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## Cows With Cool Heads Have More Production

By Leland Bull  
State Ag. Sec.

In this day of college sit-ins, campus rebellions, gang rumbles and racial unrest it's pleasant news to learn that a scientist is working on methods to keep heads cool

The cool heads in this particular instance are those on cows being studied by the U S Department of Agriculture.

The agricultural engineer conducting the studies, which are being made in cooperation with the University of Missouri, has found that cool-headed cows give more milk

In the tests, cows gave 15 to 20 percent more milk when their necks and heads were held in enclosures cooled to 60 degrees Fahrenheit than when they were housed in an 85-degree barn

"Why not air condition milk barns?" is the logical question to ask in this era when we have air-conditioned restaurants, air-conditioned churches, air-conditioned homes and even air-conditioned automobiles

The answer to that is simple. The installation, operating and maintenance costs would be so high that air-conditioned barns would not be practical.

The main advantage in cooling cows' heads and necks to reduce milk production costs in hot weather is reduced cost. It is obviously less expensive to cool a relatively small enclosure than to air condition an entire barn

In the Missouri Climatic Laboratory at Columbia, Mo the scientist determined the production levels of 10 Holstein cows put in a room cooled to 65 degrees.

He then put the cows' heads and necks in individual air-conditioned enclosures. Temperatures within the enclosures could be varied from that of the room temperature which was 85 degrees

He made these observations. Milk production declined to 75 percent of what it was in the 65-degree environment when a breather air warmed to room temperature of 85 degrees

Milk production was 91 percent when cows breathed air cooled to 60 degrees

When cows breathed air cooled to 50 degrees, milk production was 90 percent

The purpose of the study, according to the USDA, was to determine if milk production could be increased at a time when the population of the United States is increasing and cow numbers decreasing

It is interesting to note that the scientist who performed the tests became interested in a head and neck cooling procedure after learning that "zone" or "snout" cooling had increased hog production

The moral of this column is that it pays to keep a cool head.

**Evaporated Milk  
Origin Traced To  
Napoleonic Era**

Because "an army travels on its stomach," Napoleon offered a prize of 12,000 francs in 1795 to anyone who could find a satisfactory method of preserving food

It was 15 years before an obscure Paris confectioner named Nicholas Appert was awarded the prize. He had discovered that he could keep foods for long periods by cooking them, sealing them air-tight and then cooking them once again

Appert's evaporated milk was a far cry from today's but he had demonstrated the practicality of concentrated milk

Swiss-born dairymen in Illinois perfected the machinery and techniques for processing evaporated milk as we know it. Today it's pasteurized, concentrated, homogenized, fortified with vitamin D, sealed in cans and heat-sterilized to keep without refrigeration

Cooks find it a handy shelf item. Napoleon would have loved it.



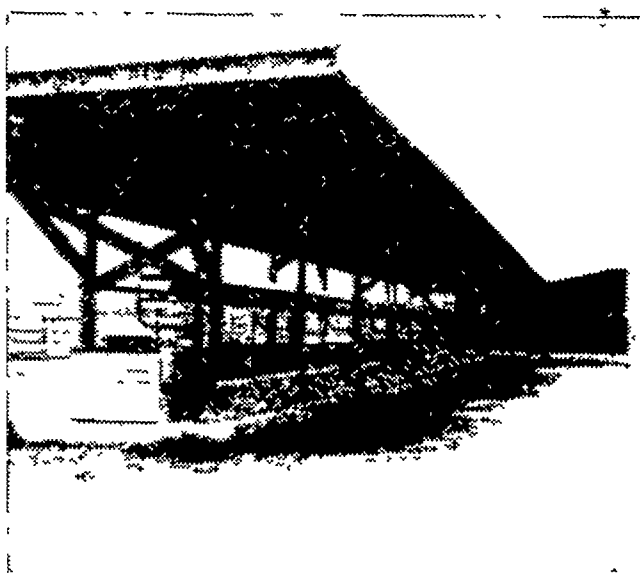
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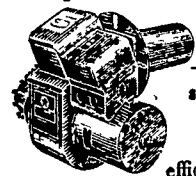
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