

Record Attendance at Farmers Week at Oregon Agricultural College

AGRICULTURISTS CROWD CORVALLIS O. A. C. SESSIONS

Discussion Is Centered Around Every Angle for Improvement in Farming and Marketing.

By Roy Stewart
Another successful Farmers' week has just been completed. The entire state was well represented with farmers as well as people in other lines of work. Over 760 people attended the lectures and demonstrations given during the week. The value of the information they received would be hard to estimate, but it is said that great results have been accomplished.

People are beginning to realize that the farmer must be educated and a specialist in his work. The impression once was that if a man could not make a success of anything else he could still go on the farm and make a living. If a man cannot make a living on the farm today, he must either seek some other kind of work or take enough interest in farming to spend some time in receiving the necessary training. Of course, there are many who are raised upon a farm and know the practical side of it very well, who may make a success of farming in a way, but at the same time with a little study they can improve their methods, thus making their work easier and at the same time more profitable.

With the present methods of spreading knowledge not only through the colleges but through the rural papers, there is no reason why the farmers should not be more prosperous. The main trouble is that many cannot attend the schools provided and there are many who do not read enough. Farming is the vital of industries and should be developed to the highest point of efficiency. This can only be done through the efforts of the agricultural schools with the assistance of the agricultural press of the country. The schools develop the ideas, and the press spreads the ideas to everyone.

INTERESTING LECTURES
An interesting series of lectures on dairy feeds and balancing of rations was given during Farmers' week by Professor E. B. Pitts of the dairy department. One of the conclusions which has been reached is that byproduct feeds such as millrun, coconut meal, molasses and beet pulp, are cheaper than the home grown feeds as barley and oats. If we consider the digestible nutrient cost, under present price conditions it was pointed out that one of the cheapest balanced feeds which can be used is mill run 200 pounds, beet pulp 100 pounds, coconut meal 25 pounds, and oil meal 15 pounds, the cost per pound being 77 cents. The cost per pound of digestible nutrients is 3.7 cents. This is the concentrate ration used at the college now.

Another economical combination is mill run, coconut meal and molasses fed with clover hay and corn silage or other green matter. "Feed is the largest item of expense in the production of milk," said Professor Pitts. "There is a vast amount of wasteful feeding among the dairymen, due largely to ignorance of the requirements of his cows. Feed elements are divided into two general classes known as proteins, or muscle-making and carbo-hydrates or fat and energy producers. These elements should be present in the ration in the proportion of one part protein to five or six parts carbo-hydrates. This proportion is known as the nutritive ratio and when the nutritive ratio is in such proportion as to best meet the

KEEPING POULTRY FIT



A fine poultry run. Chickens need green feed and plenty of it, in addition to meet scraps and other feeds.

needs of the animal the ration is known as a balanced ration. "Milk contains elements that are always put together in the same proportion and unless these nutrients appear in the feed in this proportion the ration is not an economical one to feed." One visitor said, "You have made plain to me the meaning of balanced rations and have shown us how to do it."

A great deal of time was spent profitably in discussion and instructions on how to combine hay and feeds which the different dairymen have on hand in order to get a properly balanced ration. Some of the dairymen found they were wasting feed simply because they have been feeding too much of some kinds while the other elements needed had not been supplied.

Professor Pitts is considered the best authority on rations in the Northwest.

POULTRY NOTES

A good, fresh egg should have a small air space. The yolk should not be very distinct. There should be no black spots or rings. Sometimes the eggshell has fine cracks in it. This is commonly known as a "check" egg, and should not be shipped with first quality eggs. It spoils very quickly.

Blood rings are partially incubated eggs, which show a distinct ring of blood on the yolk. They are unfit for food and should be rejected. Cause: A fertile egg in which the development of the germ has proceeded until blood has formed and the embryo has died. Ring formation is not present while the embryo is alive, although blood spots or veins may show. Moldy eggs have black spots that show only before the candle. They are unfit for food.

Cause: Field nests or wet nests, holding eggs in a damp place, or washing them. Dampness allows mold spores to enter the pores of the shell and grow inside. Mold can also enter through cracks in the shell.

Black rots look more or less black before the candle and are unfit for food. Cause: Dead chick, accompanied by bacterial decomposition, or extensive growth of mold and bacteria inside of the shell. Mixed rots, white rots or added

OFFICIAL TESTING OF MILK ADVANTAGES ARE EXPLAINED TO FARMERS

S. Fine in Lecture at O. A. C. Farmers' Course Establishes Fact Tests Are Necessary.

Oregon Agricultural College, Corvallis, Jan. 3.—During Farmers' week a very interesting lecture on official testing was given by S. Fine of the dairy department. The main facts brought out were the following:

That it establishes a herd-book within a herd-book of the best of the breed. That it is the ultimate stage necessary for the development of the breeds, to their highest point of efficiency. That it is the only reliable way of improving the dairy breeds.

Testing selects the cows that show real producing ability and gives a chance to weed out the poor ones, thus establishing an aristocracy among cattle. One of the most important things it does is to provide a means of selecting sires that will transmit production. It makes possible unlimited development in breeding by mating the best with the best.

Official testing is made possible through the cooperation of the Breeders' association, the Agricultural college and the breeder. It is up to the breed associations to keep the records and furnish the rules necessary for testing. The breeder's part is mainly to feed correctly, milk regularly and well, and pay the slight expense incurred, which will return him so much in the advanced prices he will get for known quality stock.

Testing pays because it weeds out the herd, enabling the breeder to keep only

eggs, when turned over before the candle, show dark, heavy yolks, easily movable and with a distinct reddish glow. Cause: Bacterial decomposition usually following advanced staleness. Stuck yolk eggs have yolks apparently stuck to the shell. They are unfit for food.

Cause: In hot weather, when fertile eggs are kept without turning, the yolk may rise through the white and become attached to the shell membrane. In cool weather the yolk may settle in the shell and become fastened to the shell membrane.

Heated eggs before the candle will show dark, heavy yolks, easily movable and with a distinct reddish glow. Cause: Egg is fertile and has been exposed to temperatures which start chick development. If temperature is high enough and sufficient time elapses, development will continue until the embryo and blood form.

Market Reporter To Be Published

Beginning about January 1, 1920, the Market Reporter, a periodical of general interest devoted to marketing information concerning important agricultural products, will be published weekly by the bureau of markets. It will be sent free to those interested who make request for it to the bureau of markets, United States department of agriculture, Washington, D. C., and who give the following information: (a) Name and full address, (b) business or occupation, (c) kind of kinds of farm products in which interested, and (d) the names of periodicals or reports (mimeographed or printed) that are being received or have been received regularly from the bureau of markets or any other branch of the United States department of agriculture.

Turkey Farming Pays

Chehalis, Wash., Jan. 3.—B. Hammond of near Winlock is convinced that turkey farming is profitable. This year he had 65 birds which he treated as a sort of sideline to his farm, but when he marketed them for the holiday trade he found the 65 weighed 423 pounds, and sold them at 48 cents a pound, netting him \$204.

Average number of eggs the good farm hen should lay:

Month	Eggs	Month	Eggs
November	5	May	20
December	6	June	18
January	7	July	17
February	8	August	16
March	9	September	15
April	10	October	14

Hen's total for the year.....160

the high producing cows. This in time will bring up the standard of all the dairy animals in the country and will make for better prosperity.

Laying Hens Tamed By the Trap Nest

A trap nest is a laying nest so arranged that after a hen enters it she is confined until released by the attendant.

When possible, it is advisable to trap nest the layers, for the following reasons:

To tame the birds, thereby tending toward increased egg production. To furnish definite knowledge concerning traits and habits of individuals. To furnish the only satisfactory basis for utility or other breeding.

To eliminate the non-productive hen. To add mechanical precision to judgment and experience in developing and maintaining the utility of a flock.

Scrub Bull Owners Obtain Information

To meet the demand of livestock owners for information on proper methods of skinning and preparing hides for market, the department of agriculture is preparing for distribution the second edition of "Farmers' Bulletin 1055, 'Country Hides and Skins.'" The suggestion has reached the department that the publication mentioned should be especially useful to owners of scrub bulls, particularly those who are discarding unfit sires and are demonstrating their interest in livestock improvement by joining the federal-state campaign for better sires.

Votes for Grange Officers

Warren, Jan. 3.—The result of the election for officers of the state grange, held by the local branch, resulted almost unanimously for C. D. Huffman of La Grande for master, A. H. Tarbell of Warren for overseer, Mrs. Minnie E. Bond of Eugene for lecturer, Mrs. Mary H. O'Neil of Washington county for secretary, and R. W. Gill of Multnomah county for member of the executive board. This is the first time in the history of Oregon granges when the members voted directly for their state officers, and a great amount of interest was manifested.

When answering advertisements mention the farm pages of The Journal. It helps.

Diseases Found in Produce Reported

To detect local outbreaks of diseases of vegetables and fruits, which when uncontrolled cause heavy losses in the field or in transit, the food products inspectors of the United States department of agriculture are reporting diseases found in shipments of produce at the leading market centers of the country. If a shipment shows a serious disease or rot, the county agent and other representatives in the locality affected are at once notified and instructions given for overcoming or minimizing future losses. The notification to the point of shipment also prevents shippers from continuing to ship material certain to spoil in transit and thus waste car space.

Spoiled Fruit Total Loss

The spoiling of a bushel of potatoes.

a dozen cantaloupes, a basket of grapes, or a crate of oranges represents an absolute loss to the community. The loss must be borne by both producer and consumer, and in many cases the distributor must share the burden.



Our kegs are made of the best assorted white oak. All sizes in stock. Our prices are right. LAYTON COOPERSAGE CO. Office 827 Water St., Portland, Or. Phone Main 2147

BUCKEYE Incubators

NO EXPERIENCE needed to raise chicks by the new "Buckeye" method. —Just keep the lamp burning and turn the eggs. The "Buckeye" Does the Rest.

GUARANTEED to hatch MORE Chicks and Better Chicks than any other incubator.

Broods 100 to 1000 Chicks

DIAMOND CHICK FOOD
Some little chicks and helps them to grow quickly into big, sturdy fowls. No Other Food Necessary.

DAY OLD CHICKS—From the finest laying strains selected from O. A. C. Stock—Eggs from 221-egg hens mated to cockerels from 300-egg hens. All chicks tested and guaranteed free from white diarrhoea. O. A. C. standard test. DELIVERIES begin February 15th. ORDER EARLY.

Our POULTRY SUPPLY CATALOG and the "Buckeye" and Lee Booklets on request. Ask for Catalog No. 122

Day Old Chicks

Thoroughbred Poultry and Eggs for Hatching

SEEDS (THE KIND THAT GROW! YOU CAN'T KEEP THEM IN THE GROUND.)

FULL LINE OF SPRAY PUMPS AND MATERIALS, POULTRY, FRUIT TREES AND FERTILIZERS. Send for Catalog—"It is full of information"

J. J. BUTZER
188-190 FRONT STREET PORTLAND, OREGON

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INCUBATORS AND BROODERS
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OF ALL KINDS
CATALOG FREE.
PORTLAND, ORE.

OUR 160-PAGE 1920 ANNUAL—
Our 160-page Annual Catalog for 1920 will be ready January 10th. Every Gardener and Poultry Keeper will find it of interest. It's a real business catalog for western buyers. Twenty years' practical experience on this coast enables us to serve you intelligently.
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Spend your spare time in this profitable manner. It is easy work, interesting and brings big returns.

TOP PRICES Quick Returns

on raw furs of all kinds. Ship your furs to us and you will receive immediately the highest market prices. A reputation of fair dealing for 55 years is our recommendation.

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Liebes Bldg., Portland, Or.
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Give Him a B-L-K Milker

THIS 14-year-old boy, Warren Burt, milks 25 cows morning and night with the aid of two double Burrell B-L-K Milkers—milks four cows at a time and does a better job than could be done by hand. The cows let down their milk freely and the milkers get it all. There's no drudgery in milking with the Burrell—makes milking light, pleasant, interesting work for man or boy, and the cows like it, too. Labor is scarce, and good hand milkers are hard to get at ANY price. You can solve the whole problem quickly, economically and permanently with the Burrell. Let us tell you more about it.

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If in need of pure drugs and chemicals, shoulder braces, arch supporters.

TRUSSES

Elastic stocking, abdominal supporters, suspensory bandages for men, and all other rubber goods of every description. Send to the

Laue-Davis Drug Co.
Dept. 6, 84 and Yamhill, Portland, Or.

Oregon City Woollens
WOMEN WHERE THE WOOL IS GROWN

Oregon City Overcoats On Broadway

A long way from Oregon City to the Broadway of all Broadways, yet Oregon City overcoats and mackinaws have gone there this year—a lot of them! And in thousands of other cities and towns from Maine to California, Oregon City Woollens are being distributed. Over twelve million copies of the Saturday Evening Post have carried full page advertisements on Oregon City goods. In each of these pages the Oregon City label is featured—a consciousness created in the minds of the American public that this label stands for a definite standard in woolen goods.

It has been inspiring to see how the power of national advertising can take hold of a local reputation for good merchandise and fair dealing and upon it quickly extend the good will over the entire country. We are glad to have been helpful in the building of this nation-wide good will for Oregon City Woollens.

BOTSFORD, CONSTANTINE & TYLER

National Advertising and Merchandising Agents
Spalding Bldg., Portland Henry Bldg., Seattle

An interesting publication, called "Makin' Her Top," which we issue periodically, will be mailed, upon request, to executives to whom we loan the marketing problems.

WEIGHT 3 LBS. 7 OZS.

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