

## Control Measures Selected for Action Plan

<b>SOURCE CATEGORY</b>	<b>Control Measure</b>	<b>Responsible Agency</b>	<b>Implementation Date</b>	<b>Emission Benefits</b>	
				<b>VOC kg/day</b>	<b>NOx kg/day</b>
<b>STATE &amp; LOCAL MEASURES</b>					
<b>Highway Sources</b>					
<i>VMT and Trip Reduction Measures</i>					
	Ride-matching/Commuter Connections	MWCOG & MTA	On-going	-0.33	-0.31
	Transit Programs: 1) County Commuter bus services (9 routes) 2) Turning Point transit services. 3) Commuter bus service from Hagerstown to Shady Grove Metro Station.	1) Washington Co. 2) Washington Co. 3) Washington Co.	1) On-going 2) On-going 3) On-going	1) -5.30 2) -0.43 3) -1.65	-4.19 -0.41 -1.75
	Park and Ride Lots	MDOT	On-going	-1.77	-1.80
	Telework Center/Telecommuting: 1) Telework Center in Hagerstown (32 workspaces) 2) Telecommutin Outreach Program (homebased teleworkers)	1) State/Fed Gov. 2) MWCOG	1) On-going 2) On-going	1) -0.19 2) -2.87	-0.22 -3.12
	Air Quality Action Days	MDE & Washington Co.	By July 2005	---	---
	Clean Air Partners/Public Education Outreach	MDE & Washington Co.	On-going in other counties of MD. Expand program to Washington Co.	---	---
	E-government/E-commerce Enhancements	Washington Co. & MVA	Website: ongoing. Call-In: Dec 2005	-1.59	-0.31
	Enterprise Zone Jobs Tax Incentives	Washington Co.	On-going	-1.59	-1.85
	Growth Management Program	Washington Co.	On-going	-13.24	-15.42
			Sub-total:	-28.96	-29.38

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<i>Traffic Flow Improvements</i>					
	Signal System Enhancements:				
	1) US-40: Cleveland Ave. to Edgewood Rd.	1) SHA	1) Summer '03	1) -6.00	-1.81
	2) MD-65: Doub Way to Henry Douglas Dr.	2) SHA	2) FY '04	2) -4.22	-1.27
	Incident Management/Intelligent Transportation Systems:				
	Highway Advisory Radio (3 locations)	MDOT - CHART	On-going	-17.59	-7.99
<i>Vehicle Acquisitions</i>					
	On-Road Vehicle Replacements				
	1) Fleet Replacement (2 vehicles)	1) SHA	1) Two by 2005	1) -0.01	-0.01
	2) Transit fleet replacement (Bus replacement).	2) SHA	2) a) By 2003; b) Two by 2004 & Three by 2005.	2) 0.02	-13.60
	a) Turning Point: one replacement.				
	b) County Commuter: 5 scheduled replacement.				
	3) Transit engine re-built (Installation of Emissions Reduction Devices on Engine Re-build - 6 engine re-builds).	3) SHA	3) Three by 2003 & Three by 2004.	3) -1.49	0.00
<i>State Control Measures</i>					
	Vehicle Emissions Inspection Program (VEIP)	MDE & MDOT	On-going	-480.81	-562.46
Sub-total:				-510.10	-587.14

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<b>Area Sources</b>					
	OTC Programs				
	1) Consumer Products (CP)	1) MDE	1) On-going	1) -108.86	0.00
	2) Architectural and Industrial Maintenance (AIM)	2) MDE	2) On-going	2) -92.18	0.00
	3) Portable Fuel Containers (PFC)	3) MDE	3) On-going	3) -54.43	0.00
	Low Emissions Paint (Yellow & White Paint for Road markings)	MDOT - SHA	On-going	-26.28	0.00
<b>Off-Road Sources</b>					
	Off-Road Vehicle Replacements	Washington Co.	Two in 2002 and One in 2004	---	---
<b>Stationary Sources</b>					
	RACT Controls. Washington County sources subject to RACT post 1999: - (R. Paul Smith/Allegheny Energy)	MDE	On-going	0.00	-1312.31
Sub-total:				-281.75	-1312.31

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<b>FEDERAL MEASURES</b>					
	NLEV	MDOT	On-going	-81.65	-99.79
	Tier II	MDOT	On-going	-780.18	-2821.35
	HDE Standard	MDOT	By 2007	0.00	-172.37
<b>Off-Road Sources</b>					
	Phase I & II engine standards	Federal rule	1997 & 2002	---	---
	Engine standards for diesel powered engines	Federal rule	2002	---	---
	Engine standards for gasoline powered marine engines	Federal rule	1998	---	---
	Engine standards for large gasoline-powered engines	Federal rule	2000	---	---
	Engine standards for locomotive engines	Federal rule	2001 to 2005	---	---
<b>Stationary Sources</b>					
	NOx SIP Call	Federal rule & State regulation	2004	---	---
Sub-total:				-861.83	-3093.51
<b>TOTAL EMISSION BENEFITS (kg/day):</b>				<b>-1682.64</b>	<b>-5022.34</b>
<b>TOTAL EMISSION BENEFITS (Tons/day):</b>				<b>-1.85</b>	<b>-5.54</b>

## Control Measures - Contingency List

<b>SOURCE CATEGORY</b>	<b>Control Measure</b>	<b>Responsible Agency</b>	<b>Implementation Date</b>	<b>Emission Benefits</b>	
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<b>HIGHWAY</b>					
<i>VMT and Trip Reduction Measures</i>					
	Government MOU - Voluntary Flextime/Alternative Work Schedules	MDE	By 2007	-4.57	-4.24
<i>State Control Measures (OTR Programs)</i>					
	- Low RVP <u>OR</u> (Benefits of Low RVP program listed as a range) - RFG program	MDE	By 2007	- 208.65 to - 444.52	-18.14 to - 27.22
<i>Fleet Operations</i>					
	Diesel vehicle emission control - Long duration truck idling reduction (Utilization rate 50% to 25% parking spaces at Truck Stops/Rest Areas - Appx 100 - 200 parking spaces).		By 2007	-3.24 to -6.48	-102.6 to -205.2
<i>Traffic Flow Improvements</i>					
	Incident Management/Intelligent Transportation Systems: CCTV (2 locations) & Dynamic Message Signs (1 location)	MDOT - CHART	By 2007	-19.86	-8.97
<i>Vehicle Acquisitions</i>					
	On-Road Vehicle Replacements 1) Fleet Replacement (5 vehicles) 2) Transit fleet replacement (Bus replacement). County Commuter: 7 scheduled replacement.	1) SHA 2) SHA	1) Five by 2007 2) Three by 2006 & Four by 2007.	1) -0.08 2) 0.03	-0.07 -21.67
<b>AREA SOURCES</b>					
	Gas can replacement	Washington Co./MDE	By 2007	-4.10	0.00
	Lawnmower Replacement	Washington Co./MDE	By 2007	-1.18	-0.03
<b>TOTAL EMISSION BENEFITS (kg/day):</b>				<b>-241.65 to -480.76</b>	<b>-155.72 to -267.4</b>
<b>TOTAL EMISSION BENEFITS (Tons/day):</b>				<b>-0.27 to -0.53</b>	<b>-0.17 to -0.29</b>