

Potential Supply Impacts of Removal of 1-Pound RVP Waiver

Table 1. RVP Effects of Adding Ethanol to Gasoline

Finished Gasoline RVP Requirement	Approximate RVP Increase when Ethanol Added to Make 10% Blend	Base Gasoline RVP Adjustment Needed if 1 Pound Waiver Not Allowed
9.0	1.0	(1.1)
7.8	1.2	(1.3)
7.0	1.3	(1.4)

Sources: William J. Piel, "Oxygenate Flexibility for Future Fuels," Arco Chemical Company, paper presented at National Conference on Reformulated Gasoline and Clean Air act Implementation, Information Resources, Inc. Washington, DC, October 1991, American Petroleum Institute, *Alcohols and Ethers*, Publication 4261.

Table 2. Volume and Energy Effects to Adjust for RVP When Adding Ethanol

RVP	Volume Increase (Decrease) By Adding Ethanol to Make 10% Ethanol Blend		Energy Increase (Decrease) By Adding Ethanol to Make 10% Ethanol Blend	
	With RVP Waiver	Without RVP Waiver	With RVP Waiver	Without RVP Waiver
9.0	11.1%	7.5%	7.5%	4.5%
7.8	10.3%	2.2%	6.8%	-0.2%
7.0	8.3%	-0.9%	5.1%	-2.8%

Source: See Appendix B.

**Table 3. Volumes of 10-Percent Ethanol Blends of
Conventional Gasoline Projected for 2012
(Thousand Barrels Per Day)**

	Scenario 1: All 9.0 psi RVP	Scenario 2: 2001 RVP Shares
All RVP's Combined	1,636	1,636
9.0 psi	1,636	1,227
7.8 psi	0	327
7.0 psi	0	82

Source: Energy Information Administration

**Table 4. 9.0-psi Gasoline Volume Gains When
Adding Ethanol To Make 10% Blends
(Thousand Barrels Per Day)**

RVP	With Waiver	No Waiver	Difference
9.0	163.3	114.0	49.3
7.8	0.0	0.0	0.0
7.0	0.0	0.0	0.0
Total	163.3	114.0	49.3

Source: Energy Information Administration

**Table 5. 9.0-psi Gasoline Energy Gains When
Adding Ethanol To Make 10% Blends
(Thousand Barrels Per Day Gasoline Equivalent)**

RVP	With Waiver	No Waiver	Difference
9.0	114.5	70.4	44.0
7.8	0.0	0.0	0.0
7.0	0.0	0.0	0.0
Total	114.5	70.4	44.0

Source: Energy Information Administration

**Table 6. Varying RVP Gasoline Volume Gains
When Adding Ethanol to Make 10% Blend
(Thousand Barrels Per Day)**

RVP	With Waiver	No Waiver	Difference
9.0	122.4	85.5	37.0
7.8	30.6	6.9	23.7
7.0	6.3	-0.7	7.0
Total	159.3	91.7	67.6

Source: Energy Information Administration

**Table 7. Varying RVP Gasoline Energy Gains
When Adding Ethanol to Make 10% Blend
(Thousand Barrels Per Day Gasoline Equivalent)**

RVP	With Waiver	No Waiver	Difference
9.0	85.8	52.8	33.0
7.8	21.0	-0.5	21.6
7.0	4.0	-2.4	6.4
Total	110.9	49.9	60.9

Source: Energy Information Administration