More than 700,000 beef farmers and ranchers in the United States raise wholesome and nutritious beef. To make use of the diverse resources from their local markets, while at the same time satisfying beef consumer preferences, they may employ varying practices to responsibly raise their cattle.

You may see statements reflecting the different production practices on beef packages. The U.S. Department of Agriculture (USDA) approves these labels for beef based on specific criteria.

**GRAIN-FINISHED**
- Spend the majority of their lives eating grass or forage
- Spend 4-6 months at a feedyard eating a balanced diet of grains, local feed ingredients, like potato hulls or sugar beets, and hay or forage
- May or may not be given U.S. Food and Drug Administration (FDA)-approved antibiotics to treat, prevent or control disease and/or growth-promoting hormones

Most beef is from cattle that are raised this way and the packages likely don’t have a specific label claim.

**GRASS-FINISHED or GRASS-FED**
- Spend their whole lives eating grass or forage
- May also eat grass, forage, hay or silage at a feedyard
- May or may not be given FDA-approved antibiotics to treat, prevent or control disease and/or growth-promoting hormones

**CERTIFIED ORGANIC**
- Never receive any antibiotics or growth-promoting hormones
- May be either grain- or grass-finished, as long as the USDA’s Agriculture Marketing Service (AMS) certifies the feed is 100% organically grown
- May spend time at a feedyard

**NATURALLY RAISED**
- Never receive any antibiotics or growth-promoting hormones
- May be either grain- or grass-finished
- May spend time at a feedyard

**WHAT CATTLE EAT**
Most cattle spend the majority of their lives grazing on pasture, and for grain-finished cattle, less than 11% of their lifetime feed is grain. All grain-finished and some grass-finished cattle spend their last months in a feedyard. Some grass-finished cattle may spend their entire lives on pasture.

**TYPICAL U.S. CATTLE LIFECYCLE**
- **Cow-calf**
  - **Diet**: Grass and/or Other Human-inedible Plants
  - **Duration**: 6 - 10 Months
- **Stocker/background**
  - **Diet**: Mostly Grass, Other Human-inedible Plants
  - **Duration**: 2 - 6 Months
- **Finishing**
  - **Diet**: Grain and/or Other Human-inedible Plants
  - **Duration**: 4 - 6 Mos. Grain (for grain-finished cattle) or 6 - 10 Mos. Grass (for grass-finished cattle)

**IS GRASS-FINISHED MORE SUSTAINABLE?**
Yes and no! Grain-finished beef has a lower carbon footprint since the cattle reach production weight at a younger age. However, grass-finished cattle can contribute to sustainability by using forage from grasslands that sequester carbon.
The only nutritional differences between the various beef choices relate to the fatty acid content and profile of grain-finished beef versus grass-finished beef. Many cuts of both grain-finished and grass-finished beef meet USDA guidelines for lean. In general, grass-finished beef tends to be leaner than grain-finished beef; however, as shown below, with its higher monounsaturated fat content, the fatty acid profile of grain-finished beef may be more conducive to better health outcomes.

- The predominant fatty acids in both are MUFA and saturated fat (SFA).
- MUFA are the same type of fat found in avocado and olive oil.
- Substituting MUFA for cholesterol-raising SFA has been shown to reduce LDL cholesterol and lower the risk of type II diabetes and cardiovascular disease.  
- Recent studies suggest the higher MUFA content of grain-finished beef compared to the fatty acid content and profile of grass-finished beef versus grass-finished beef. 

**NUTRITION FACTS**

**ESSENTIAL NUTRIENTS IN BEEF**

Nutrition experts agree that all beef, consumed in the context of an individual’s total diet, essentially provides the same health benefits. Beef is a natural source of 10 essential nutrients including protein, iron, zinc and many B vitamins.

- Protein helps strengthen, preserve and build muscle.
- Iron helps the body transport and use oxygen to power through the day.
- Zinc helps maintain a healthy immune system and is required for proper growth and body function.
- Vitamins B6, B12, Riboflavin and Niacin support brain function and energy production from food.

**SUSTAINABILITY FACTS**

- Compared to other cattle-producing countries, U.S. beef has one of the lowest carbon footprints in the world, 10 to 50 times lower than some nations. Greenhouse gas (GHG) emissions from cattle account for only 2 percent of U.S. GHG emissions.
- U.S. farmers and ranchers produce 18% of the world’s beef with only 8% or the world’s cattle.
- The U.S. beef industry produces more than three times more high-quality protein for the U.S. food supply than cattle consume.

**References**

1. Rotz et al., 2019. Ag Syst. 169 (Feb.):1-13
2. USDA National Nutrient Database for Standard Reference Legacy Release, April 2018. Available at: [https://ndb.nal.usda.gov/ndb/]
7. 3 CFR § 317.362 - Nutrient content claims for fat, fatty acids, and cholesterol content
11. UN FAOSTAT database. Available at: [http://www.fao.org/economic/ent宁ds/]

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\* According to USDA, a cut of cooked fresh meat is considered “lean” when it contains less than 10 grams of total fat, 4.5 grams or less of saturated fat and less than 95 mg of cholesterol per 100 grams (3½ oz) and per RACC (Reference Amount Customarily Consumed), which is 85 grams (3 oz). The total fatty acids do not equal the total fat value because the fat value may include some non-fatty acid material, such as glycerol, phospholipids and sterols.