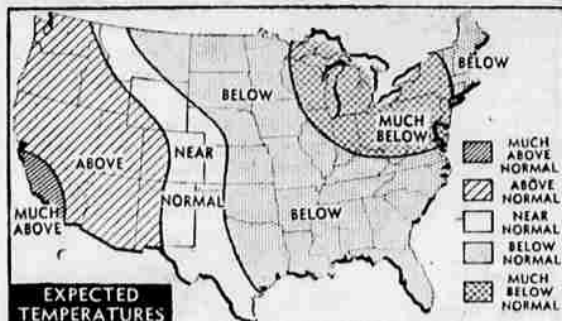
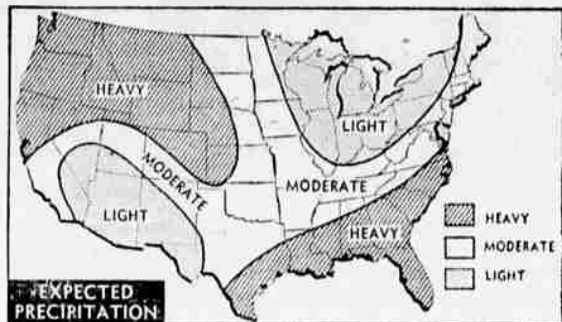


The Weather Picture



TEMPERATURES from now until mid-March are expected to average above normal in this part of the country. This estimate is not a specific forecast in the usual sense, but an estimate of averages for the period.



PRECIPITATION through the middle of March will probably exceed normal averages over the Northwestern quarter of the country as well as along the Gulf and South Atlantic Coasts.

Tree Planting Plans Outlined

Advantages of putting marginal cropland into forest plantings under the Soil Bank program are explained in a new booklet just published by Oregon State College Extension Service in cooperation with the Oregon State Board of Forestry and the U.S. Forest Service.

Copies of the booklet, "Planting Trees Under Conservation Reserve," may be obtained from local county extension offices or the OSC bulletin clerk, Corvallis.

Deadline for putting land under a conservation reserve contract for 1958 is April 15, reminds Charles Ross, OSC farm forestry specialist. Ross co-authored the booklet with Carl Hawkes, U.S. forest service forester.

Included in the 16-page illustrated booklet are case studies of how such plantings are paying off to Oregon farmers, absentee owners, part-time farmers, ranchers wanting wildlife refuge plantings, farmers wishing to retire, and others.

Forest plantings are being recommended by county agricultural planning councils throughout Oregon who see increased long-range returns if marginal croplands are placed back into forest crops for the future, Ross says.

The program pays up to \$30 an acre to help get seedlings planted. In addition, farmers can receive yearly rental payments of \$8 to \$14 an acre, varying by counties.

Scientists Study New Uses For Milk And By-Products

Science is pointing the way to many new uses for milk—a protein "extender" for meats, a main ingredient for high-protein bread, special types of butter, and as a valuable supplement for many types of foods.

Scientists at last week's Oregon Dairy Industries conference at Oregon State College turned the spotlight on half a dozen probable trends that could revolutionize the dairy industry within the next 10 to 15 years.

In addition to new forms of dairy products, the researchers predicted profitable use of present milk wastes for making plastic and livestock feed.

Dr. Michael J. Pallansch of the U.S. Department of Agriculture's utilization research and development division, said such "customized" use of milk is the dairy industry's greatest hope in the highly competitive food market.

He said there is need for a high-speed centrifuge to separate milk into its three major components—protein, fat and carbohydrates—so each could be tailored for use in other foods.

Oil and fat components of butterfat should find many uses in the food industry, Dr. Pallansch explained. Butterfat is composed of many physical forms of fat, all having equal flavor value but wide variations in melting points. Types of butter could range from easy-to-use liquid to butter that stands up under high temperatures.

The lactose or carbohydrates could be used commercially in manufacture of plastics instead of "continuing to dump most of it down the sewer," the researcher explained. He added that the research center is also making progress toward greater utilization of whey and other waste products in livestock feed.

Increased use of powdered milk and concentrated fluid milk was also predicted. Research is developing whole milk powder that can be stored without refrigeration and then be brought up to the original condition for the conservation measure. The contract period is 10 years but may be extended for certain reasons such as inability to obtain enough trees.

Current shortages of forest tree seedlings will be corrected by next fall in Oregon, Ross says, through expansion of the state forest nursery program and private nurseries.

ginal whole milk flavor with addition of water.

Also in the research stage is a sweet condensed cream that keeps well and retains flavor at temperatures up to 70 degrees F. It is a mixture of butterfat, water, nonfat dry milk, and sugar.

Research workers say the cream could be processed in nearly any dairy plant and should find wide use as dessert topping and in making ice cream.

The USDA research center has also developed a method to bake a nutritious high-protein loaf of bread that includes 25 parts of milk, by weight, to 100 parts of flour. Six parts of milk per 100 parts of flour is the common ratio for commercial bread baking.

Other suggestions for marketing the high-quality milk protein included a concentrated powdered form that should find a ready world market now drastically short of protein.

A new method of evaporating milk at low temperature with heat supplied by compressed ammonia, rather than conventional steam or hot water, was explained by George D. Armerding, an Oakland, California, dairy plant representative.

He said the milk is concentrated at less than 100 degrees F., loses practically none of the original flavor, preserves more of the protein, and is cheaper to make. Armerding thinks the method has special advantages for the Pacific Northwest with its low-cost electric power to operate the ammonia compressors.

Even "jet-age" technology came into the picture in the form of a new insulating material for refrigerated milk trucks. The material, a liquid plastic that hardens with addition of chemicals, was developed to strengthen tail sections of jet planes. The liquid mixture finds its way into small crevices before hardening into a porous, strong, adhesive material.

W. J. Thompson, transportation manager for Carnation Company, Los Angeles, says the material has given excellent results as an insulator for milk tank trucks and refrigerated vans. When "activated" by the chemical, the liquid plastic expands into a substance with thousands of small air cells per cubic inch. It not only insulates, but adds strength to the truck body, Thompson stated.

Kitchen Handbook Available To All

"How to shop for a kitchen" is one of the many interesting subjects covered in "The Wood Kitchen Handbook," a 32-page booklet recently published as a service to home owners. The handbook discusses the rise of the "kitchen specialist" and how he can help the purchaser select the cabinets, appliances and accessories best suited for the available space. Also included is a section on kitchen planning. A copy of the handbook may be obtained free by writing the National Institute of Wood Kitchen Cabinets, 75 East Wacker Drive, Chicago 1, Illinois.

USTINOV HONORED

NEW YORK (AP)—Peter Ustinov, author-star of the Broadway hit "Romanoff and Juliet," has been awarded the annual Benjamin Franklin medal of England's Royal Society of Arts. The trophy is presented to individuals who attained early prominence and who have shown promise of future achievement in the arts or commerce. Ustinov is 36.

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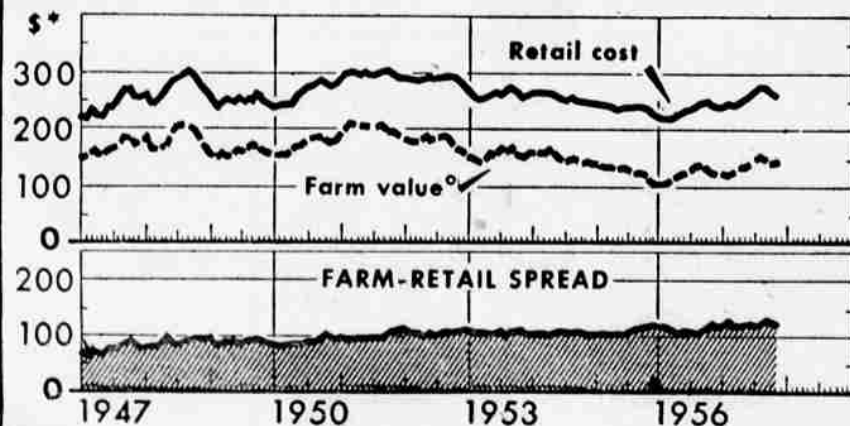
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U. S. DEPARTMENT OF AGRICULTURE

NEG. 4124-58 (1) AGRICULTURAL MARKETING SERVICE

CHARGES FOR MARKETING meat products, as measured by the spread between the farm value and retail cost, rose to a record high early last fall; but it declined later in the year, contrary to the normal seasonal movement. The average in the fourth quarter was only one per cent higher than a year earlier, but the average for the year was eight per cent higher than in 1956.

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