

# The Whole Bean

With unmatched versatility, U.S. Soy is helping feed and fuel the world.


From food to animal feed to renewable fuel and more, the potential for U.S. Soy continues to grow. Can U.S. Soy meet that growing demand? The answer is yes – and then some.

## A More Versatile Bean

The protein and oil in every soybean powers our planet and the people on it in many ways. While U.S. Soy is critical to the global food economy, there's enough supply to make renewable biofuels more accessible and provide more sustainable alternatives for hundreds of products. U.S. Soy often enhances the most unexpected things – from personal care products, textiles and shoes to greener alternatives for tires, plastics, paint and more.

## Meeting Growing Demand

With each soybean harvest, U.S. farmers and our partners deliver reliable supply and scale production capacity to match growing demand. Here's how:

 **We're continuously improving seed technology.** Seed technology enhancements can provide more value in every soybean to solve challenges, enhance nutrition, rely on fewer resources to grow and meet demand across markets.

## Using the Whole Bean

When soybeans are processed, 20% of the bean goes toward oil, which can be further refined into cooking oil or renewable fuel. The remaining 80% of the bean is meal, or protein, available to nourish people and animals.

**20%**  
oil for food, household and industrial products

### Soy Oils



Cooking Oil, Cosmetics, Fabrics, Plastics, Rubber, Asphalt, Artificial Turf, Biodiesel, Mulch, Paint and More



**80%**  
meal/protein for people and animals

### Soy Meal/Protein



Feed (Dairy, Poultry, Pork and Fish), Edamame, Hi-Fiber Flour, Miso, Natto, Soy milk, Tempeh, Tofu and More

## The Power of a Single Harvest

In 2022\*, the U.S. soybean yield per acre was ...

**50**  
bushels

That's equal to  
**3,000 lbs.**  
of soybeans

Once crushed, those soybeans could produce  
**570 lbs.**  
of soybean oil

**2,350 lbs.**  
of protein

\*according to the USDA

That's enough oil and protein to produce all of the following:

**50 gallons**

of renewable diesel fuel



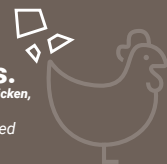
Enough diesel fuel for the average semitruck to travel from NYC to Pittsburgh

**2 years**

of average person's vegetable oil consumption

Feed to provide **800 lbs.** of boneless chicken,

enough to feed 10 people chicken for a year



✔ **We're growing more soy every year.**  
Over the past 40 years, U.S. soybean production has more than doubled with fewer acres available for farmland. U.S. soybean yields are predicted to continue growing by more than half a bushel per acre per year.

✔ **We're increasing our ability to process more soybean oil.** Soy processors – responsible for separating soybean protein and oil components – intend to increase their capacity for soybean oil processing to support an additional 700 million bushels per year, which would increase the supply of oil for both food and fuel needs.

✔ **We're innovating now and into the future.**  
U.S. Soy farmers constantly innovate and collaborate with industry partners, researchers and academic institutions to drive the growth needed to meet food and fuel demands – from more sustainable production methods, to research on creating a soybean that can withstand drought, to continuous ideation on soy-based products with lower carbon footprints.

### Reducing Environmental Impact

U.S. Soy is meeting growing demand sustainably. Today, we grow more soy with less impact than ever before. In fact, U.S. Soy's carbon footprint is the lowest in the world when factoring in cultivation impact and land-use change.

Since 1980, U.S. Soy farmers have improved production by 130% while using land, water and energy more efficiently. Per bushel, farmers have improved:



**60%**

**irrigation water  
use efficiency**



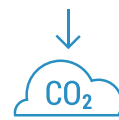
**48%**

**land use  
efficiency**



**46%**

**energy use  
efficiency**



**43%**

**greenhouse  
gas emissions  
efficiency**

**To learn more** about how U.S. Soy is helping feed and fuel the world, go to [wholebean.ussoy.org](http://wholebean.ussoy.org)

