



FARM and GARDEN NEWS



College Swine Judged Champs Of Stock Show

A near clean sweep of championships in the market swine division of the recent Pacific International Livestock exposition, North Portland, was made with hogs bred and exhibited by the Oregon State college experiment station.

Barrows from the college's experimental Berkshire herd took five of six championships offered, losing only the light barrow top award, according to the animal husbandry department. Dr. J. E. Oldfield, head of the station swine experimental program, says entering animals in shows similar to Pacific International gives the college an opportunity to measure their results in comparison with top flight breeders.

He says goal of the research effort with swine is to assist Oregon producers, and college intention during the recent show was to exhibit a working type hog that was productive.

Knowledge Gained
Major emphasis thus far in the experimental program has been devoted to gaining knowledge on supplemental effects of various B vitamins including vitamin B-12, minerals and antibiotics on local Oregon feedstuffs.

Results indicate a considerable difference in response to feed produced locally and that from the Midwest. From the nutritional point, work has been directed toward reducing pig losses and toward keeping pigs gaining weight steadily after weaning.

The lone championship missed by the OSC market hog entries went to a Spotted Poland (China). Animals exhibited by the college were shown by Tom Johnson, swine herdsman, and the station was complimented on the quality of its show entries by Guy McReynolds, Lincoln, Neb., the exposition's swine judge.

In addition to Berkshires, the station is now starting work with Yorkshires.

The most common type of windmill today is a steel sail windmill similar to that developed by Perry in 1883.

New Emphasis On Non-Fat Solids In Dairy Foods

The dairy industry is in position today to make an even larger contribution to the national food supply without producing additional milk, says Oscar Hagg, Oregon State college extension milk marketing specialist.

Reason for this is that all of the milk components now being produced are not being used for human food.

Hagg says it has only been within recent years that value has been placed on milk solids which were not fat. Twenty years ago, for example, about half of the available milk solids not fat were used for food. Today, use has climbed to 70 percent.

This means 30 percent of the non-fat solids are not being used as human food. Part of the non-used portion, however, does go to feed livestock and ultimately reaches the consumer as food, but the contribution of skim milk used in this fashion is only a fraction of what it could be if used directly.

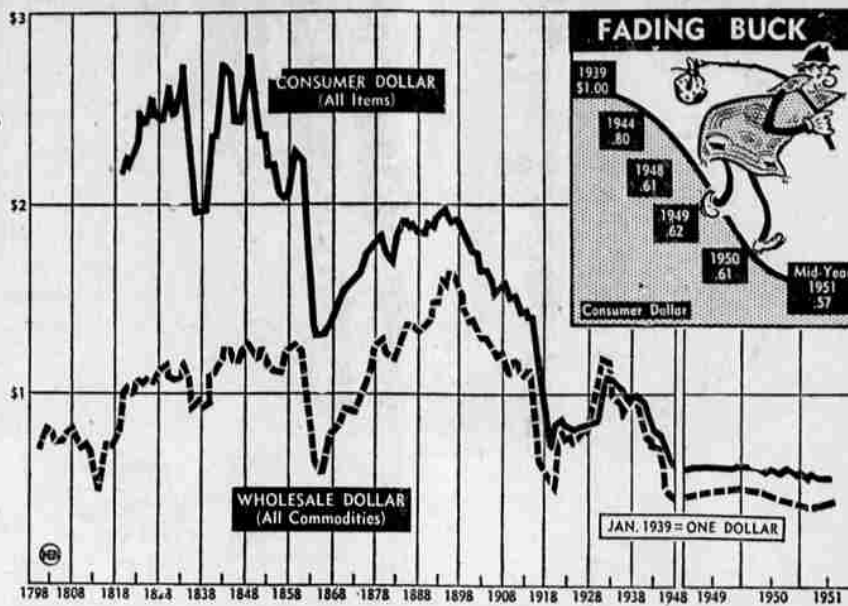
Makes Big Contribution
The specialist says the dairy industry makes a major contribution to the national diet. More than three-fourths of the average calorie intake, nearly one-half of the riboflavin and one-fourth of the protein used per person comes from milk and its products. Dairy products are also an important source of calories, fat, vitamin A and thiamine.

Increased consumption of milk solids not fat in recent years is the result of greater use of all major dairy products with the exception of butter. During the past 25 years, a step-up in fluid milk consumption has added about three pounds to the per capita consumption of solids not fat in milk.

An additional three pounds has been added by increased consumption of manufactured dairy products which contain both fat and solids not fat.

Fluid milk and cream is far and away the largest contributing factor in the consumption of milk solids not fat. Fifty-eight percent of the total is consumed this way. Second-high, percentage-wise, is the use through processed skim-milk products.

Records indicate that windmills existed prior to the 12th century.



Your dollar buys less now than at any time in the last 150 years, as indicated by the Newschart above. Based on data from the Bureau of Labor Statistics and the National Industrial Conference Board, the chart shows how war and postwar inflation have whittled down the purchasing power of both the wholesale and the consumer dollar over the past century and a half. The current outlook is for the buck to continue along the downward path.

OSC Scientists Lick Strawberry Virus Problem

Development of a virus-free Marshall strawberry plant by the Oregon State college experiment station has licked a bothersome plant certification problem.

R. Ralph Clark, extension horticulture specialist who heads the college's strawberry certification program, says presence of latent virus has been the thing that has thrown field inspectors for a loop. Inspectors have gone through fields submitted for certification, for example, and plants have looked clean as whistles.

The new virus-free Marshall is not a new variety, the station emphasizes. It is merely the same old Marshall strawberry stand-by, but it is free of mild or latent viruses. This means growers can plant this new stock in areas isolated from disease with reasonable assurance that unseen viruses won't pop out once the plants are in the ground.

Dr. Selection Work
Dr. Paul Miller, USDA plant pathologist with the experiment station, did the selection work from supposedly virus-clean plants brought in from certified plantings. This new, virus-free Marshall is free of such disease nuisances as yellows and crinkle.

The college has a limited supply of plants which are being distributed to qualified growers, Clark says. With introduction of the virus clean plants, changes are also afoot in the certification program. Indexing by grafting on virus indicator plants in the field will become part of the new program.

Beginning with the 1953 plant harvest, shipping point inspection certificates will also be required. Certification fees are going up, too.

Less Mechanical Damage To Spuds Aim Of Research

Research aimed at reducing mechanical damage to Oregon's late potato crop has been started by the Oregon State college experiment station.

Investigators have begun digging into the problem while working on an earlier project concerning potato packaging procedures. While testing the relative efficiency of packaging potatoes in consumer-size containers, they discovered that large losses were being caused by mechanical damage probably resulting from one or more of the operations performed prior to shipping. Losses in some cases were running as high as 20 to 55 percent of the lot.

The new study has been organized to determine the extent and point of origin of mechanical damage.

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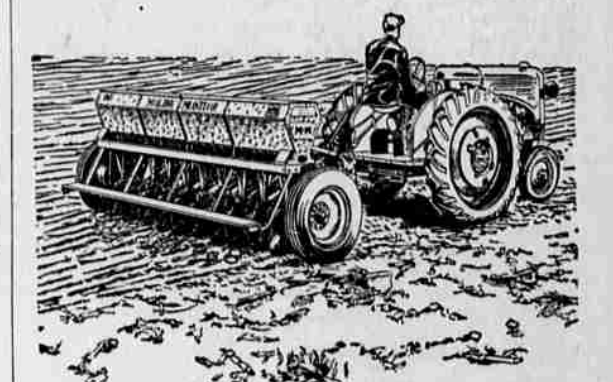
McKenzie Gets Fulbright Appointment To Australia

Dr. Fred F. McKenzie, chairman of the animal husbandry department at Oregon State college, has been notified of his selection to receive a Fulbright research award which will send him to Australia for a year, beginning next March.

A widely-known authority on artificial breeding, Dr. McKenzie will ask for leave from his post at OSC to help organize an animal

science program at New England University college, a recently founded institution at Armidale, New South Wales, Australia.

The pending trip, if approved by the state board of higher education, will be Dr. McKenzie's seventh tour abroad. He has been on three missions to South America, one to Turkey and two to Europe. His most recent trip was in 1947 when he traveled to Italy and The Netherlands for the Food and Agriculture Organization of the United Nations.



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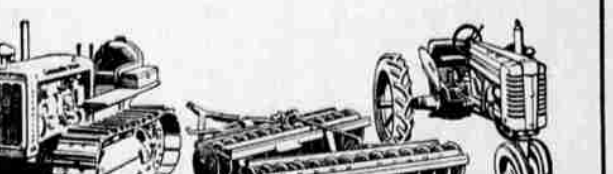
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