

Table VII-1. Base Year (1995/96) Modeling Emissions of NOx (tons/day).

State	EGU	Non-EGU	Area	Highway	Total
Alabama	720.16	246.58	351.01	431.09	1748.84
Arkansas	188.47	58.55	212.98	232.64	692.64
Connecticut	54.10	36.10	128.47	211.86	430.53
Delaware	58.64	28.26	45.35	63.44	195.69
District of Columbia	3.97	2.58	18.52	19.96	45.03
Florida	1004.44	121.73	375.44	793.65	2295.26
Georgia	634.73	185.30	290.50	655.60	1766.13
Illinois	862.93	519.40	552.99	724.46	2659.78
Indiana	1138.63	280.04	380.34	495.91	2294.92
Iowa	252.19	69.31	179.77	239.78	741.05
Kansas	277.06	159.31	430.15	193.23	1059.75
Kentucky	1107.62	103.18	457.30	358.09	2026.19
Louisiana	346.66	870.30	720.25	300.05	2237.26
Maine	9.43	52.03	32.32	118.05	211.83
Maryland	336.13	90.36	186.20	307.20	919.89
Massachusetts	111.40	73.86	235.31	290.73	711.30
Michigan	555.44	353.14	383.65	633.21	1925.44
Minnesota	215.18	61.45	182.61	360.58	819.82
Mississippi	194.65	173.26	278.40	270.34	916.65
Missouri	588.13	74.08	237.45	417.50	1317.16
Nebraska	96.15	36.86	142.89	116.47	392.37
New Hampshire	65.36	6.97	43.95	96.20	212.48
New Jersey	143.02	143.33	265.11	404.10	955.56
New York	375.07	126.63	494.87	823.37	1819.94
North Carolina	969.62	186.09	238.08	608.02	2001.81
North Dakota	0.00	0.46	26.11	16.53	43.10
Ohio	1701.82	307.42	478.37	757.73	3245.34
Oklahoma	337.30	100.69	400.76	316.23	1154.98
Pennsylvania	878.45	531.22	402.97	630.38	2443.02
Rhode Island	21.82	2.21	28.05	53.40	105.48
South Carolina	429.77	169.16	164.21	352.85	1115.99
South Dakota	44.54	0.37	23.65	51.03	119.59
Tennessee	957.50	371.13	452.50	474.18	2255.31
Texas	1172.84	1290.89	760.77	1200.77	4425.27
Vermont	0.20	1.04	13.32	60.65	75.21
Virginia	432.34	146.16	357.88	578.05	1514.43
West Virginia	873.65	282.88	137.26	168.66	1462.45
Wisconsin	311.71	110.90	224.92	360.40	1007.93
Total	17471.12	7373.23	10334.68	14186.39	49365.42

Table VII-2. 2007 CAA Base Case Modeling Emissions of NO<sub>x</sub> (tons/day).

State	EGU	Non-EGU	Area	Highway	Total
Alabama	619.16	314.95	361.70	416.80	1712.61
Arkansas	241.34	67.74	278.52	218.21	805.81
Connecticut	62.85	37.62	120.02	159.47	379.96
Delaware	85.86	34.82	40.33	60.30	221.31
District of Columbia	3.81	2.03	26.99	20.96	53.79
Florida	1193.66	143.06	396.06	935.38	2668.16
Georgia	635.45	224.98	306.47	599.03	1765.93
Illinois	908.72	442.08	558.24	622.86	2531.9
Indiana	1164.89	344.53	426.76	491.79	2427.97
Iowa	318.51	79.17	193.78	242.36	833.82
Kansas	278.16	200.10	387.65	206.14	1072.05
Kentucky	958.00	125.90	486.02	338.91	1908.83
Louisiana	370.72	797.24	764.56	288.99	2221.51
Maine	7.31	62.32	39.78	116.31	225.72
Maryland	289.05	94.67	227.65	271.66	883.03
Massachusetts	188.69	72.86	239.72	240.22	741.49
Michigan	511.62	402.98	428.71	622.31	1965.62
Minnesota	269.07	74.35	188.95	375.95	908.32
Mississippi	239.02	180.66	406.62	246.82	1073.12
Missouri	604.78	81.31	224.18	420.19	1330.46
Nebraska	93.92	41.46	136.45	119.41	391.24
New Hampshire	118.61	8.03	36.31	86.94	249.89
New Jersey	154.00	145.28	271.11	381.86	952.25
New York	356.59	138.02	391.91	777.35	1663.87
North Carolina	672.59	227.44	250.26	551.56	1701.85
North Dakota	0.00	0.40	37.24	17.47	55.11
Ohio	1237.97	361.08	494.11	710.83	2803.99
Oklahoma	365.45	124.90	521.39	316.14	1327.88
Pennsylvania	906.73	558.46	382.86	556.86	2404.91
Rhode Island	10.47	2.34	22.85	51.46	87.12
South Carolina	437.29	235.36	186.94	365.30	1224.89
South Dakota	49.91	0.64	34.31	51.89	136.75
Tennessee	610.64	461.38	517.64	496.75	2086.41
Texas	1271.05	1114.13	825.12	1073.35	4283.65
Vermont	0.20	1.04	13.76	63.05	78.05
Virginia	415.27	168.41	411.85	603.89	1599.42
West Virginia	571.47	283.37	115.44	158.49	1128.77
Wisconsin	325.87	141.67	225.54	315.35	1008.43
Total	16548.70	7796.78	10977.80	13592.61	48915.89

Table VII-3. 2007 Budget Modeling Emissions of NOx (tons/day).

State	EGU	Non-EGU	Area	Highway	Total
Alabama	224.26	159.58	335.69	386.24	1105.77
Arkansas	241.34	67.74	262.83	202.88	774.79
Connecticut	47.31	22.25	101.66	118.71	289.93
Delaware	40.59	15.18	36.83	57.67	150.27
District of Columbia	2.45	1.69	26.75	15.46	46.35
Florida	1193.66	143.06	351.44	875.17	2563.33
Georgia	246.29	96.16	267.79	529.59	1139.83
Illinois	278.01	278.58	477.65	529.99	1564.23
Indiana	377.70	195.89	398.19	454.61	1426.39
Iowa	318.51	79.17	176.64	227.15	801.47
Kansas	278.16	200.10	373.76	194.01	1046.03
Kentucky	283.92	79.77	462.46	315.42	1141.57
Louisiana	370.72	797.24	717.26	274.46	2159.68
Maine	7.31	62.32	37.87	109.26	216.76
Maryland	103.61	51.86	196.22	195.28	546.97
Massachusetts	112.86	43.88	208.53	157.66	522.93
Michigan	203.44	235.01	388.17	555.53	1382.15
Minnesota	269.07	74.35	166.35	353.51	863.28
Mississippi	239.02	180.66	370.67	229.32	1019.67
Missouri	196.28	60.26	194.63	375.51	826.68
Nebraska	93.92	41.46	127.59	112.49	375.46
New Hampshire	118.61	8.03	34.64	86.94	248.22
New Jersey	83.04	83.57	241.65	268.82	677.08
New York	266.18	96.55	340.98	642.00	1345.71
North Carolina	252.33	127.56	214.94	498.25	1093.08
North Dakota	0.00	0.40	36.37	16.33	53.1
Ohio	381.07	207.70	458.48	631.24	1678.49
Oklahoma	365.45	124.90	503.59	294.70	1288.64
Pennsylvania	357.05	314.54	343.61	499.34	1514.54
Rhode Island	10.81	2.34	18.98	38.89	71.02
South Carolina	151.97	127.09	164.62	337.58	781.26
South Dakota	49.91	0.64	31.29	48.65	130.49
Tennessee	191.00	240.31	451.78	461.03	1344.12
Texas	1271.05	1114.13	712.99	974.78	4072.95
Vermont	0.20	1.04	12.50	59.13	72.87
Virginia	176.69	73.05	379.47	544.69	1173.9
West Virginia	179.92	141.03	107.50	147.62	576.07
Wisconsin	124.49	77.21	192.28	284.20	678.18
Total	9108.20	5626.30	9924.65	12104.11	36763.26

Table VII-4. Percent Reduction Between 2007 CAA Base Case and Budget NOx Emissions for Modeling(tons/day).

State	2007 Base Case	Budget	Percent Reduction
Alabama	1712.61	1105.77	35.4%
Arkansas	805.81	774.79	3.9%
Connecticut	379.96	289.93	23.7%
Delaware	221.31	150.27	32.1%
District of Columbia	53.79	46.35	13.8%
Florida	2668.16	2563.33	3.9%
Georgia	1765.93	1139.83	35.5%
Illinois	2531.9	1564.23	38.2%
Indiana	2427.97	1426.39	41.3%
Iowa	833.82	801.47	3.9%
Kansas	1072.05	1046.03	2.4%
Kentucky	1908.83	1141.57	40.2%
Louisiana	2221.51	2159.68	2.8%
Maine	225.72	216.76	4.0%
Maryland	883.03	546.97	38.1%
Massachusetts	741.49	522.93	29.5%
Michigan	1965.62	1382.15	29.7%
Minnesota	908.32	863.28	5.0%
Mississippi	1073.12	1019.67	5.0%
Missouri	1330.46	826.68	37.9%
Nebraska	391.24	375.46	4.0%
New Hampshire	249.89	248.22	0.7%
New Jersey	952.25	677.08	28.9%
New York	1663.87	1345.71	19.1%
North Carolina	1701.85	1093.08	35.8%
North Dakota	55.11	53.1	3.6%
Ohio	2803.99	1678.49	40.1%
Oklahoma	1327.88	1288.64	3.0%
Pennsylvania	2404.91	1514.54	37.0%
Rhode Island	87.12	71.02	18.5%
South Carolina	1224.89	781.26	36.2%
South Dakota	136.75	130.49	4.6%
Tennessee	2086.41	1344.12	35.6%
Texas	4283.65	4072.95	4.9%
Vermont	78.05	72.87	6.6%
Virginia	1599.42	1173.9	26.6%
West Virginia	1128.77	576.07	49.0%
Wisconsin	1008.43	678.18	32.7%
Total	48915.89	36763.26	24.8%

Table VII-5. List of States in Each Analysis Region.

Midwest	Illinois, Indiana, Kentucky, Michigan, Missouri, Ohio, West Virginia, Wisconsin
Southeast	Alabama, Georgia, North Carolina, South Carolina, Tennessee, Virginia
Northeast	Connecticut, Delaware, District of Columbia, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Rhode Island
Non-SIP Call States	Arkansas, Florida, Iowa, Kansas, Louisiana, Maine, Minnesota, Mississippi, Nebraska, New Hampshire, North Dakota, Oklahoma, South Dakota, Texas, Vermont

Table VII-6. 1-Hr Air Quality Metrics for Midwest Region  
(Grid cells selected based on "monitored" and  
"modeled" nonattainment).

**Metric 1: Number of Grid Cell-Days with a Daily Max Ozone Value >= 125 ppb**

Modeled values include Daily Max 1-hr for all 4 Episodes

	MO	WI	IL	IN	MI	OH	KY	WV	Total
2007 Base	4	0	10	3	23	3	0	0	43
2007 Budget	2	0	2	0	4	3	0	0	11
Difference	-2	0	-8	-3	-19	0	0	0	-32
Percent	-50.00	0.00	-80.00	-100.00	-82.61	0.00	0.00	0.00	-74.42

**Metric 2: Number of Grid Cell-Days with Ozone Reductions, by Magnitude of the Reduction**

Magnitude of ozone reduction	MO	WI	IL	IN	MI	OH	KY	WV	Total
2 - 5 ppb	0	0	0	0	0	0	0	0	0
5 - 10 ppb	1	0	1	1	1	1	0	0	5
10 - 15 ppb	2	0	3	0	15	1	0	0	21
15 - 20 ppb	0	0	3	0	7	1	0	0	11
20 - 25 ppb	0	0	0	0	0	0	0	0	0
> 25 ppb	0	0	2	2	0	0	0	0	4

**Metric 3: Number of grid Cells >= 125 ppb, by Number of Days**

Baseline 2007

	MO	WI	IL	MI	KY	IN	OH	WV	Total
Number of Days >= 125 ppb									
= 1 days	2	0	6	5	0	3	3	0	19
2 - 4 days	1	0	2	9	0	0	0	0	12
5 - 9 days	0	0	0	0	0	0	0	0	0
10 - 14 days	0	0	0	0	0	0	0	0	0
>= 15 days	0	0	0	0	0	0	0	0	0
Total	3	0	8	14	0	3	3	0	31

NOx SIP Call

= 1 days	0	0	2	4	0	0	3	0	9
2 - 4 days	1	0	0	0	0	0	0	0	1
5 - 9 days	0	0	0	0	0	0	0	0	0
10 - 14 days	0	0	0	0	0	0	0	0	0
>= 15 days	0	0	0	0	0	0	0	0	0
Total	1	0	2	4	0	0	3	0	10
Difference (days)	-2	0	-6	-10	0	-3	0	0	-21
Percent	-66.7%	0.0%	-75.0%	-71.4%	0.0%	-100.0%	0.0%	0.0%	-67.7%

**Metric 4: Percent Reduction in Areal Exposures to ozone >= 125 ppb**

	July '88	July '91	July '93	July '95	All Episodes
MO	58.3%	49.5%	*	*	40.4%
WI	*	*	*	*	*
IL	84.8%	49.9%	*	100.0%	75.0%
MI	*	*	*	88.6%	88.6%
KY	*	*	*	*	*
IN	*	*	*	100.0%	100.0%
OH	*	*	*	*	*
WV	*	*	*	*	*
Total	73.7%	51.3%	*	90.2%	76.6%

\* No areas >= 125 ppb

Table VII-7. 1-Hr Air Quality Metrics for Southeast Region (Grid cells selected based on "monitored" and "modeled" nonattainment).

**Metric 1: Number of Grid Cell-Days with a Daily Max Ozone Value >+ 125 ppb**

Modeled values include Daily Max 1-hr for all 4 Episodes

	TN	AL	GA	SC	NC	VA	Total
2007 Base	27	108	203	0	0	14	352
2007 Budget	13	53	117	0	0	13	196
Difference	-14	-55	-86	0	0	-1	-156
Percent	-51.85	-50.93	-42.36	0.00	0.00	-7.14	-44.32

**Metric 2: Number of Grid Cell-Days with Ozone Reductions, by Magnitude of the Reduction**

Magnitude of ozone reduction	TN	AL	GA	SC	NC	VA	Total
2 - 5 ppb	4	1	2	0	0	1	8
5 - 10 ppb	11	20	9	0	0	6	46
10 - 15 ppb	7	27	31	0	0	4	69
15 - 20 ppb	3	23	64	0	0	1	91
20 - 25 ppb	0	16	53	0	0	0	69
> 25 ppb	0	21	44	0	0	0	65

**Metric 3: Number of grid Cells >= 125 ppb, by Number of Days**

Baseline 2007	TN	AL	GA	NC	VA	SC	Total
Number of Days >= 125 ppb							
= 1 days	7	9	5	0	0	0	21
2-4 days	6	14	15	0	1	0	36
5-9 days	1	8	17	0	2	0	28
10-14 days	0	1	3	0	0	0	4
>= 15 days	0	0	0	0	0	0	0
Total	14	32	40	0	3	0	89
NOx SIP Call							
= 1 days	6	6	8	0	0	0	20
2-4 days	2	11	10	0	1	0	24
5-9 days	0	3	11	0	2	0	16
10-14 days	0	0	1	0	0	0	1
>= 15 days	0	0	0	0	0	0	0
Total	8	20	30	0	3	0	61
Difference (days)	-6	-12	-10	0	0	0	-28
Percent	-42.9%	-37.5%	-25.0%	0.0%	0.0%	0.0%	-31.5%

**Metric 4: Percent Reduction in Areal Exposures to ozone >= 125 ppb**

	July '88	July '91	July '93	July '95	All Episodes
TN	100.0%	29.5%	72.0%	52.4%	60.2%
AL	71.7%	100.0%	57.7%	63.0%	60.0%
GA	59.4%	100.0%	46.9%	55.6%	51.0%
NC	*	*	*	*	*
VA	18.7%	*	*	58.2%	24.1%
SC	*	*	*	*	*
Total	50.1%	89.7%	51.0%	57.5%	53.0%

\* No areas >= 125 ppb

Table VII-8. 1-Hr Air Quality Metrics for Northeast Region  
(Grid cells selected based on "monitored" and "modeled" nonattainment).

**Metric 1: Number of Grid Cell-Days with a Daily Max Ozone Value >= 125 ppb**

Modeled values include Daily Max 1-hr for all 4 Episodes

	MD	DC	DE	PA	NJ	NY	CT	RI	MA	Total
2007 Base	251	3	12	34	183	221	231	8	61	738
2007 Budget	111	3	3	17	54	154	141	2	13	381
Difference	-140	0	-9	-17	-129	-67	-90	-6	-48	-357
Percent	-55.78	0.00	-75.00	-50.00	-70.49	-30.32	-38.96	-75	-78.69	-48.37

**Metric 2: Number of Grid Cell-Days with Ozone Reductions, by Magnitude of the Reduction**

Magnitude of ozone reduction	MD	DC	DE	PA	NJ	NY	CT	RI	MA	Total
2 - 5 ppb	7	0	0	3	5	26	16	0	3	60
5 - 10 ppb	27	1	0	7	12	63	58	2	7	177
10 - 15 ppb	43	0	0	14	41	89	115	6	27	335
15 - 20 ppb	91	0	1	6	90	24	25	0	15	252
20 - 25 ppb	40	0	6	2	19	1	0	0	2	70
> 25 ppb	32	0	5	1	12	0	0	0	7	57

**Metric 3: Number of grid Cells >= 125 ppb, by Number of Days**

Baseline 2007

	PA	NY	MD	DC	DE	NJ	CT	MA	RI	Total
Number of Days >= 125 ppb										
= 1 days	16	0	5	0	6	22	2	17	4	72
2 - 4 days	7	15	26	1	3	35	41	13	2	143
5 - 9 days	0	28	25	0	0	9	17	3	0	82
10 - 14 days	0	0	1	0	0	0	0	0	0	1
>= 15 days	0	0	0	0	0	0	0	0	0	0
Total	23	43	57	1	9	66	60	33	6	298

NOx SIP Call

= 1 days	15	6	12	0	3	24	18	13	2	93
2 - 4 days	1	27	23	1	0	12	37	0	0	101
5 - 9 days	0	11	7	0	0	0	3	0	0	21
10 - 14 days	0	0	0	0	0	0	0	0	0	0
>= 15 days	0	0	0	0	0	0	0	0	0	0
Total	16	44	42	1	3	36	58	13	2	215
Difference (days)	-7	1	-15	0	-6	-30	-2	-20	-4	-83
Percent	-30.4%	2.3%	-26.3%	0.0%	-66.7%	-45.5%	-3.3%	-60.6%	-66.7%	-27.9%

**Metric 4: Percent Reduction in Areal Exposures to ozone >= 125 ppb**

	July '88	July '91	July '93	July '95	All Episodes
PA	63.7%	100.00%	*	100.0%	67.3%
NY	40.2%	55.33%	*	43.5%	47.2%
MD	51.8%	86.79%	49.0%	78.6%	59.8%
DC	8.9%	*	*	*	8.9%
DE	82.0%	*	*	100.0%	84.5%
NJ	74.5%	95.81%	100.0%	100.0%	81.2%
CT	31.6%	68.51%	100.0%	61.1%	43.9%
MA	82.2%	95.78%	*	85.2%	86.7%
ME	92.3%	82.80%	*	*	89.3%
Total	52.4%	71.08%	51.0%	67.9%	59.1%

\* No areas >= 125 ppb

Table VII-9. Selected OTAG Metrics for 1-Hr Standard.

**Peak 1-Hr Total - # of Grid Cells > 124 ppb**

July 4-11,1988

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	337	484	522	148	38	56	71	10	46	54	27	157
2007 Budget	147	314	214	27	19	14	22	4	0	34	1	19
Difference	-190	-170	-308	-121	-19	-42	-49	-6	-46	-20	-26	-138
Percent	-56.4%	-35.1%	-59.0%	-81.8%	-50.0%	-75.0%	-69.0%	-60.0%	-100.0%	-37.0%	-96.3%	-87.9%

July 16-21, 1991

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	497	282	111	1	10	0	19	5	113	0	0	0
2007 Budget	160	141	19	0	0	0	10	2	58	0	0	0
Difference	-337	-141	-92	-1	-10	0	-9	-3	-55	0	0	0
Percent	-67.8%	-50.0%	-82.9%	-100.0%	-100.0%	0.0%	-47.4%	-60.0%	-48.7%	0.0%	0.0%	0.0%

July 22-29, 1993

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	1	5	105	38	178	39	4	1	0	0	0	123
2007 Budget	0	3	28	11	84	7	0	0	0	0	0	23
Difference	-1	-2	-77	-27	-94	-32	-4	-1	0	0	0	-100
Percent	-100.0%	-40.0%	-73.3%	-71.1%	-52.8%	-82.1%	-100.0%	-100.0%	0.0%	0.0%	0.0%	-81.3%

July 10-18, 1995

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	217	127	165	49	149	35	43	6	343	4	1	20
2007 Budget	137	74	37	19	47	6	9	0	233	1	0	3
Difference	-80	-53	-128	-30	-102	-29	-34	-6	-110	-3	-1	-17
Percent	-36.9%	-41.7%	-77.6%	-61.2%	-68.5%	-82.9%	-79.1%	-100.0%	-32.1%	-75.0%	-100.0%	-85.0%

All Episodes

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	1052	898	903	236	375	130	137	22	502	58	28	300
2007 Budget	444	532	298	57	150	27	41	6	291	35	1	45
Difference	-608	-366	-605	-179	-225	-103	-96	-16	-211	-23	-27	-255
Percent	-57.8%	-40.8%	-67.0%	-75.8%	-60.0%	-79.2%	-70.1%	-72.7%	-42.0%	-39.7%	-96.4%	-85.0%

**Peak 1-Hr Total - # of Grid Cells > 140 ppb**

July 4-11, 1988

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	122	219	229	35	20	21	5	2	0	16	1	34
2007 Budget	52	139	95	4	6	9	0	0	0	2	0	4
Difference	-70	-80	-134	-31	-14	-12	-5	-2	0	-14	-1	-30
Percent	-57.4%	-36.5%	-58.5%	-88.6%	-70.0%	-57.1%	-100.0%	-100.0%	0.0%	-87.5%	-100.0%	-88.2%

July 16-21, 1991

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	149	114	11	0	4	0	5	0	28	0	0	0
2007 Budget	29	20	4	0	0	0	4	0	0	0	0	0
Difference	-120	-94	-7	0	-4	0	-1	0	-28	0	0	0
Percent	-80.5%	-82.5%	-63.6%	0.0%	-100.0%	0.0%	-20.0%	0.0%	-100.0%	0.0%	0.0%	0.0%

July 22-29, 1993

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	0	0	21	14	99	8	0	0	0	0	0	38
2007 Budget	0	0	4	0	38	1	0	0	0	0	0	5
Difference	0	0	-17	-14	-61	-7	0	0	0	0	0	-33
Percent	0.0%	0.0%	-81.0%	-100.0%	-61.6%	-87.5%	0.0%	0.0%	0.0%	0.0%	0.0%	-86.8%

July 10-18, 1995

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	142	59	35	22	49	3	14	0	191	0	0	4
2007 Budget	63	32	3	4	20	0	1	0	96	0	0	0
Difference	-79	-27	-32	-18	-29	-3	-13	0	-95	0	0	-4
Percent	-55.6%	-45.8%	-91.4%	-81.8%	-59.2%	-100.0%	-92.9%	0.0%	-49.7%	0.0%	0.0%	-100.0%

All Episodes

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	413	392	296	71	172	32	24	2	219	16	1	76
2007 Budget	144	191	106	8	64	10	5	0	96	2	0	9
Difference	-269	-201	-190	-63	-108	-22	-19	-2	-123	-14	-1	-67
Percent	-65.1%	-51.3%	-64.2%	-88.7%	-62.8%	-68.8%	-79.2%	-100.0%	-56.2%	-87.5%	-100.0%	-88.2%

**Weighted Sum of Differences When the Base is > 124 ppb**

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
July 4-11, 1988	-13.8	-9.6	-18.5	-22.3	-18.3	-23.9	-17.4	-18.5	-13.8	-10	-24.5	-25.1
July 16-21, 1991	-15.1	-13.7	-16.9	-10.4	-29	0	-13.3	-6.1	-10.9	0	0	0
July 22-29, 1993	-5.7	-4.6	-15.8	-20	-21.3	-21.7	-26.2	-10.9	0	0	0	-22.6
July 10-18, 1995	-15.8	-11.5	-16.8	-19	-21.5	-22.1	-27.4	-16	-12.6	-8.5	-40.8	-23.7

**# Grid Cells with more than a 4 ppb Decrease when Base is > 124 ppb**

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
July 4-11, 1988	330	386	496	144	38	55	67	10	46	51	27	156
Percent of Total	97.9%	79.8%	95.0%	97.3%	100.0%	98.2%	94.4%	100.0%	100.0%	94.4%	100.0%	99.4%
July 16-21, 1991	496	276	104	1	10	0	16	3	104	0	0	0
Percent of Total	99.8%	97.9%	93.7%	100.0%	100.0%	0.0%	84.2%	60.0%	92.0%	0.0%	0.0%	0.0%
July 22-29, 1993	1	3	102	38	178	37	4	1	0	0	0	123
Percent of Total	100.0%	60.0%	97.1%	100.0%	100.0%	94.9%	100.0%	100.0%	0.0%	0.0%	0.0%	100.0%
July 10-18, 1995	217	111	161	48	149	35	43	6	326	4	1	20
Percent of Total	100.0%	87.4%	97.6%	98.0%	100.0%	100.0%	100.0%	100.0%	95.0%	100.0%	100.0%	100.0%
All Episodes	1044	776	863	231	375	127	130	20	476	55	28	299
Percent of Total	99.2%	86.4%	95.6%	97.9%	100.0%	97.7%	94.9%	90.9%	94.8%	94.8%	100.0%	99.7%

**# Grid Cells with more than a 4 ppb Increase when Base is > 124 ppb**

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
July 4-11, 1988	2	32	7	2	0	0	1	0	0	1	0	0
Percent of Total	0.6%	6.6%	1.3%	1.4%	0.0%	0.0%	1.4%	0.0%	0.0%	1.9%	0.0%	0.0%
July 16-21, 1991	0	0	2	0	0	0	2	0	2	0	0	0
Percent of Total	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	10.5%	0.0%	1.8%	0.0%	0.0%	0.0%
July 22-29, 1993	0	1	3	0	0	0	0	0	0	0	0	0
Percent of Total	0.0%	20.0%	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
July 10-18, 1995	0	0	1	0	0	0	0	0	0	0	0	0
Percent of Total	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
All Episodes	2	33	13	2	0	0	3	0	2	1	0	0
Percent of Total	0.2%	3.7%	1.4%	0.8%	0.0%	0.0%	2.2%	0.0%	0.4%	1.7%	0.0%	0.0%



Table VII-11. 8-Hr Air Quality Metrics for Southeast Region  
 (Grid cells selected based on "monitored" and "modeled"  
 nonattainment).

**Metric 5: Number of Grid Cell-Days with an Average 2nd High Ozone Value  $\geq$  85 ppb**

Scenario	TN	AL	GA	SC	NC	VA	Total
2007 Base	48	39	44	13	52	16	212
2007 Budget	10	12	17	1	4	3	47
Difference	-38	-27	-27	-12	-48	-13	-165
Percent	-79.17	-69.23	-61.36	-92.31	-92.31	-81.25	-77.83

**Metric 6: Number of Grid Cell-Days with Ozone Reductions, by Magnitude of the Reduction**

Magnitude of Ozone Reduction	TN	AL	GA	SC	NC	VA	Total
2 - 5 ppb	5	0	0	0	0	0	5
5 - 10 ppb	23	3	4	5	2	1	38
10 - 15 ppb	17	28	32	6	42	13	138
15 - 20 ppb	2	8	8	2	5	2	27
20 - 25 ppb	0	0	0	0	3	0	3
> 25 ppb	0	0	0	0	0	0	0



Table VII-13. Selected OTAG Metrics for 8-Hr Standard.

**Peak 8-Hr Total - # of Grids > 84 ppb**

July 4-11, 1988

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	1624	1959	1696	580	154	485	1653	196	853	478	850	1195
2007 Budget	1132	1256	1115	313	68	139	447	32	435	253	197	450
Difference	-492	-703	-581	-267	-86	-346	-1206	-164	-418	-225	-653	-745
Percent	-30.3%	-35.9%	-34.3%	-46.0%	-55.8%	-71.3%	-73.0%	-83.7%	-49.0%	-47.1%	-76.8%	-62.3%

July 16-21, 1991

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	1333	1034	1058	112	56	93	875	129	615	172	605	71
2007 Budget	1019	573	552	12	21	10	198	37	512	51	81	0
Difference	-314	-461	-506	-100	-35	-83	-677	-92	-103	-121	-524	-71
Percent	-23.6%	-44.6%	-47.8%	-89.3%	-62.5%	-89.2%	-77.4%	-71.3%	-16.7%	-70.3%	-86.6%	-100.0%

July 22-29, 1993

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	161	204	610	206	855	395	545	56	79	23	59	1562
2007 Budget	88	134	315	92	374	125	78	17	24	2	0	387
Difference	-73	-70	-295	-114	-481	-270	-467	-39	-55	-21	-59	-1175
Percent	-45.3%	-34.3%	-48.4%	-55.3%	-56.3%	-68.4%	-85.7%	-69.6%	-69.6%	-91.3%	-100.0%	-75.2%

July 10-18, 1995

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	653	714	1489	527	693	708	1072	124	994	311	468	754
2007 Budget	437	321	642	142	260	160	215	52	712	150	20	96
Difference	-216	-393	-847	-385	-433	-548	-857	-72	-282	-161	-448	-658
Percent	-33.1%	-55.0%	-56.9%	-73.1%	-62.5%	-77.4%	-79.9%	-58.1%	-28.4%	-51.8%	-95.7%	-87.3%

All Episodes

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	3771	3911	4853	1425	1758	1681	4145	505	2541	984	1982	3582
2007 Budget	2676	2284	2624	559	723	434	938	138	1683	456	298	933
Difference	-1095	-1627	-2229	-866	-1035	-1247	-3207	-367	-858	-528	-1684	-2649
Percent	-29.0%	-41.6%	-45.9%	-60.8%	-58.9%	-74.2%	-77.4%	-72.7%	-33.8%	-53.7%	-85.0%	-74.0%

**Peak 8-Hr Total - Grid Cells > 100 ppb**

July 4-11, 1988

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	817	862	975	302	64	149	383	25	320	139	215	458
2007 Budget	418	555	413	96	26	32	50	6	92	74	13	75
Difference	-399	-307	-562	-206	-38	-117	-333	-19	-228	-65	-202	-383
Percent	-48.8%	-35.6%	-57.6%	-68.2%	-59.4%	-78.5%	-86.9%	-76.0%	-71.3%	-46.8%	-94.0%	-83.6%

July 16-21, 1991

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	868	501	448	13	21	1	190	22	302	18	62	0
2007 Budget	511	305	109	0	4	0	22	7	204	1	0	0
Difference	-357	-196	-339	-13	-17	-1	-168	-15	-98	-17	-62	0
Percent	-41.1%	-39.1%	-75.7%	-100.0%	-81.0%	-100.0%	-88.4%	-68.2%	-32.5%	-94.4%	-100.0%	0.0%

July 22-29, 1993

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	34	59	212	85	322	97	71	4	0	0	0	399
2007 Budget	11	30	63	25	151	23	1	0	0	0	0	81
Difference	-23	-29	-149	-60	-171	-74	-70	-4	0	0	0	-318
Percent	-67.6%	-49.2%	-70.3%	-70.6%	-53.1%	-76.3%	-98.6%	-100.0%	0.0%	0.0%	0.0%	-79.7%

July 10-18, 1995

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	328	255	544	105	259	159	225	27	553	60	15	98
2007 Budget	230	139	139	34	112	28	27	1	423	17	1	6
Difference	-98	-116	-405	-71	-147	-131	-198	-26	-130	-43	-14	-92
Percent	-29.9%	-45.5%	-74.4%	-67.6%	-56.8%	-82.4%	-88.0%	-96.3%	-23.5%	-71.7%	-93.3%	-93.9%

All Episodes

	No. Corridor	Cn. Corridor	So. Corridor	Richmond	Atlanta	Nashville	Louis - Cinci	St. Louis	Lk. MI Area	Detroit	Pittsburgh	Charlotte
2007 Base Case	2047	1677	2179	505	666	406	869	78	1175	217	292	955
2007 Budget	1170	1029	724	155	293	83	100	14	719	92	14	162
Difference	-877	-648	-1455	-350	-373	-323	-769	-64	-456	-125	-278	-793
Percent	-42.8%	-38.6%	-66.8%	-69.3%	-56.0%	-79.6%	-88.5%	-82.1%	-38.8%	-57.6%	-95.2%	-83.0%