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 Aid Agriculturists.

LIMING CERTAIN SOILS IN-CREASES THE BACTERIA.

nitely shown in a series of experiments pion that laid 291 eggs in a year. reported in Experiment Station bulletin No. 118, just issued by the Agri- made a record of 257, another of 218 and last June. He is a native of Idaho and followed by western orehardists which cultural College. The experiments were another of 204 eggs per year. Their conducted by T. D. Beckwith, bacteriol-grandmothers and great-grandmothers ogist, and show the effect of lime on each laid more than 200 eggs per year six widely different types of Oregon Their fathers, grandfathers and greatsoils.

soils with a high content of humus and these you g hens ought to fill the egg other organic matter the number of basket.
bacteria was greatly increased by lim'They should average 400 eggs each ing at the rate of two tons of lime per in the next two years, ' said Professor aere-foot. In soils carrying an excess of Dryden, whose breeding methods prolime and deficiency of organic matter duced the world's best layers. "They the number of bacteria was decreased were hatched a little early for securing by liming. Soils that were neutral were high egg records, about the middle of not affected by liming.

plant food prepared by the action of 400 eggs each. the bacteria increased with the increase in the number of the bacteria. This, of course, is the important point, since the amount of available nitrogenous be managed by C. M. Wilcox, an O. A. plant food in the soils is the main factor in the soil fertility problem.

Liming the acid soils has been shown by the Department of Chemistry to sweeten them and release unavailable plant food. It has been shown by the Agronomy Department that liming the compacted soils flocculates the finer portions, makes the soil granular and porous, and renders cultivation easier. And now comes the Department of Bacteriology showing that liming these acid soils increases the number of bacteria, thus releasing the nitrogen content of the soils and making the supply immediately available for plant food.

In the meantime, the Extension workers have secured a bountiful supply of lime, which will be delivered at any station in the Willamette Valley at \$3 per ton.

S MALL lawns with but few annuals ounce; water to make a thoroughly is the recommendation for farms soaked mixture. made by Professor W. S. Brown,

they must have attention if they are traction for the insects. It takes sevdo not fit in so well with the general nite and characteristic effect in giving each farm lome its distinctive features.

small lawns require less time for their care and are almost sure to be better eared for than the large ones. Also, they release more land for other purposes, and if it is thought best to have a larger tract of meadow land it should be located outside of the yard fences where it may be moved by horse power as often as necessary."

TEN O. O. A. C. PULLETS SENT TO STATE HOSPITAL.

FLOCK of 100 pullets of the most A famous laying strain in the world of the Southern Oregon Experiment grounds. has been sent by the Agricultural Station at Talent. College Poultry Department to the State Insane Asylum, to be used partly through co-operation between the Exfor demonstration purposes. These pul- periment Station, the branch Station lets have been bred from many gen- and the Extension division on the one

flock of pullets. Their sires were half HAT liming acid soils will greatly brothers to the world champion hen that the work. nerease the number of soil bacteria laid 303 eggs in one year. Their moththat they contain has been defi- ers are half sisters to the earlier cham-

Another ancestor of these pullets grandfathers were from hens that were In general it was found that in acid more than 200-egg layers. If blood tells,

March, but with good care on a two-It was also found that the amount of year basis they will no doubt average

> The flock will be kept in a separate yard and their individual records will be secured by trap-nesting. They will C. graduate of this year's class, who is nanager of the poultry work at the

POISONED BRAN MASH STOPS GRASSHOPPERS.

POISONED bran mash is the most satisfactory remedy under Central Oregon conditions, for grasshopers, according to Professor H. F. Wilson, who has just returned from a suc cessful campaign against grasshoppers in Klamath county. Its materials are theap, easily put together, easily applied and the poison is quite effective. The only exceptions to the success of the treatment is with the hoppers that are in the moulting stage and refuse to eat much of anything.

As most successfully used in the re ent raid, the mash was prepared as follows: Bran, 50 pounds; paris green SMALL LAWNS FOR FARMS AND or white arsenic, 2 pounds; salt, 1 pound; syrup, 1 quart; lemon extract, 1

The mixture is best applied by broadextension horticulturist at the Oregon casting, walking in the center of a 20 Agricultural College, in addressing the or 30-foot strip and sowing both to the Monmouth grange recently. His subject right and to the left. This should be hibit has been accepted by Professor general plan of simplicity and taste ad- and the young hoppers on beginning to eed eat the poisoned bait greedily. "One reason for few annuals is the After the bran loses its moisture and fact that farmers often have no time to after the young insects have eaten well bother with them in the spring, when of the plant food, the bran has less atmade attractive," said he. "But they eral hours for the poison to complete its work, but within a lay or two after it plan as do the perennials and shrub. has been eaten the grasshoppers are close concentration of exhibit matebery, which soon come to have a defi- dead. Only a flake or so is required to rial, kill the young hopper when hungry.

"Clipped lawns should be small since NEW PLANT PATHOLOGIST FOR MEDFORD DISTR. JT.

SPECIALIST in plant pathology, ters at Medford. Under the provisions

The new arrangement was secured erations of extra good layers and have hand and the county court of Jackson the University of Wisconsin will have a fall,

took his doctor's degree in plant path- consin Press Bulletin as follows: ology at the University of Wisconsin

TEACHERS CONDUCT SURVEY.

URAL teachers can best shape their work after making a preliminary survey of the school and school conditions," said J. P. Harrington, state organizer of girls' and boys' industrial clubs in Oregon, addressing the summer school students at the Agricultural College, Buildings, repairs and equipments are inventoried in these surveys, and further needs noted. But more important than all these, the product of the school-the number and noted and listed for future reference. With a distinctive knowledge of what failed to do, and of what it can and should be made to do, the competent teacher is able to shape his work to the needs of the district. The teacher should then adopt a definite and continuous policy whose aim should be the best school possible and the best education possible for its girls and boys. Indications of the success with which this s done are the asking of questions and advice by the pupils, their hearty cooperation in school work and other related work, and the interest of parents and school boards.

PANAMA POULTRY SHOW BY O. A. C. DEPARTMENT.

THE educational poultry exhibit of Exposition. The invitation to provide able. and arrange the material for this ex-

In outlining the general character of the exhibit Director True suggested that it should include research, teaching and extension features of poultry husbandry. This plan will be followed by the local poultry department in selecting and arranging the display, although the limited space available makes necessary a

DRAINAGE OF CAMPUS.

Agricultural College campus. Not College Dr. M. P. Henderson, University of only were the drained areas entirely Wisconsin, has been appointed by free from surfacec water during the wet Oregon Agricultural College as season, but they are less affected by pathologist and assistant county ad- the severe drought of the present sumviser of Jackson county, with headquar- mer. By lowering the water table in the wet seasor drainage permitted betof the county farm adviser law Jackson ter aeration and 'ess compaction, so county maintains a county adviser co- that capilarity is much more perfectly operatively with the Extension division performed during the summer. A wide

HOWARD WILL INSPECT NORTH-WESTERN ORCHARDS.

REGON methods of orchard prac-

a better pedigree than any other known county on the other. It goes far to as horticultural expert in the Hood River sure close co-operation in carrying on district during the summer to inspect the orchards and observe methods of The newly appointed pathologist is a handling fruit. The purpose of the visit graduate of the Utah University and is announced by the University of Wis-

"To learn what orchard methods are has had extended experience in orehard might be adapted by Wisconsin fruit work under western conditions. men, R. F. Howard, agricultural experiment station, University of Wisconsin, will this summer visit many of the fruit farms in the Hood River Valley (Oregon). Many of the young men attending the college of agriculture are interested in orcharding and desire information on the western plan of handling and marketing of fruit."

FEEDING FOR EGGS.

THE FOURTH edition of Professor James Dryden's bulletin, Feeding for Eggs, has just been issued by the Extension division and may be had haracter of its pupils and kind of upon request. Each of the three forwork accomplished by them-should be mer editions was exhausted, showing the sustained demand for reliable data on the subject of feeding poultry to sethe school has done and what it has cure a good egg supply. The material of this bulletin was secured by the author in experiments covering many years and has been revised to date. From the table on composition of foods the poultryman can readily determine which food stuffs can be bought most profitably in the different sections of the state. Feeding is regarded by Professor Dryden as one of the four principal factors in filling the egg basket.

TOM LAWSON, FARMER.

SCIENTIFIC farming methods appeal to Hon. Tom Lawson, the noted M economist and journalist. Mr. Lawson, who made the Wall street magnates hunt tall timber, is visiting at the farm of his son-in-law, Henry Mccall, of Crook county, Oregon. On this the United States Government at farm a specialty is made of high class the Panama-Pacific Exposition pure-bred cattle and swine. Holsteins will be furnished by the Poultry De- and Jerseys and many breeds of swine, partment of the Oregon Agricultural are carried as part of the farm stock. College. "The striking results obtained The owner is co-operating with the Agat your station indicates your ability ricultural College in many lines, and to put on an excellent exhibit," writes finds that the scientific methods pay Dr. A. C. True, who is directing the Gov-best. Bacterial cultures for the legumes ernment's agricultural display at the has been found to be especially profit-

HUNTING LIME SUPPLY.

was farm buildings and grounds, and done early in the morning, since the Dryden, but definite plans for the distance the plans for the plans for the distance the plans for the sweeten sour soils, is the object of cial search by two county as turists, Floyd W. Rader, of Lane county, and Luther J. Chapin, of Marion. A suitable source of lime is believed to be found in quarries near Medford of good quality and large extent. Grinding is necessary to make it fit to apply to the field, and the two specialists hope to lear, the exact details of operation and cost of product, and to arrange for the installation of necessary DRAINAGE results have proved to be has been worked out by Professor H. D. very satisfactory on the Oregon Seudder, agronomist at the Agricultural

GRASSHOPPER SPRAYS.

Arsenical sprays are beneficial in the control of grasshoppers on trees, fruit bushes and shrubby plants, according to A. L. Lovett, assistant entomologist at the Oregon Agricultural College. A spray made of one and one-half to five pounds of lead arsenate in fifty gallons of water may be used, depending upon of the college. This office is filled by use of tiling draining systems is thus the nature of the foliage to be sprayed. Professor F. C. Reimer, superintendent i dicated for farm lawns and stock The solution should be as strong as can be used without injury to the plant, since it acts rather slowly at times. hopper dozer and the poison bran mash are standard treatments when suited to tice have attracted the attention conditions. The ideal time for fightof mid-west fruit growers, and ing this pest is early spring and in the