

**Region 3 Plan Summary  
Greenbrier, West Virginia 1-Hour Ozone Area**

**Title:** Maintenance Plan for the Greenbrier, West Virginia 1-Hour Ozone Area

**Federal Register Dates:** August 4, 1995, 60 FR 39911 (Proposed rule), 60 FR 39857 (Final rule); February 10, 2004, 69 FR 6224 (Proposed rule-revision), 69 FR 6160 (Final rule- revision); November 7, 2007, 72 FR 62809 (Proposed rule-revision); January 8, 2008, 73 FR 1282 (Final rule-revision).

**EPA Effective Date:** September 18, 1995; revised effective April 12, 2004 and February 7, 2008.

**State Submittal Date:** September 9, 1994; revisions submitted on October 15, 2003 and November 29, 2006.

**Affected Area:** Greenbrier County

**Summary of the Plan:** The period covered by West Virginia's maintenance plan SIP revision is 1990-2005 inclusive. The maintenance demonstration shows that future emissions of a pollutant or its precursors will not exceed the level of the attainment emissions inventory for a period of 10 years following the initial redesignation. The projected inventory considers future growth, including population and industry. Effective February 7, 2008, EPA removes West Virginia's obligation to submit a revised maintenance plan for the 1-hour NAAQS 8 years after approval of the initial 1-hour maintenance plan.

**Emissions Budgets:**

**Table 1 A**

<b>Initial EPA Approved Emissions Budgets</b>			
(September 18, 1995)			
<b>Greenbrier</b>	<b>1993 BASE</b>	All emissions in Tons/Day	
<b>POINT SOURCES:</b>		1993	2005
	VOC	0.04	0.05
	CO	0.44	0.51
	NOx	0.15	0.17
<b>Greenbrier AREA SOURCES: (includes off- highway mobile)</b>		1993	2005
	VOC	4.32	4.91
	CO	13.08	13.77
	NOx	1.45	1.53

<b>Greenbrier HIGHWAY MOBILE (MOBILE5) SOURCES:</b>		1993	2005
		VOC	2.52
	CO	20.41	17.43
	NOx	3.96	3.74
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<b>Greenbrier TOTAL (man-made)</b>		1993	2005
		VOC	6.89
	CO	33.94	31.71
	NOx	5.57	5.45

**Table 1 B**

<b>Revised Emissions Budgets Using MOBILE6 (EPA Effective Date: April 12, 2004)</b>					
<b>Greenbrier POINT SOURCES:</b>		<b>1993</b>	All emissions in		
		<b>BASE</b>	Tons/Day		
		1993	2005		
	VOC	0.04	0.05		
	CO	0.44	0.51		
	NOx	0.15	0.17		
<b>Greenbrier AREA SOURCES: (includes off- highway mobile)</b>		1993	2005		
	VOC	4.32	4.91		
	CO	13.08	13.77		
	NOx	1.45	1.53		
<b>Greenbrier HIGHWAY MOBILE (MOBILE6) SOURCES:</b>		<b>1993</b>	2005		<b>2005</b>
	VOC	<b>4.22</b>	1.96	1.50	<b>3.46</b>
	CO	48.08	23.17	na	na
	NOx	<b>5.07</b>	3.80	1.05	<b>4.85</b>
				Safety Margin	
					<b>Greenbrier DAQ Adopted MOBILE6 Budget</b>

<b>Greenbrier TOTAL (man-made)</b>		<b>1993</b>	2005	2005-Base	<b>2005 total</b>
	VOC	<b>8.59</b>	6.92	1.67	<b>8.42</b>
	CO	<b>61.60</b>	37.45	na	37.45
	NOx	<b>6.67</b>	5.50	1.17	<b>6.56</b>

Although a slight increase in VOC emissions is projected to occur at the end of the maintenance period, such increase will not prevent maintenance of the ozone NAAQS in Greenbrier County.

**Control Measures:** West Virginia's maintenance plan is not based on modeling but rather was submitted to satisfy the test that emissions will remain within the 1993 levels for a twelve year period by keeping in place key elements of the current federal and state regulatory programs consisting of (1) motor vehicle fleet turnover, with new vehicles meeting the federal motor vehicle emissions control program standards, and (2) limits on gasoline volatility– the Reid Vapor Pressure (RVP) of gasoline decreased during the years 1990 to 1992 from 9.5 pounds per square inch (psi) to 9.0 psi.

**Contingency Measures:** Effective February 7, 2008, EPA removes West Virginia's obligation to implement contingency measures in the event that violation of the 1-hour NAAQS occurs.

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