

Vitamin E-Enriched Forages Stabilize Milk Flavor

Dairy cows will produce milk with better flavor stability if they are fed vitamin E-rich forages or supplements, a University of Maryland scientist working under a U S Department of Agriculture research grant reports

Dr Raymond L King, professor of agricultural chemistry at the university, recommended feeding dehydrated alfalfa or ensiled forages, or supplementing dairy rations with tocopheryl acetate (vitamin E) He presented his recommendations to members of the American Dairy Science Association, meeting at Cornell University.

Last year, King established the importance of vitamin E in stabilizing milk against an oxidized flavor that develops after chance contamination with copper Continuing his work under

a research grant from the Agricultural Research Service, King found that it may not be necessary to fortify rations with the vitamin additive if they are prepared under conditions that preserve the vitamin E naturally present

Commercial dehydration of alfalfa results in very little loss of vitamin E, the chemist said. He also pointed out that ensiling forage is conducive to vitamin E retention. Exclusion of light and air and the acidic conditions prevailing during ensiling seem to be responsible for this, he noted. Conversely, field and barn curing of hay markedly reduce the content of this vitamin.

Dr. King pointed out that pasturing is not necessary to produce flavor-stable milk He said vitamin E can be provided by barn-feeding green chopped forage or dehydrated alfalfa pellets He showed data indicating, for example, that five pounds of the pellets a day provide cows with the daily equivalent of one gram of tocopheryl acetate.

Studies conducted by King with his experimental herd indicate that the vitamin E content of crops like alfalfa may be related to plant maturity at time of harvest He is presently exploring the vitamin E content of several forage crops with respect to plant maturity and harvesting conditions

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● Hay Warning

(Continued from Page 1)

State Secretary of Agriculture Leland H. Bull said that hay, straw or grain should not be transported from the following townships in the infested areas: Darlington and Franklin, in Beaver County; Oakland and Marion, Butler County; North Beaver, Pulaski, Union, Mahoning, Little Beaver and Wilmington, Lawrence County; and Hickory, Lackawanna and Wilmington, Mercer County.

The Secretary said purchases should not be made from the states of Indiana, Ohio and Michigan unless accompanied by a certificate indicating that the shipment has been properly treated and fumigated.

County agricultural agents in Pennsylvania adjacent to the Ohio line are being kept advised of the situation so that farmers may be readily informed, according to Henry F. Nixon, director of the department's Bureau of Plant Industry.

Secretary Bull stated that although his department is now taking every precautionary step available, the situation points up the urgent need for the installation of fumigation stations

● Averil Royer

(Continued from Page 1)

will be held on the Penn State University campus June 17-20, 1968

Miss Royer was one of two Lancaster County 4-H'ers who served on the Club Congress Leadership Council last week

According to assistant State 4-H Club leader Jerry H. Reburn, the Council advisors and alternates to next year's Congress were selected from among the 60 delegates on the basis of their leadership and citizenship abilities.

and additional pest control re- its farmers the same protective search. He emphasized the ne- services already provided by cesity for Pennsylvania to offer other states

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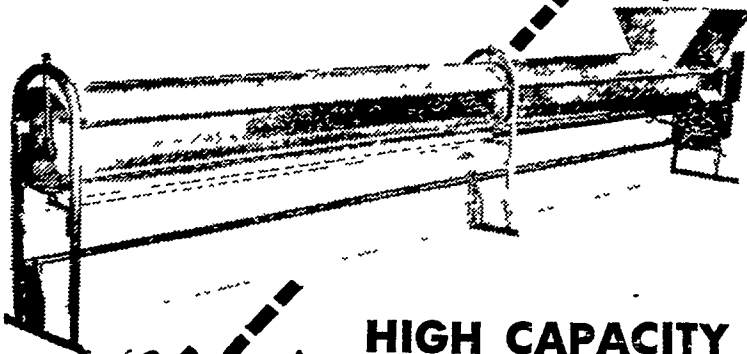
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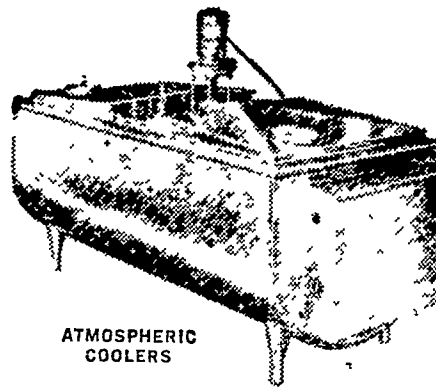
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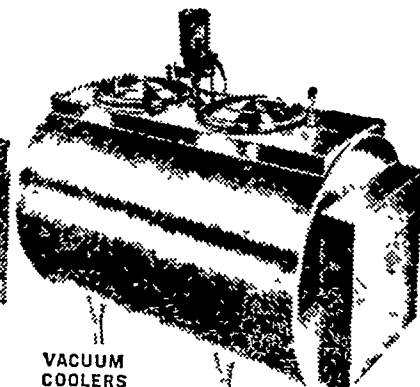
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