College news letter, it is evident that Oregon is not going URING the three years of opera- USE POISON BRAN MASH TO CON- of distinct benefit in acid and heavy hotter size for the daim head. But better sires for the dairy breds. Better herds, right feeding, proper manage-CUTWORMS are menacing various can proceed. It may be said in general ment and sanitary products are the that while ammonification is a necesment and sanitary products are the

> practical, according to A. L. Lovett, in- that are kept in otherwise good condisect specialist at the Agricultural Col- tion for erop production." lege. The best general treatment for this cutworm is, however, the poison bran LIMITING POWERS OF TRUST. mash. This material is prepared as fol-

THE problem for the future is the regulation, not the destruction of the trust," says Dr. Hector .50 pounds

...2 quarts statesman who is intelligently solicitous ...2 ounces for the welfare of our democracy is not Mix these materials thoroughly and 'Shall large combinations exist?' but

and after a year alfalfa and clover seed add sufficient warm water to make a rather, 'In what form and under what are generally worthless for plant. But coarse crumbly mash. Don't get the ma- limitations shall they exist." We want little of these crops are grown in the terial sloppy; it should fall apart readily to get rid of the evils of the trust and This material should be sown broad One way to accomplish this is for the

cast over the field in the early even- state, by virtue of its police power, to Lespedeza, or Japan elover, takes the ing. About five pounds to an acre is compel publicity, regulate prices, and place of clover in rotation, nitrification usually sufficient. Cutworms feed on control the treatment of workmen. Anof soils and forage, and is especially this material in preference to vegeta- other method is for the masses to take over the control of industry and com-

important in diversified farming. The tion. seed is threshed with hulls on, so that it Some succulent crop, such as hog merce, and distribute the profits among only, practical courses, State's money more is likely to heat badly and become weeds or alfalfa spraved heavily with the many, which have heretofore been aconomically expended.

A.H. BURTON condition for cultivation, so that is a



Education-Igraduated from Southern Illinois State Normal, 1901; University of Illinois, 1907; University of Oregon Law School, 1912. Experience --Taught 6 years in country schools, 6 years as principal and as superintendent, 7 years in large high schools; now teaching in

.

Progressive Nominee State Superintendent Wash. High School, Portof Schools land. Principles-I favor longer terms for courtry schools, consolidation where practical, better teachers, teachers promoted for merit