

E15 Reference Reports

1. E15 Research Lists:
 - a. Ethanol Blend Testing Vehicle & Non-Road Evaluations – June 2, 2010 (Source: US Department of Energy)
 - b. Mid-Level Ethanol Blends Test Program – June 9, 2010 (Source: US Department of Energy)
 - c. DOE's Intermediate Ethanol Blends Test Program – September 9, 2008 (Source: US Department of Energy)
2. V11 – Fleet Performance:
 - a. RIT-CIMS/USDOT E20 Test & Evaluation Program – May 2010 (Source: Rochester Institute of Technology)
 - b. RIT-CIMS/USDOT E85 Fuel Economy Study – June 2011 (Source: Rochester Institute of Technology)
3. V8 – Dispensing Equipment
 - a. Intermediate Ethanol Blends Infrastructure Materials Compatibility Study: Elastomers, Metals, and Sealants – March 2011 (Source: Oakridge National Laboratory)
 - b. Dedicated Ethanol Pipeline Feasibility Study – March 2010 (Source US Department of Energy)
 - c. E15 Retailer Handbook – 2012 (Source: Renewable Fuels Association)
 - d. Survey of E85 Fuel Dispensing Operations in the US – February 2007 (Source: Regulatory Services, Underwriters Laboratories, Inc.)
 - e. Underwriters Laboratories Research Program on Material Compatibility and Test Protocols for E85 Dispensing Equipment – December 2007 (Source: Underwriters Laboratories)
 - f. Authorization Suspension of E85 Dispenser Components – October 2006 (Source: Underwriters Laboratories)
 - g. Dispenser Retrofits – Field Modifications – 2008 (Source: Underwriters Laboratories)
4. V7 – Vehicle Materials Review
 - a. The Effects of E20 on Elastomers Used in Automotive Fuel Systems Components – February 22, 2008 (Source: Minnesota Center of Automotive Research at MSU, Mankato)
 - b. The Effects of E20 on Automotive Fuel Pumps and Sending Units – February 21, 2008 (Source: Minnesota Center of Automotive Research at MSU, Mankato)
 - c. The Effects of E20 on Plastic Automotive Fuel System Components – February 21, 2008 (Source: Minnesota Center of Automotive Research at MSU, Mankato)
 - d. The Effects of E20 on Metals used in Automotive Fuel System Components – February 22, 2008 (Source: Minnesota Center of Automotive Research at MSU, Mankato)
 - e. An examination of Fuel Pumps and Sending Units During a 4000 Hour Endurance Test in E20 – March 25, 2009 (Source: Minnesota Center of Automotive Research at MSU, Mankato)
 - f. Legislative Report on Ethanol – Review of E20 – January 15, 2009 (Source: Minnesota Department of Agriculture)
5. V6 – Fuel System Compatibility
 - a. Durability of Automotive Fuel System Components Exposed to E20 – December 2011 (Source Coordinating Research Council, Inc.)
 - b. E20 Durability of Fuel System Components/E15 Durability and Effect of Aggressive Ethanol (CRC AVFL-15 Project) - August 1, 2011 (Source: Coordinating Research Council, Inc.)

6. DOE V4 – Engine Durability
 - a. Intermediate-Level Ethanol Blends Durability Study – April 2012 (Source: Coordinating Research Council, Inc.)
 - b. Interest Groups, Agencies Battle over Study Linking E15 to Engine Damage – May 16, 2012 (Source: Amanda Peterka, E&E Reporter)
 - c. Fuel Technologies – 2010 Annual Progress Report (Source: US Department of Energy)
7. V5 – Vehicle Drivability
 - a. 2008 CRC Cold-Start & Warmup E85 and E15/E20 Drivability Program – October 2008 (Source: Coordinating Research Council, Inc.)
 - b. 2008 CRC Cold-Start & Warmup E85 Ambient Temperature Drivability Program – June 2009 (Source: Coordinating Research Council, Inc.)
8. V9 – OBD-II Issues
 - a. Effects of Ethanol Fuels upon OBD-II Systems/Vehicle Test Phase – June 2011 (Source: Coordinating Research Council, Inc.)
 - b. Evaluation of Inspection and Maintenance OBD II Data to Identify Vehicles That May Be Sensitive to E10+ Blends – January 31, 2011 (Source: Sierra Research)
 - c. Impact of E15/E20 Blends on OBD-II Systems/Pilot Study – March 2010 (Source: Coordinating Research Council, Inc.)
 - d. E15/E20 Tolerance of In-Use Vehicle OBD-II Systems – May 5, 2010 (Source: Coordinating Research Council, Inc.)
9. V4 – Full Life Emissions
 - a. Intermediate Ethanol Blends Catalyst Durability Program – February 2012 (Source: Oakridge National Laboratory)
 - b. Mid-Level Ethanol Blends Catalyst Durability Screening – June 2009 (Source: Coordinating Research Council, Inc.)
10. V1 – Quick Look Emissions
 - a. Effects of Intermediate Ethanol Blends on Legacy Vehicles and Small Non-Road Engines, Report 1 – Updated February 2009 (Source: National Renewable Energy Laboratory)
 - b. Effects of Mid-Level Ethanol Blends on Conventional Vehicle Emissions – January 2009 (Source: National Renewable Energy Laboratory)
11. V3 – Evaporative Emissions
 - a. Study to Determine Evaporative Emission Breakdown, Including Permeation Effects and Diurnal Emissions, Using E20 Fuels on Aging Enhanced Evaporative Emissions Certified Vehicles – December 2010 (Source: Coordinating Research Council, Inc.)
 - b. Evaporative Emissions Durability – June 2011 (Source: Coordinating Research Council, Inc.)
 - c. Fuel Permeation From Automotive Systems: E0, E6, E10, E20 & E85 – December 2006 (Source: Coordinating Research Council, Inc.)
12. E15 – App-Waivers - Rebut
 - a. AFPM Says EPA Action on E15 Irresponsible – April 2, 2012 (Source: American Fuel & Petrochemical Manufacturers)
 - b. EPA Announces E15 Partial Waiver Decision – January 2011 (Source: US Environmental Protection Agency)
 - c. EPA Announces E15 Partial Waiver Decision and Fuel Pump Labeling Proposal – October 2010 (Source: US Environmental Protection Agency)

- d. Application for a Waiver Pursuant to Section 211(0(4) of the Clean Air Act for E15 – March 6, 2009 (Source: Growth Energy on Behalf of 52 US Ethanol Manufacturers)
 - e. A Literature Survey of the Effects of Higher Ethanol Concentrations in On-Road and Off-Road Engines and Vehicles Emissions, Operability, and Material Compatibility – July 15, 2009 (Source: Association of International Automobile Manufacturers)
 - f. Comments of the National Petrochemical & Refiners Association on the Petition for a Waiver to Approve Mid-Level Ethanol Blends –March 26, 2009 (Source: National Petrochemical & Refiners Association)
 - g. National Marine Manufacturers Association Comments to the US Environmental Protection Agency Regarding the Waiver Application to Increase the Allowable Ethanol Content of Gasoline to 15 Percent – July 20, 2009 (Source: National Marine Manufacturers Association)
13. E15 – Small Engines
- a. High Ethanol Fuel Endurance: A Study of the Effects of Running Gasoline with 15% Ethanol Concentration in Current Production Outboard Four Stroke Engines and Conventional Two-Stroke Outboard Marine Engines – June 16, 2010 – June 30, 2010 (Source: National Renewable Energy Laboratory)
 - b. E20 Effects in Small Non-Road SI Engines – January 15, 2008 (Source: Minnesota Department of Commerce)
14. Ethanol and Gas Prices
- a. The Impact of Ethanol Production on US and Regional Gasoline Markets – Updated May 2012 (Source: Center of Agriculture and Rural Development)
 - b. The Impact of Ethanol Blending on US Gasoline Prices – November 2008 (Source: National Renewable Energy Laboratory)
15. E15 – Misfueling
- a. EPA Finalizes Regulations to Mitigate the Potential for Misfueling of Vehicles, Engines and Equipment with E15– June 2011 (Source: US Environmental Protection Agency)
16. E15 – Phase Separation
- a. Treatise on Alcohol-Blended Gasoline: Phase Separation and Alcohol Monitors – Date Unknown (Source: Central Illinois Manufacturing Company)
 - b. Ethanol-Water Phase Separation White Paper – Date Unknown (Source: Veeder-Root)
17. E15 – Miscellaneous
- a. Federal Register – January 9, 2012 (Source: Environmental Protection Agency)
 - b. Can E15 Gasoline Really Damage Your Engine? - 5/9/12 (Source: Popular Mechanics)
 - c. Gasoline Ethanol Blends and the Classic Auto – 2011 (Source: Renewable Fuels Association)
 - d. Ethanol Blendwall – A Marathon Perspective – May 13, 2009 (Source: Marathon)
 - e. Ongoing Studies of E15 and E20 Ethanol Blends Indicate Risks to Human Health as Well as Safety and Performance of Motor Vehicles and Non-Road Engines –
 - f. Mid-Level Blend Ethanol: Challenges, Opportunities & Testing Follow Through – April 14-15, 2009 (Source: Chrysler)
 - g. Demonstration and Drivability Project to Determine the Feasibility of Using E20 as a Motor Fuel – November 4, 2008 (Source: Minnesota Department of Agriculture)
 - h. Assessment of the Operation of Vehicles in the Australian Fleet on Ethanol Blend Fuels – February 2007 (Source: Orbital Australia Party, Ltd.)