

# What can you get for \$100?

# Comparing the economics of ethanol and oil



**\$100 in corn...**

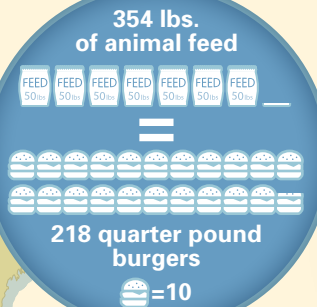


**21.5 bushels of corn**

**= 60.1 gallons of ethanol**

That's enough energy to drive 913 miles in a passenger vehicle

Starting from New York, N.Y., traveling 913 miles will get you just north of Jacksonville, Fla.



11.8 lbs. of corn distillers oil



1.7 gallons of biodiesel

343 lbs. of CO<sub>2</sub>

CO<sub>2</sub>

= 91,492 cans of soda  
= 10,000



**\$100 in oil...**

**0.94 barrels of oil**  
**= 18.3 gallons of gasoline**



That's enough energy to drive 403 miles in a passenger vehicle

Starting from New York, N.Y., traveling 403 miles will get you just north of the Va.-N.C. state line.

9.1 gallons of diesel/distillate



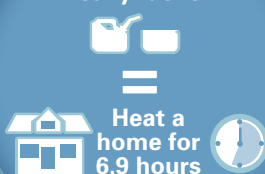
= 54 miles in a semi-trailer truck

3.7 gallons of jet fuel



= 2 miles in a commercial jet airliner

1.7 gallons of heavy fuel oil



= Heat a home for 6.9 hours

6.7 gallons of other products



Petroleum coke, waxes, lubricants, etc.

Calculations are based on September 2013 averaged prices for corn and oil

Mileage calculation based on BTU equivalency.  
Assumptions: 1 gal. of ethanol = 77,600 BTU  
1 gal of gasoline = 112,500 BTU  
5,114 BTU required to travel one mile

Sources/assumptions: 1 bushel of corn = 2.8 gals. ethanol, 16.5 lbs. distillers grains; animal feed, 0.55 lbs. corn oil, and 16 lbs. CO<sub>2</sub>; 1 gal. of ethanol = 15.2 miles (69% the miles driven on equivalent amount of gasoline); 6.5 lbs. distillers grains = 1 lb. beef; 7.1 lbs. corn distillers oil = 1 gal. biodiesel; 1 can soda = 1.7 grams CO<sub>2</sub>

Mileage calculation based on BTU equivalency.

Assumptions: 1 gal. gasoline = 22 miles driven; 1 gal. diesel = 6 miles driven for semi; 1 gal. jet fuel = .54 miles flown; heavy fuel oil = 3 gals/day to heat avg. residence

Sources/assumptions: 1 barrel crude oil yields (EIA):

19.5 gals. gasoline; 9.7 gals. diesel/distillate; 4 gals. jet fuel; 1.8 gals. heavy fuel oil; 7.1 gals. other products