Milk: From Farm to Table

Cows create a superfood when they turn plants into nutrient-rich milk



Cows turn plants into milk

Cows have special stomachs with four compartments that allow them to digest plants that humans can't, which they then naturally transform into milk.

The environmental impact of producing a gallon of milk in 2017 required 30% less water, 21% less land and a 19% smaller carbon footprint than it did in 2007.

Milking

Cows need to be milked two or three times a day. Milking machines provides a light suction that pulsates to gently allow the milk to release.

Dairy farmers routinely feed their cows byproducts such as almond hulls, canola meals, citrus pulp and more. These products, which were once thrown away, have nutritional value to cows.

Caring for cows and the environment

You need healthy cows for quality milk, so dairy farmers work 365 days a year making sure their cows are comfortable, with the right food, water, bedding and veterinary care. Farmers often recycle the cow manure and use it as fertilizer for crops.



Cooling & transportation

Milk gets cooled and stored in large tanks, tested for safety and then driven in an insulated tanker truck to the processing plant.

Milking equipment delivers milk directly from the cows to a refrigerated holding tank. The milk is then quickly transported to processing plants for continued freshness and safety.

Processing & packaging

 Coagulated to make cheese • Fermented to make yogurt

The processing plant pasteurizes the milk, heating it to eliminate any harmful bacteria,

Homogenization mixes the fat more evenly within the milk. Homogenization is a simple process that mixes and disperses that milk fat by using a high-pressure procedure to break it down into smaller particles.



then quickly recooling it.

• Fat skimmed off and packaged as **cream** or churned into **butter**

The milk can then make all sorts of dairy products:

• Remaining milk packaged as **skim milk**, or remixed and homogenized to make low-fat and whole milk

 Mixed with lactase to break down the lactose, creating lactose-free milk.

The store & your fridge

The entire process from the farm to your local grocery store only takes about two days, so milk is fresh when it gets to you.

Milk costs around 25 cents per 8-ounce glass with thirteen essential nutrients a nutrional bargain!



