**Beef By-products List**

**Inedible By-products**

- **Intestines**
  - tennis racquet strings
  - instrument strings

- **Fats and Fatty Acids**
  - cosmetics
  - detergents
  - cellophane
  - floor wax
  - deodorants
  - pet foods
  - livestock feeds
  - candles
  - insecticides
  - crayons
  - soap
  - shaving cream
  - perfumes
  - brake fluid
  - antifreeze
  - plastics
  - trees
  - linoleum
  - shoe polish
  - paint
  - ceramics

- **Gelatin from Bones**
  - glue
  - emery boards
  - adhesive bandages

- **Hooves and Horns**
  - piano keys
  - pet chews

- **Hair**
  - artists’ paintbrushes
  - felt for weather stripping

**Edible By-products**

- **Hide (leather and suede)**
  - upholstery
  - luggage
  - clothing
  - gloves
  - wallets
  - purses
  - boots and shoes
  - basketballs
  - baseball mitts

- **Gelatin from Bones**
  - jello
  - yogurt
  - jelly
  - marshmallows
  - gummy candies
  - soft-shell medicine capsules
  - mayonnaise

- **Plasma Protein from Blood**
  - cake mixes
  - deep-fry batters
  - pasta
  - imitation seafood

- **Fatty Acid-base from Fats**
  - chewing gum

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