

Crop Rotation and Soil Improvement the Surest Means of Securing Prosperity

CROP ROTATION IS ESSENTIAL TO HOLD FERTILITY OF SOIL

Legumes Supply Necessary Element if Land is Cultivated With Use of Fertilizers.

You cannot coast down hill all ways, you must sometime climb. Neither can you continue to grow large crops without feeding the land.

Fertilizers are made necessary mainly through cropping the soil to death without using any system of crop rotation. There are cases on record where fields have grown the same crop for years, each crop getting poorer until leguminous crops were produced and grown for a few years and then used in rotation with the cereal crop when the land began to build up instead of down.

Crop rotation is the first essential in the building up of soils. This is accomplished through drawing upon different elements each year which gives the other elements a chance to build up and be ready for the next crop for which they are suited.

In many sections there is not sufficient barnyard manure to turn back to the soil and therefore a green manure crop, preferably a leguminous crop, must be used. According to Cyril G. Hopkins, professor of agronomy in the University of Illinois and one of the best soil authorities in the United States, "organic matter consists of compounds formed by life processes, compounds that are or have been living matter."

Keeping your soils well supplied with organic matter is very important owing to the fact that practically all of the nitrogen in the soil is held by this material. In addition to this, a soil containing plenty of organic matter holds more water, does not run together and bake and makes the plant food elements more available.

Leguminous crops are valuable in crop rotation because of the small nodules which are located in the roots and collect nitrogen from the air through the tops of the plant. Since nitrogen is an essential food for all serial crops the use of legumes supply exactly the elements that could be supplied in no other way without using fertilizers.

From 50 to 100 pounds of nitrogen per acre will be deposited on the roots if the seed is inoculated with the nodule forming bacteria. Inoculation is not necessary if the ground contains the bacteria. Since the tops of legumes contain twice as much nitrogen as the roots if a leguminous crop is turned under as green manure, potassium, phosphorus and a large amount of nitrogen is given to the soil.

When these three elements plus the organic matter the fertility of the soil is greatly increased. This means better grain, fruits, seeds, yields of hay and since any of the legumes will make good manure, this means better livestock. Above all the land is better, not poorer, than at the start.

Housing for Oregon Poultry Important

An instructive meeting was held Tuesday evening when Routledge Seed & Floral company acted as host to about 150 people interested in poultry.

Judge Geo. W. Masterson, an authority on poultry diseases, who represents the Germo company of California, gave a very interesting talk about the future of the poultry business. Masterson says that while soil is the most important consideration in California, in Oregon proper housing is the foremost question when taking up the poultry industry, for most any of the diseases are suitable.

He explained chicken diseases and dissected some fowls, showing as well as explaining exactly what their ailments were and the best remedy in each case. Music and singing made up the rest of the program.

Fruit Growers May Increase Ass'n. Stock

Directors of the Eugene Fruit Growing association will increase the stock of from \$100,000 to a total of \$250,000 and a recommendation has been made that the stockholders, at the annual meeting to be held here January 24, vote to increase the stock to this amount. A dividend of 6 per cent has been voted stockholders.

Livestock Men to Meet Spokane, Jan. 24.—The twenty-third annual convention of the American Livestock association will be held in Spokane on January 27, 28 and 29, sessions commencing at 10 o'clock on Tuesday, January 27.

Gardeners, Poultrymen, Orchardists

Our 1920 Annual Catalog

contains 160 pages of valuable and up-to-date matter of vital interest to the Western Planters of Garden, Farm and Field Seeds, Fruit Trees and Berries, Roses, Shrubs, etc., and buyers of Fertilizers, Sprays and Spray Pumps, Garden Tools and Supplies, Incubators, Brooders, Poultry Supplies and Foods, Birds, Puppies, Rabbits, etc.

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Federal Farm Loan Organizations Hold State Meet in Salem

The Oregon State Association of National Farm Loan organizations will hold its second annual meeting January 27 and 28 at Salem. D. G. O'Shea, president of the Spokane Federal Land bank, will address the meeting. Aside from Mr. O'Shea's address no set program has been arranged, and it is the intention of Charles M. Emery, president of the state association, to devote most of the time of the meetings to open discussions of the various problems that confront the farm loan associations.

O. A. C. Hens Capture Egg Contest Prize

Oregon Agricultural College, Corvallis, Jan. 17.—A pen of college Barded Plymouth Rocks won first prize for the month of December in the egg laying contest at the Western Washington station, Payallup, Wash., according to word received by James Dreyden, professor of poultry husbandry. The record of the pen of five birds was 132 eggs, an average of 26.4 a hen, or approximately 84 per cent of a possible egg yield, which is considered a remarkable showing. Fifty pens are entered in the contest, a majority of the poultry being White Leghorns. The pen having the highest value of eggs for November and December was also a Corvallis pen of the O. A. C. strain of White Leghorns, owned by John A. Henson. The value of the eggs laid by the pen in the two months was \$10.65.

Hog Show to Be Held

A hog show and sale will be held at Salem February 4, when 43 head of brood sows and gilts, from the champion producing breeders of the West will be sold. G. M. Harvey of Boyd, Or., a well known breeder and judge, will have charge of the show during the morning. Colonel J. W. Hughes will sell this fine lot of champion blooded Durocs. Many of the sows are bred to grand champion boars. A get-together meeting will be held at Salem the evening of February 3 which a great many of the breeders expect to attend.

Abortion—Sterility in CATTLE

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CLACKAMAS COUNTY JERSEY CATTLE CLUB IS NEW ORGANIZATION

Marked Improvement Planned in Quality of Stock Raised Around Oregon City.

By Richard G. Scott, County Agent
At a meeting in the Commercial club rooms at Oregon City last Saturday a number of progressive Jersey owners formed the Clackamas County Jersey Cattle club. Men and women were present from all parts of the county, some of whom had traveled 25 miles to become charter members of the new organization.

A constitution and by-laws were adopted and officers elected as follows: President, N. H. Smith, Oregon City; vice president, John Cole, Molalla; secretary, Mrs. Anton Malar, Boring. There are over 50 breeders of registered Jerseys in the county and it is expected that these will all join.

In order to keep the interest in Jerseys at the proper pitch, meetings will be held regularly every two months at different farms in the communities where there is strong Jersey sentiment. There was considerable competition for the first meeting, to be held February 28. The choice fell to the Twilight community near Oregon City.

A program was arranged to be held at D. F. Skene's farm, which will consist of talks on breeding and feeding and an exhibition of judging by the Twilight Calf club, the team which won first place at the Pacific International Stock show in competition with teams from all over the Northwest.

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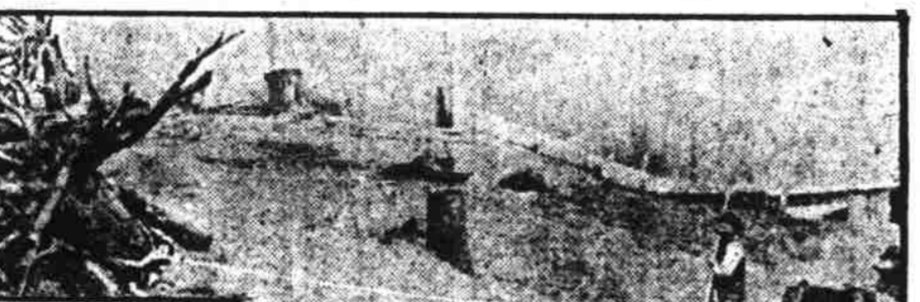
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of the plans is to keep track of all the good registered Jerseys for sale and to see that no bull which has proved its worth be sacrificed to the butcher because of lack of publicity. The fact that a woman is secretary of the club is in keeping with the precedent set by the Clackamas County Guernsey Breeders' association. There promises to be some good competition between the two organizations, which in the end will result in driving the scrub out altogether. It is considered probable the two clubs will cooperate in such work as getting the county cleaned up from tuberculosis and other contagious diseases.

DEMAND EXCEEDS SUPPLY
In the matter of sales there is already more of a demand for registered Jerseys than can be filled. President Smith of the club recently received inquiry for a carload of registered Jersey females for Eastern shipment, which could not be filled from this county. The club also is working to assist in the formation of pure-bred calf clubs among the boys and girls, as it is well known that once the youngsters are interested in keeping good stock the problem of keeping them on the farm is solved.

Poultrymen Organize

A temporary organization of poultrymen of Florida Prairie has been perfected with Roy Palmer as temporary chairman. A permanent organization will be formed on February 2. The plan for the organization includes all of Lewis county ultimately to be embraced. The organization will affiliate with the Washington Cooperative Egg and Poultry association.



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I have had 100 eggs a day for the last two weeks. I have had 100 eggs a day for the last two weeks. I have had 100 eggs a day for the last two weeks.
1000 Worth of Eggs from 40 Hens
I have had 100 eggs a day for the last two weeks. I have had 100 eggs a day for the last two weeks. I have had 100 eggs a day for the last two weeks.
1000 Eggs After 1 Year
I have had 100 eggs a day for the last two weeks. I have had 100 eggs a day for the last two weeks. I have had 100 eggs a day for the last two weeks.
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