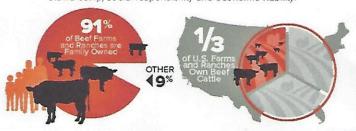


# BEEF SUSTAINABILITY FACTS

### WHAT'S SUSTAINABILITY?

Producing safe, nutritious beef while balancing environmental stewardship, social responsibility and economic viability.



# Typical U.S. Cattle Lifecycle

#### Cow-calf Grass

Other Humaninedible Plants

## Stocker/backgrounder

Mostly Grass Other Human-inedible Plants

#### Finishing

Grain Other Humaninedible Plants





# Same Beef, Fewer Cattle

Compared to 1977, today's beef farmers and ranchers produce the same amount of beef with 33% fewer cattle.



#### How'd they do it?

Better Animal Health & Welfare

Better Animal Nutrition Better Animal Genetics

### More with Less

U.S. farmers and ranchers produce 18% of the world's beef with only 8% of the world's cattle

#### The Stomach for the Job

A cow's stomach can be Cattle have 4 stomach compartments. 40 to 50 gallons in volume and the largest is the rumen. which is why cattle are referred to as ruminant RUMEN animals.

It is naturally filled with trillions of microbes that can break down human-inedible plants.

### Fewer Cattle, Less Emissions

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 only account

for 2% of U.S. GHG emissions.



LANDFILL TRANSPORTATION ELECTRICITY



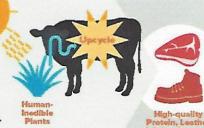
OTHER

grain.

40.9%

### Cattle Upcycling Super-power

The rumen microbes give cattle their upcycling super-power cattle upgrade plants of little to no nutritional value to people to high-quality protein, micronutrients, and other important products.



# Going Against the Grain

90% FORAGE & PLANT

Corn Fed to Cattle = 2% of U.S. cropland acres

0.3% of total U.S. land area



10% GRAIN

Whether grass- or grain-finished, most of what cattle eat in their life is grass, and less than 10% of the lifetime feed finished cattle is

# Sustainability is Bigger Than Carbon Footprints

Relative differences in carbon footprints between animal vs. plant foods don't add up to significant GHG- emissions differences at the national level. --

For example, what would be the consequences if every American went vegan?

recognizing tradeoffs.

U.S. GHG

Insufficient nutrients to feed the U.S. population





Increased

Beef is a Nutrient-rich Food

One 3-curice cooked serving of a composite, trimmed, retail beef cut contributes less than 10% of calcries to a 2000-calcrie diet, yet it supplies more than 10% of the Daily Value for 10 essential nutrients including protein, iron, zinc and many 8 vitamins.

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