

Off-Flavors In Milk Studied

Extent of off-flavors in dried and canned milk products — caused by substances known as lactones — depend on variables such as season, stage of lactation, fat production, and metabolic disturbances, a dairy scientist at Penn State University stated recently at meetings of the American Dairy Science Association at Cornell University.

Paul S. Dimick, assistant professor of food science, indicated the lactones occur in butterfat of milk. He and his associates have found that these lactones produce an off-flavor, tasting

like coconut. Their long-range experiments are aimed at controlling or removing the compounds producing off-flavors.

Butteroil samples from milk collected weekly from 276 dairy cows indicated a definite seasonal trend, being higher in lactone content during the winter and lower in the summer. When the cows were on pasture, the lactone potential averaged 67 parts per million compared to 96 ppm when the cows were fed at the barn.

Type of feed the animal eats seems to influence greatly the lactone potential, Dimick reported. A 25 percent decrease in lactone potential resulted when a heat-treated corn diet was substituted for the regular grain concentrate.

Dramatic shifts in lactone potential occurred during a complete lactation. Immediately after calving, the concentration was 25 to 30 ppm of lactone in the fat. This increased to about 160 to 170 ppm at 150 days. Lactone potential decreased during the remainder of the lactation period.

Analyses of two groups of animals, one of high-fat yield and another of low-fat yield, indicated the lactone potential was higher from cows producing low fat milk. As another factor, a sharp decrease in lactone concentration occurred when the cows had ketosis.

An estimated 2½ million young people are now engaged in some phase of 4-H work.

Area Milk Order To Be Amended

● McGahen

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ture, seed production, certification, and quality.

For the past four years, McGahen has been a research assistant in the university's agronomy department where he is completing requirements for a doctor of philosophy degree.

A native of Waterford, Erie County, McGahen received both his bachelor and master of science degrees in agronomy from Penn State. He is married to the former Elaine Hesketh, of Erie, and they are the parents of five children.

The U. S. Department of Agriculture recommended amending the Delaware Valley federal milk marketing order, this week. The order, covering mainly the Philadelphia, and Wilmington, metropolitan areas, and most of southern New Jersey, affects most Lancaster County dairymen.

Consumer and Marketing Service officials said the recommended decision is based on a public hearing June 12-13 in Philadelphia.

As recommended, pooling standards for supply plants would be revised to recognize shipments to pool plants in other federal order markets, in figuring pool status. However, a supply plant could not be pooled under the Delaware Valley order in any month when it shipped more milk to plants in another federal order area than to the Delaware Valley market. Through October, 1967, the latter provision would be waived for plants under full regulation since Jan. 1, 1967.

Also, as recommended, milk could be diverted to other federal markets for manufacturing (Class II) purposes, and still be pooled and priced under the Delaware Valley order.

Milk diverted from city plants to nonpool outlets within 125 miles of Philadelphia, would be priced f.o.b. the plant from which it is diverted, rather than at the plant receiving it.

● Grange Contest

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winning granges are located.

Scott said Pennsylvania Granges have ranked high in the community progress competition for a number of years. Current projects, he noted, focus on citizenship and leadership, cultural development, youth activities, safety, health, welfare, religious training, and education.

Competing Pennsylvania Granges must submit final reports to State Grange headquarters, 1604 North Second Street, Box 235, Harrisburg, 17108, by August 1, 1967.

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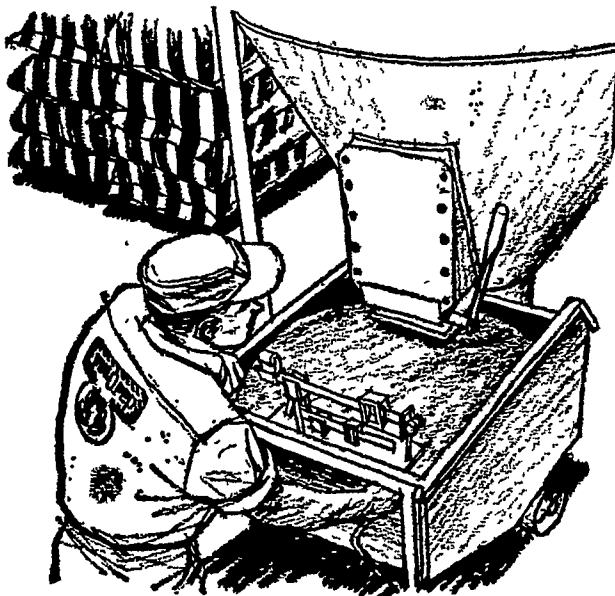
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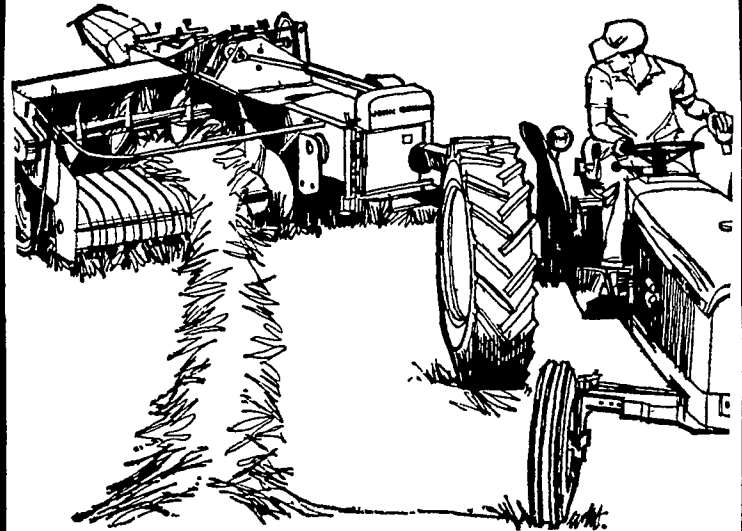
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