

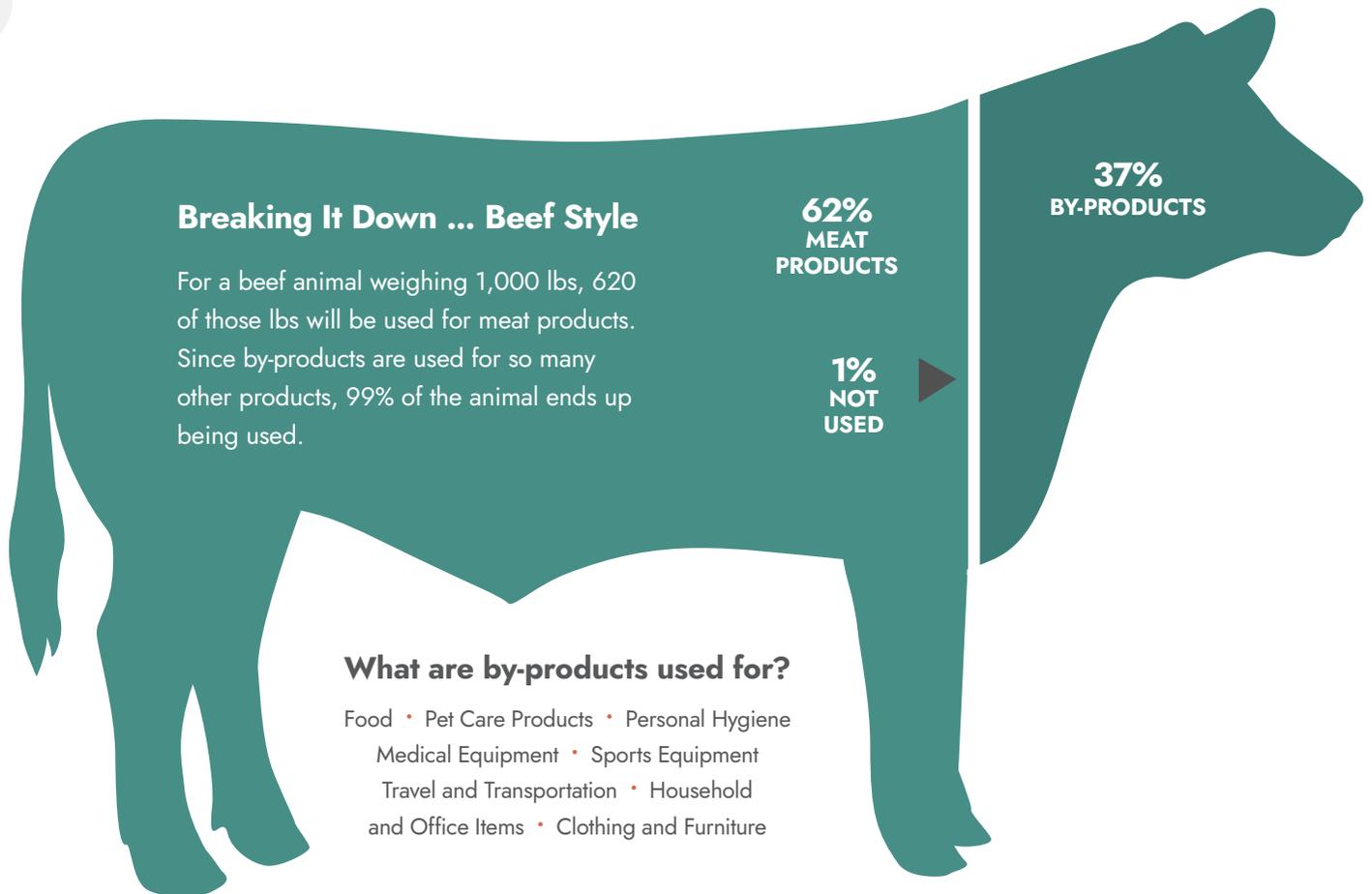
Beefitarian™

# Beef is more than just a delicious meal.

Beef plays a large role in many industries across the globe.

## Suppose you hear the word "beef"...

Do burgers come to mind? Maybe roast or steaks? But what about the rest of the animal? Does it just get thrown away? Nope! We call those pieces of the cattle that are not meant for the butcher case "by-products." There are so many other goods that utilize these by-products, such as leather, soaps, pet treats, and even medical supplies. Almost nothing goes to waste.



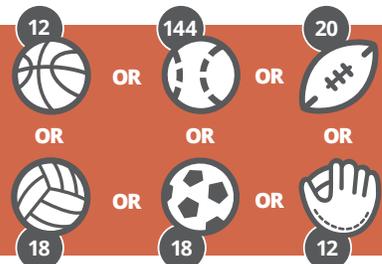
## What are by-products used for?

Food • Pet Care Products • Personal Hygiene  
Medical Equipment • Sports Equipment  
Travel and Transportation • Household  
and Office Items • Clothing and Furniture

Made from the cow hide, leather is a common beef by-product used for clothing, sports equipment, and more.

Did you  
**KNOW?**

From one  
hide you  
can get:



# *What are* **BY-PRODUCTS USED FOR?**

## **FOOD PRODUCTS**

Many food products come from cattle—steaks, roasts, and hamburgers from beef cattle, and milk and butter from dairy cattle. But besides these commonly known items, there are also many other food by-products supplied by cattle.

### **Milk By-Products**

#### **Butter**

All varieties, such as salted or unsalted, whipped, cultured butter, even butter oil or butter powder.

#### **Ice Cream**

In addition to your favorite ice cream, milk is also essential in custard and sherbet. Yum!

#### **Whey**

Whey is the liquid part of milk that remains after the manufacturing of cheese. It can be transformed into a dry product through different techniques. Products ranging from dairy foods and nutritional supplements to processed meats include whey ingredients. Whey serves as an excellent emulsifier, whipping agent, and water-binder. It also aids in gelation, thickening, and browning.

There are two major categories of whey in the United States, sweet whey and acid whey. Sweet whey results from the manufacturing of hard cheeses such as cheddar and mozzarella. Acid whey is produced during cottage cheese and ricotta manufacturing processes and has a higher mineral content.

## *Did you* **KNOW?**



*Gelatin (the key ingredient in Jell-O) is made from the connective tissues of beef animals. When you eat Jell-O, you are actually eating an animal by-product. Gum, fruit snacks, gummy bears, and marshmallows are some of the other common foods containing gelatin.*

### **Cheese**

Cheese is a concentrated dairy food made from milk. Cheese can be used in almost any food product. Different ingredients and processes used during the making and aging of cheese result in a wide variety of cheeses, each with its own distinct texture and flavor. Give me the cheese, please!

Cheeses are categorized in several ways:

- Natural
- Processed
- Unripened
- Ripened
- Soft
- Hard

*There are more than*

**200 VARIETIES**  
of cheese produced  
in the U.S. and over  
**1,400 VARIETIES**  
in the world

# What are BY-PRODUCTS USED FOR?

## PET CARE

This probably comes as no surprise, but your dog food might include chicken, beef, or pork by-products. Many rawhide bones that your pup chews on are made from animal hide as well.



## PERSONAL HYGIENE

Many of your daily grooming products also contain ingredients from beef production. Ingredients such as gelatin, stearic acid, and animal enzymes end up as:

- Nail Polish Remover
- Soaps and Lotions
- Makeup and Lipstick
- Shaving Cream
- Deodorant
- Contact Cleaner



## MEDICAL

Many essential medical items such as ointments for burns, first aid creams, and bandage adhesives may contain animal by-products.

Even more essential, anti-rejection drugs for organ transplants, ligaments for transplant surgeries, and even insulin for diabetes can come from livestock.



## SPORTS EQUIPMENT

**Fun Fact!** Throwing the ole' pigskin around in the backyard? It may not actually come from a pig. Many professional football teams use cowhide footballs.

Volleyballs, baseball gloves, and baseballs also come from animal leather.



## TRAVEL AND TRANSPORTATION

So what about outside of the home? You guessed it! Animal by-products are at work there as well creating essential items such as:

- Antifreeze, Lubricants, Brake Fluid, and Runway Foam
- Car Polishes and Waxes
- Tires and Ball Bearings

Even the highways you drive your car on contain a binding agent made from fat!



## HOUSEHOLD AND OFFICE

Looking around your house for beef products? You may want to check more than the refrigerator.

- Laundry Pre-Treatment
- Bone China Knick-Knacks
- Dish Soaps
- Candles
- Crayons

Certain varieties of all of these items utilize ingredients from animals.



# What are BY-PRODUCTS USED FOR?

## PHARMACEUTICALS

### Pancreas

- Chymotrypsin — *promotes healing of burns and wounds*
- Pancreatin — *aids in digestion of food*
- Glucagon — *treats hypoglycemia or low blood sugar*

### Liver

- Heparin — *anti-coagulant*
- Liver Extract — *treatment of anemia*
- Vitamin B-12 — *prevention of B-complex deficiencies*

### Bone

- Bone Marrow — *treatment of blood disorders*
- Soft Cartilage — *plastic surgery component*
- Bone Meal — *calcium and phosphorous source*

### Pituitary Gland

- Prolactin — *promotes lactation*
- Pressor Hormone — *regulates blood pressure*
- Vasopressin — *controls intestinal and renal functions*
- ACTH — *treatment of arthritis and allergies*

### Blood

- Blood Factors — *for treating hemophilia, killing viruses*
- Iron — *treatment of anemia*
- Thrombin — *coagulant which helps blood clot*

## The uses for beef by-products are endless! Here are even more.

### Intestines

- Instrument strings
- Tennis racquet strings

### Gelatin from Bones

- Emery boards
- Glue
- Photographic film

### Hooves and Horns

- Piano keys

### Fats and Fatty Acids

- Cellophane
- Ceramic
- Detergent
- Floor wax
- Insecticide
- Insulation
- Linoleum
- Livestock feed
- Mouthwash
- Paint
- Paper
- Perfume
- Plastic
- Shoe polish
- Synthetic rubber
- Toothpaste

### Fatty Acid-base from Fats

- Chewing gum

### Hair

- Artists' paintbrushes
- Felt for weather stripping

### Hide (Leather & Suede)

- Belts
- Gloves
- Jackets
- Luggage
- Office chairs
- Purses
- Shoes
- Upholstery
- Wallets
- Watch bands

### Gelatin from Bones

- Jelly
- Marshmallows
- Soft-shell medicine capsules

### Plasma Protein from Blood

- Cake mixes
- Deep-fry batters
- Imitation seafood
- Pasta