



**RETIRE AFTER 40 YEARS**—E. R. Jackman, Oregon agricultural leader, has retired after nearly 40 years with the Oregon State College extension service. Jackman is credited with blazing the trail for many of Oregon's major agricultural advances.

## Agricultural Leader Retires From Service

E. R. Jackman, one of Oregon's foremost agricultural leaders, retired June 30 after nearly 40 years with Oregon State College extension service.

As OSC extension farm crops specialist, Jackman blazed the trail for many of Oregon's major agricultural advances. He personified the "field worker" extension specialist, taking his teachings out to farm meetings and tours, visiting remote farms and crossroads throughout Oregon.

He joined Oregon extension service in 1920 and has been most closely identified with the state's grassland and wheat programs. He helped develop Oregon's multimillion dollar grass seed industry, promoted face-lifting of eastern Oregon's rangelands through sagebrush removal and seeding of grasses and grazing alfalfa, and has been a strong advocate of pasture improvement programs throughout Oregon.

Saturday Evening Post in 1948 recognized Jackman as the "Man With 20,000 Friends."

"The state of Oregon is about 300 miles wide and 400 miles long, yet E. R. Jackman knows it almost as well as most people know their home town," the Post stated.

"Jackman has visited at least half the farms and ranches in Oregon, and there are some 63,000. Friends say he can call about 4,000 Oregonians by name, and he estimates that he knows at least 20,000," said the Post.

He taught common-sense farming practices with a blend of agricultural science, humor, and philosophy and with keen insight for the right crop for the right piece of land and circumstances, college officials noted.

A skillful writer with the human interest touch, he widened his circle of influence with articles in many regional and national magazines. His understanding of Oregon — its people and its resources — underlay all his teachings of new and better ways of farming.

Dr. A. L. Strand, OSC president, says "a man like E. R. Jackman comes along at rare intervals in any organization. Jackman has made an indelible mark on Oregon agriculture. He has lifted it by the strength of his ideas and the sincerity of his purpose to something it could not have been without him."

F. L. Ballard, OSC extension service director, credits much of Jackman's leadership to an unusual ability to keep ahead of the needs of agriculture.

Early in the 1930s, Jackman encouraged trial plantings of crested wheatgrass that was destined to seed millions of U.S. acres in the 1930s during the wheat reduction programs. Oregon was well-established with field demonstration plots of wheatgrass that set the stage for successful plantings throughout the state's wheat belt when the cutbacks came in wheat acres.

In this work, Jackman rose to the very top as a teacher and leader, Ballard says, as he shaped the programs for all county agents of the state in their work

## Home Economist Gives Suggestions For Jam, Jelly Recipe Changes

Sparkling jams and jellies made with Northwest fruits will "turn out" better if popular recipes are revised for local use, suggests an Oregon State College home economist.

Two of the main jelly-making ingredients, pectin and acid, are found in somewhat higher quantities in some Oregon fruits and need to be reduced in many recipes. When local homemakers use recipes written for a national audience, they are often disappointed in their results — firm jams and tough jelly — says Mrs. Ruth Klippstein, extension nutritionist. Before changing any recipes Mrs. Klippstein suggests first making a small "test" batch following the recipe. Then make changes needed. To "localize" a recipe, use about a third less pectin than recommended. For "high acid" berry jams and jellies, added lemon juice or other acid is usually not necessary. Improve berry jellies by substituting apple juice for one half of the berry juice called for in recipes. Highly prized for their "fruity" flavor and color, Oregon fruits are unique and somewhat variable in their acid content, she says.

Successful jellymaking depends on a balance between the three jelly ingredients — pectin, acid and sugar. Fruit naturally contains some pectin, the substance that makes jellies "jelly." Slightly underripe fruit contains more pectin than green fruit or fruit that is overmature, but lacks flavor of fully ripened fruit. Powdered or liquid pectin is added to shorten

the cooking time, and to help "set" jams where fully ripened fruit is used.

Lemon juice or citric acid must be added to low-acid fruits, such as apricots, peaches and plums.

## Another Set Of Triplets In Dairy Herd

Visitors to the Oregon State College dairy barn these days may think they're seeing triplets, for a third set of triplet calves has joined the herd.

Dr. L. R. Jones, professor of dairy husbandry, says he's quite sure the new, little grade Jersey-Guernsey heifers are identical—a rarity happening possibly once in 500,000 births.

The herd already included year-and-a-half old triplet grade Holstein bulls and an older set of triplet milking cows. Jones says it is hard to determine definitely when cattle are identical. However, blood typing is one of the surest ways.

The bulls were blood typed and proved identical. The new heifers haven't been blood typed yet, but Jones says they appear to have all physical characteristics of identical animals. He explained that color markings needn't be exactly the same on identical twins or triplets. But many other characteristics, such as skin pigmentation, hair whorls, nose prints, head and body proportions, must be identical.

Born in California in March, the heifers—named Faith, Hope and Charity—were bought by OSC when they were about two weeks old. They were brought to the attention of Jones by W. D. Pine, county agent in Humboldt county, Cal. Pine is an OSC graduate and a former Tillamook county agent.

The heifer calves are being fed a normal ration, and will be used in milk production experiments after their first calving in about two years. They'll then be placed on different energy intake rations to help determine the economy of different grain feeding levels.

so the pectin can "jell," the home economist advises.

Sugar helps preserve the jelly and adds flavor. Low calorie sweeteners should not be substituted for sugar in most recipes.

To assure perfect preserves, follow recipes closely and avoid pitfalls listed.

Jelly may be "cloudy" if mixture is poured into glasses too slowly, cooled before it was poured, or juice may not have been properly strained of all pulp. If

jelly sets too fast, it may cloud, usually the result of using fruit that is too green.

Soft jelly may be caused by not using enough sugar, too much juice in the mixture, not enough acid, or making too much jelly at a time. Soft jelly can sometimes be made firmer, Mrs. Klippstein says. Measure 1 quart of jelly, add 1 teaspoon of pectin, a cup of water and 1/2 cup sugar. Boil 1/2 minute. Add 2 tablespoons of lemon juice, if more acid is

needed.

Syrupy jelly — too little pectin, acid or sugar. Too much sugar can also cause syrupy jelly.

Jellies that "weep" are usually caused by too much acid, by covering jelly with a thick paraffin layer or a fluctuation in storage temperature.

To help prevent fruit from rising to the top in the finished jam, stir the mixture frequently five minutes after removing from the heat. Fruit absorbs some of the

sugar solution and won't float.

More help on jam and jelly-making is offered in "How to Make Jellies, Jams and Preserves at Home," free on request at county extension offices. The bulletin includes instructions for making table spreads using liquid and powdered pectins and old-fashioned long cooking methods. Directions for popular uncooked spreads that can be stored in the freezer are also given in the bulletin.

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