

AGRICULTURE AND LIVESTOCK NEWS

Up-to-date Information to Help Develop Progressive Farming

NO ADVERTISING SIGNS IN CALIFORNIA FORESTS

Advertising signs in the 17 national forests of California must come down, following an order issued by the district forester at San Francisco on January 27. Advertisements printed on rocks and trees are also to be effaced. According to the regulations of the Forest Service of the United States Department of Agriculture, such advertising is prohibited in all national forests without special permits, which are seldom issued. The object of this regulation is to prevent defacing the mountain landscapes of the national forests with billboards and other unsightly signs.

APPLE AND PRUNE TREE SPRAY TIME ABOUT HERE

Spraying time comes with growing in Oregon. Indeed successful orchardists beat the first stirrings of nature and get their sprays on where protection is needed while the buds are swelling but before they burst open, say the experiment station reports.

Protection of apples and pears against San Jose scale, blister mite and red spider mites is had by use of lime-sulfur 12-100 as a dormant spray. For scale only or for leaf roller of apples, miscible oil 8-100 is recommended.

Delayed dormant spray time follows quickly on the heels of the dormant, especially in sudden bursts of good weather. When the cluster buds are separating just enough to expose to view the blossom buds is the time for this spray as per station reports. Lime sulfur 3½-100 is the material. For aphids on apples add nicotine sulfate three-fourths pound to 100 gallons of spray solution.

For scale, red spider mites and twig miner of prunes and plums the dormant spray—just as the buds are opening—is lime-sulfur 12-100.

COW GIVES 35 TONS MILK IN 7 YEARS STEADY RUN

"Willowmoor White Pride" is a pretty big name for a cow, but the O. A. C. station Ayrshire of that name seems doing her best to deserve it.

In 7 years she has produced 8180 gallons of milk—enough to fill the swimming tank at Shepard hall. If a man had credit with his local milkman for that amount he could draw a quart of milk twice a day for 45 years and never get a milk bill.

The edible solids in the 35 tons of milk she gave are equal to the edible solids of "30 fat steers averaging 1250 pounds each. And for good measure Willowmoor produced 7 heifer calves in the same seven years, each of which, says P. M. Brandt, head of the station dairy department, is capable of duplicating her mother's record—except possibly the heifer calf production.

Hay Substitutes

Farms short on hay for next fall and winter have little choice of successful late planted crops for that purpose. Mid March is late for vetch and oats. Peas and oats are good at low altitudes till early April and a little later for high altitudes. Then grain, oats, or beardless barley alone are about all that is worthwhile since millet and Sudan grass are not very satisfactory.

Fall seeding of grasses for pasture is better than late spring planting but the clovers do best if seeded in the early spring.

Japanese Barnyard Millet is a good summer sowing crop on the coast. It is seeded in April or May at 30 to 40 pounds an acre.

Tapoca Cream

Two cups milk, 2 tablespoons minute tapioca, ¼ teaspoon salt, 1 egg, 1-3 cup sugar, 1 tablespoon lemon juice, ½ teaspoon vanilla.

Scald milk. Put milk tapioca and salt in top of double boiler and cook 20 minutes, stirring frequently. Beat the yolk of the egg with sugar. Stir into tapioca and continue cooking until mixture thickens like custard. Remove and beat in the white of the egg whisked till stiff and dry. Add lemon juice and vanilla. Set aside to chill.

Scalloped Liver

One-half pound liver, 1½ cups stale bread crumbs, 4 tablespoons butter, 2 tablespoons minced onion, 2 cups canned tomatoes, salt and pepper.

Have liver cut very thin. Put thin layer of crumbs in a buttered baking dish. Add a layer of liver, sprinkle with onion and dot with bits of butter. Season with salt and pepper. Add a layer of tomatoes. Continue layer for layer until all is used, making the last layer of bread crumbs dotted with butter. Bake in a moderate oven for 40 minutes.

Creamed Tuna Fish

Two cups tuna fish, 3 tablespoons butter, 2 tablespoons flour, 2 cups cream, 3 hard-boiled eggs, 2 pimentos.

toes 1 teaspoon salt, ¼ teaspoon paprika, ¼ teaspoon celery salt. Melt butter and stir in flour. Add salt and gradually add cream. When mixture is boiling, add tuna fish broken in coarse flakes, hard boiled eggs cut into slices and pimentos cut into dice. Season with paprika and celery salt and serve very hot on toast.

PEANUTS VALUABLE FOOD RICH IN THE AMINO ACIDS

Peanuts are high in food value, says the United States Department of Agriculture, but there is no foundation for the recently circulated report that peanuts promote the growth of hair. Investigations carried on in the Bureau of Chemistry with regard to the chemical and nutritive properties of the proteins of the peanut have demonstrated that, aside from the oil, which is easily digested and which furnishes a large amount of fuel or energy, the shelled peanut contains about 20 per cent of protein of a high nutritional quality.

When we eat protein we consume in reality 18 or 20 substances, known as amino acids, each one of which may have quite special functions in nutrition. Some proteins are deficient in certain of these acids and will not promote growth. Peanut protein, however, is rich in the amino acids which are lacking in the proteins of corn and grain, and for that reason peanuts are an excellent supplement to a cereal diet whether in the form of a meal or press cake fed with corn and cereal feeds to animals or as a supplement to wheat protein when used with wheat flour in bread making.

The erroneous idea that eating peanuts will affect the growth of hair may have arisen from the fact that hair, wool, feathers, and similar animal tissues when analyzed show a relatively large amount of cystine, which is one of the amino acids present in protein. Even were the assumption true that by eating foods containing cystine the growth of hair could be stimulated, it would not apply in the case of peanuts, which do not contain as high a percentage of cystine as many other common foods.

Vegetables Mean Health

While they do not provide carbohydrate or fat producing material, as a rule, yet vegetables are essential in the daily food of an individual in furnishing "roughage" or vitaminous products which the human system needs. Diets without vegetables would result in a condition decidedly unfavorable to the good health of the individual. If the athlete wants to put himself in first class trim, he discards heavy dishes such as a continual round of pastries, cakes and the like, specializing largely on vegetables and lighter foods which give the system the right tone and healthfulness.

The poor idopathic and dyspeptic must resort very largely to these products showing their particular value "Greens" of various kinds such as spinach, chard, kale, Chinese cabbage, mustard, and beet greens are valuable for their iron vitaminous giving qualities. If you want a heavier more fat giving type of vegetable, use your navy and lima beans. There is such a wide range of vegetables both fresh canned or dried, that the table can be constantly supplied with that part of the ration that expert physiologists claim as essential to our welfare and best health. Among other things, therefore, plant your garden knowing that the products you grow will add to your table necessary daily foods.

Exercise Sows Before Farrowing

As farrowing time approaches the sow should be in good condition, but not fat. If growth producing feeds have been used during pregnancy and the ration kept bulky by using ground oats, ground alfalfa or skim milk, the sow should be in this shape. Watch her carefully, making her exercise each day. A few days before she is to farrow put her in a pen and let her become accustomed to her surroundings. Include a little wheat bran or linseed oil meal in her ration to prevent costiveness, which is common at this time.

The farrowing pen should be dry and well ventilated. Spread straw on the ground, but not enough to let her build a deep nest. Pieces of 2x4 nailed around the outside of the farrowing pen about 8 inches from the floor and 8 inches from the wall will tend to keep the sow from crushing her pigs against the walls.

After farrowing the sows should receive no feed for from 24 to 36 hours being given only lukewarm water. She should then be fed a small amount of feed for a day or so, and the ration can then be gradually increased. The bulky feeds used during pregnancy are not in order now for the grains secured on the suckling pigs will ever make. Skim milk, tankage, ground oats, middlings and linseed meal are all good to supply bone and muscle-

making material, while corn or barley may be used liberally in combination with any of the above mentioned feeds.

God mothers with large litters will usually lose flesh despite the most liberal feeding.

A Mash Mixture

There are all manner of mixtures recommended for poultry mashes, and no doubt most of them are quite satisfactory. One that has been used successfully is made of two parts of bran and one part each of corn meal, middlings, ground oats and beef scrap. A little linseed oil meal, say, about 5 pounds to 100 pounds of the mash made as above, is a good addition. A mash so made not only contains egg-producing, but feather-producing elements.

mature rapidly, and they are exceedingly useful on most farms.

The farm should feed the farmer's family. Raise a few hogs; hogs help to make farming pay and there is money in it if done right. Carelessness and inattention never got anywhere in the hog business.

The writer of this article lives on a 20-acre farm and keeps four and five brood sows and raises two litters of pigs a year, grows out and markets from 40 to 50 head of hogs a year and finds it quite profitable, and farmers as a rule would make more money if they would market their grain through the hog and thereby keep up the fertility of their farms.

Yours truly,
—Geo. De Bok,
Oregon City, Oregon.

Substitute for Blood

Chopped liver is almost as good an animal feed for poultry as is fresh blood itself. The birds are very fond of it.

The Value of the Hog

Why is pork production popular with all classes of farmers in all the world? There are many reasons, but the greatest of these is the fact that hogs are profitable on every farm. Never do you hear a farmer say that hogs are not profitable. The gigantic importance of the production of pork as a factor in American agriculture is hardly appreciated to the extent which it demands.

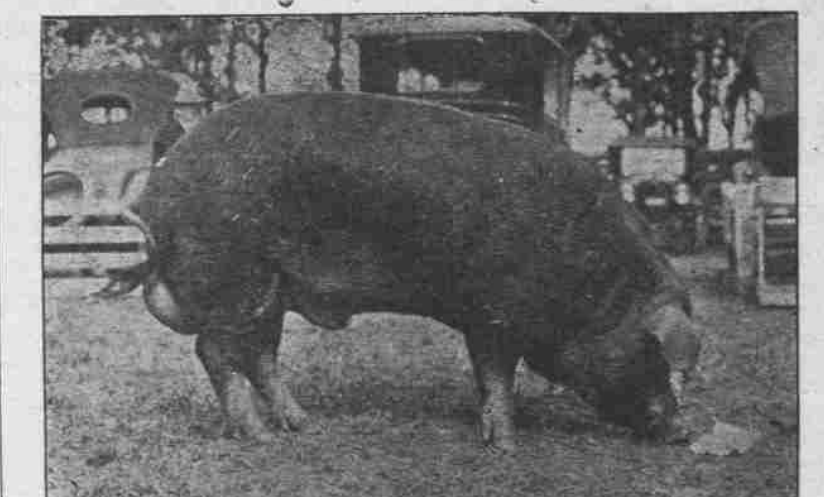
Purebred Duroc Jerseys

The importance and value to our people of the swine grown in the United States compared to other kinds of livestock as shown by figures officially compiled are quite astonishing to those who for the first

Pork finds ready sale because packers have discovered many ways of placing pork on the market in attractive and highly palatable form combined with most excellent keeping qualities. There is no other meat from which so many products are manufactured.

It is said that hogs bring to the coffers of the American farmers more money than any other livestock produced.

The hog is the most important animal to raise for meat and money. He requires less labor, less equipment, less capital, makes greater gains per hundred pounds of concentrates, and reproduces himself faster, and in



time have this brought to their attention. Nearly 50 per cent of the total value in dollars and cents of the meat and meat products slaughtered in the packing houses of the United States is derived from the hog. Three-fourths of the world's international trade in pork and pork products originates in the United States in normal times and the war has greatly increased this proportion. There is no animal which produces more meat and meat products than the hog.

greater numbers than any other domestic animal.

As a consumer of by-products the hog has no rival. No other animal equals the lard hog in its fat storing tendency. The most satisfactory meat for shipping long distances on train, boat or wagon and for long storage after reaching its destination is mess pork.

If properly handled hogs will pay a profit on most any farm because they consume feed which might otherwise be wasted, reproduce abundantly and

Mrs. L. writes:

"I am convinced there is a difference in baking powder. I have been using any old powder for ten years but my cakes are 100 per cent better since I bought a can of Royal Baking Powder. I recommend it to any housewife who thinks she knows all about cake making with any kind of powder."

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The Time to Buy

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Hundreds More in Oregon City in the Same Plight.

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Wearily and worn out night and day;
Back aches; head aches,
Your kidneys are probably weakened.

You should help them at their work. Let one who knows tell you how.

Mrs. Frank Rotter, 1106 Monroe St., Oregon City, says: "My kidneys troubled me for a long time and my back

ached so I couldn't do any washing. To sweep the floor tired me dreadfully and headaches and dizzy spells made me miserable and the action of my kidneys was irregular. I used Doan's Kidney Pills and they soon relieved the backaches and other signs of kidney trouble and I felt much better in every way."

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