

Department of Agriculture (USDA) regulations that are backed by a federal law known as the Organic Foods Production Act (OFPA). Under this certification program, meat, pork, poultry, and dairy producers must meet organic production requirements that often result in improved animal welfare, enhanced biodiversity, lower greenhouse gas emissions, and healthier soils that sequester more carbon.^{xxi} Organic certification also prohibits added growth hormones, antibiotics, animal byproducts in feed, and genetically engineered feed ingredients. Under organic regulations, ruminants must have free access to pasture during the grazing season, or at minimum 120 days per year.^{xxii,xxiii}

Often building on the foundational standards of organic but many times lacking verification or a consistent definition, regenerative agriculture also takes a more holistic approach to livestock production, crop cultivation, and land management.^{xxiv} For most regenerative practitioners, animal health and wellbeing are key components of this holistic approach. Outdoor access is foundational for raising livestock and farmers are encouraged to incorporate animals into native ecosystems through managed or rotational grazing of ruminants (e.g., cows) on grasslands or incorporating animals (of any species) into forests or tree crops, a practice known as agroforestry or silvopasture.^{xxv,xxvi,xxvii}

Whether organic or verified regenerative, these practices offer alternative frameworks to conventional agriculture, with less impact on the climate and better animal welfare outcomes.^{xxviii,xxix,xxx}

As a retailer that prioritizes the welfare of people, animals, and the planet, PCC sets high standards for the milk products sold in our stores, so that we can provide the most humane and sustainable choices for omnivorous shoppers.

Scope

This is a product-specific standard and applies to all fresh cow and goat milk, plain and flavored, sold in PCC stores.

Standard

1. Products

- 1.1. All fresh milk products sold at PCC under the scope of this standard must come from animals raised in accordance with the animal welfare requirements set forth in section 2.
 - 1.1.1. PCC encourages producers not within the scope of this standard to source milk raised from animals in compliance with the criteria outlined below in section 2.
- 1.2. All fresh milk must be certified organic or come from cows raised on non-GMO verified feed.
- 1.3. PCC does not accept milk from cloned animals or their offspring.
- 1.4. PCC does not sell unpasteurized, raw milk.
- 1.5. Chocolate or flavored milks must also comply with the food ingredient standard.
- 1.6. PCC encourages vendors to pursue third-party certification programs to verify and add credibility to sustainability and animal welfare claims (e.g., organic, non-GMO, and Animal Welfare Approved).
- 1.7. PCC encourages vendors to be honest and transparent regarding the origin of their stock and whether they maintain a closed herd.

2. Animal Welfare

2.1. Habitat & Housing

- 2.1.1. Animals must not be continuously confined to individual crates or stalls that severely limit their movement unless health circumstances require temporary limitation of full mobility.
- 2.1.2. Animal density for indoor housing and outside spaces must allow for expression of natural behaviors, both physical and social.
- 2.1.3. Animals must have access to outdoors and pasture, or land with vegetation for grazing.
- 2.1.4. Shelters and housing must be well ventilated and allow fresh air to enter.
- 2.1.5. Manure should be removed from housing or shelters on a regular basis.
- 2.1.6. Animals must have access to housing or shelter that protects them from weather or climate extremes.
- 2.1.7. Predator protection measures should be in place, utilizing non-lethal predator control methods first.

2.2. Nutrition

- 2.2.1. Feed must not contain genetically engineered ingredients.
- 2.2.2. Feed must not contain animal byproducts.
- 2.2.3. Feed must be distributed in a method that minimizes competition among animals.
- 2.2.4. Animals must have unrestricted access to clean, fresh water at all times.

2.3. Health & Handling

- 2.3.1. No sub-therapeutic or non-therapeutic antibiotics, hormones (e.g., rBGH), or growth promoters may be used in any form to control or prevent disease, or to promote growth or feed efficiency.
- 2.3.2. Animals must receive preventative health care for disease and/or parasites.
- 2.3.3. Ill animals must be provided immediate and necessary care.
- 2.3.4. Electric prods must not be used in routine handling and used only as a last resort in emergency situations where the safety of animals or workers is at risk.
- 2.3.5. The process of milking or moving animals into milking facilities must be done in a manner that causes as little stress as possible.
- 2.3.6. Any physical alterations to animals must be done by a veterinarian or trained professional and employ pain management during and after procedures to minimize stress and pain to animals.
 - 2.3.6.1. Dehorning/disbudding, if necessary, is permitted for goats and cows.
 - 2.3.6.2. PCC recommends employing livestock management practices that eliminate or reduce the need for any physical alterations done to curtail injuries among animals, such as maintaining adequate stocking densities to minimize stress and aggression in animals.

2.4. Offspring & Weaning

- 2.4.1. Separation of young from the cow or doe/nanny goat must be done in such a way that causes as little stress as possible.
- 2.4.2. Calves or kids should be grouped and housed following best practices that ensure animals are kept healthy and properly socialized.
- 2.4.3. Calves or kids must not be continuously confined to individual crates or stalls that severely limit their movement unless health circumstances require temporary limitation of full mobility.

- 2.4.4. Young animals should have access to outdoors and be permitted to graze in season.
- 2.4.5. Calves and kids may be raised with the full herd following a natural weaning schedule.
- 2.4.6. Calves and kids must not be fed milk replacer containing antibiotics, growth promoters, or animal byproducts.
- 2.5. Transportation
 - 2.5.1. Transportation times (including loading time) should not exceed 10 hours.
- 2.6. Mortality
 - 2.6.1. Animals must be rendered unconscious before slaughter in commercial facilities, except where smallholder farms utilize on-farm, humane slaughter practices.
 - 2.6.2. Slaughter facilities must be regularly audited by a third party.

Standard-Specific Glossary

Agroforestry is the intentional integration of trees or shrubs with crop and animal production systems to create environmental, economic, and social benefits.

Animal byproducts include cooking oil from restaurants and food processors, blood and blood products, pork and horse protein, feather meal, manure, and hatchery waste.

Concentrated Animal Feeding Operations (CAFO) can be defined and understood in multiple ways. The regulatory definition from the Environmental Protection Agency (EPA) simply identifies CAFOs as large-scale meat, dairy, and egg facilities (Animal Feeding Operations (AFO)) that raise animals in confinement for at least 45 days per year. However, any AFO that discharges manure or wastewater into a natural or human-made ditch or waterway can be classified as a CAFO, regardless of its size. These facilities are regulated under the Clean Water Act.^{xxxix} Regulatory definitions aside, CAFOs are commonly understood as factory farms that house large numbers of animals in inhumane conditions, relying heavily on antibiotics and growth hormones, and are major sources of air and water pollution. They contribute most significantly to climate change compared to other animal production systems, such as pasture raised animals or regenerative farms that incorporate livestock into land management.^{xxxix}

Does are female goats.

Enteric fermentation is the digestive process in ruminant animals, including cattle, sheep, goats, and bison, which produces methane. The gas is a byproduct of microorganisms breaking down plant material during digestion.

Genetically Engineered (GE)/Genetically Modified Organism (GMO) does not have a standardized definition. (In part, this has created some of the problems for achieving GE transparency and reaching consensus on how best to identify and communicate this with consumers.) Many authorities, however, would define GE food or GMOs as a living organism whose genetic material (otherwise known as DNA) has been artificially manipulated in a laboratory through genetic engineering. Genetic engineering creates combinations of plant, animal, bacteria, and virus genes that do not occur in nature or through traditional crossbreeding methods.

Greenhouse gases (GHG) are those that trap heat in the atmosphere and contribute to climate change. Carbon dioxide (CO₂) is one of the most well-known GHGs, as its emissions are the largest in quantity and it remains in the atmosphere for a long time. Other GHGs include methane (CH₄), nitrous oxide (N₂O), and fluorinated gases (most commonly associated with refrigerants).

Kids are young goats.

National Organic Program (NOP) was established in 2000 under the Organic Foods Production Act of 1990 to regulate the production, processing, and sale of certified organic foods in the United States. The

NOP resides within the USDA and manages organic certification standards, enforcement, and accreditation of independent certifying bodies. The National Organic Standards Board (NOSB), a federal advisory committee, provides recommendations and guidance to the NOP on developing new rules and regulations related to organic certification.

Organic refers to the practices associated with organic food production and processing that prohibit the use of most synthetic inputs and pesticides, along with requiring other environmental and animal-friendly agricultural and food handling practices. Established by the Organic Foods Production Act (a federal law), the [National Organic Program](#) (NOP) within the US Department of Agriculture (USDA) manages the organic certification standards, enforcement, and accreditation of independent certifying bodies. Many other countries also have organic certification programs.

Pasteurized milk is milk that has undergone a physical process that quickly heats and cools it to kill off bacteria that can cause illness, including *salmonella*, *listeria*, and *E. Coli*.

“Pasture raised” does not have a standardized definition but most definitions require that animals spend significant portions of their lives on vegetated, open pasture where they can graze freely. Most of the animals’ diet comes from pastureland but are often given supplemental feed to ensure all of their nutritional needs are met. Some producers limit the definition to “seasonal pasture raised,” depending on climate conditions and the needs of the animals.

Raw milk is milk from any animal that has not been pasteurized to kill bacteria like *E. coli*, *listeria*, and *salmonella*. Even certified organic milk can still contain illness-causing germs and pathogens.

rBGH (recombinant bovine growth hormone), also known as rBST (recombinant bovine somatotropin) is a synthetic growth hormone that increases milk production in dairy cows. Cows treated with rBGH have a number of potential health issues, including lameness, udder infections, and reproductive problems. While evidence isn’t fully conclusive, some research indicates that rBGH could contribute to higher rates of breast cancer among humans. In response to [public health campaigns](#) starting in the early 2000’s, more food manufacturing companies have been reducing or eliminating rBGH milk from their products.

Regenerative agriculture is a holistic land management and farming methodology that focuses on increasing and enhancing soil organic matter to improve nutrient content, water retention, and carbon sequestration. Unless certified by a third party with established regenerative standards, regenerative does not have an agreed upon definition or guarantee associated with the term’s use.

Silvopasture is a type of agroforestry that combines trees with foraging land for livestock production.

Smallholder Farms are defined as independently owned farms whose principal operator(s) owns the farm business and demonstrates a strong commitment to sustainable farm practices and animal welfare. The principal operator is the person who is responsible for the on-site, day-to-day decisions of the farm or ranch business. Any slaughter of animals on smallholder farms must take place on farm property with attention to humane slaughter practices where reasonable given farm size and scale. Gross annual sales of a smallholder farm must fall under \$250,000.

Sub-therapeutic/non-therapeutic refers to a dose or concentration of a drug that is lower than usually prescribed to treat a disease effectively. For example, it can be common practice to add subtherapeutic doses of antibiotics to livestock feed to improve productivity.

Zoonotic diseases are infectious diseases that can be passed between animals and humans through direct contact or contact with contaminated vectors such as food or water. Common zoonotic diseases include the plague, salmonella, West Nile virus, rabies, and zoonotic influenza. Confinement of animals, or even people, increases the risk of spreading infectious diseases and there is growing concern that CAFOs are hotbeds for the spread of zoonotic diseases because of the close quarters, weakened immune systems of animals, excessive use of antibiotics, and improper waste management.^{xxxiii}

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