

Appendix D

Round 7.0a Cooperative Forecast Projections & 2009 Area and Nonroad Source Emissions Summary

Summary of Intermediate Employment Forecasts
Round 7.0a Cooperative Forecasts
(Thousands)

JURISDICTION	2000	2005	2010	2015	2020	2025	2030	2005 to 2030		Regional Share
								Number	% Change	
District of Columbia	743.6	744.8	783.5	816.0	829.5	843.8	859.1	114.3	15.3%	9.6%
Arlington County	182.6	195.2	217.8	237.8	254.4	263.6	275.8	80.6	41.3%	6.8%
City of Alexandria	89.3	105.6	113.3	123.2	132.5	141.3	148.0	42.4	40.1%	3.6%
Central Jurisdictions	1,015.5	1,045.6	1,114.5	1,177.0	1,216.5	1,248.7	1,282.9	237.3	22.7%	20.0%
Montgomery County (1)	474.3	500.0	545.0	580.0	615.0	645.0	670.0	170.0	34.0%	14.3%
Rockville (2)	68.7	75.3	87.6	93.7	99.9	102.1	104.7	29.4	39.1%	2.5%
Prince George's County	338.3	358.7	390.0	424.0	460.9	501.0	544.7	185.9	51.8%	15.7%
Fairfax County (3)	577.0	600.5	683.9	729.6	774.5	814.2	844.6	244.1	40.6%	20.6%
City of Fairfax (4)	28.8	29.2	31.3	33.3	35.3	37.3	39.3	10.1	34.6%	0.9%
City of Falls Church	9.5	9.5	11.8	15.1	17.8	19.9	20.3	10.8	113.7%	0.9%
Inner Suburbs	1,427.8	1,498.0	1,662.0	1,782.0	1,903.5	2,017.4	2,118.9	620.9	41.5%	52.4%
Loudoun County	90.5	122.7	153.7	183.8	212.9	242.0	271.2	148.5	121.0%	12.5%
Prince William County	94.6	111.6	128.6	143.7	159.1	173.5	186.0	74.4	66.7%	6.3%
City of Manassas	22.5	23.3	24.6	26.2	26.3	26.6	26.8	3.5	15.0%	0.3%
City of Manassas Park	2.7	3.0	4.5	4.6	4.7	4.8	4.9	2.0	66.3%	0.2%
Calvert County (5)	22.8	29.4	32.9	33.7	34.5	35.1	35.6	6.2	21.1%	0.5%
Charles County (5)	41.9	56.5	62.9	64.8	66.8	67.9	69.1	12.6	22.4%	1.1%
Frederick County	96.3	122.2	142.4	151.5	158.3	163.5	167.3	45.1	36.9%	3.8%
Stafford County (6)	30.5	38.3	46.1	52.7	59.2	66.3	73.4	35.1	91.6%	3.0%
Outer Suburbs	401.9	506.9	595.8	660.9	721.9	779.7	834.3	327.4	64.6%	27.6%
Northern Virginia	1,128.0	1,238.9	1,415.7	1,550.0	1,676.9	1,789.5	1,890.3	651.4	52.6%	54.9%
Suburban Maryland	973.6	1,066.8	1,173.2	1,253.9	1,335.5	1,412.5	1,486.6	419.9	39.4%	35.4%
MSA REGIONAL TOTAL	2,845.2	3,050.4	3,372.3	3,619.9	3,841.8	4,045.9	4,236.0	1,185.6	38.9%	100.0%

(1) Forecasts for years 2000 to 2030 include all of Takoma Park

(2) Included in Montgomery County total.

(3) Forecasts for all years include Fairfax County Government employees working at the Fairfax County Public Safety Center

(4) Forecasts for all years do not include Fairfax County Government employees (+/- 2,000 jobs) working at the Fairfax County Public Safety Center

(5) Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecasts for Calvert County, Charles County and St. Mary's County.

(6) Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003, adjusted to common employment definition.

(7) Source: Baltimore Metropolitan Council, Round 6-B.

Summary of Intermediate Population Forecasts
Round 7.0a Cooperative Forecasts
(Thousands)

JURISDICTION	2000	2005	2010	2015	2020	2025	2030	2005 to 2030		Regional Share
								Number	% Change	
District of Columbia	572.1	577.5	608.7	641.9	673.0	712.0	733.8	156.3	27.1%	9.6%
Arlington County	190.3	198.3	212.2	223.3	233.1	241.6	249.6	51.3	25.9%	3.1%
City of Alexandria	128.3	135.9	143.9	149.4	153.2	159.5	169.4	33.5	24.7%	2.1%
Central Jurisdictions	890.7	911.6	964.8	1,014.6	1,059.2	1,113.1	1,152.8	241.2	26.5%	14.8%
Montgomery County (1)	873.3	942.0	1,000.0	1,040.0	1,077.1	1,115.3	1,155.8	213.8	22.7%	13.1%
Rockville (2)	47.4	59.9	65.3	68.3	68.8	69.0	69.5	9.6	16.0%	0.6%
Prince George's County	808.1	852.9	872.6	893.3	914.9	949.7	993.1	140.3	16.4%	8.6%
Fairfax County (3)	969.0	1,040.9	1,132.5	1,211.5	1,276.0	1,303.7	1,330.9	290.0	27.9%	17.8%
City of Fairfax (4)	21.4	22.1	23.5	25.0	25.6	25.7	26.5	4.4	19.8%	0.3%
City of Falls Church	10.4	10.6	12.3	13.9	14.7	14.9	15.4	4.8	45.4%	0.3%
Inner Suburbs	2,682.1	2,868.5	3,040.9	3,183.7	3,308.3	3,409.3	3,521.8	653.3	22.8%	40.0%
Loudoun County	169.6	247.3	318.1	379.6	422.9	454.9	480.6	233.3	94.4%	14.3%
Prince William County	281.3	352.1	416.8	463.4	489.9	524.9	556.3	204.2	58.0%	12.5%
City of Manassas	35.1	37.6	38.6	40.3	40.8	41.2	41.9	4.2	11.3%	0.3%
City of Manassas Park	10.3	12.9	15.0	15.8	16.5	16.7	16.8	4.0	30.7%	0.2%
Calvert County (5)	74.6	82.8	91.0	93.5	96.0	98.3	101.4	18.6	22.5%	1.1%
Charles County (5)	120.5	138.0	147.4	162.3	177.2	193.1	204.2	66.2	48.0%	4.1%
Frederick County	195.3	220.9	243.2	265.6	287.9	310.4	339.7	118.8	53.8%	7.3%
Stafford County (6)	92.4	107.1	121.7	136.4	151.0	174.5	195.8	88.7	82.8%	5.4%
Outer Suburbs	979.2	1,198.6	1,391.9	1,556.8	1,682.2	1,814.0	1,936.7	738.1	61.6%	45.2%
Northern Virginia	1,908.1	2,164.7	2,434.7	2,658.5	2,823.8	2,957.7	3,083.2	918.5	42.4%	56.3%
Suburban Maryland	2,071.8	2,236.5	2,354.2	2,454.7	2,553.1	2,666.8	2,794.3	557.7	24.9%	34.2%
MSA REGIONAL TOTAL	4,551.9	4,978.7	5,397.6	5,755.1	6,049.8	6,336.4	6,611.3	1,632.6	32.8%	100.0%

(1) Forecasts for years 2000 to 2030 include all of Takoma Park.

(2) Included in Montgomery County total.

(3) Forecasts for all years include Fairfax County group quarters population at the Fairfax County Public Safety Center

(4) Forecasts for all years do not include Fairfax County group quarters population (+/- 1,000 people) at the Fairfax County Public Safety Center and Fairfax County household population (+/-1,300 people) in TAZ 1609.

(5)Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecast for Calvert County, Charles County and St. Mary's County.

(6) Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003. The estimates for 2010, 2020 and 2030 are control totals provided by the Virginia Employment Commission (VEC) and should only be used for transportation planning purposes. Incremental five-year estimates (2005, 201

(7) Source: Baltimore Metropolitan Council, Round 6-B.

Summary of Intermediate Household Forecasts
Round 7.0a Cooperative Forecasts
(Thousands)

JURISDICTION	2000	2005	2010	2015	2020	2025	2030	2005 to 2030		Regional Share
								Number	% Change	
District of Columbia	248.3	252.0	265.3	280.7	293.3	308.9	318.7	66.7	26.5%	10.1%
Arlington County	86.9	92.1	99.6	105.9	111.5	116.0	119.9	27.7	30.1%	4.2%
City of Alexandria	61.9	66.3	71.0	74.6	76.7	80.5	86.5	20.1	30.4%	3.0%
Central Jurisdictions	397.1	410.5	435.8	461.2	481.4	505.4	525.0	114.5	27.9%	17.3%
Montgomery County (1)	324.6	347.0	370.0	390.0	407.9	424.8	441.3	94.3	27.2%	14.3%
Rockville (2)	17.2	22.6	25.1	26.1	26.3	26.5	26.7	4.1	18.1%	0.6%
Prince George's County	288.6	308.5	321.8	334.6	346.9	360.8	378.1	69.7	22.6%	10.5%
Fairfax County	350.5	377.6	411.5	442.7	462.6	472.6	482.4	104.8	27.8%	15.9%
City of Fairfax (3)	8.2	8.5	9.0	9.6	9.9	10.1	10.5	2.0	23.5%	0.3%
City of Falls Church	4.5	4.6	5.5	6.5	6.9	7.0	7.3	2.7	58.7%	0.4%
Inner Suburbs	976.3	1,046.2	1,117.8	1,183.5	1,234.1	1,275.3	1,319.7	273.5	26.1%	41.4%
Loudoun County	59.9	87.5	112.7	134.4	149.7	161.0	170.1	82.6	94.4%	12.5%
Prince William County	94.6	117.9	140.9	158.5	169.4	181.2	193.1	75.2	63.8%	11.4%
City of Manassas	11.8	12.8	13.4	13.7	13.9	14.1	14.4	1.6	12.2%	0.2%
City of Manassas Park	3.3	4.2	5.0	5.3	5.4	5.4	5.4	1.2	28.0%	0.2%
Calvert County (4)	25.4	28.3	31.0	32.7	34.3	35.1	36.2	8.0	28.2%	1.2%
Charles County (4)	41.7	48.2	52.2	57.9	63.7	72.3	76.9	28.7	59.4%	4.3%
Frederick County	70.1	79.5	87.7	95.9	104.1	112.5	123.1	43.6	54.9%	6.6%
Stafford County (5)	30.2	36.3	40.9	46.4	51.9	59.8	68.4	32.1	88.5%	4.9%
Outer Suburbs	336.9	414.7	483.9	544.8	592.4	641.4	687.6	272.9	65.8%	41.3%
Northern Virginia	711.6	807.9	909.5	997.6	1,057.7	1,107.7	1,157.9	350.1	43.3%	53.0%
Suburban Maryland	750.3	811.4	862.7	911.1	956.9	1,005.5	1,055.7	244.2	30.1%	36.9%
MSA REGIONAL TOTAL	1,710.3	1,871.3	2,037.5	2,189.5	2,307.9	2,422.1	2,532.3	661.0	35.3%	100.0%

(1) Forecasts for years 2000 to 2030 include all of Takoma Park.
(2) Included in Montgomery County total.
(3) Forecasts for all years do not include Fairfax County households (+/- 500 households) in TAZ 1609
(4) Tri-County Council for Southern Maryland develops ten-year incremental population, housing unit and employment forecast for Calvert County, Charles County and St. Mary's County.
(5) Source: Fredericksburg Area Metropolitan Planning Organization (FAMPO), CLRP 2030 Projections, March 2003
(6) Source: Baltimore Metropolitan Council, Round 6-B.

**2009 Uncontrolled Emission Inventory for the Metropolitan Washington Nonattainment Area
PM2.5
Area and Nonroad Source Emissions by Jurisdiction (tons/year)**

SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total
	Area Source																	
2102002000	Coal Combustion - Industrial	254.56						23.44	14.72	118.44	1.08	2.48	52.13	27.99	13.20	1.08	254.56	0.00
2102004000	Industrial Distillate Oil Combustion	13.41		0.83	1.02	1.56	1.45	0.79	0.50	3.98	0.03	0.08	1.74	0.94	0.45	0.04	8.54	4.87
2102005000	Industrial Residual Oil Combustion	25.11		4.92	6.04	5.68	5.30	0.29	0.18	1.46	0.01	0.03	0.65	0.35	0.16	0.01	3.16	21.95
2102006000	Natural Gas Combustion - Industrial	220.11						20.27	12.74	102.41	0.93	2.13	45.07	24.21	11.41	0.93	220.11	0.00
2102007000	Liquid Propane Combustion - Industrial	22.62						2.08	1.31	10.53	0.10	0.22	4.63	2.49	1.17	0.09	22.62	0.00
2103002000	Commercial/Institutional Coal Combustion	26.30	8.80	2.04	4.08	6.12	2.04	0.51	0.30	1.72	0.06	0.05	0.25	0.26	0.07	0.01	3.23	14.27
2103004000	Commercial/Institutional Distillate Oil Combustion	210.05	47.10	4.39	5.39	8.20	7.66	20.26	12.16	70.89	2.42	2.08	14.12	12.52	2.56	0.31	137.31	25.64
2103005000	Commercial/Institutional Residual Oil Combustion	14.16		0.37	0.45	0.47	0.43	1.84	1.11	6.43	0.21	0.18	1.27	1.13	0.23	0.03	12.44	1.72
2103006000	Commercial/Institutional Natural Gas Combustion	216.40	68.89	0.95	2.12	24.94	22.97	14.24	8.55	49.83	1.70	1.46	9.92	8.80	1.80	0.22	96.52	50.98
2103007000	Commercial/Institutional LPG Combustion = All Combustor Types	0.54		0.08	0.12	0.17	0.18										0.00	0.54
2103011000	Commercial/Institutional Kerosene Combustion	1.83		0.32	0.39	0.59	0.54										0.00	1.83
2104002000	Residential Coal Combustion	14.82	2.42	0.00	0.33	0.33	0.35	1.15	0.78	5.98	0.14	0.06	1.18	1.82	0.21	0.06	11.38	1.02
2104004000	Residential Distillate Oil Combustion	140.90	9.78	7.85	9.51	14.43	13.79	8.02	5.46	42.25	0.93	0.46	11.30	15.06	1.46	0.61	85.53	45.58
2104006000	Residential Natural Gas Combustion	490.25	61.68	2.87	6.43	73.77	64.32	26.34	17.96	138.87	3.06	1.52	37.14	49.51	4.80	1.98	281.18	147.38
2104007000	Residential LPG Combustion	3.14	0.02	0.45	0.68	0.95	1.03										0.00	3.12
2104008001	Residential Wood Combustion: Fireplaces: General	337.33	13.81	21.74	49.65	67.63	98.59	15.78	2.20	40.85	2.35	1.36	7.31	12.38	2.58	1.11	85.92	237.60
2104008002	Residential Wood Combustion: Fireplaces: Insert; Non-EPA Certified	833.00	41.39					81.11	11.34	446.13	12.11	6.97	79.73	135.28	13.24	5.70	791.61	0.00
2104008003	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Non-Catalytic	33.07	1.64					3.22	0.45	17.71	0.48	0.28	3.17	5.36	0.52	0.22	31.42	0.00
2104008004	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Catalytic	13.89	0.69					1.36	0.19	7.44	0.20	0.12	1.33	2.26	0.22	0.09	13.20	0.00
2104008010	Residential Wood Combustion: Woodstoves: General	2269.72	29.59	61.53	122.19	256.01	411.97	70.28	9.82	860.60	10.49	6.05	153.81	260.95	11.46	4.95	1388.42	851.71
2104008030	Residential Wood Combustion: Catalytic Woodstoves: General	58.07	0.49	2.49	4.94	10.35	16.66	1.18	0.17	14.35	0.17	0.09	2.56	4.34	0.19	0.08	23.13	34.45
2104008050	Residential Wood Combustion: Non-Catalytic Woodstoves: EPA Certified	130.34	1.17	5.35	10.63	22.26	35.82	2.79	0.40	34.16	0.42	0.23	6.10	10.35	0.46	0.20	55.10	74.06
2104008053	Residential Wood Combustion: Non-Catalytic Woodstoves: Pellet Fired	5.53		1.29	3.00	0.53	0.71										0.00	5.53
2104008060	Residential Wood Combustion - Outdoor Boilers & Furnaces	29.52		6.89	16.14	2.78	3.71										0.00	29.52
2104008070	Residential Wood Combustion: Outdoor Fireplaces, Chimineas	249.74		19.79	33.05	104.22	92.69										0.00	249.74
2104009000	Residential Firelog: Total: All Combustor Types	33.20		3.04	6.94	9.45	13.78										0.00	33.20
2104011000	Residential Kerosene Combustion	3.22		0.56	0.67	1.01	0.97										0.00	3.22
2199008000	Total Area Source Fuel Combustion: Wood - All Boiler Types	6.88		1.61	3.76	0.65	0.86										0.00	6.88
2294000000	Mobile: All Paved Roads - Total: Fugitives	972.60		157.09	169.46	135.91	83.07	18.55	15.80	165.83	3.49	0.90	121.61	93.59	6.46	0.83	427.07	545.53
2296000000	Mobile: All Unpaved Roads - Total: Fugitives	420.33		2.89	14.30	7.34	6.55	75.12	0.00	0.00	0.00	0.00	131.35	182.78	0.00	0.00	389.25	31.09
2302002100	Industrial Processes: Commercial Cooking - ConveyORIZED Charbroiling	85.00	27.36	3.09	6.58	26.29	21.69										0.00	57.65
2302002200	Industrial Processes: Commercial Cooking - Under-Fired Charbroiling	588.68	197.96	20.9883183	40.3583606	190.4213478	138.956387										0.00	390.72
2302003100	Industrial Processes: Commercial Cooking - Flat Griddle Frying	78.97		4.22351314	8.425781316	38.80229504	27.5229201										0.00	78.97
2302003200	Industrial Processes: Commercial Cooking - Clamshell Griddle Frying	6.46		0.33544549	0.666265795	2.931149594	2.52393929										0.00	6.46
2311010000	Industrial Processes: Total Residential Construction	144.02		7.08	7.46	17.23	11.63	0.61	3.60	19.56	0.27	0.01	60.56	14.73	0.24	1.05	100.62	43.40
2311020000	Industrial Processes: Total Industrial/Commercial/Institutional Construction	973.52		8.74	37.59	279.98	160.65	24.48	24.48	222.45	8.06	16.89	155.14	16.94	18.12	0.00	486.56	486.96
2311030000	Industrial Processes: Total Road Construction	1677.59		112.37	122.24	349.38	179.51	5.46	26.85	170.40	3.12	0.08	552.76	141.96	2.66	10.80	914.09	763.50
2325000000	Industrial Processes: Mining And Quarrying - All Processes Total	293.94						48.99	48.99	48.99	48.99	0.00	48.99	48.99	0.00	0.00	293.94	0.00

**2009 Uncontrolled Emission Inventory for the Metropolitan Washington Nonattainment Area
PM2.5
Area and Nonroad Source Emissions by Jurisdiction (tons/year)**

SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total
2601000000	Incineration - Total	25.95		0.00	11.90	12.50	1.55										0.00	25.95
2601010000	Incineration - Industrial	41.04						4.16	2.61	20.40	0.18	0.41	6.61	4.13	2.38	0.16	41.04	0.00
2601020000	Incineration - Commercial/Institutional	95.03						9.60	6.55	49.83	1.15	0.52	9.84	15.17	1.77	0.60	95.03	0.00
2601030000	Incineration - Residential	0.00															0.00	0.00
2610000100	Open Burning - All Categories - Yard Waste - Leaf Species Unspecified	30.71		5.39	9.55	5.37	0.18	0.00	0.00	0.00	0.00	0.00	10.22	0.00	0.00	0.00	10.22	20.49
2610000400	Open Burning - All Categories - Yard Waste - Brush Species Unspecified	17.95		3.58	6.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.00	0.00	4.45	13.50
2610000500	Open Burning - All Categories - Land Clearing Debris	3385.16		285.76	663.24	1791.34	644.82										0.00	3385.16
2610030000	Open Burning - Residential - Household Waste - (Says Use Other ScCs)	38.29		12.53	20.93	4.82	0.00										0.00	38.29
2801000003	Agriculture Production - Crops Tilling	575.47		62.28	233.25	81.31	28.08	3.11		150.94			16.51				170.56	404.91
2805001000	Agriculture Production - Livestock, Beef Cattle, Feedlots, Dust Kicked-Up By Hooves	60.00						5.06		45.51			9.43				60.00	0.00
2810001000	Forest Fires	27.12		12.55	2.49	7.84	3.88						0.06	0.30			0.36	26.76
2810014000	Prescribed Burning	115.23						0.01	0.01	32.41			42.14	40.60	0.04	0.02	115.23	0.00
2810015000	Prescribed Forest Burning	2.42	0.00	1.77			0.65										0.00	2.42
2810030000	Structural Fires	42.69	6.38	1.08	1.46	1.92	9.24	5.16	3.37	4.00	0.05	0.30	0.47	8.73	0.28	0.27	22.62	13.69
2810050000	Motor Vehicle Fires	23.24		1.14	1.52	4.08	16.49										0.00	23.24
	2002 Area Source Total	15379.13	519.19	852.24	1645.29	3573.14	2132.83	495.24	232.59	2904.34	102.22	44.96	1603.58	1143.93	98.13	31.45	6656.44	8203.50
	Nonroad Model Source	2290.51	267.69														1078.50	944.32
	Other Nonroad Sources																	
2275001000	Military Aviation	52.84		7.62	2.76	0.00	9.97		23.13		9.38						32.51	20.34
2275020000	Commercial Aviation	36.50						9.70	13.40	13.40							36.50	0.00
2275050000	General Aviation	13.43		0.14	1.80	0.80	0.88			4.95	0.66				4.19		9.81	3.62
2275060000	Air Taxi	0.22		0.00	0.02	0.06	0.01			0.03	0.00				0.10		0.13	0.09
2275070000	Aircraft Auxiliary Power Units	0.02						0.01	0.01	0.01							0.02	0.00
2285002005	Railroad Locomotives	26.26			11.95	8.00	6.31										0.00	26.26
2285002006	Railroad Locomotives	144.59	1.97						0.43	18.34				63.37	43.02	17.46	142.63	0.00
2285002008	Railroad Locomotives	2.02	2.02														0.00	0.00
2285002009	Railroad Locomotives	1.65	1.65														0.00	0.00
2285002010	Railroad Locomotives	51.41	5.54		7.88	1.68			0.10	4.67				16.13	10.95	4.45	36.30	9.56
	Other Nonroad Sources Total	328.95	11.18	7.76	24.40	10.54	17.17	9.71	37.07	41.40	10.04	0.00	0.00	79.50	58.26	21.91	257.89	59.87
	2002 Nonroad Source Total	2619.46	278.87	7.76	24.40	10.54	17.17	9.71	37.07	41.40	10.04	0.00	0.00	79.50	58.26	21.91	1336.39	1004.19

**2009 Controlled Emission Inventory for the Metropolitan Washington Nonattainment Area
PM2.5
Area and Nonroad Source Emissions by Jurisdiction (tons/year)**

SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total
	Area Source																	
2102002000	Coal Combustion - Industrial	254.56						23.44	14.72	118.44	1.08	2.48	52.13	27.99	13.20	1.08	254.56	0.00
2102004000	Industrial Distillate Oil Combustion	13.41		0.83	1.02	1.56	1.45	0.79	0.50	3.98	0.03	0.08	1.74	0.94	0.45	0.04	8.54	4.87
2102005000	Industrial Residual Oil Combustion	25.11		4.92	6.04	5.68	5.30	0.29	0.18	1.46	0.01	0.03	0.65	0.35	0.16	0.01	3.16	21.95
2102006000	Natural Gas Combustion - Industrial	220.11						20.27	12.74	102.41	0.93	2.13	45.07	24.21	11.41	0.93	220.11	0.00
2102007000	Liquid Propane Combustion - Industrial	22.62						2.08	1.31	10.53	0.10	0.22	4.63	2.49	1.17	0.09	22.62	0.00
2103002000	Commercial/Institutional Coal Combustion	26.30	8.80	2.04	4.08	6.12	2.04	0.51	0.30	1.72	0.06	0.05	0.25	0.26	0.07	0.01	3.23	14.27
2103004000	Commercial/Institutional Distillate Oil Combustion	210.05	47.10	4.39	5.39	8.20	7.66	20.26	12.16	70.89	2.42	2.08	14.12	12.52	2.56	0.31	137.31	25.64
2103005000	Commercial/Institutional Residual Oil Combustion	14.16		0.37	0.45	0.47	0.43	1.84	1.11	6.43	0.21	0.18	1.27	1.13	0.23	0.03	12.44	1.72
2103006000	Commercial/Institutional Natural Gas Combustion	216.40	68.89	0.95	2.12	24.94	22.97	14.24	8.55	49.83	1.70	1.46	9.92	8.80	1.80	0.22	96.52	50.98
2103007000	Commercial/Institutional LPG Combustion = All Combustor Types	0.54		0.08	0.12	0.17	0.18										0.00	0.54
2103011000	Commercial/Institutional Kerosene Combustion	1.83		0.32	0.39	0.59	0.54										0.00	1.83
2104002000	Residential Coal Combustion	14.82	2.42	0.00	0.33	0.33	0.35	1.15	0.78	5.98	0.14	0.06	1.18	1.82	0.21	0.06	11.38	1.02
2104004000	Residential Distillate Oil Combustion	140.90	9.78	7.85	9.51	14.43	13.79	8.02	5.46	42.25	0.93	0.46	11.30	15.06	1.46	0.61	85.53	45.58
2104006000	Residential Natural Gas Combustion	490.25	61.68	2.87	6.43	73.77	64.32	26.34	17.96	138.87	3.06	1.52	37.14	49.51	4.80	1.98	281.18	147.38
2104007000	Residential LPG Combustion	3.14	0.02	0.45	0.68	0.95	1.03										0.00	3.12
2104008001	Residential Wood Combustion: Fireplaces: General	337.33	13.81	21.74	49.65	67.63	98.59	15.78	2.20	40.85	2.35	1.36	7.31	12.38	2.58	1.11	85.92	237.60
2104008002	Residential Wood Combustion: Fireplaces: Insert; Non-EPA Certified	833.00	41.39					81.11	11.34	446.13	12.11	6.97	79.73	135.28	13.24	5.70	791.61	0.00
2104008003	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Non-Catalytic	33.07	1.64					3.22	0.45	17.71	0.48	0.28	3.17	5.36	0.52	0.22	31.42	0.00
2104008004	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Catalytic	13.89	0.69					1.36	0.19	7.44	0.20	0.12	1.33	2.26	0.22	0.09	13.20	0.00
2104008010	Residential Wood Combustion: Woodstoves: General	2269.72	29.59	61.53	122.19	256.01	411.97	70.28	9.82	860.60	10.49	6.05	153.81	260.95	11.46	4.95	1388.42	851.71
2104008030	Residential Wood Combustion: Catalytic Woodstoves: General	58.07	0.49	2.49	4.94	10.35	16.66	1.18	0.17	14.35	0.17	0.09	2.56	4.34	0.19	0.08	23.13	34.45
2104008050	Residential Wood Combustion: Non-Catalytic Woodstoves: EPA Certified	130.34	1.17	5.35	10.63	22.26	35.82	2.79	0.40	34.16	0.42	0.23	6.10	10.35	0.46	0.20	55.10	74.06
2104008053	Residential Wood Combustion: Non-Catalytic Woodstoves: Pellet Fired	5.53		1.29	3.00	0.53	0.71										0.00	5.53
2104008060	Residential Wood Combustion - Outdoor Boilers & Furnaces	29.52		6.89	16.14	2.78	3.71										0.00	29.52
2104008070	Residential Wood Combustion: Outdoor Fireplaces, Chimineas	249.74		19.79	33.05	104.22	92.69										0.00	249.74
2104009000	Residential Firelog: Total: All Combustor Types	33.20		3.04	6.94	9.45	13.78										0.00	33.20
2104011000	Residential Kerosene Combustion	3.22		0.56	0.67	1.01	0.97										0.00	3.22
2199008000	Total Area Source Fuel Combustion: Wood - All Boiler Types	6.88		1.61	3.76	0.65	0.86										0.00	6.88
2294000000	Mobile: All Paved Roads - Total: Fugitives	972.60		157.09	169.46	135.91	83.07	18.55	15.80	165.83	3.49	0.90	121.61	93.59	6.46	0.83	427.07	545.53
2296000000	Mobile: All Unpaved Roads - Total: Fugitives	420.33		2.89	14.30	7.34	6.55	75.12	0.00	0.00	0.00	0.00	131.35	182.78	0.00	0.00	389.25	31.09
2302002100	Industrial Processes: Commercial Cooking - ConveyORIZED Charbroiling	85.00	27.36	3.09	6.58	26.29	21.69										0.00	57.65
2302002200	Industrial Processes: Commercial Cooking - Under-Fired Charbroiling	588.68	197.96	20.9883183	40.3583606	190.4213478	138.956387										0.00	390.72
2302003100	Industrial Processes: Commercial Cooking - Flat Griddle Frying	78.97		4.22351314	8.425781316	38.80229504	27.5229201										0.00	78.97
2302003200	Industrial Processes: Commercial Cooking - Clamshell Griddle Frying	6.46		0.33544549	0.666265795	2.931149594	2.52393929										0.00	6.46
2311010000	Industrial Processes: Total Residential Construction	144.02		7.08	7.46	17.23	11.63	0.61	3.60	19.56	0.27	0.01	60.56	14.73	0.24	1.05	100.62	43.40
2311020000	Industrial Processes: Total Industrial/Commercial/Institutional Construction	973.52		8.74	37.59	279.98	160.65	24.48	24.48	222.45	8.06	16.89	155.14	16.94	18.12	0.00	486.56	486.96
2311030000	Industrial Processes: Total Road Construction	1677.59		112.37	122.24	349.38	179.51	5.46	26.85	170.40	3.12	0.08	552.76	141.96	2.66	10.80	914.09	763.50
2325000000	Industrial Processes: Mining And Quarrying - All Processes Total	293.94						48.99	48.99	48.99	48.99	0.00	48.99	48.99	0.00	0.00	293.94	0.00

**2009 Controlled Emission Inventory for the Metropolitan Washington Nonattainment Area
PM2.5
Area and Nonroad Source Emissions by Jurisdiction (tons/year)**

SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total	
2601000000	Incineration - Total	25.95		0.00	11.90	12.50	1.55										0.00	25.95	
2601010000	Incineration - Industrial	41.04						4.16	2.61	20.40	0.18	0.41	6.61	4.13	2.38	0.16	41.04	0.00	
2601020000	Incineration - Commercial/Institutional	95.03						9.60	6.55	49.83	1.15	0.52	9.84	15.17	1.77	0.60	95.03	0.00	
2601030000	Incineration - Residential	0.00																0.00	0.00
2610000100	Open Burning - All Categories - Yard Waste - Leaf Species Unspecified	30.71		5.39	9.55	5.37	0.18	0.00	0.00	0.00	0.00	0.00	10.22	0.00	0.00	0.00	10.22	20.49	
2610000400	Open Burning - All Categories - Yard Waste - Brush Species Unspecified	17.95		3.58	6.35	3.57	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	0.00	0.00	4.45	13.50	
2610000500	Open Burning - All Categories - Land Clearing Debris	3385.16		285.76	663.24	1791.34	644.82										0.00	3385.16	
2610030000	Open Burning - Residential - Household Waste - (Says Use Other ScCs)	38.29		12.53	20.93	4.82	0.00										0.00	38.29	
2801000003	Agriculture Production - Crops Tilling	575.47		62.28	233.25	81.31	28.08	3.11		150.94			16.51				170.56	404.91	
2805001000	Agriculture Production - Livestock, Beef Cattle, Feedlots, Dust Kicked-Up By Hooves	60.00						5.06		45.51			9.43				60.00	0.00	
2810001000	Forest Fires	27.12		12.55	2.49	7.84	3.88						0.06	0.30			0.36	26.76	
2810014000	Prescribed Burning	115.23						0.01	0.01	32.41			42.14	40.60	0.04	0.02	115.23	0.00	
2810015000	Prescribed Burning	2.42	0.00	1.77			0.65										0.00	2.42	
2810030000	Structural Fires	42.69	6.38	1.08	1.46	1.92	9.24	5.16	3.37	4.00	0.05	0.30	0.47	8.73	0.28	0.27	22.62	13.69	
2810050000	Motor Vehicle Fires	23.24		1.14	1.52	4.08	16.49										0.00	23.24	
	2002 Area Source Total	15379.13	519.19	852.24	1645.29	3573.14	2132.83	495.24	232.59	2904.34	102.22	44.96	1603.58	1143.93	98.13	31.45	6656.44	8203.50	
	Nonroad Model Source																		
	Agricultural Equipment	39.46	0.00	3.12	16.60	6.04	2.36	0.00	0.00	0.28	0.00	0.00	8.82	2.24	0.00	0.00	11.34	28.12	
	Airport Equipment	28.72	0.00	0.00	0.00	0.01	0.00	12.60	0.00	8.05	0.00	0.00	8.05	0.00	0.01	0.00	28.71	0.01	
	Commercial Equipment	89.25	7.65	1.72	5.30	19.96	15.25	2.15	2.79	23.02	1.31	0.43	4.51	3.49	1.22	0.45	39.37	42.23	
	Construction and Mining Equipment	999.87	180.04	37.50	45.00	126.63	144.62	89.49	0.00	144.05	0.00	0.00	138.22	94.31	0.00	0.00	466.07	353.76	
	Industrial Equipment	81.99	9.58	1.92	6.63	16.89	14.09	2.24	2.12	16.61	0.41	0.24	4.83	4.49	1.70	0.23	32.88	39.53	
	Lawn and Garden Equipment (Com)	543.15	1.79	5.87	35.68	140.92	68.85	6.53	8.66	145.46	5.09	3.50	76.84	39.32	1.32	3.31	290.04	251.31	
	Lawn and Garden Equipment (Res)	72.60	11.04	1.89	3.16	13.98	12.51	3.72	2.70	15.08	0.31	0.19	3.01	4.37	0.50	0.15	30.02	31.53	
	Logging Equipment	1.91	0.00	0.87	0.12	0.09	0.35	0.00	0.00	0.06	0.00	0.00	0.35	0.06	0.00	0.00	0.47	1.44	
	Pleasure Craft	27.86	5.14	11.09	1.22	3.05	3.46	0.00	0.00	2.08	0.00	0.00	0.25	1.57	0.00	0.00	3.90	18.82	
	Railroad Equipment	2.17	0.13	0.00	0.42	0.27	0.18	0.05	0.18	0.34	0.00	0.00	0.00	0.46	0.08	0.04	1.15	0.88	
	Recreational Equipment	44.91	1.97	6.16	6.26	12.48	6.23	0.03	0.00	5.09	0.02	0.00	1.69	4.98	0.00	0.00	11.81	31.13	
	Nonroad Model Source	1931.87	217.35	70.14	120.40	340.32	267.90	116.82	16.44	360.10	7.14	4.36	246.58	155.30	4.83	4.19	915.77	798.76	
	Other Nonroad Sources																		
2275001000	Military Aviation	52.84		7.62	2.76	0.00	9.97		23.13		9.38						32.51	20.34	
2275020000	Commercial Aviation	36.50						9.70	13.40	13.40							36.50	0.00	
2275050000	General Aviation	13.43		0.14	1.80	0.80	0.88			4.95	0.66				4.19		9.81	3.62	
2275060000	Air Taxi	0.22		0.00	0.02	0.06	0.01			0.03	0.00				0.10		0.13	0.09	
2275070000	Aircraft Auxiliary Power Units	0.02						0.01	0.01	0.01							0.02	0.00	
2285002005	Railroad Locomotives	22.28			10.14	6.79	5.36										0.00	22.28	
2285002006	Railroad Locomotives	122.69	1.67						0.37	15.57				53.77	36.50	14.82	121.02	0.00	
2285002008	Railroad Locomotives	1.72	1.72														0.00	0.00	
2285002009	Railroad Locomotives	1.40	1.40														0.00	0.00	
2285002010	Railroad Locomotives	43.62	4.70		6.69	1.43			0.09	3.96				13.68	9.29	3.77	30.80	8.11	
	Other Nonroad Sources Total	294.72	9.49	7.76	21.40	9.07	16.21	9.71	36.99	37.91	10.04	0.00	0.00	67.46	50.09	18.59	230.79	54.44	
	2002 Nonroad Source Total	2226.59	226.84	77.90	141.79	349.39	284.11	126.53	53.43	398.01	17.18	4.36	246.58	222.76	54.92	22.78	1146.55	853.20	

**2009 Uncontrolled Emission Inventory for the Metropolitan Washington Nonattainment Area
Nitrogen Dioxide (NOx)
Area and Nonroad Source Emissions by Jurisdiction (tons/year)**

SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total
	Area Source																	
2102002000	Coal Combustion - Industrial	2359.36	0.00	0.00	0.00	0.00	0.00	217.27	136.50	1097.67	10.05	22.93	483.12	259.48	122.35	10.00	2359.36	0.00
2102004000	Industrial Distillate Oil Combustion	265.37	2.01	10.76	13.19	20.10	18.75	18.47	11.60	93.30	0.85	1.95	41.06	22.06	10.40	0.85	200.54	62.81
2102005000	Industrial Residual Oil Combustion	247.60	0.00	19.77	24.25	36.96	34.46	12.17	7.65	61.49	0.56	1.29	27.06	14.53	6.85	0.56	132.16	115.44
2102006000	Natural Gas Combustion - Industrial	675.48	0.00	0.00	0.00	0.00	0.00	62.20	39.08	314.26	2.88	6.57	138.32	74.29	35.03	2.86	675.48	0.00
2102007000	Liquid Propane Combustion - Industrial	28.71	0.16	0.00	0.00	0.00	0.00	10.21	2.22	1.35	0.16	0.37	7.86	4.22	1.99	0.16	28.55	0.00
2103002000	Commercial/Institutional Coal Combustion.	210.17	33.00	4.29	8.58	12.87	4.29	23.14	13.87	78.44	2.79	2.25	11.51	11.86	2.98	0.29	147.14	30.03
2103004000	Commercial/Institutional Distillate Oil Combustion.	981.64	141.04	41.22	50.57	77.04	71.86	88.54	53.12	309.69	10.58	9.08	61.66	54.69	11.20	1.33	599.90	240.69
2103005000	Commercial/Institutional Residual Oil Combustion.	175.49	0.00	3.13	3.83	5.85	5.46	23.20	13.92	81.17	2.77	2.38	16.16	14.33	2.94	0.35	157.22	18.27
2103006000	Commercial/Institutional Natural Gas Combustion.	2811.97	682.59	11.79	26.18	308.48	284.11	221.20	132.72	773.75	26.42	22.70	154.05	136.65	27.99	3.34	1498.82	630.56
2103007000	Commercial/Institutional LPG Combustion = All Combustor Types.	88.43	0.00	1.98	3.00	4.26	4.50	11.02	6.61	38.55	1.32	1.13	7.67	6.81	1.39	0.17	74.67	13.75
2103007005	Commercial/Institutional LPG Combustion = All Boiler Types.	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2103011000	Commercial/Institutional Kerosene Combustion.	17.13	0.00	2.93	3.60	5.49	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.13
2104002000	Residential Coal Combustion.	17.40	4.55	0.00	0.62	0.62	0.67	1.11	0.76	5.74	0.13	0.06	1.13	1.75	0.20	0.07	10.94	1.91
2104004000	Residential Distillate Oil Combustion.	1143.64	143.83	66.41	80.40	121.90	116.54	57.56	39.25	303.50	6.70	3.32	81.19	108.22	10.50	4.33	614.56	385.25
2104006000	Residential Natural Gas Combustion.	3563.50	704.18	35.52	79.48	912.36	795.49	97.07	66.19	511.86	11.31	5.60	136.92	182.51	17.70	7.31	1036.46	1822.85
2104007000	Residential LPG Combustion.	361.35	0.24	11.40	17.05	24.06	26.06	26.46	18.04	139.53	3.08	1.53	37.32	49.75	4.83	1.99	282.53	78.57
2104008000	Residential Wood Combustion.	233.83	0.00	0.00	0.00	0.00	0.00	18.76	12.79	98.93	2.19	1.08	39.78	53.03	5.14	2.12	233.83	0.00
2104008001	Residential Wood Combustion: Fireplaces: General	24.04	1.52	2.06	4.71	6.41	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.52
2104008002	Residential Wood Combustion: Fireplaces: Insert; Non-EPA Certified	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2104008004	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Catalytic	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2104008010	Residential Wood Combustion: Woodstoves: General	67.22	2.71	4.66	9.25	19.39	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.51
2104008030	Residential Wood Combustion: Catalytic Woodstoves: General	4.16	0.05	0.30	0.59	1.24	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12
2104008050	Residential Wood Combustion: Non-Catalytic Woodstoves: EPA Certified	11.24	0.00	0.81	1.61	3.38	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.24
2104008053	Residential Wood Combustion: Non-Catalytic Woodstoves: Pellet Fired	6.86	0.00	1.60	3.72	0.66	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86
2104008060	Residential Wood Combustion - Outdoor Boilers & Furnaces	2.22	0.00	0.52	1.21	0.21	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22
2104008070	Residential Wood Combustion: Outdoor Fireplaces, Chimineas.	76.09	57.32	1.49	2.48	7.83	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.77
2104009000	Residential Firelog: Total: All Combustor Types	4.45	0.00	0.41	0.93	1.27	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45
2104011000	Residential Kerosene Combustion	27.28	0.00	4.70	5.70	8.63	8.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.28
2199008000	Total Area Source Fuel Combustion: Wood - All Boiler Types	0.46	0.00	0.11	0.25	0.04	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
2601000000	Incineration - Total	961.45	0.00	0.26	5.78	937.51	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	961.45
2601010000	Incineration - Industrial	23.02	0.00	0.00	0.00	0.00	0.00	2.33	1.47	11.43	0.11	0.23	3.71	2.31	1.34	0.09	23.02	0.00
2601020000	Incineration - Commercial/Institutional	148.82	0.00	0.00	0.00	0.00	0.00	15.03	10.27	78.02	1.80	0.82	15.41	23.76	2.78	0.94	148.82	0.00
2601030000	Incineration - Residential	7.63	0.00	0.00	0.00	0.00	0.00	0.77	0.53	4.00	0.09	0.04	0.79	1.22	0.14	0.05	7.63	0.00
2610000100	Open Burning - All Categories - Yard Waste - Leaf Species Unspecified	5.77	0.00	1.52	2.69	1.51	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.77
2610020000	Open Burning - Commercial/Institutional - Total	64.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.49	0.00	0.00	24.17	9.02	0.00	0.00	64.68	0.00
2610000400	Open Burning - All Categories - Yard Waste - Brush Species Unspecified	4.44	0.00	1.18	2.09	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44
2610000500	Open Burning - All Categories - Land Clearing Debris	995.63	0.00	84.05	195.07	526.87	189.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	995.63
2610030000	Open Burning - Residential - Household Waste - (Says Use Other ScCs)	13.42	0.00	4.39	7.34	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.42
2620030000	Solid Waste Landfills.	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.26	0.00
2810001000	Forest Fires	6.39	0.00	2.95	0.59	1.85	0.91	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.09	6.30
2810014000	Prescribed Burning.	0.36						0.00	0.00	0.04	0.00	0.00	0.00	0.32	0.00	0.00	0.36	0.00
2810030000	Structural Fires.	7.26	0.91	0.15	0.21	0.27	1.32	1.00	0.65	0.78	0.01	0.06	0.10	1.69	0.05	0.05	4.40	1.95

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Nitrogen Dioxide (NOx)
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SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total	
2810050000	Motor Vehicle Fires	1.02	0.00	0.05	0.07	0.18	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
	2002 Area Source Total	15649.25	1778.14	320.41	555.05	3050.11	1644.11	907.51	567.23	4034.97	83.81	83.39	1289.28	1032.57	265.81	36.87	8301.43	5569.68	
	Nonroad Model Source	23441.60	3140.64														10912.76	9388.19	
	Other Nonroad Sources																		
2275001000	Military Aviation	686.99	0.00	4.58	1.66	0.00	6.00	636.30	0.00	26.82	0.00	0.00	0.00	11.64	0.00	0.00	674.76	12.23	
2275020000	Commercial Aviation	1471.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	735.60	0.00	0.00	735.60	0.00	0.00	0.00	1471.20	0.00	
2275050000	General Aviation	17.03	0.00	0.47	5.83	2.59	2.87	0.00	0.00	0.00	0.00	0.00	2.66	0.36	2.25	0.00	5.27	11.76	
2275060000	Air Taxi	9.39	0.00	0.02	0.16	0.49	0.06	8.40	0.00	0.00	0.00	0.00	0.06	0.00	0.21	0.00	8.67	0.72	
2275070000	Aircraft Auxiliary Power Units	91.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.80	0.00	0.00	45.80	0.00	0.00	0.00	91.60	0.00	
2285002005	Railroad Locomotives	973.90	0.00	0.00	443.12	296.68	234.10										0.00	973.90	
2285002006	Railroad Locomotives	1336.91	99.04	0.00	0.00	0.00	0.00	3.71	159.28	0.00	0.00	0.00	0.00	549.96	373.28	151.63	1237.86	0.00	
2285002008	Railroad Locomotives	93.55	93.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2285002009	Railroad Locomotives	76.44	76.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2285002010	Railroad Locomotives	792.56	220.40	0.00	217.81	46.43	0.00	0.92	39.62	0.00	0.00	0.00	0.00	136.81	92.86	37.72	307.93	264.24	
	Other Nonroad Sources Total	5549.57	489.43	5.06	668.58	346.19	243.03	8.40	4.63	1007.12	0.00	0.00	784.12	698.76	468.60	189.35	3797.28	1262.86	
	2002 Nonroad Source Total	28991.17	3630.08	5.06	668.58	346.19	243.03	8.40	4.63	1007.12	0.00	0.00	784.12	698.76	468.60	189.35	14710.05	10651.04	

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	Area Source																	
2102002000	Coal Combustion - Industrial	2359.36	0.00	0.00	0.00	0.00	0.00	217.27	136.50	1097.67	10.05	22.93	483.12	259.48	122.35	10.00	2359.36	0.00
2102004000	Industrial Distillate Oil Combustion	265.37	2.01	10.76	13.19	20.10	18.75	18.47	11.60	93.30	0.85	1.95	41.06	22.06	10.40	0.85	200.54	62.81
2102005000	Industrial Residual Oil Combustion	247.60	0.00	19.77	24.25	36.96	34.46	12.17	7.65	61.49	0.56	1.29	27.06	14.53	6.85	0.56	132.16	115.44
2102006000	Natural Gas Combustion - Industrial	675.48	0.00	0.00	0.00	0.00	0.00	62.20	39.08	314.26	2.88	6.57	138.32	74.29	35.03	2.86	675.48	0.00
2102007000	Liquid Propane Combustion - Industrial	28.71	0.16	0.00	0.00	0.00	0.00	10.21	2.22	1.35	0.16	0.37	7.86	4.22	1.99	0.16	28.55	0.00
2103002000	Commercial/Institutional Coal Combustion.	210.17	33.00	4.29	8.58	12.87	4.29	23.14	13.87	78.44	2.79	2.25	11.51	11.86	2.98	0.29	147.14	30.03
2103004000	Commercial/Institutional Distillate Oil Combustion.	981.64	141.04	41.22	50.57	77.04	71.86	88.54	53.12	309.69	10.58	9.08	61.66	54.69	11.20	1.33	599.90	240.69
2103005000	Commercial/Institutional Residual Oil Combustion.	175.49	0.00	3.13	3.83	5.85	5.46	23.20	13.92	81.17	2.77	2.38	16.16	14.33	2.94	0.35	157.22	18.27
2103006000	Commercial/Institutional Natural Gas Combustion.	2811.97	682.59	11.79	26.18	308.48	284.11	221.20	132.72	773.75	26.42	22.70	154.05	136.65	27.99	3.34	1498.82	630.56
2103007000	Commercial/Institutional LPG Combustion = All Combustor Types.	88.43	0.00	1.98	3.00	4.26	4.50	11.02	6.61	38.55	1.32	1.13	7.67	6.81	1.39	0.17	74.67	13.75
2103007005	Commercial/Institutional LPG Combustion = All Boiler Types.	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2103011000	Commercial/Institutional Kerosene Combustion.	17.13	0.00	2.93	3.60	5.49	5.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.13
2104002000	Residential Coal Combustion.	17.40	4.55	0.00	0.62	0.62	0.67	1.11	0.76	5.74	0.13	0.06	1.13	1.75	0.20	0.07	10.94	1.91
2104004000	Residential Distillate Oil Combustion.	1143.64	143.83	66.41	80.40	121.90	116.54	57.56	39.25	303.50	6.70	3.32	81.19	108.22	10.50	4.33	614.56	385.25
2104006000	Residential Natural Gas Combustion.	3563.50	704.18	35.52	79.48	912.36	795.49	97.07	66.19	511.86	11.31	5.60	136.92	182.51	17.70	7.31	1036.46	1822.85
2104007000	Residential LPG Combustion.	361.35	0.24	11.40	17.05	24.06	26.06	26.46	18.04	139.53	3.08	1.53	37.32	49.75	4.83	1.99	282.53	78.57
2104008000	Residential Wood Combustion.	233.83	0.00	0.00	0.00	0.00	0.00	18.76	12.79	98.93	2.19	1.08	39.78	53.03	5.14	2.12	233.83	0.00
2104008001	Residential Wood Combustion: Fireplaces: General	24.04	1.52	2.06	4.71	6.41	9.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.52
2104008002	Residential Wood Combustion: Fireplaces: Insert; Non-EPA Certified	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2104008004	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Catalytic	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2104008010	Residential Wood Combustion: Woodstoves: General	67.22	2.71	4.66	9.25	19.39	31.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.51
2104008030	Residential Wood Combustion: Catalytic Woodstoves: General	4.16	0.05	0.30	0.59	1.24	1.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12
2104008050	Residential Wood Combustion: Non-Catalytic Woodstoves: EPA Certified	11.24	0.00	0.81	1.61	3.38	5.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.24
2104008053	Residential Wood Combustion: Non-Catalytic Woodstoves: Pellet Fired	6.86	0.00	1.60	3.72	0.66	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.86
2104008060	Residential Wood Combustion - Outdoor Boilers & Furnaces	2.22	0.00	0.52	1.21	0.21	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22
2104008070	Residential Wood Combustion: Outdoor Fireplaces, Chimineas.	76.09	57.32	1.49	2.48	7.83	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.77
2104009000	Residential Firelog: Total: All Combustor Types	4.45	0.00	0.41	0.93	1.27	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.45
2104011000	Residential Kerosene Combustion.	27.28	0.00	4.70	5.70	8.63	8.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.28
2199008000	Total Area Source Fuel Combustion: Wood - All Boiler Types	0.46	0.00	0.11	0.25	0.04	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
2601000000	Incineration - Total	961.45	0.00	0.26	5.78	937.51	17.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	961.45
2601010000	Incineration - Industrial	23.02	0.00	0.00	0.00	0.00	0.00	2.33	1.47	11.43	0.11	0.23	3.71	2.31	1.34	0.09	23.02	0.00
2601020000	Incineration - Commercial/Institutional	148.82	0.00	0.00	0.00	0.00	0.00	15.03	10.27	78.02	1.80	0.82	15.41	23.76	2.78	0.94	148.82	0.00
2601030000	Incineration - Residential	7.63	0.00	0.00	0.00	0.00	0.00	0.77	0.53	4.00	0.09	0.04	0.79	1.22	0.14	0.05	7.63	0.00
2610000100	Open Burning - All Categories - Yard Waste - Leaf Species Unspecified	5.77	0.00	1.52	2.69	1.51	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.77
2610020000	Open Burning - Commercial/Institutional - Total	64.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.49	0.00	0.00	24.17	9.02	0.00	0.00	64.68	0.00
2610000400	Open Burning - All Categories - Yard Waste - Brush Species Unspecified	4.44	0.00	1.18	2.09	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44
2610000500	Open Burning - All Categories - Land Clearing Debris	995.63	0.00	84.05	195.07	526.87	189.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	995.63
2610030000	Open Burning - Residential - Household Waste - (Says Use Other ScCs)	13.42	0.00	4.39	7.34	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.42
2620030000	Solid Waste Landfills.	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.26	0.00
2810001000	Forest Fires	6.39	0.00	2.95	0.59	1.85	0.91	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.00	0.00	0.09	6.30
2810014000	Prescribed Burning.	0.36						0.00	0.00	0.04	0.00	0.00	0.00	0.32	0.00	0.00	0.36	0.00
2810030000	Structural Fires.	7.26	0.91	0.15	0.21	0.27	1.32	1.00	0.65	0.78	0.01	0.06	0.10	1.69	0.05	0.05	4.40	1.95

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2810050000	Motor Vehicle Fires	1.02	0.00	0.05	0.07	0.18	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02
	2002 Area Source Total	15649.25	1778.14	320.41	555.05	3050.11	1644.11	907.51	567.23	4034.97	83.81	83.39	1289.28	1032.57	265.81	36.87	8301.43	5569.68	
	Nonroad Model Source																		
	Agricultural Equipment	437.76	0.00	34.61	184.19	67.00	26.19	0.00	0.00	3.05	0.00	0.00	97.83	24.88	0.00	0.00	125.77	311.99	
	Airport Equipment	451.35	0.00	0.00	0.04	0.08	0.01	108.40	0.00	171.35	0.00	0.00	171.35	0.00	0.12	0.00	451.22	0.13	
	Commercial Equipment	1229.22	105.27	23.72	73.02	274.91	210.01	29.64	38.38	317.02	18.10	5.93	62.09	48.05	16.85	6.24	542.31	581.65	
	Construction and Mining Equipment	11857.45	2134.94	444.75	533.74	1501.87	1715.18	1061.26	0.00	1708.23	0.00	0.00	1639.08	1118.39	0.00	0.00	5526.96	4195.54	
	Industrial Equipment	1691.74	191.25	35.41	166.47	354.19	281.98	34.31	41.52	328.79	8.59	5.46	111.62	81.20	45.77	5.16	662.42	838.06	
	Lawn and Garden Equipment (Com)	2551.25	8.40	27.55	167.53	661.69	323.29	30.66	40.66	683.00	24.77	16.44	360.83	184.64	6.22	15.55	1362.78	1180.07	
	Lawn and Garden Equipment (Res)	514.07	78.16	13.36	22.34	98.94	88.57	26.33	19.10	106.71	2.39	1.35	21.28	30.96	3.53	1.05	212.70	223.21	
	Logging Equipment	16.45	0.00	7.50	1.05	0.80	3.05	0.00	0.00	0.51	0.00	0.00	3.04	0.50	0.00	0.00	4.05	12.40	
	Pleasure Craft	320.22	62.67	157.77	9.58	23.95	27.15	0.00	0.00	20.43	0.00	0.00	2.13	16.54	0.00	0.00	39.10	218.45	
	Railroad Equipment	18.13	1.11	0.03	3.53	2.30	1.50	0.44	1.47	2.86	0.00	0.00	0.00	3.85	0.67	0.35	9.65	7.37	
	Recreational Equipment	93.00	9.04	8.64	12.14	23.23	11.09	1.05	0.00	13.32	0.70	0.00	4.32	9.46	0.00	0.00	28.86	55.10	
	Nonroad Model Source	19180.63	2590.84	753.33	1173.64	3008.98	2688.02	1292.10	141.13	3355.29	54.55	29.18	2473.59	1518.47	73.16	28.34	8965.82	7623.98	
	Other Nonroad Sources																		
2275001000	Military Aviation	50.69	0.00	4.58	1.66	0.00	6.00	0.00	0.00	26.82	0.00	0.00	0.00	11.64	0.00	0.00	38.46	12.23	
2275020000	Commercial Aviation	2107.50	0.00	0.00	0.00	0.00	0.00	636.30	0.00	735.60	0.00	0.00	735.60	0.00	0.00	0.00	2107.50	0.00	
2275050000	General Aviation	17.03	0.00	0.47	5.83	2.59	2.87	0.00	0.00	0.00	0.00	0.00	2.66	0.36	2.25	0.00	5.27	11.76	
2275060000	Air Taxi	0.99	0.00	0.02	0.16	0.49	0.06	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.21	0.00	0.27	0.72	
2275070000	Aircraft Auxiliary Power Units	100.00	0.00	0.00	0.00	0.00	0.00	8.40	0.00	45.80	0.00	0.00	45.80	0.00	0.00	0.00	100.00	0.00	
2285002005	Railroad Locomotives	658.75	0.00	0.00	299.73	200.67	158.35	0.00	0.00	0.00	0.00	0.00	0.00	371.99	252.49	102.56	837.29	0.00	
2285002006	Railroad Locomotives	904.29	66.99	0.00	0.00	0.00	0.00	0.00	2.51	107.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2285002008	Railroad Locomotives	63.28	63.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2285002009	Railroad Locomotives	51.70	51.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2285002010	Railroad Locomotives	536.09	149.08	0.00	147.32	31.41	0.00	0.00	0.62	26.80	0.00	0.00	0.00	92.54	62.81	25.51	208.28	178.73	
	Other Nonroad Sources Total	4490.31	331.05	5.06	454.70	235.16	167.27	644.70	3.13	942.76	0.00	0.00	784.12	476.52	317.76	128.08	3297.07	862.19	
	2002 Nonroad Source Total	23670.94	2921.89	758.40	1628.34	3244.13	2855.30	1936.80	144.26	4298.05	54.55	29.18	3257.71	1995.00	390.92	156.42	12262.88	8486.17	

**2009 Uncontrolled Emission Inventory for the Metropolitan Washington Nonattainment Area
Sulfur Dioxide (SO2)
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SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total
	Area Source																	
2102002000	Coal Combustion - Industrial	9576.23	0.00	0.00	0.00	0.00	0.00	881.84	554.03	4455.25	40.79	93.07	1960.90	1053.19	496.59	40.58	9576.23	0.00
2102004000	Industrial Distillate Oil Combustion	147.75	0.00	23.24	28.50	43.43	40.51	1.11	0.69	5.62	0.05	0.11	2.47	1.33	0.63	0.05	12.07	135.68
2102005000	Industrial Residual Oil Combustion	635.46	0.00	114.33	140.24	106.83	99.64	16.06	10.09	81.17	0.74	1.69	35.71	19.19	9.04	0.73	174.42	461.04
2102006000	Natural Gas Combustion - Industrial	5.33	0.00	0.00	0.00	0.00	0.00	0.49	0.30	2.48	0.02	0.06	1.09	0.59	0.28	0.03	5.33	0.00
2103002000	Commercial/Institutional Coal Combustion.	892.14	114.00	34.83	69.66	104.49	34.83	84.03	50.36	284.86	10.14	8.18	41.82	43.07	10.82	1.07	534.33	243.81
2103004000	Commercial/Institutional Distillate Oil Combustion.	525.05	0.00	89.05	109.23	166.41	155.21	0.76	0.46	2.67	0.09	0.08	0.53	0.47	0.10	0.01	5.16	519.90
2103005000	Commercial/Institutional Residual Oil Combustion.	723.93	0.00	18.09	22.20	16.91	15.76	96.11	57.66	336.14	11.45	9.83	66.87	59.32	12.16	1.44	650.98	72.96
2103006000	Commercial/Institutional Natural Gas Combustion.	17.27	4.09	0.08	0.17	1.97	1.81	1.35	0.81	4.72	0.16	0.14	0.94	0.83	0.17	0.03	9.16	4.02
2103007000	Commercial/Institutional LPG Combustion - All Combustor Types.	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
2103011000	Commercial/Institutional Kerosene Combustion.	36.99	0.00	6.33	7.77	11.84	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.99
2104002000	Residential Coal Combustion.	29.70	15.50	0.00	4.24	4.24	4.54	0.12	0.08	0.62	0.01	0.01	0.12	0.19	0.02	0.01	1.18	13.02
2104004000	Residential Distillate Oil Combustion.	1298.11	340.41	159.41	192.97	292.56	279.69	3.10	2.11	16.33	0.36	0.18	4.37	5.82	0.57	0.24	33.08	924.63
2104006000	Residential Natural Gas Combustion.	22.33	4.49	0.23	0.51	5.82	5.08	0.58	0.40	3.07	0.06	0.04	0.82	1.09	0.11	0.04	6.21	11.64
2104007000	Residential LPG Combustion.	0.12	0.00	0.02	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
2104008001	Residential Wood Combustion: Fireplaces: General	6.27	0.23	0.28	0.65	0.88	1.29	0.54	0.08	1.39	0.07	0.05	0.24	0.43	0.09	0.04	2.93	3.11
2104008002	Residential Wood Combustion: Fireplaces: Insert; Non-EPA Certified	10.90	0.54	0.00	0.00	0.00	0.00	1.06	0.14	5.84	0.16	0.09	1.05	1.77	0.17	0.08	10.36	0.00
2104008003	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Non-Catalytic	0.66	0.03	0.00	0.00	0.00	0.00	0.07	0.01	0.36	0.01	0.00	0.06	0.10	0.01	0.00	0.62	0.00
2104008004	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Catalytic	0.25	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.15	0.00	0.00	0.03	0.04	0.00	0.00	0.24	0.00
2104008010	Residential Wood Combustion: Woodstoves: General	23.57	0.39	0.36	0.72	1.51	2.44	0.92	0.12	11.26	0.14	0.08	2.00	3.41	0.15	0.07	18.14	5.04
2104008030	Residential Wood Combustion: Catalytic Woodstoves: General	1.26	0.01	0.06	0.12	0.25	0.40	0.02	0.00	0.28	0.00	0.00	0.05	0.08	0.00	0.00	0.43	0.82
2104008050	Residential Wood Combustion: Non-Catalytic Woodstoves: EPA Certified	3.11	0.02	0.14	0.28	0.59	0.95	0.06	0.01	0.69	0.01	0.00	0.12	0.21	0.01	0.00	1.11	1.97
2104008053	Residential Wood Combustion: Non-Catalytic Woodstoves: Pellet Fired	0.58	0.00	0.13	0.31	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
2104008060	Residential Wood Combustion - Outdoor Boilers & Furnaces	0.34	0.00	0.08	0.19	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
2104008070	Residential Wood Combustion: Outdoor Fireplaces, Chimineas.	3.78	0.89	0.23	0.38	1.20	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.89
2104009000	Residential Firelog: Total: All Combustor Types	2.87	0.00	0.26	0.60	0.82	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87
2104011000	Residential Kerosene Combustion.	65.47	0.00	11.29	13.67	20.72	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.47
2199008000	Total Area Source Fuel Combustion: Wood - All Boiler Types	0.50	0.00	0.12	0.28	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
2601000000	Incineration - Total	88.96	0.00	0.18	2.96	84.26	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.96
2601010000	Incineration - Industrial	20.50	0.00	0.00	0.00	0.00	0.00	2.08	1.30	10.19	0.09	0.21	3.30	2.06	1.19	0.08	20.50	0.00
2601020000	Incineration - Commercial/Institutional	104.42	0.00	0.00	0.00	0.00	0.00	10.55	7.20	54.76	1.26	0.57	10.81	16.67	1.94	0.66	104.42	0.00
2601030000	Incineration - Residential	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2610000100	Open Burning - All Categories - Yard Waste - Leaf Species Unspecified	0.71	0.00	0.19	0.33	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
2610020000	Open Burning - Commercial/Institutional - Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2610000400	Open Burning - All Categories - Yard Waste - Brush Species Unspecified	1.47	0.00	0.39	0.69	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
2610000500	Open Burning - All Categories - Land Clearing Debris	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2610030000	Open Burning - Residential - Household Waste - (Says Use Other ScCs)	2.24	0.00	0.73	1.23	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
2810001000	Forest Fires	0.64	0.00	0.28	0.06	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.61
2810014000	Prescribed Burning.	0.51						0.00	0.00	0.14	0.00	0.00	0.19	0.18	0.00	0.00	0.51	0.00
2810015000	Prescribed Burning.	0.04	0.00	0.03	0.00	0.00	0.01										0.00	0.04
2810030000	Structural Fires.	0.23	0.00	0.02	0.02	0.03	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
2810050000	Motor Vehicle Fires	0.09	0.00	0.00	0.01	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
	2002 Area Source Total	14249.81	480.63	460.38	598.01	866.00	677.37	1100.86	685.85	5277.98	65.62	114.38	2133.48	1210.07	534.04	45.15	11167.43	2601.76

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Sulfur Dioxide (SO2)
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	Nonroad Model Source	2588.99	409.04														1218.72	961.23
	Other Nonroad Sources																	
2275001000	Military Aviation	49.74	0.00	0.72	0.26	0.00	0.94	0.00	0.00	4.70	0.00	0.00	0.00	43.13	0.00	0.00	47.83	1.91
2275020000	Commercial Aviation	185.90	0.00	0.00	0.00	0.00	0.00	60.90	0.00	62.50	0.00	0.00	62.50	0.00	0.00	0.00	185.90	0.00
2275050000	General Aviation	18.25	0.00	0.72	8.98	3.99	4.42	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.07	0.00	0.16	18.10
2275060000	Air Taxi	0.14	0.00	0.00	0.02	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.07	0.07
2275070000	Aircraft Auxiliary Power Units	13.50	0.00	0.00	0.00	0.00	0.00	1.20	0.00	6.15	0.00	0.00	6.15	0.00	0.00	0.00	13.50	0.00
2285002005	Railroad Locomotives	71.10	0.00	0.00	32.35	21.66	17.09										0.00	71.10
2285002006	Railroad Locomotives	406.11	6.63	0.00	0.00	0.00	0.00	0.00	1.20	51.40	0.00	0.00	0.00	177.48	120.47	48.93	399.48	0.00
2285002008	Railroad Locomotives	6.83	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2285002009	Railroad Locomotives	5.58	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2285002010	Railroad Locomotives	108.83	15.73	0.00	15.55	3.31	0.00	0.00	0.23	9.55	0.00	0.00	0.00	32.99	22.38	9.10	74.24	18.86
	Other Nonroad Sources Total	865.98	34.77	1.43	57.15	29.01	22.45	62.10	1.42	134.30	0.00	0.00	68.74	253.61	142.97	58.03	721.18	110.04
	2002 Nonroad Source Total	3454.97	443.81	1.43	57.15	29.01	22.45	62.10	1.42	134.30	0.00	0.00	68.74	253.61	142.97	58.03	1939.89	1071.27

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	Area Source																	
2102002000	Coal Combustion - Industrial	9576.23	0.00	0.00	0.00	0.00	0.00	881.84	554.03	4455.25	40.79	93.07	1960.90	1053.19	496.59	40.58	9576.23	0.00
2102004000	Industrial Distillate Oil Combustion	147.75	0.00	23.24	28.50	43.43	40.51	1.11	0.69	5.62	0.05	0.11	2.47	1.33	0.63	0.05	12.07	135.68
2102005000	Industrial Residual Oil Combustion	635.46	0.00	114.33	140.24	106.83	99.64	16.06	10.09	81.17	0.74	1.69	35.71	19.19	9.04	0.73	174.42	461.04
2102006000	Natural Gas Combustion - Industrial	5.33	0.00	0.00	0.00	0.00	0.00	0.49	0.30	2.48	0.02	0.06	1.09	0.59	0.28	0.03	5.33	0.00
2103002000	Commercial/Institutional Coal Combustion.	892.14	114.00	34.83	69.66	104.49	34.83	84.03	50.36	284.86	10.14	8.18	41.82	43.07	10.82	1.07	534.33	243.81
2103004000	Commercial/Institutional Distillate Oil Combustion.	525.05	0.00	89.05	109.23	166.41	155.21	0.76	0.46	2.67	0.09	0.08	0.53	0.47	0.10	0.01	5.16	519.90
2103005000	Commercial/Institutional Residual Oil Combustion.	723.93	0.00	18.09	22.20	16.91	15.76	96.11	57.66	336.14	11.45	9.83	66.87	59.32	12.16	1.44	650.98	72.96
2103006000	Commercial/Institutional Natural Gas Combustion.	17.27	4.09	0.08	0.17	1.97	1.81	1.35	0.81	4.72	0.16	0.14	0.94	0.83	0.17	0.03	9.16	4.02
2103007000	Commercial/Institutional LPG Combustion - All Combustor Types.	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
2103011000	Commercial/Institutional Kerosene Combustion.	36.99	0.00	6.33	7.77	11.84	11.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.99
2104002000	Residential Coal Combustion.	29.70	15.50	0.00	4.24	4.24	4.54	0.12	0.08	0.62	0.01	0.01	0.12	0.19	0.02	0.01	1.18	13.02
2104004000	Residential Distillate Oil Combustion.	1298.11	340.41	159.41	192.97	292.56	279.69	3.10	2.11	16.33	0.36	0.18	4.37	5.82	0.57	0.24	33.08	924.63
2104006000	Residential Natural Gas Combustion.	22.33	4.49	0.23	0.51	5.82	5.08	0.58	0.40	3.07	0.06	0.04	0.82	1.09	0.11	0.04	6.21	11.64
2104007000	Residential LPG Combustion.	0.12	0.00	0.02	0.03	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12
2104008001	Residential Wood Combustion: Fireplaces: General	6.27	0.23	0.28	0.65	0.88	1.29	0.54	0.08	1.39	0.07	0.05	0.24	0.43	0.09	0.04	2.93	3.11
2104008002	Residential Wood Combustion: Fireplaces: Insert; Non-EPA Certified	10.90	0.54	0.00	0.00	0.00	0.00	1.06	0.14	5.84	0.16	0.09	1.05	1.77	0.17	0.08	10.36	0.00
2104008003	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Non-Catalytic	0.66	0.03	0.00	0.00	0.00	0.00	0.07	0.01	0.36	0.01	0.00	0.06	0.10	0.01	0.00	0.62	0.00
2104008004	Residential Wood Combustion: Fireplaces: Insert; EPA Certified; Catalytic	0.25	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.15	0.00	0.00	0.03	0.04	0.00	0.00	0.24	0.00
2104008010	Residential Wood Combustion: Woodstoves: General	23.57	0.39	0.36	0.72	1.51	2.44	0.92	0.12	11.26	0.14	0.08	2.00	3.41	0.15	0.07	18.14	5.04
2104008030	Residential Wood Combustion: Catalytic Woodstoves: General	1.26	0.01	0.06	0.12	0.25	0.40	0.02	0.00	0.28	0.00	0.00	0.05	0.08	0.00	0.00	0.43	0.82
2104008050	Residential Wood Combustion: Non-Catalytic Woodstoves: EPA Certified	3.11	0.02	0.14	0.28	0.59	0.95	0.06	0.01	0.69	0.01	0.00	0.12	0.21	0.01	0.00	1.11	1.97
2104008053	Residential Wood Combustion: Non-Catalytic Woodstoves: Pellet Fired	0.58	0.00	0.13	0.31	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
2104008060	Residential Wood Combustion - Outdoor Boilers & Furnaces	0.34	0.00	0.08	0.19	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
2104008070	Residential Wood Combustion: Outdoor Fireplaces, Chimineas.	3.78	0.89	0.23	0.38	1.20	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.89
2104009000	Residential Firelog: Total: All Combustor Types	2.87	0.00	0.26	0.60	0.82	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87
2104011000	Residential Kerosene Combustion.	65.47	0.00	11.29	13.67	20.72	19.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	65.47
2199008000	Total Area Source Fuel Combustion: Wood - All Boiler Types	0.50	0.00	0.12	0.28	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
2601000000	Incineration - Total	88.96	0.00	0.18	2.96	84.26	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.96
2601010000	Incineration - Industrial	20.50	0.00	0.00	0.00	0.00	0.00	2.08	1.30	10.19	0.09	0.21	3.30	2.06	1.19	0.08	20.50	0.00
2601020000	Incineration - Commercial/Institutional	104.42	0.00	0.00	0.00	0.00	0.00	10.55	7.20	54.76	1.26	0.57	10.81	16.67	1.94	0.66	104.42	0.00
2610000100	Open Burning - All Categories - Yard Waste - Leaf Species Unspecified	0.71	0.00	0.19	0.33	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
2610000400	Open Burning - All Categories - Yard Waste - Brush Species Unspecified	1.47	0.00	0.39	0.69	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
2610030000	Open Burning - Residential - Household Waste - (Says Use Other ScCs)	2.24	0.00	0.73	1.23	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.24
2810001000	Forest Fires	0.64	0.00	0.28	0.06	0.18	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.03	0.61
2810014000	Prescribed Burning.	0.51						0.00	0.00	0.14	0.00	0.00	0.19	0.18	0.00	0.00	0.51	0.00
2810015000	Prescribed Burning.	0.04	0.00	0.03	0.00	0.00	0.01										0.00	0.04
2810030000	Structural Fires.	0.23	0.00	0.02	0.02	0.03	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
2810050000	Motor Vehicle Fires	0.09	0.00	0.00	0.01	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
	2002 Area Source Total	14249.81	480.63	460.38	598.01	866.00	677.37	1100.86	685.85	5277.98	65.62	114.38	2133.48	1210.07	534.04	45.15	11167.43	2601.76
	Nonroad Model Source																	
	Agricultural Equipment	9.11	0.00	0.72	3.83	1.39	0.55	0.00	0.00	0.06	0.00	0.00	2.04	0.52	0.00	0.00	2.62	6.50
	Airport Equipment	58.51	0.00	0.00	0.00	0.00	0.00	24.30	0.00	17.10	0.00	0.00	17.10	0.00	0.00	0.00	58.50	0.00
	Commercial Equipment	16.78	1.44	0.32	1.00	3.75	2.87	0.40	0.52	4.33	0.25	0.08	0.85	0.66	0.23	0.09	7.40	7.94

**2009 Controlled Emission Inventory for the Metropolitan Washington Nonattainment Area
Sulfur Dioxide (SO₂)
Area and Nonroad Source Emissions by Jurisdiction (tons/year)**

SCC Code	Category Name	NAA Total	District of Columbia	Charles County	Frederick County	Montgomery County	Prince George's County	Arlington County	Alexandria City	Fairfax County	Fairfax City	Falls Church City	Loudoun County	Prince William County	Manassas City	Manassas Park City	VA Total	MD Total
	Construction and Mining Equipment	291.75	52.53	10.94	13.13	36.95	42.20	26.11	0.00	42.03	0.00	0.00	40.33	27.52	0.00	0.00	135.99	103.23
	Industrial Equipment	27.39	3.21	0.64	2.18	5.63	4.71	0.76	0.71	5.57	0.14	0.08	1.60	1.51	0.55	0.08	11.01	13.17
	Lawn and Garden Equipment (Com)	27.01	0.09	0.29	1.77	7.00	3.42	0.32	0.43	7.23	0.27	0.17	3.82	1.95	0.07	0.16	14.43	12.49
	Lawn and Garden Equipment (Res)	2.30	0.35	0.06	0.10	0.44	0.40	0.12	0.09	0.48	0.01	0.01	0.10	0.14	0.02	0.00	0.95	1.00
	Logging Equipment	0.49	0.00	0.22	0.03	0.02	0.09	0.00	0.00	0.02	0.00	0.00	0.09	0.01	0.00	0.00	0.12	0.37
	Pleasure Craft	2.64	0.53	1.38	0.07	0.17	0.19	0.00	0.00	0.16	0.00	0.00	0.02	0.13	0.00	0.00	0.31	1.81
	Railroad Equipment	0.35	0.02	0.00	0.07	0.04	0.03	0.01	0.03	0.06	0.00	0.00	0.00	0.07	0.01	0.01	0.19	0.14
	Recreational Equipment	0.72	0.09	0.08	0.09	0.18	0.09	0.00	0.00	0.09	0.00	0.00	0.03	0.07	0.00	0.00	0.19	0.44
	Nonroad Model Source	437.06	58.26	14.66	22.28	55.60	54.55	52.04	1.78	77.12	0.66	0.34	65.96	32.59	0.88	0.34	231.71	147.09
	Other Nonroad Sources																	
2275001000	Military Aviation	49.74	0.00	0.72	0.26	0.00	0.94	0.00	0.00	4.70	0.00	0.00	0.00	43.13	0.00	0.00	47.83	1.91
2275020000	Commercial Aviation	185.90	0.00	0.00	0.00	0.00	0.00	60.90	0.00	62.50	0.00	0.00	62.50	0.00	0.00	0.00	185.90	0.00
2275050000	General Aviation	18.25	0.00	0.72	8.98	3.99	4.42	0.00	0.00	0.00	0.00	0.00	0.08	0.01	0.07	0.00	0.16	18.10
2275060000	Air Taxi	0.14	0.00	0.00	0.02	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.07	0.07
2275070000	Aircraft Auxiliary Power Units	13.50	0.00	0.00	0.00	0.00	0.00	1.20	0.00	6.15	0.00	0.00	6.15	0.00	0.00	0.00	13.50	0.00
2285002005	Railroad Locomotives	71.10	0.00	0.00	32.35	21.66	17.09										0.00	71.10
2285002006	Railroad Locomotives	406.11	6.63	0.00	0.00	0.00	0.00	1.20	51.40	0.00	0.00	0.00	177.48	120.47	48.93	399.48	0.00	0.00
2285002008	Railroad Locomotives	6.83	6.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2285002009	Railroad Locomotives	5.58	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2285002010	Railroad Locomotives	108.83	15.73	0.00	15.55	3.31	0.00	0.00	0.23	9.55	0.00	0.00	32.99	22.38	9.10	74.24	18.86	0.00
	Other Nonroad Sources Total	865.98	34.77	1.43	57.15	29.01	22.45	62.10	1.42	134.30	0.00	0.00	68.74	253.61	142.97	58.03	721.18	110.04
	2002 Nonroad Source Total	1303.04	93.03	16.09	79.43	84.61	77.00	114.14	3.20	211.42	0.66	0.34	134.71	286.20	143.86	58.37	952.89	257.12