

### 2016 UPDATE

# E15: Expanding Fuel Options

For four years, E15 has been providing consumers higher octane for a lower price. E15 goes further to reduce U.S. oil dependence and cut carbon emissions.



#### **Approved**

E15 is approved by the U.S. Environmental Protection Agency (EPA) for use in all light duty vehicles built since 2001. This accounts for about 85% of today's automotive fleet.



#### **Endorsed**

Manufacturers of more than 70% of the new vehicles sold in 2016 list E15 as an approved fuel.



#### Use only in

- 2001 and newer passenger vehicles
- Flex-fuel vehicles

Don't use in other vehicles, boats or gasoline-powered equipment. It may cause damage and is **prohibited** by Federal law.

Sources: RFA calculations; Based on data from IHS Automotive; manufacturer warranty statements and owners' manuals

# Intro to E15

- Blend of 15% ethanol and 85% gasoline
- Reduces tailpipe emissions
- Provides attractive alternative to regular unleaded gasoline



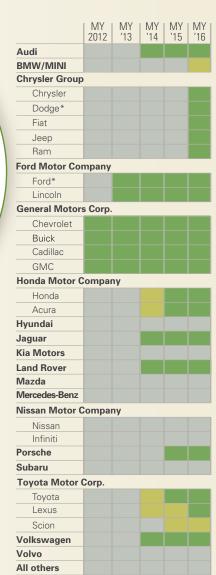


E15 is the most tested fuel in the history of EPA approval.

- The Dept. of Energy ran E15 tests on dozens of cars for 6 million miles without finding any problems
- The real test, however, has been by consumers, who have driven 250 million miles on E15 with no reported cases of engine damage or misfueling

## **Automaker Approval of E15**

- Explicitly approved by automaker in all vehicle models
- Explicitly allowed by automaker in some vehicle models
- Approved by EPA/not approved by automaker



\*Except Dodge Viper and Ford F-650/F-750

Note: All data are of 2015 unless otherwise noted.



### 2016 UPDATE

# E15: Expanding Fuel Options



Nearly all
existing
underground
storage tanks are
compatible
with E15.

E15 is currently available in 23 states and rapidly expanding nationwide.

E15: State-by-state availability



\$

Lowers price
E15 is typically less
expensive than E10 and
regular unleaded gasoline.

Boosts octane
E15 boosts the octane
value of fuel to 88–90
compared to 87 octane
in regular E10.



Most aboveground pumps already in use at retail stations are compatible with E15.

The two primary U.S. pump manufacturers guarantee that all pumps built since 2003 (Wayne), and 2008 (Gilbarco) are E15 compatible.

\$

The cost to retailers to offer E15 can be less than \$1,000 depending on the existing equipment found at each station.

Funding opportunities can offset the cost of offering higher-level ethanol blends:

- Through the USDA'S Biofuels
  Infrastructure Partnership (BIP) Program, more
  than \$100 million will be invested in retail
  infrastructure to support the expansion of E15
  at approximately 1,500 stations in 21 states
  - States and organizations have provided grants, credits, and promotional efforts
    - An industry-wide program, "Prime the Pump," offers financial assistance

Sources: Petroleum Equipment Institute; Wayne and Gilbarco; NREL; ICF International