

LET'S CLEAR THE AIR

UNDERSTANDING THE BENEFITS OF ETHANOL BLENDS

MYTH: ETHANOL HURTS YOUR CAR.

FACT: ADDING MORE ETHANOL ACTUALLY MAKES FUEL CLEANER.



There is no such thing as pure gasoline. Gas is made up of more than 400+ chemicals that vary depending on where it's made. And unless you are seeking out and paying more for gasoline with no ethanol, everything else you use has 10% ethanol in it.

► **Ethanol will help clean older engines when gasoline deposits build up over time.**

The stuff that does build up in your engine is from another fuel additive called aromatics. Aromatics are toxic and made up of chemicals like benzene and toluene that can damage seals and gaskets and gum up engines.

MYTH: MORE ETHANOL IN YOUR GAS HURTS MILEAGE.

FACT: ADDING MORE ETHANOL IMPROVES PERFORMANCE & MILEAGE.



With Ethanol blends such as E15, which is 15% ethanol, E20 and E30, your vehicle is able to take advantage of the increased octane, improving performance and mileage.

► **Ethanol blends costs less than regular gasoline.**

The fuel where you will lose mileage is with E85, or up to 85% ethanol. For this fuel you need a flex fuel vehicle, which often has a yellow gas cap.

MYTH: WE SHOULDN'T USE CORN FOR FUEL WHILE PEOPLE ARE STARVING.

FACT: ETHANOL MAKES A FOOD AND FUEL.



The food vs fuel controversy has not only been debunked, but it was created by Big Oil to make ethanol a bad guy. The corn used for ethanol is *not* the same corn that we're eating in grandma's corn casserole. It is processed so the starch and sugar from each kernel are used for ethanol while the protein and fiber are turned into an animal feed known as distiller's grain. It's truly a food and fuel.

MYTH: CORN HURTS THE CLIMATE & ETHANOL MAKES EMISSIONS WORSE.

FACT: AIR QUALITY IS IMPROVED BY CORN PRODUCTION & ETHANOL.



When ethanol is added to gasoline, it reduces tailpipe emissions. This is because ethanol replaces the most toxic parts of gas known as aromatics. Plus corn is one of the best crops for reducing greenhouse gases. Corn production coupled with ethanol's ability to reduce tailpipe emissions, means farmers are helping improve the climate and air quality.

► **Producing corn reduces GHG emissions 39% compared to gasoline production - that means 2.2 gallons of ethanol to one gallon of gasoline.**

MYTH: ETHANOL IS TRYING TO REPLACE OIL & GAS.

FACT: ETHANOL IS AN ADDITIVE TO GAS TO BOOST OCTANE.



Currently ethanol makes up 10% of fuel and some gas stations are selling blends with 15-30%. At these levels, cars on the road today will typically not see any mileage loss with ethanol and tailpipe emissions are reduced.

► **Kansas is only one of a handful of states that has oil rigs in corn fields.** The two are important to the economy and by working together as liquid fuels, consumers benefit.

MYTH: ETHANOL RUINED MY LAWNMOWER.

FACT: IT'S NOT THE ETHANOL THAT IS HURTING YOUR LAWNMOWER.



Issues with lawnmowers are usually because of a lack of preventative maintenance at the end of the year, along with low quality equipment that isn't manufactured to last. When gas sits in the tank over the winter, it can often turn bad by the time you start up again the next year. This isn't the ethanol's fault, ethanol can actually help clean engines.

MYTH: ETHANOL ONLY EXISTS THANKS TO GOVERNMENT SUPPORT.

FACT: ETHANOL RECEIVES NO FINANCIAL GOVERNMENT SUBSIDIES.



The subsidies it did receive expired in 2011. However, the government does spend close to **\$20 BILLION a year on subsidies for the oil and gas industry.** There are a lot of regulations in place that prevent ethanol from competing freely with oil. We would prefer to give consumers access to ethanol blends and let the market decide.

► **Ethanol blends are:**

- **more affordable**
- **better for the environment**
- **better for your engine**