



Pennsylvania 4-H Congress Leadership Council advisors, John Morrow of RD 1, Tyrone, left, and Averril Royer of 2025 Oregon Pike, Lancaster, confer on program activities with Leland G. Jinks, State 4-H Club leader during the four-day conference held this week on The

Pennsylvania State University main campus. These outstanding 4-H members were selected to oversee major program activities at Congress which brought together over 1,000 4-H members from all Commonwealth counties.

Milk Proteins Provide Clues About Mastitis

Mastitis infection in cows appears to have a direct effect on cells that secrete milk. A U.S. Department of Agriculture scientist reported recently.

Convincing evidence comes from studies on changes in milk proteins during infection, according to Dr. Charles A. Kiddy, a dairy scientist in USDA's Agricultural Research Service.

Protein composition of milk from infected cows differs from normal, which brings up the question of how closely specific protein changes are tied to a developing case of mastitis.

To find out, Dr. Kiddy infused udders of healthy cows with heat-killed staphylococcus bac-

teria (one of the major agents of mastitis), and checked effect on milk proteins every 3 hours thereafter.

"We found that udder inflammation developed rapidly," Dr.

Kiddy said. "It was accompanied by a decrease in alpha- and beta-casein, and increase in serum albumin, and the appearance of new protein types. Some other proteins, however, remained unaffected."

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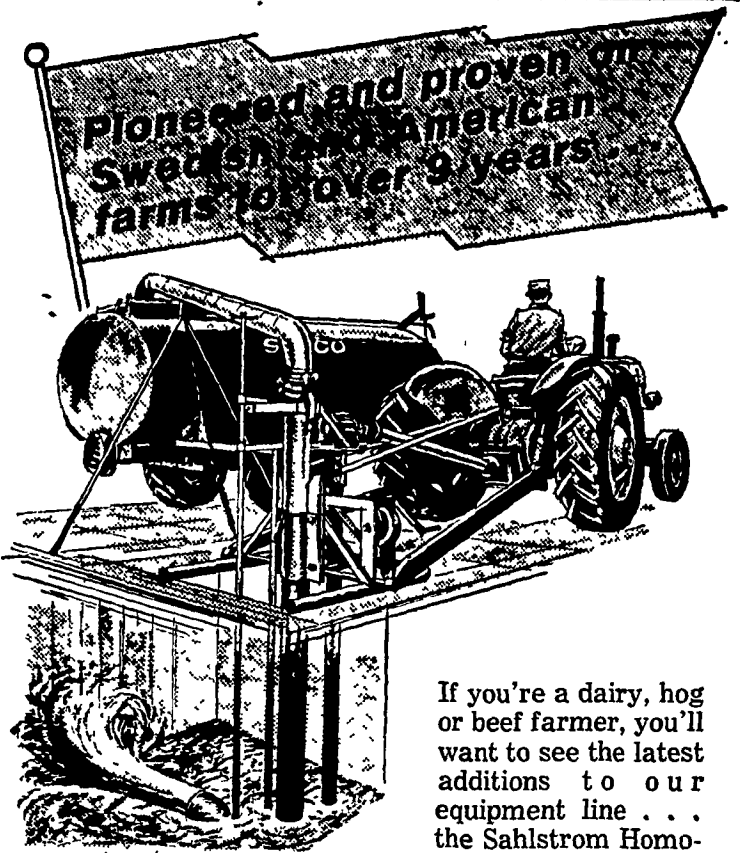
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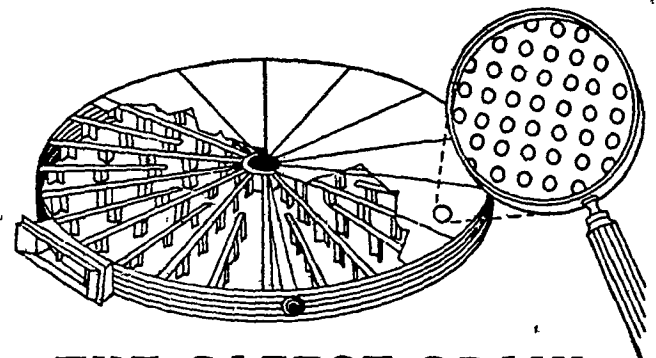


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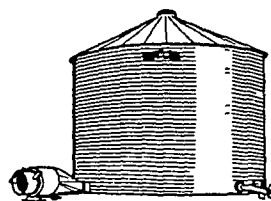
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