

# AGRICULTURE AND LIVESTOCK NEWS

## Up-to-date Information to Help Develop Progressive Farming

### PRUNE DRYING IS AIDED THROUGH MULTIVANE FANS

Oregon farmers are installing multivane fans to recirculate air in their prune driers under the direction of the horticultural products section of the Oregon Agricultural College Experiment station.

"The fans will mean a lot to prune driers in Oregon," says Prof. Ernest H. Wiegand, under whose direction work has been done on the problem of using multivane fans to recirculate air. "The fate of circulation will be quadrupled. The air may be used over and over again, thus bringing about a saving in fuel."

The Eugene Fruit Growers Association has this system and is installing two large fans in a new type of dryer recommended by the experiment station. This drier will be the first of its kind to be installed in Oregon and will have a capacity of 10 to 12 tons in 24 hours. Air will be passed over the fruit at the rate of 700 lineal feet a minute.

Others installing fans include C. R. Widner and Rudolph Igerly of Albany, Jess Nichols of Irving, Dr. Scarborough of Creswell, L. M. Miller of Eugene, H. B. Hecker of Dillard and C. T. Kregel of Roseburg.

These men will double the capacity of their driers by using the fans, according to Professor Wiegand, and will also increase the quality of their product by lowering the temperature. The horticultural products section of the experiment station is offering to assist farmers who wish to install fans by giving them information they should have, thus the right arrangement of construction can be made and the right kind of fan installed, it is pointed out.

### RURAL SERVICE CONTEST CREATES MUCH INTEREST

Oregon weekly and semi-weekly newspapers have been fairly pouring into the office of the department of industrial journalism of the college to be listed in the rural news service contest to be a feature of the annual meeting of the State Editorial Association at Corvallis, July 21 to 23. Elbert Bede, president of the association and editor of the Cottage Grove Sentinel, will be chairman of the judging committee.

Indications are that even more interest is being taken in the contest by Oregon editors than was the case last year when competition was keen. Classes in the contest are: First, grand champion, free for all, except dailies; second, paper published in town of not more than 1500 population; third, paper of fewer than 23 columns all home print. Suitable prizes will be awarded as announced.



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### OREGON ASSOCIATION IN LEAD IN COW TESTING

Oregon cow testing association lead all cow testing associations in the Western States for butter fat production during the month of May, it is announced by Professor B. Fitz of the college extension service. The 3460 cows tested in this state gave an average yield of 41.5 pounds of butter fat per cow for the month, or 1.34 pounds daily. In the state the Tillamook association led all the others with 2442 cows tested, with an average butter fat yield of 44.42 pounds.

"Pet", a grade Jersey owned by J. L. George of Tillamook, made the highest yield from an individual cow, with 114.52 pounds of butter fat produced. Three Oregon associations, Smith, Epping and Columbia and Clatsop, are now in the 100 per cent pure bred bull class, according to the college's records.

### WHAT TO LOOK FOR IN SELECTING DAIRY HEIFER

A great amount of information can be obtained from a study of the head of the heifer calf. The head is an excellent index to the breeding, quality and value of the animal. The eye should be large, bright, clear, indicating good health; the face should be medium in length, free from fleshiness, showing an expression which the true dairymen cannot refrain from calling "sweet"; the nostrils large and well dilated to allow for the entrance of plenty of air; the muzzle large and broad, indicating a good feeder, and the jaw should be strong.

The constitution can be judged in part by standing in front of the heifer calf. We do not like a calf that stands with the front legs close together.

### O. A. CORRESPONDENCE

**Control Pear and Cherry Slug**  
The pear and cherry slug, the slimy brown creature now found skeletonizing the pear and cherry trees, may readily be controlled by regular applications of arsenate of lead 2-100. Where only a few trees are to be treated or the grower hesitates to apply the arsenate, one finely divided dust such as air slaked lime, sifted wood ashes, or road dust applied to the foliage will effectually control them.—Oregon Experiment Station.

### Spray for Codling Moth

A protective poison spray should be applied at once where the apple worm was serious last year as adult codling moths are continuing to appear in limited numbers and eggs are being deposited. Because of limited numbers of moths appearing if the worms were scarce in the orchards last year, it is possible to keep down infection sufficiently by delaying the thinning process somewhat and then paying especial care to thinning out the wormy fruit.—Oregon Experiment Station.

### Vetch Seed in Demand

Heavy vetch is in demand as a seed crop. Western Oregon can grow it.—Oregon Experiment Station.

### POULTRY POINTERS

By H. E. Casby, Extension Poultry Specialist

"Parabats. The New Scientific Lice and Mite Remedy" referred to in last month's report was given a two weeks' trial. The lice on the hens evidently suffered no ill effects because they evidently were all present, alive, healthy and happy at the end of two weeks. Another experiment will be conducted and results reported through these pages.

We have secured splendid results in crate fattening broilers by using 60 per cent corn meal and 40 per cent shorts mixed with enough buttermilk to give the whole volume the consistency of porridge. The birds are fed three times a day just what they will eat in 20-minute periods. The remainder, if any, is taken from the feeding trough. It is usually not advisable to crate fatten longer than 12 to 14 days. A ration of 60 per cent corn meal, 35 per cent shorts and 5 per cent fish meal or beef scrap, mixed and fed as above recommended, also has given good results.

When production starts to slump, look over the flock carefully for dry shivered combs, yellow ear lobes and beaks. It will usually pay, after an examination, to dispose of such hens at this time of the year. A palatable moist mash may be fed daily with slightly increased amounts as the season advances. The proper feeding of a moist mash will usually result in prolonging the period of high average egg production.

**Rhubarb Conserve**  
4 lbs. rhubarb, cut fine; 4 lbs. white sugar, 1 lb. seeded raisins, 4 oranges, grated rind of 2 and the rest chopped fine; 1 1/2 lb. walnut meats. Mix all and stand on back of stove till sugar's dissolved, then boil till thick and all seems done.

**Ginger Cookies**  
One cup of shortening, two cups of sugar, one cup of molasses, one teaspoon of soda dissolved in a cup of hot black coffee, three eggs, three teaspoons of ginger, one cup of rolled oats flour enough to make handling easy, and bake in a moderate oven till well done.

**Sour Cream Cake**  
One cup of sour cream, one and one-half cups of sugar, three eggs, one teaspoon each of soda and baking powder, a pinch of salt, two cups of flour and vanilla.

Beat the yolks until light, add sugar gradually and stir until creamy, add the cream, then the flour with soda, baking powder and salt sifted in. Add the stiffly-beaten whites and vanilla the last thing and bake in layers. Fill with anything desired.

MRS. W. J. T.  
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## GOOD CURE WILL STOP HAY FIRES

### Heating Process Begins as Fermentation Produced by Growth of Bacteria.

### NOT MYSTERIOUS TO CHEMIST

#### Danger of Spontaneous Combustion Must Be Anticipated Before Feed Is Stored—Moisture Is Controlling Factor.

The risk of fire from spontaneous combustion in mows and stacks may be done away with almost entirely if hay is put up only when properly cured, says the United States Department of Agriculture. To the chemist and bacteriologist there is nothing mysterious about these fires. The heating process begins as a fermentation produced by the growth of bacteria in moist hay. When conditions are right the temperature mounts until the organisms that started the heating are killed; from then on the heating is the result of chemical action—a slow oxidation when it is away from contact with the air and a rapid oxidation, or fire, when the heating area breaks through to the open air.

When one of these fires breaks out there may be time to save the live stock, unless it occurs without warning in the night, but there is small chance of saving the structure and the feed stored in it. The danger of spontaneous combustion must be anticipated before the feed is stored. Most farmers know when hay is cured properly, but because of threatening weather or for some other reason some men compromise and put in feed that still contains too much moisture, sometimes giving themselves a false sense of security by scattering salt in the mow or stack. Moisture is the controlling factor, whether it is rain that has fallen on the cut hay or water within the stems makes no difference. If the moisture content is low enough the hay will not heat to the danger point.

### Alfalfa a Trouble-Maker.

Alfalfa and clover and other hay made from rather succulent plants cause the most trouble from heating, and they should be given particular care in curing. In some parts of the country where rains are frequent at haying time it is hard to get hay into ideal condition. Some farmers cure it in cocks and use canvas caps, but this is expensive in time and materials. In humid regions the danger from spontaneous combustion in mows and stacks may be lessened by the use of a box-like ventilator, a skeleton tube 12 to 15 inches square and of any length desired, depending upon the size of the mow or stack. The corners are 2 by 4 inches and the crosspieces 1 by 3 inches placed close enough together to keep the hay from falling through and blocking the air passage. Diagonal braces are placed in the box at intervals to keep it from collapsing under the weight of the hay. These ventilators are usually placed across the mow at intervals of 7 or 8 feet.

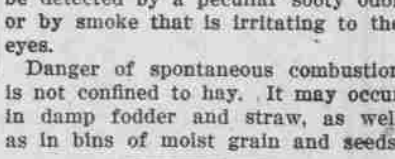
### Stirring is Worst Thing.

When a mow or stack has become badly heated there is a strong temptation to go in and stir up the hay, but often this is the worst thing that can be done. Admitting air to the hot center of fermentation may be just the thing needed to start a fire. If air does not get in a part of the hay may be charred without starting a fire; gradually the mow cools and the only loss is the hay that has been carbonized. However, in the early stages when the hay is heating it is sometimes advisable to move hay from one mow to another or to restack. But be sure it is not too hot.

### CABBAGE CUTTER IS USEFUL

Garden Implement Easily Made From an Old Spade—Cut Out Wedge-Shaped Portion.

A very useful cabbage cutter can be made from an old spade. In the first place, a wedge-shaped portion is cut



### ORDINANCE NO. 3

An ordinance establishing Sewer District No. 14 and providing that property owners therein shall make connections with the public sewers and

### declaring an emergency.

Section 1. That the following territory to-wit: Beginning at the Northeast corner of Lot 1 Block 4 Holmes Addition to Oregon City, according to the duly recorded map and plat thereof; thence westerly along Southernly line of Division Street of Oregon City to the Easterly side of Lot 8 in said Block; thence southerly along the Easterly side of lots 8 and 11 to the Northerly side of Willamette Street; thence Easterly along Willamette Street to the westerly side of Eluria Street; thence Northerly along Eluria Street to the place of beginning, be and the same is hereby constituted a sewer district to be known as Sewer District No. 14. The main outlet of said sewer district shall be an 8 inch sewer extending from the manhole at 8th and Buchanan Streets southerly to the center of the alley in said block 4, Holmes Addition to Oregon City, between Division Street and Willamette Streets and in said alley from lot 1 to lot 8.

Section 2. That all property owners within said sewer district are hereby required to connect all water closets, privies, sinks, bath tubs and drains containing or carrying sewerage with the public system of mains to be constructed within said sewer district within 90 days from the time of said sewers are completed and accepted by the city, and all persons neglecting or refusing to make such sewer connections within the time named, shall upon conviction thereof before the City Recorder, be fined in any sum not less than ten dollars nor exceeding one hundred dollars at the discretion of the court; and each day such refusal and neglect shall continue after the said 90 days shall be deemed a distinct and separate offense.

Section 3. Within the same time—90 days after the completion of the said main sewers, all property owners within said sewer district are required to close and properly fill with earth all privy vaults and cess pools within the same; and thereafter it shall be unlawful for any property owner to dig or make use of any cesspool or privy vault, and all persons violating the provisions of this section shall upon conviction thereof, be fined in any sum not less than ten dollars, nor more than one hundred dollars, at the discretion of the court; and each day's continuance of such violation after such conviction shall be deemed a distinct and separate offense.

WHEREAS the real property embraced in said district is residence property located in a residence center of Oregon City and is without adequate sewers and the immediate construction of a sewer system therein is necessary in order to protect the health of the people residing therein, therefore, an emergency is hereby declared to exist and this ordinance shall be in effect upon its passage and approval.

Read first time at a special meeting of the city council held on July 15, 1922 at 7:30 o'clock p. m. and ordered published to come up for second reading and passage at a regular meeting of the city council to be held on the 2nd day of August 1922, at 7:30 o'clock p. m. C. W. KELLY, Recorder.

Section 4. That all property owners within said sewer district are hereby required to connect all water closets, privies, sinks, bath tubs and drains containing or carrying sewerage with the public system of mains to be constructed within said sewer district within 90 days from the time of said sewers are completed and accepted by the city, and all persons neglecting or refusing to make such sewer connections within the time named, shall upon conviction thereof before the City Recorder, be fined in any sum not less than ten dollars nor exceeding one hundred dollars at the discretion of the court; and each day such refusal and neglect shall continue after the said 90 days shall be deemed a distinct and separate offense.

Section 5. WHEREAS the condition of said street is dangerous to the health and safety of the public and the immediate improvement is necessary for the immediate preservation of the health and safety of the public in the opinion of the council of Oregon City an emergency exists, therefore this ordinance shall take effect and be in force immediately upon its approval by the Mayor.

Read first time at a special meeting of the city council held on July 15, 1922, at 7:00 o'clock p. m., and ordered published to come up for second reading and passage at a regular meeting of the city council to be held on the 2nd day of August 1922, at 7 o'clock p. m.

C. W. KELLY, Recorder.

### GOOD POULTRY SUGGESTIONS

Of Great Importance That Feeding Utensils Be Kept Absolutely Clean—Other Hints.

"Watch the feeding utensils" is a suggestion of more importance than most poultry raisers realize. The water basins are of great importance because many contagious diseases may be spread through the drinking water. Wash and scald all water basins once a week. Each morning when filling the water basins empty all the old water out and rinse the basins before refilling. Place the basins well off the ground so that the birds will not scratch straw and dirt into the water. Locate the food hoppers so that they will be perfectly dry at all times.

Other important suggestions as to good sanitation are:  
1. Be sure that the birds have plenty of fresh air.  
2. Sunlight is a good germicide.  
3. Clean yards are essential to good health.

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