

DAIRY CATTLE

Background Information

Dairy cattle were first brought to North America in 1624 to the Plymouth Colony, in what is now Massachusetts. Wisconsin and California lead the United States in milk production. Minnesota ranks sixth in number of milk cows.

Growth and Feeding

After her calf is born, a cow begins producing milk. This is called "freshening." A cow can only freshen after she has given birth to a calf.

The first milk the cow gives is called colostrum, which contains nutrients and antibodies that the calf needs to stay healthy. The calf is weaned immediately after birth and fed the mother's milk with a large nursing bottle.

Cows are milked by machine, usually twice a day, every 12 hours. If they are milked at 3 p.m., they must also be milked at 3 a.m. Cows are milked for 305 days or about 10 months. Then the cow's body needs to rest and store nutrients before she has her next calf. After the calf is born, the cow will resume giving milk.

With new technology available today, a growing number of dairy producers are using robotic milking machines. Yes, robots! Minnesota has about 40 farms (2013 information) using this innovative milking process. Essentially, the cow is trained to enter the robot station and be self-milked by the robot. Each robot can handle about 60 cows per day, with each cow being milked on average 2.5-2.7 times per day. The robotic system provides more time for the farmer to conduct other business, while also improving overall herd health.

The average dairy cow in Minnesota produces 19,700 pounds of milk per year. That's nearly 2,300 gallons of milk. Milk is stored in refrigerated tanks at the dairy farm until

Top 10 Minnesota Counties with Milk Cows in 2013: 1. Stearns 2. Winona 3. Morrison 4. Otter Tail 5. Wabasha 6. Goodhue 7. Stevens 8. Todd 9. Benton 10. Fillmore

Products

- 99% of all U.S. households purchase milk. The average American consumes almost 25 gallons of milk a year... that's 400 glasses.
- Milk and other dairy products provide 72% of the calcium in the United States' food supply plus energy, protein and vitamins. Chocolate milk is made by adding sweetener and chocolate or cocoa to white milk. Cheese, butter, ice cream, yogurt and sour cream are also made from milk.
- A Holstein's spots are like a fingerprint or snowflake. No two cows have exactly the same pattern of spots.

it is picked up by a refrigerated tank truck and taken to a dairy processing plant. There the milk is homogenized, pasteurized and put into containers. Different refrigerated trucks deliver the packaged milk to stores.

Dairy Cattle Nutrition

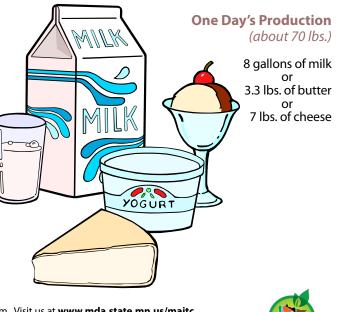
Most heifers are bred to freshen at two years of age. After they give birth, they join the dairy herd and produce milk. The male calves can be sold to feedlots where they are fed until they are taken to market for their meat.

Dairy cattle are ruminant animals with four compartments in their stomachs; their digestive tract is the same as beef cattle. Dairy cows weigh 1,300 to 1,500 pounds and are fed a total mixed ration. This ration has everything a cow needs for a nutritious diet. They eat grains such as ground corn, grain sorghum, oats and soybean meal.

Dairy cows also are fed forages, such as high-quality alfalfa and whole corn plants (silage). A single cow can consume up to 30 lbs. of grain and concentrated feeds and 60 lbs. of hay and silage each day. Water is another important nutrient for dairy cows; every day they need to consume about 35 gallons of water or the equivalent of a full bathtub.

Many dairy producers use computers in their feeding operations. The computer reads the cow's identification and gives her a proper mix of grains, vitamins and minerals. This is determined by her age and how much milk she produces.

Most dairy cattle in the U.S. today are of the Holstein breed, which are large-bodied with a distinctive black-and-white coat. This breed gives a large quantity of milk. The smallerbodied breeds–Guernsey, Jersey and Brown Swiss–give a high-protein milk.





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