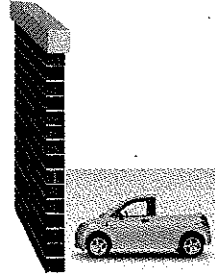


## E10 Blend Wall

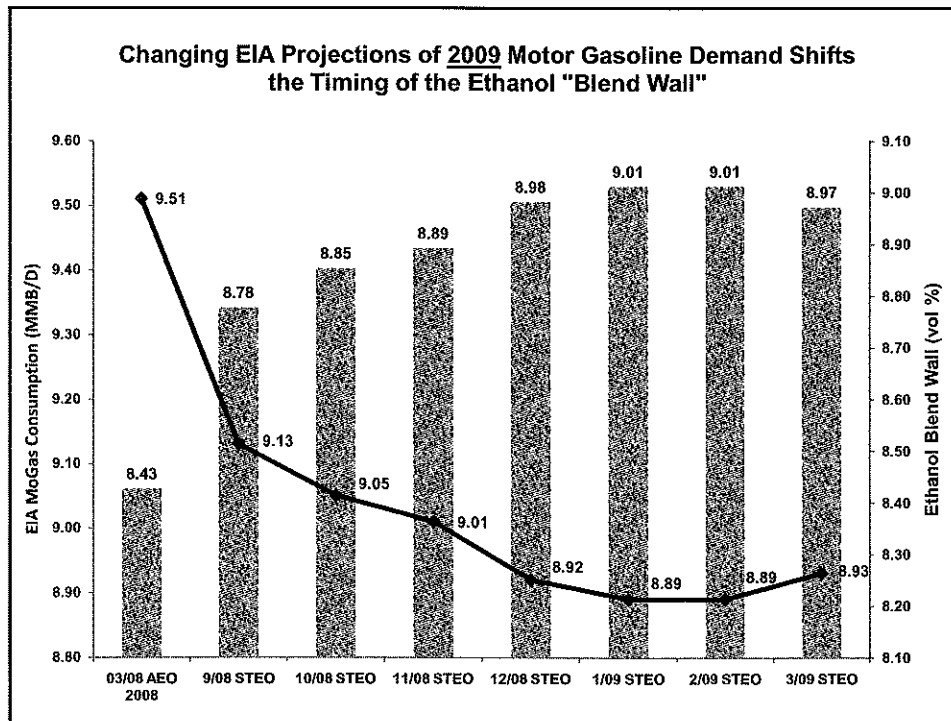
- Obligated parties will be required to use (or purchase RINs that represent) the following *volume percentages* of ethanol in their gasoline:

<u>Year</u>	<u>Percent Ethanol</u>
2009	9.0%*
2010	10.3%*
2011	9.1%**
2012	9.8%**
2013	10.8%**
2014	12.2%**



\* Based on EIA's Short Term Energy Outlook, March 2009

\*\* Based on EIA's Annual Energy Outlook, December 2008



# E10+ Research Program Summary

Topics of Interest	7												8												9												10																
	J			A			S			O			N			D			J			F			M			A			M			J			J			A			S			O			N			D	
Durability Testing (DT)	Catalyst Durability Aging												CRC E-87 Ph-I												CRC E-87 Ph-II																												
	Evap Emissions Systems																								CRC E-91																												
	Base Engine																								CRC CM-136-09																												
	Fuel system, Damper, Lvl sen, Mat'l Compat.												AVFL-15												AVFL-15 Follow-On																												
Tailpipe Testing (TP)	Catalyst Durability Aging												CRC E-87 Ph-I												CRC E-87 Ph-II																												
	Powertrain Systems Cold Operation (MSAT NMHC &SULEV)																								CRC E-XX																												
	Vehicle Emissions, Late Models												DOE V1												CRC E-87 Ph-II																												
	Vehicle Emissions, Older Models												EPAAct																																								
	Emissions - DOE will monitor												MN RFA E20 Study																																								
	Veh Perf & Emissions - DOT sponsored												RIT Study																																								
Evaporative Emissions (EV)	Evap Emissions, Permeation and Durability												CRC E-85												CRC E-77												CRC E-91																
Driveability (DR)	Powertrain Systems Cold Operation (MSAT NMHC &SULEV)																								CRC E-XX																												
	Vehicle Emissions, Late Models												DOE V1												CRC E-87 Ph-II																												
	Driveability of 20 FFVs 6 non-FFVs												CRC CM-138																																								
	Driveability of 80 vehicles - DOE will monitor												MN RFA E20 Study																																								
	Veh Perf & Emissions - DOT sponsored												RIT Study																																								
Materials Compatibility (M)	Base Engine																								CRC CM-136-09																												
	Permeation of Fuel System																								CRC E-91																												
	Fuel system, Damper, Lvl sen, Mat'l Compat.												AVFL-15												AVFL-15 Follow-On																												
	Elastomer, Plastic & Metals - DOE will monitor												MN RFA E20 Study																																								
Emissions Inventory (EI)	Emissions/Air Quality Monitoring																																				E-85a Follow-on / A-13																
OBD (OB)	On-Board Diagnostics																								CRC E-90																												
												Key:												Comprehensive																													
Note: 2003 Australian Orbital Study includes preliminary data for catalyst durability, emissions tests & materials compatibility.																								Comprehensive in development																													
																								Preliminary, partial or screening																													
																								Gap																													