Breeding cows for higher protein

UNIVERSITY PARK --Breeding cows for higher protein milk could result in consumers getting better milk and cheese products without paying more, says a dairy scientist at Penn State.

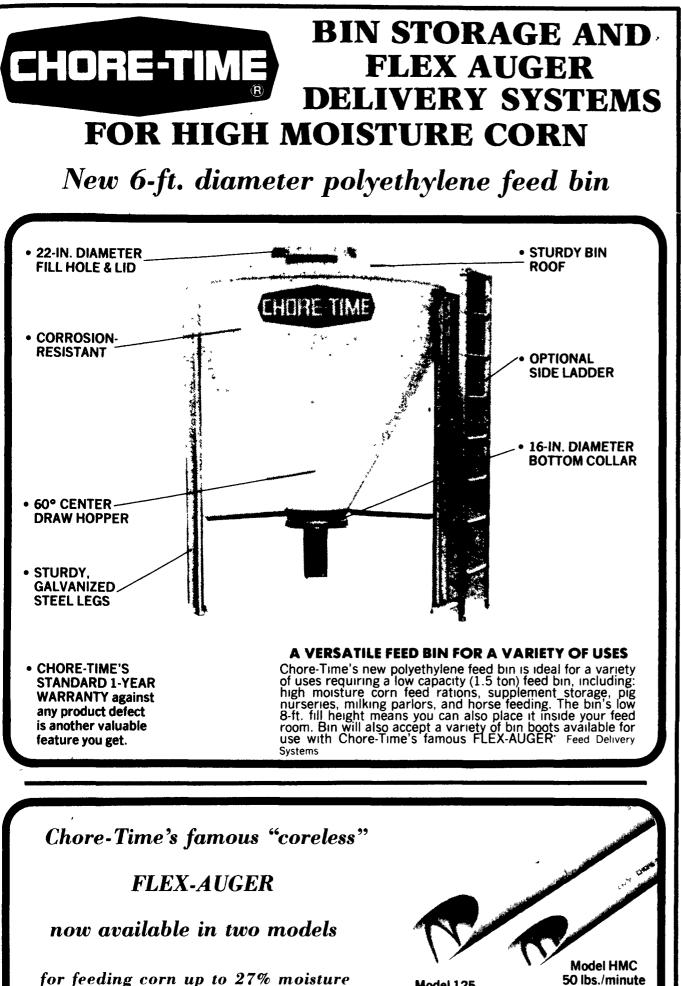
The technique could be economically rewarding to dairy farmers who sell high protein milk, says Dr. George Hargrove, University professor who conducted research in protein breeding.

"Protein content could be the trait of the future, or even now," he says. "So we have to give it some attention.'

Though milk pricing historically has been determined by pounds of milk with a differential for fat

content, Dr. Hargrove says implementing a protein pricing system could benefit the dairy industry.

Fat has a poor reputation among consumers, he says, while "cheese right now is the bright spot in the



50 lbs./minute 190 lbs./minute

Model 125

dairy industry. If the consumer public knew we were paying more for high-protein milk to produce better cheese, the whole system would be perceived more favorably."

For his study, Dr. Hargrove tested about 140 herds for protein content. In addition, dairy farmers from throughout Pennsylvania subscribed to protein testing at their own expense. Milk samples were analyzed for protein content with electronic machines at Penn State's Dairy Herd Improvement Service Center.

Dr. Hargrove says protein content is about 64 percent heritable. In order to breed for high protein, he explains, farmers use the data collected in protein testing to select the cows with highest protein content and then identify sires that will transmit the protein trait to their offspring.

"The principles and procedures of high-protein breeding are the same as in any order breeding," he says. "You need to select superior cows. The part of the process that makes it new is collecting the data.'

Because it takes extra feed to produce high-protein milk, Dr. Hargrove suggests farmers receive more money for their highprotein milk from processors of milk and cheese.

In turn, the processors will be able to make more cheese with the high-protein milk. Because their increased production will represent improved efficiency, the extra price should not be picked up by the consumer, he says.

"If a protein premium were introduced, the person producing milk with higher protein would get more money from the processor. It can be a reward system for those producing the richer milk, but I don't see any real influence on the consumer. The processors will just pay more to farmers who can market high-protein milk."

Dr. Hargrove predicts the dairy industry will see a "creeping effect" of more processors "paying attention to protein in the pricing scheme. We've laid the basis and we're now getting the data to know which cows are good.'

Currently all Pennsylvania cows enrolled with the Dairy Herd Improvement Association are tested for protein in their milk. "I sense an overall increased interest in protein information," he states.

Montana free of brucellosis

WASHINGTON, D.C. or longer.

- All but a small portion of western Montana state is rated free, class has been classified free A, B or C, depending on of cattle brucellosis, a its herd infection rate," U.S. Department of said Hawkins. "A state Agriculture official said may have two areas of today.

'Montana's ap-if it can exercise the plication to be classified necessary controls over as two areas was cattle movements reviewed the approved between the areas." Since Montana has an by USDA and a special committee of the U.S. effective brand law, Health state officials can Animal Association," said Bert control the movements Hawkins, administrator of breeding cattle from of USDA's Animal and the seven-county area Plant Health Inspection that remains class A, Hawkins said. Also, the Service. "Montana is the area is separated by second state to have a mountains from the 48 combination of class A counties that are and free areas. brucellosis-free. "Cattle from free Wyoming is the other state so classified," he areas or states can be moved without said. ''Montana was brucellosis tests if previously a class A identified to source," state -- which means no Hawkins said. "Postmore than 0.25 percent movement tests are of its market-tested recommended for cattle were infected. A shipments crossing free rating means the state lines, however, state has had no known because of possible infection for 12 months exposure en route."

"Normally, a whole classification, however,

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And the system is completely corrosion proof from the feed bin to the nylon coated boot to the special PVCT auger tube FLEX AUGER high moisture corn systems - a new way to cut costs and boost efficiency

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