

FUELING THE BIODIESEL INDUSTRY

U.S. SOYBEAN GROWERS ARE PROUD TO HELP PRODUCE A RENEWABLE FUEL SOLUTION: BIODIESEL



SOYBEANS ARE A KEY INGREDIENT IN BIODIESEL, WHICH BENEFITS RURAL COMMUNITIES AND URBAN AREAS ALIKE – INCLUDING REDUCING GREENHOUSE GAS EMISSIONS WHILE POWERING VEHICLES AND EQUIPMENT.

WHAT IS BIODIESEL?



A **clean burning** alternative fuel produced from domestic, renewable resources – primarily soybean oil, recycled cooking oil, and animal fats



Simple to use, biodegradable, nontoxic, and essentially free of sulfur and aromatics



An **environmentally friendly** fuel when measuring its carbon footprint, life cycle and energy balance

Every gallon of biodiesel produced in the U.S. displaces an equivalent amount of petroleum diesel fuel

According to EPA, biodiesel reduces lifecycle carbon dioxide emissions by as much as 86% compared to petroleum diesel fuel and creates 5.4 units of energy for every energy unit required to produce the fuel

HOW SOYBEANS FUEL BIODIESEL

- In recent years, at least **50% of U.S. biodiesel** has been produced from soybean oil.
- Soybean farmers have played a major role in the U.S. biodiesel industry.
 - We helped **build the industry** by supporting policy to secure and grow production.
 - We **sustain the industry** with a reliable supply of soybean oil.
- Soybeans consist of 80% meal and 20% oil. Biodiesel is produced from the soy oil, which means the meal can continue to be used for animal protein and the oil can be used for alternative fuel; less of the bean is wasted, and no additional land is needed for biodiesel production.
- Bonus: Much of the soybean oil is from repurposed cooking oil from the foodservice industry that otherwise would have been discarded – an ideal way to use the whole bean.



SOYBEAN AND BIODIESEL BENEFITS



BIODIESEL

ONLY ALTERNATIVE FUEL TO
**FULLY MEET
TESTING
REQUIREMENTS**
OF THE CLEAN AIR ACT

LOWERS PARTICULATE
MATTER BY
47%
WHEN COMPARED TO
PETROLEUM-BASED DIESEL FUEL

**REDUCES
SMOG**
AND MAKES OUR AIR
HEALTHIER TO BREATHE

REDUCES HYDROCARBON
EMISSIONS BY
67%

PRODUCTION
**REDUCES
WASTE WATER**
BY 79% AND HAZARDOUS WASTE BY 96%

IS NONTOXIC AND
BIODEGRADABLE



SETTING THE TONE

SOYBEAN FARMERS USE BIODIESEL IN THEIR OWN FARM
EQUIPMENT TO REDUCE ON-FARM EMISSIONS



MAKING THE SWITCH

MORE AND MORE U.S. CITIES ARE SWITCHING THEIR
DIESEL FLEETS TO BIODIESEL, INCLUDING WASHINGTON, D.C.,
NEW ORLEANS, AND NEW YORK

FOOD, FEED, AND FUEL

BIODIESEL ENHANCES THE WORLD'S PROTEIN SUPPLY

- Soybeans are the most efficient way to grow protein for the food supply. However, when we grow protein to feed the world, we get more soybean oil than we can possibly consume as food or livestock feed.
- Biodiesel uses only the oil portion of the soybean, leaving the protein intact to nourish livestock and people.
- Optimizing the uses for soybeans provides benefits for farmers and consumers, rural and urban America, and global customers.