

● **Milk Can**

(Continued from Page 16)

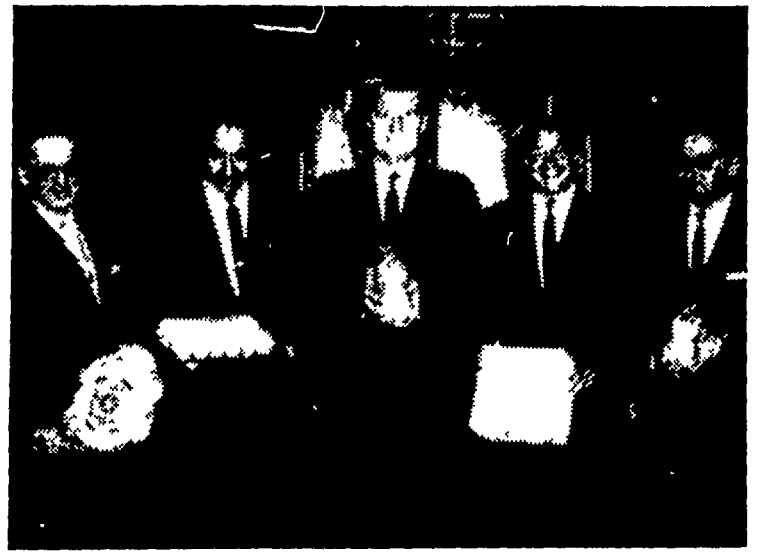
industry, the original purpose of the work did not concern normal dairy operations at all. The

research was part of a continuing ARS program to protect the Nation's milk supply in the event of nuclear attack or accident. Of immediate concern was the

relatively short-lived radioactive nuclide iodine-131. Because iodine-131 has a half-life of 8 days, and virtually disappears within 40 days, the objective of the research was to determine whether milk could be stored long enough to permit the natural decay of this radioactive substance to a harmless level.

In line with this objective, one phase of the experiment consisted of pasteurizing the milk at the ultra-high temperatures and storing it in bulk at 32° F. for 3 to 4 weeks to permit decay of any iodine-131 with which it may have been contaminated. Then it was repasteurized at both high and ultra-high temperatures (175° to 220° F.), packaged, and stored at 32 degrees, 35 degrees, 40 degrees, and 45 degrees F. Most of the samples kept for more than 10 weeks (including the initial bulk storage) and many were still good after 23 weeks when the test supply was exhausted.

The work proved that, under



In keeping with the holiday spirit, Pennsylvania Poultrymen presented Pennsylvania produced eggs, smoked pheasant, and a 16 lb. hen turkey to Governor Raymond P. Shafer. Left to right are: Paul S. Konhaus, Mechanicsburg; Harry R. Ulrich, Harrisburg; Governor Shafer; Dauphin Co. Senator, William Lentz; and Charles R. Phillips, Pillow.

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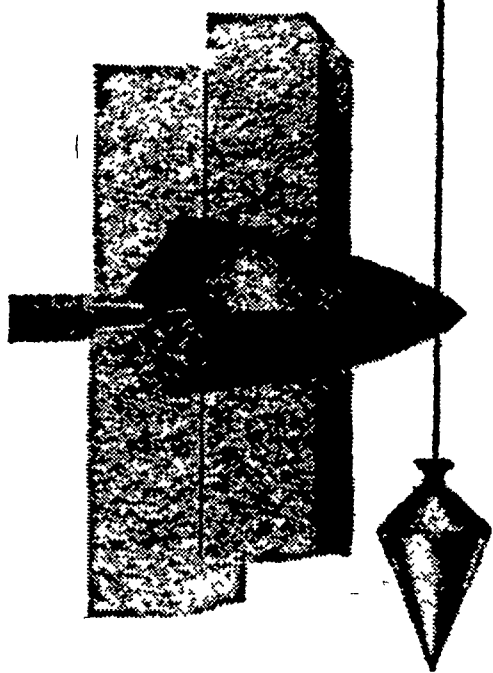
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emergency conditions, milk could be stored long enough to permit decay of iodine-131. From a practical point of view, however, using this method for decontaminating milk would require storage facilities that are not generally available today.

In any event, ARS has developed an ion-exchange method of removing strontium-90 from milk which could also be used to remove iodine-131 (AGR. RES., Sept. 1961, p. 14). Strontium-90, another radioactive nuclide, is of more concern than iodine-131 because it has a half-life of 27 yrs. This work was conducted in cooperation with the Atomic Energy Commission and the Public Health Service.

Of all merchants, wholesale or retail, I think those who sell beverages, especially wine and beer, are the most friendly and polite.

The whole world is pleased when a young man makes a mess out of his life.

HARRISBURG — Pennsylvania's tobacco crop was the lightest in more than 30 years but of excellent quality and color, the State Crop Reporting Service said today.

The Service said the crop of 36 million pounds was the smallest since 1937. The average per acre yield was estimated a 1800 pounds, 50 pounds less than last year.

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COMPENSATOR-50
LIQUID FEED SUPPLEMENT
FOR RUMINANT LIVESTOCK



by **Dr. G. H. Porter**

Director, Animal Nutrition & Health
Agricultural Division
Allied Chemical Corporation
New York, New York

BACKGROUND:

B.S., University of Massachusetts, 1949
M.S., University of Connecticut, 1951
Ph.D., Pennsylvania State University, 1956

University of Massachusetts, Assistant Professor

Beacon Feeds Corporation,
Director, Dairy & Livestock Research

Albers Milling Company,
Director, Nutrition & Technical Sales

Allied Chemical Corporation,
Director, Animal Nutrition & Health

RUMINANT LIQUID SUPPLEMENTS: "Now, for the first time, Northeastern dairymen have the opportunity to take full advantage of the feed cost reduction system provided by the unique combination of non-calcium-bearing ammonium polyphosphate and feed urea in an ideal nutritional environment that assures the ultimate in feed palatability and nutrient digestibility.

The use of supplemental nonprotein nitrogen in dairy feeds for high producing dairy cows has posed some discouraging problems such as ingredient segregation, pelleting difficulties, and feed palatability. Because of these concerns it is not unusual today to note circumstances where Northeastern feed manufacturers have decided to withdraw feed urea from their formulations.

For information contact Agricultural Division, Allied Chemical Corporation, 20 Community Place, Morristown, New Jersey 07960. Phone 201-538-8000, Ext. 6851—Mr. Boyce

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(LIQUID)

LIQUID FEED SUPPLEMENT FOR RUMINANT LIVESTOCK.
GUARANTEED ANALYSIS

CRUDE PROTEIN (minimum)	50.0%
(This includes not more than 4% equivalent crude protein from non-protein Nitrogen)	
CRUDE FAT (minimum)	1.0%
CRUDE FIBER (maximum)	0.1%
CALCIUM (Ca) (minimum)	0.1%
CALCIUM (Ca) (maximum)	1.0%
PHOSPHORUS (P) (minimum)	0.0014%
IODINE (I) (minimum)	2.0%
SALT (NaCl) (minimum)	9.5%
SALT (NaCl) (maximum)	10.5%
VITAMIN A U.S.P. Units/lb.	20,000
VITAMIN D ₃ U.S.P. Units/lb.	40,000

CAUTION USE ONLY IN ACCORDANCE WITH DIRECTIONS FURNISHED

INGREDIENTS

Cane Molasses, Beet Molasses, Hemicellulose Extract, Sodium Sulfate, Ammonium Polyphosphate, Urea, Water, Vitamin A Palmitate, Vitamin D₃ Supplement, Salt, Zinc Sulphate, Cobalt Sulphate, Manganese Sulphate, Ethylene Diamine Diethyleneimine, and Copper Sulphate.

DIRECTIONS: Feed to ruminants at the rate of 1 to 2.5 pounds per animal per day. Compensator 50 may be blended with available ground grains or mixtures of grains and other feed ingredients such as corn, sorghum, grain sorghum, oats, wheat, mill feeds, beet pulp, etc. Mix Compensator 50 at the rate of 5 to 15 percent of the grain mixture. Compensator 50 may be top dressed on silage or other roughages. In preparing silage the animal's total daily intake of Compensator 50 will be between 1 to 2.5 pounds.

(PATENT PENDING)

MANUFACTURED BY

Allied Chemical Corporation

GENERAL OFFICE

NEW YORK, NEW YORK

This is indeed unfortunate!

This denies dairymen the means of reducing feed cost through the use of proper amounts of nonprotein nitrogen in the feeds made available to them.

ARCADIAN COMPENSATOR LIQUID SUPPLEMENTS overcome all of these problems encountered with dry feeds and, at the same time, help lower out of pocket cash costs for purchased compensatory nutrients.

A new era in dairy cattle feeding is upon us.

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