# SUPPLEMENT TO ESTACADA PROGRESS

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College. R. D. Hetzel, director. Exchange copies and communica-tions should be addressed to Editor of Press Bulletins, 116 Agricultural Hall, O. A. C., Corvallis, Ore. The Press Bulletin aims to keep the state press informed in all mat-ters of interest and value related to the work of the Oregon Agricultural College. Editors are respectfully re-quested to publish for the benefit of their readers such items as they think seasonable and suited to local use. seasonable and suited to local use.

#### EXTENSION

DAIRY HERD RECORD MAKES GOOD SHOWING

Oregon Agricultural College, Cor-vallis, Sept. 13.—The first man here to complete a year's herd record keep to complete a year's herd record keep-ing under the supervision of the of-fice of F. W. Kehrli, field dairyman with the U. S. Dairy Division and the O. A. C. Extension Service, is F. A. Baker, of Stanfield, says the Hermis-ton Herald. Some very interesting figures are brought out in these re-sults. The weight of the milk of each cow was taken and recorded at each miking, and a sample taken

figures are brought out in these re-sults. The weight of the milk of each cow was taken and recorded at each milking, and a sample taken from the morning's and evening's milking near the middle of each month was tested for butter fat. A record of the feed was also kept. "Records for the full year are ob-tainable on nine cows and these proved to be very profitable and show what can be done by systematically weeding out the unprofitable cows. The average milk production per cow for the year was 6410 pounds, while the fat production for this period amounted to 306 pounds per cow. This is an excellent herd average and has been secured by keeping tab on each cow and disposing of the inferior ones. "An average price of 30 cents per pound was received for the butterfat throughout the year, thus making the average receives per cow amount to \$92 for the year. The average cost of the feed consumed by each cow for the year's period was estimated to be about \$35, figuring hay and grain at farm prices. This leaves an average net income of \$57 per cow from the sale of butterfat. It is generally figured that the skim-milk and ma-nure will pay for the work of taking care of the cows, thus leaving the above amount as net profit per cov. "The best cow in Mr. Baker's herd produced 8025 pounds of milk con-taining 419 pounds of butterfat worth \$126. Her feed was \$39 showing a net profit of \$87 for the year. This cow produced butterfat a a cost of 6. 2 cents per pound."

#### DEMANDS EDUCATED PEOPLE

Young man, if you expect to run your father's farm in years to come, prepare yourself for the business; at-tend the college maintained in your state for farmer's sons. Young women, if you expect to be a happy wife some day in the future, obtain the indus-trial training that will best fit you for your life's work; the agricultural college also holds out a helping hand to you. Avail yourselves of the op-portunities in life as they present themselves. The future demands people with special knowledge of special work. special work .-- Western Farmer.

#### JUDGE HEPPNER FAIR

Three specialists of the Extension Service of the Oregon Agricultural ollege have been assigned by Director R. D. Hetzel to judge the livestock, horticultural, agricultural and poul-try exhibits at the Morrow County

fair Sept. 16 - 18. Secretary Smead, of the fair board, says that the board is endeavoring to have all matters pertaining to the management of the exhibits in the hands of these and other experts who understand the business and is very much pleased with the selection of the faculty men, who are the following: R. E. Reynolds, livestock; W. S. Brown, agricultural and horticultural; and C. C. Lamb, poultry. poultry.

#### O. A. C. JUDGES BUSY

The week ending September 11 was a very busy one for specialists of the Agricultural College Extension di-vision who were called upon to act as judges of various county and com-munity fairs held in Oregon. E. B. Fitts, W. S. Brown and Miss Anna Turley judged the exhibits of the George community fair and the Esta-cada East Clackumas fair, Professor Fitts giving a lecture and Miss Turley a demonstration at the latter. These Fitts giving a lecture and Miss Turley a demonstration at the latter. These three judges, in addition to Professor A. G. Bouquet and J. E. Larsen, of-ficiated at the Scio Linn County fair; Professors Fitts and Griffin at Med-ford, September 10; Professor Reyn-olds at Baker on the same date; and Professor W. A. Barr at the Coos and Curry County fair, Myrtle Point, Sep-tember 10 and 11.

#### ALUMNI

## STUDENT FORMS PARTNERSHIP

Oregon Agricultural College, Cor-vallis, Sept 13.—Congressman C. N. McArthur has sold an interest in his dairy farm near Rickerall, Oregon, to O. B. Stauff, a graduate of dairying at the Oregon Agricultural College. The Jairy and Jersey breeding busi-ness previously conducted by Mt. Mc-Arthur will be continued by the new firm operating under the title of Mc-Arthur & Stauff. Mr. Stauff is a practical dairyman

Mr. Stauff is a practical dairyman with experience gained on his father's farm in Coos County in addition to his college training. Since graduation he has acted as supervisor of official tests for register of merit work carried on under direction of the College, and bears a favorable name among the dairymen and breeders of the state. It is the intenstion of the new firm

to develop their herd along certain family lines and in carrying out this idea only about 20 cows and heifers in addition to the herd bull, Holger, will be maintained as a foundation herd. Mr. McArthur's congressional duties will call him to Washington this fall and Mr. Stauff will have entire charge during his absence.

#### MORE MANUAL TRAINING

Manual training and systematic gymnasium and athletic work have been added to the Heppner public schools, J. W. Motley, an O. A. C. graduate of 1915, in charge. Mr. Mot-ley will install the manual training work give instruction in shoriest ch work, give instruction in physical edu-cation, coach athletics and give a portion of his time to high school instruc-

### POULTRY

#### NEW POULTRYMAN AT O. A. C.

A. C. McCulloch of the Poultry De-partment, Ontario Agricultural Col-lege, Canada has arrived at O. A. C. to take up his duties as instructor in Poultry Husbandry in the position formerly held by Prof. A. G. Lunn, who has gone to the Massachusetts Agricultural College as Extension in-

structor in Poultry Husbandry. Mr. McCulloch is a graduate of the Canada College and for the past two years has been instructor there. The Canadian institution has one of the Canadian institution has one of the leading poultry departments of the country in charge of Prof. W. R. Graham, one of the foremost men in his line anywhere. Mr. McCulloch is a young man who is highly recom-mended and will give to his classes the best practical information available.

#### ENTOMOLOGY

DRIVING THE ANTS OUT OF HOUSE AND HOME

Oregon Agricultural College, Corvallis, Sept. 13 .- Ants, particularly troublesome this time of year, may be controlled with considerable success by smearing a mixture of three parts tartar emetic and four parts syrup on bits of china or wood and placing this bait about the runways of the ants. This is a slow-acting poison, of which the ants eat enough to poison themselves and also carry away enough to poison their young. In this way the entire colony may be exterminated

Where it is possible to locate the colonies outside the house the ants may be exterminated by the carbon bisulphide treatment. For killing off a large, well established colony, about an ounce of carbon bisulphide is re-quired. It is placed in a shallow dish quired. It is placed in a shallow dish on the opening of the colony runway and covered with a galvanized tub or other vessel that is inverted over the dish. All openings from the colony not covered by the tub should be closed with dirt pressed down slightly. The gas then formed is allowed to act for about six hours, when the treatment is applied to another colony.

The action of the bisulphide is thus explained by Professor A. L. Lovett, assistant entomoligist of the Oregon Agricultural College, who prepared the foregoing recommendations: The bisulphide is obtained in liquid form bisulphide is obtained in liquid form, which, upon exposure to the air, is transformed to gas. This gas is heavier than air and permeates down to the very bottom of the colony home, where its deadly properties destroy the ants. If the colonies are near a tree care should be taken that not too much is used or it may injure the tree. The gas is highly inflammable and must not be opened near a fire, nor exposed to smoking.

DAIRY

#### CLEARING OUT DOGBANE

Repeated hoe cuttings at the surface of the ground and salting the area affected is the recommendation for eradicating spreading dogbane made by H. S. Hammond, instructor of botany at the Oregon Agricultural College. If it is practicable to do so fested land should be put into thorough cultivation for two or three asons, thoroughly harrowing the land after it is plowed and gathering stems and roots for burning. somewhat easier method of control but one requiring repeated going over is to mow the tops off above the ground whenever they reach a height of 6 or 8 inches. The success of this method depends upon not permitting the plants to mature seeds.

## VALUE OF STRAW HOW TO USE IT

Crop Residues Add Dollars in Fertility and Humus

to Acre of Land

## APPLICATION METHODS GIVEN

May First Be Used as Feed or Bedding of Animals or Scattered, Disked and Plowed.

Straw is too valuable to burn or to waste and it contains so much ex-pensive plant food and humus-forming material that we should apply it to the soil without undue loss of time. Straw is our most valuable crop resi-due and while, in general, there is a feeling of satisfaction over good grain crops this year, let none of us forget that the straw crop of Oregon con-tains plant food that if purchased at ordinary market prices is worth ap-proximately three and one-half mil-lion dollars. If in addition we take the stubble into consideration, this large figure is swelled by about another million dollars. The table be-low indicates the amount and value of plant foods contained in the var-ious, ordinary farm straws and it should be noted that these values take into consideration only the plant foods they are non-line in the varshould be noted that these values take into consideration only the plant foods that are normally sold in commercial fertilizers and that the value of straw as a producer of organic matter or humus in the soil is not taken into account. In many cases the humus value equals or exceeds that of the plant food elements contained in the straw

straw. Fertilizing constituents in one ton

of litter: Nitrogen Phos.Acid Potash Val. pounds pounds pounds 
 pounds
 pounds

 Wheat Straw 9.6
 4.4
 12.6
 \$2.84

 Barley Straw 11.0
 4.0
 21.2
 3.52

 Oat Straw 9.2
 5.6
 35.4
 4.05

 Clover Straw 29.4
 8.4
 25.2
 7.48

 Pea Vine "28.6
 7.0
 20.2
 7.05

 Vetch straw 21.8
 5.4
 12.6
 5.24

 The above table should be a strong argument in favor of keening the
 strong the
argument in favor of keeping the straw on the farm and using it on the soil to assist in better production of future crops. Straw that is burned is almost a total loss. Straw that is sold to balers at fifty cents to a dollar

a ton is not returning its fertilizing value nor its value in producing or-ganic matter for the soil. Below are some estimates of various types of Oregon straw and their value as calculated from the data given in the table above.

Wheat		500,000	tons	 1,704,000	
Oats		225,000	tons	911,250	
Barley	mined	05,000	tons	369,600	
Clover		40,000	tons	299,200	
Vetch :	and				
Alfalfa		10,000	tons	52,400	
********		********	1014110	1. W. L. W.	

\_980,000 tons ....\$3,336,450 Total This does not include a considerable amount of miscellaneous straw; such lty emmer, field neas, grass Neither does it take into etc. sideration the stubble that is left on the field.

So valuable a by-product of crop production must not be wasted or lost. When it becomes fully understood that every acre of straw burned represents a loss of from one to three dollars in plant foods and probably fully as much more in organic matter, there will be considerably less of that waste-