Smog Watch 2000

Dirty Smog Spots & Clean Air Solutions

By the Clean Air Network
for Clear the Air:
National Campaign Against Dirty Power

June, 2000

Smog Watch 2000

Dirty Smog Spots & Clean Air Solutions

By Jayne E. Mardock
and Gina Porreco

Clean Air Network
with Clear the Air:
National Campaign Against Dirty Power

June, 2000

Acknowledgments

This report was written by Jayne Mardock and Gina Porreco of the Clean Air Network. Special thanks to Felice Stadler, Jonathan Birdsong, Mark Wenzler, Angie Farleigh, Frank O'Donnell, and Conrad Schneider who all provided valuable editorial and substantive comments on the report. Thanks also to James Hemby, U.S. EPA who provided the data tables used to analyze smog levels. Cover and report design by Gina Porreco.

This report was made possible with funding from The Pew Charitable Trusts. The opinions expressed in this report are those of the authors and do not necessarily reflect the views of The Pew Charitable Trusts.

The Clean Air Network would like to thank the organizations and individuals that support the work of the Network through financial and in-kind contributions. We also would like to thank the following additional foundations that made this and other work of the Network possible: Turner Foundation, Energy Foundation, George Gund Foundation, John Merck Fund, Bauman Foundation and Changing Horizons Fund.

Copyright 2000 by the Clean Air Network.

This report is available on the Clean Air Network website, www.cleanair.net, and the Clear the Air website, www.cleartheair.org. Printed copies are available from the Clean Air Network for $10.00 to help defer with printing and postage expenses. Checks should be made out to the Natural Resources Defense Council (NRDC), the Network's fiscal agent.

Clean Air Network

1200 New York Avenue, NW, Suite 400
Washington, DC 20005
202/289-2429 202/289-1060
gporreco@nrdc.org
www.cleanair.net

CLEAR THE AIR

1200 18th Street, NW
Washington, D.C. 20036
202/887-1715 202/887-8880
Admin@cleartheair.org
www.cleartheair.org

SMOG WATCH 2000:

Dirty Smog Spots and Clean Air Solutions

Table of Contents

Executive Summary 6
- Summary of findings
- Smog policy decisions pending in 2000

Analyzing Smog Spots: Areas Not Meeting Federal Ozone Standard 7
- Timeline for designation action
- Smog spots: By monitor
  - Table A: Status of ozone monitors by state
- Smog spots: By county
  - Map A: Percentage of counties at risk
  - Table B: State status of counties at risk

Comparing Current and Likely Smog Spots 12
- Table C: List of current and likely nonattainment areas

Smog Impacts on Health and Environment 14
- Health effects
- Environmental effects

Sources of Ozone Pollution 17
- Nitrogen oxides
- Volatile organic compounds

What Must Be Done: Smog Policy Decisions for 2000 19
- Cleaner Power Plants: Implement the NOx SIP call
- Cleaner Diesels: Require lean fuels and engines

Conclusion 20

Endnotes 21

Appendix A: Summary of monitored ozone data from 1997-99 A-1

Appendix B: Population of counties at risk of smog B-1

Appendix C: Summary of all monitors in National Parks C-1

Executive Summary

Each year, many Americans look with dread at the onset of summer because they know that smog season is gearing up and they will have a hard time catching their breath. They will have to watch the weather forecasts carefully, limit outdoor activities on bad air days and risk the potential of increased medication or trips to the hospital to keep breathing. Although everyone can be affected by high ozone smog levels, those most at risk are children, the elderly, people with lung diseases including asthma, and people who work or exercise outdoors in the summer.

We have come to expect smoggy summers in the biggest cities of California, Texas, the Northeast Corridor and Lake Michigan area, but smog is now choking smaller cities across the South and Midwest as well. In fact, the majority of counties with ozone smog monitors experienced levels above what the U.S. Environmental Protection Agency (EPA) considers to be clean and safe to breathe.

Summary of Findings

This report analyzes official air quality data across the country between the years 1997 and 1999. The report finds:

· 53% of the 996 ozone monitors across the country with complete data, or 523, have a three year average that exceeds the federal ozone standard over an eight-hour period.
· 56% of the 596 counties with complete monitoring data, or 333, are above the legal limit for ozone exposure.
· Thirty-three states have at least one county monitoring dirty air. There is a "Dirty Dozen" of states where more than 75% of the counties are violating the smog standard. They are: CT, DE, DC, IN, MD, NJ, NC, OH, PA, TN, VA, and WV.
· There are an estimated nearly 117 million people living in counties monitoring dirty air.
· Ten national parks have pollution levels comparable to dirty U.S. cities.

This report analyzes air quality data from 1997-99 because EPA will use these three years of data to designate counties that do not meet the National Ambient Air Quality Standard (NAAQS) for ozone over an 8-hour period. These are known as "nonattainment areas." This summer, states will submit suggested boundries for nonattainment areas.[1] EPA will evaluate these submissions and finalize the list of nonattainment areas in early 2001. This report applies EPA's methodology to the 1997-1999 ozone data, thus providing an early indicator of the regions and counties throughout the U.S. that are likely to be declared ozone nonattainment areas in 2001. These areas will eventually be responsible for reducing emissions that contribute to ozone formation.

Smog policy decisions pending in 2000

While states with nonattainment areas are responsible for finding ways to reduce pollution, often the most effective way to reach clean air goals is to reduce emissions from the largest contributors of air pollution nationwide. In December 1999, EPA finalized a rule to reduce pollution from cars, trucks, sport utility vehicles and gasoline by up to 90% beginning in 2004. In 2000, EPA will undertake national efforts to reduce ozone pollution from other major sources. These rules will clean up power plants, diesel trucks and buses and diesel fuel in the future.

Nitrogen Oxide Controls on Power Plants: Power plants emit 25% of all nitrogen oxide (NOx) pollution, one of the main components of ozone smog. When EPA announced new ozone standards in 1997, it proposed cleaning up power plant emissions as the most cost-

effective solution for many nonattainment areas to pursue. In fact, EPA estimated that many areas faced with dirty air problems could likely meet clean air goals primarily from cleaning up power plants and through other national rules EPA had in the pipeline. Although several states and electric utilities challenged this requirement, the U.S. Court of Appeals has upheld the requirement for states to meet their NOx emissions budgets and a deadline for SIP submissions should be decided soon.

Low-Sulfur Diesel Fuel Pollutants in the fuel determine how clean the engine can be. Currently, diesel fuel has more than 500 parts per million (ppm) of sulfur and is so dirty that engine manufacturers cannot use catalytic converters that reduce NOx and other pollutants. EPA is proposing the reduce levels to 15 ppm by mid-2006. This clean-up will allow engine manufacturers to use a broad range of pollution control equipment on new diesel engines that will significantly reduce NOx and fine particle emissions by the end of the decade, which will reduce smog. A decision is expected by December 2000.

Heavy-Duty Diesel Trucks and Buses Diesel trucks and buses are responsible for 11% of the nitrogen oxide pollution nationwide. EPA is proposing to set standards for new truck engines 95% below current levels. At this time, catalytic converters cannot function because the fuel is too dirty. By adopting an integrated approach to diesel emissions, cleaning up the fuel and engines at the same time, EPA is able to propose much more significant emission reductions and promote the use of cleaner and advanced technology. EPA will finalize engine standards with the fuel standard in December 2000.

Together, these programs offer the promise of cleaner air for many cities now faced with air quality problems. However, if states do not commit to cleaning up power plant emissions and EPA succumbs to industry and political pressure and does not regulate diesel fuel and engines, most areas will have a very difficult time identifying programs that will make it possible to reach clean air goals.

Analyzing Smog Spots: Areas Not Meeting Federal Ozone Standard

In July 1997, the U.S. EPA established a federal health-based ambient air quality standard for ozone pollution. The standard is based on average ozone concentrations measured over an 8-hour period (the former standard was based on a one-hour average). The Clean Air Act and Transportation Efficiency Act for the 21st Century requires EPA to establish the list of areas that do not meet the standard three years after setting a new ambient air quality standard. Therefore, in 2000 EPA is required to designate areas that do not meet the federal standard as "nonattainment areas." EPA is currently behind schedule, due to pending litigation over the 8-hour standard, but is proceeding with the intent of finalizing designations in early 2001.

EPA and states will be evaluating 8-hour ozone data from 1997, 1998 and 1999 in order to determine which areas are over the legal limit for smog. However, there is enough information presently available to predict with a high level of confidence

Timeline for Designation Action

March 28, 2000
EPA issued guidelines for states on determining nonattainment areas

June 30, 2000
States must recommend areas that do not meet ozone standard, including boundaries for nonattainment areas

Late Summer, 2000
EPA responds to state boundaries and allows comment from states

Early 2001
EPA will make final designations and set a date for when states must submit plans to meet the standard in which the clock for programs from states to reduce ozone pollution will begin

which areas will be declared ozone nonattainment areas under EPA's criteria. 996 of 1058 ozone monitors in 678 counties around the country have the three years of data necessary for states and EPA to make ozone attainment decisions.

Once nonattainment boundries are finalized, states will need to develop plans to reduce emissions and smog levels to safe levels. If they fail to develop a plan, they can ultimately lose highway funds or have to offset new pollution by existing polluters. Some states want to limit the size of the nonattainment area so that polluting industries will not be subject to Clean Air Act requirements. However, by exempting these areas, a state will likely have a very difficult time identifying sufficient emission reductions to reach clean air goals.

Smog spots: By monitor

Ozone is a pervasive problem in the Eastern U.S. and California. From Texas to Maine, every state is plagued with smog. Smog is a problem in the East because of the density of population and pollution sources, as well as more hot humid weather, which is conducive to ozone formation. Since 1990, the states in the Northeast Corridor, from Washington, DC to Maine, have worked together to develop smog reduction strategies that benefit the entire region. This regional cooperation is required by the Clean Air Act Amendments of 1990 because air pollution from one state can often interfere with another state's attainment of national air quality standards. The four states surrounding Lake Michigan (IL, IN, MI, WI) also worked together because much of the lake area was affected by smog.

There appear to be other regions of nonattainment under the 8-hour standard. A region from Pittsburgh to Evansville, along the Ohio River Valley, has a string of nonattainment areas. In fact, almost every ozone monitor along the Ohio River is recording dirty air. Older coal-fired power plants dot the region, and are a likely source of the pollution problem for hundreds of miles.

Another smog zone runs along the Gulf of Mexico, from Houston to Pensacola, Florida. This area of the country is dominated by the petro-chemical industry, a significant source of hydrocarbon emissions, the other smog precursor. Southeastern cities are also faced with significant smog problems, many for the first time. Although Birmingham and Atlanta have been battling smog for some time, cities such as Macon, Huntsville, Charlotte, Raleigh-Durham, Columbia, Knoxville, Nashville, Richmond and Norfolk-Newport News are finding high smog levels as well.

Although many parts of the West have a visible air pollution problem, levels of ozone are below the national standard. Several western cities are just below the smog standard (Denver, Las Vegas, Salt Lake City) and will avoid nonattainment status for now. However, with rapid growth, these areas could find smog to be a problem in the future because attainment status is based on a three-year rolling average.

Table A summarizes the status of all monitors in every state. It lists the number of monitors in the state and the percentage of monitors that meet or exceed the ozone smog standard. It also includes the number of monitors that have incomplete (n/a) data, but if patterns continue, will likely be in nonattainment of the ozone standard in the future.

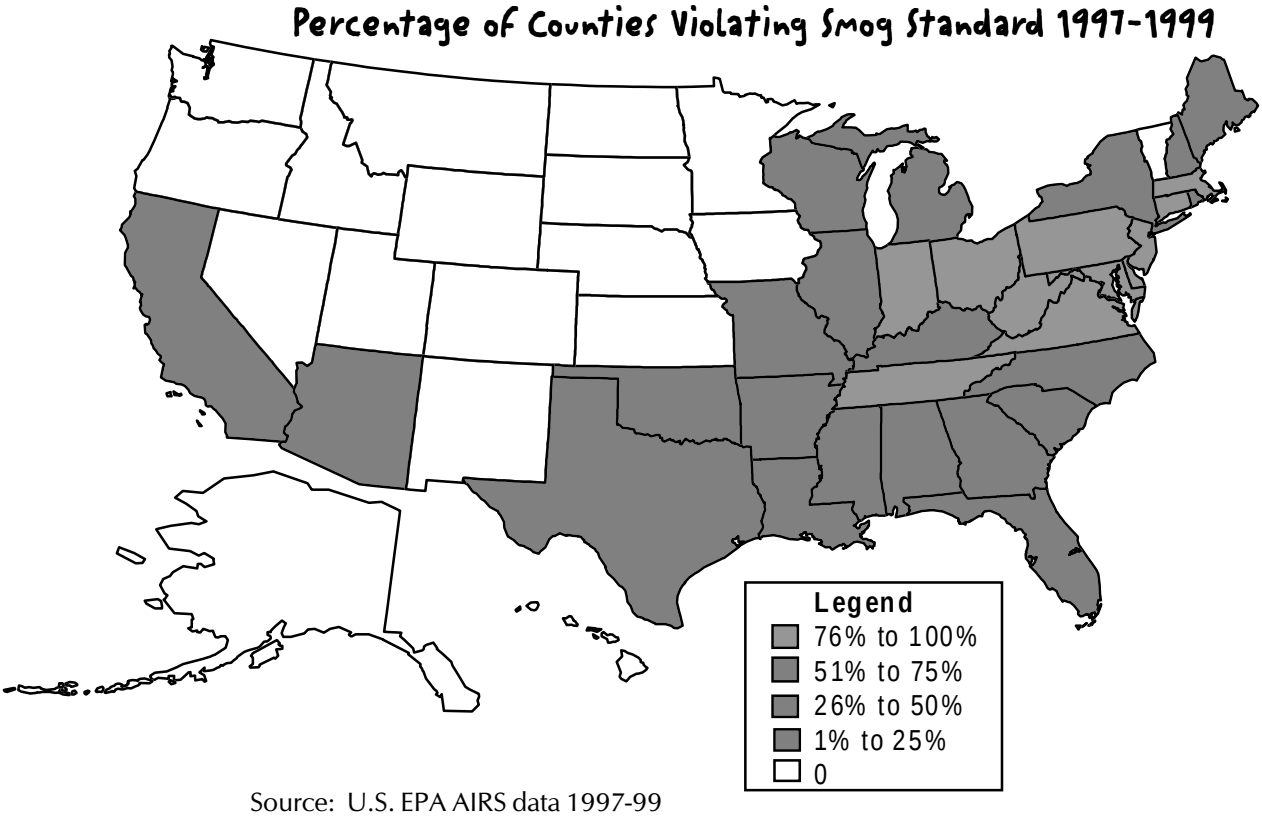
Table A: Status of Ozone Monitors by State

State	# Monitors	# Violating	% Violating	# Not Viol.	% Not Viol.	# N/A Data	% N/A Data
AK	1	0	0%	1	100%	0	0%
AL	14	9	64%	5	36%	0	0%
AR	5	1	20%	4	80%	0	0%
AZ	27	7	26%	20	74%	0	0%
CA	177	82	46%	93	53%	2	1%
CO	15	0	0%	15	100%	0	0%
CT	11	11	100%	0	0%	0	0%
DC	3	3	100%	0	0%	0	0%
DE	6	5	83%	0	0%	1	17%
FL	39	5	13%	34	87%	0	0%
GA	17	12	71%	4	24%	1	6%
HI	1	0	0%	1	100%	0	0%
IA	9	0	0%	9	100%	0	0%
ID	1	0	0%	1	100%	0	0%
IL	41	10	24%	31	76%	0	0%
IN	33	27	82%	2	6%	4	12%
KS	3	0	0%	3	100%	0	0%
KY	32	22	69%	9	28%	1	3%
LA	28	15	54%	13	46%	0	0%
MA	16	10	63%	5	31%	1	6%
MD	16	15	94%	0	0%	1	6%
ME	10	6	60%	4	40%	0	0%
MI	25	16	64%	8	32%	1	4%
MN	6	0	0%	6	100%	0	0%
MO	21	11	52%	9	43%	1	5%
MS	9	3	33%	5	56%	1	11%
MT	1	0	0%	1	100%	0	0%
NC	41	32	78%	7	17%	2	5%
ND	4	0	0%	4	100%	0	0%
NE	4	0	0%	4	100%	0	0%
NH	11	3	27%	8	73%	0	0%
NJ	14	13	93%	0	0%	1	7%
NM	18	0	0%	18	100%	0	0%
NV	12	0	0%	11	92%	1	8%
NY	29	13	45%	15	52%	1	3%
OH	47	41	87%	6	13%	0	0%
OK	9	3	33%	5	56%	1	11%
OR	7	0	0%	7	100%	0	0%
PA	46	40	87%	5	11%	1	2%
RI	3	1	33%	2	67%	0	0%
SC	21	14	67%	7	33%	0	0%
TN	24	23	96%	1	4%	0	0%
TX	46	28	61%	14	30%	4	9%
UT	11	0	0%	11	100%	0	0%
VA	23	20	87%	1	4%	2	9%
VT	2	0	0%	2	100%	0	0%
WA	14	0	0%	14	100%	0	0%
WI	36	16	44%	20	56%	0	0%
WV	6	6	100%	0	0%	0	0%
WY	1	0	0%	1	100%	0	0%
total	**996**	**523**		**446**		**27**	

Smog spots: By county

In May 1999, the Clean Air Network released the report, *Smog Watch: Pollution and Solutions to Monitor in 1999.*[3] This report analyzed 1997 and 1998 ozone data, and determined which monitors showed ozone levels above the national standard. The report found that monitors in 315 counties (51%) in 34 states had two-year averages ozone levels above the eight-hour ozone standard. Monitors in an additional 95 counties in 31 states were very close to violating the ozone standard. Only 9 states had no counties close to exceeding the ozone standard.

These predictions were fairly accurate. The summer of 1999 was especially hot in the East, with milder weather in the West. In total, 333 counties in 33 states have a three-year ozone average that exceed the national 8-hour standard, likely resulting in a nonattainment designation. Nevada has one monitor with incomplete data that is very close to exceeding the ozone standard and could be designated in the future when data are collected this year.



Source: U.S. EPA AIRS data 1997-99

As you can see by the map, 12 states have experienced widespread ozone problems, with more than 75% of the counties with monitors above the smog standard. There are 17 states that have monitored clean air across their state.

Many urban areas install multiple monitors in a county to better identify the extent of the ozone problem. There are 596 counties that have at least one ozone monitor with complete data. Table B summarizes the status of monitors by county. It delineates the number and percentage of counties that meet or exceed the ozone standard. In total, nearly 117 million Americans live in counties that are monitoring dirty air. For population by county, see Appendix B.

Table B: Status of Ozone Monitors by County

State	# counties w/monitors	# counties in attainment	# counties with n/a data	# counties in nonattainment	% of counties in nonattainment	population living in nonattainment counties
AK	1	1			0%	
AL	9	4		5	56%	1,481,699
AR	4	3		1	25%	49,559
AZ	6	5		1	17%	2,676,846
CA	49	23		26	53%	22,549,430
CO	10	10			0%	
CT	7			7	100%	3,172,131
DC	1			1	100%	535,027
DE	3			3	100%	731,218
FL	21	19		2	10%	1,184,499
GA	15	4	1	10	67%	2,581,516
HI	1	1			0%	
IA	8	8			0%	
ID	1	1			0%	
IL	20	16		4	20%	5,959,643
IN	19	2	1	16	84%	3,041,581
KS	2	2			0%	
KY	27	7	1	19	70%	1,769,653
LA	21	11		10	48%	1,662,912
MA	9	2		7	78%	4,136,319
MD	12		1	11	92%	4,099,608
ME	8	4		4	50%	510,142
MI	20	5	1	14	70%	4,903,819
MN	5	5			0%	
MO	11	4	1	6	55%	1,713,598
MS	9	5	1	3	33%	258,952
MT	1	1			0%	
NC	30	6	2	22	73%	3,263,187
ND	4	4			0%	
NE	2	2			0%	
NH	9	7		2	22%	623,013
NJ	13		1	12	92%	5,111,552
NM	6	6			0%	
NV	5	5			0%	
NY	26	13	1	12	46%	6,045,264
OH	33	3		30	91%	8,401,120
OK	6	3	1	2	33%	1,168,033
OR	5	5			0%	
PA	29	2		27	93%	9,186,177
RI	3	2		1	33%	162,103
SC	18	5		13	72%	1,361,726
TN	16			16	100%	3,089,898
TX	21	8		13	62%	10,361,238
UT	6	6			0%	
VA	18	1	1	16	89%	2,529,347
VT	2	2			0%	
WA	10	10			0%	
WI	27	16		11	41%	1,877,221
WV	6			6	100%	508,032
WY	1	1			0%	
Total	**596**	**250**	**13**	**333**	**56%**	**116,706,063**

Comparing Current and Likely Smog Spots

For the last 30 years, the Clean Air Act has focused on reducing peak levels of ozone smog that occur over a shorter 1-hour period. In 1990, EPA designated 98 areas that did not meet the 1-hour ozone standard. While two-thirds of those areas have managed to reduce ozone levels sufficiently to meet the standard, 1/3 of the ozone nonattainment areas remain. However, there is still a significant and pervasive ozone smog problem in the United States.

In 1997, EPA adopted an 8-hour ozone standard to address the problem of longer, more chronic exposure to smog. Recent health studies suggest that the damage caused by lower levels of ozone over a longer period can cause greater lung damage and is a more serious health threat than short term peak exposures.

As states and EPA's understanding of ozone's impact on health has become more sophisticated, we see that we are left with a growing mountain of ozone pollution in areas that have traditionally been thought to have "cleaner" air. States in the South, Midwest, and New England will likely have the most new nonattainment areas under the 8-hour standard.

If a county has a monitor violating the ozone standard, that county will be considered a nonattainment area. If that county is part of a Metropolitan Statistical Area (MSA) as defined by the U.S. Census Bureau, the entire MSA is presumed to have dirty air and will be listed as a nonattainment area. Table C identifies all the counties and MSA's expected to be nonattainment areas, based on ozone data from 1997-1999.

Table C: Current Versus Likely Nonattainment Areas

Note: Current 1-hour nonattainment areas are in **BOLD** print.

State	Metropolitan Statistical Area or CO
AL	**Birmingham, AL**
AL	Clay Co
AL	Huntsville, AL
AL	Mobile, AL
AR	Memphis, TN-AR-MS
AZ	**Phoenix-Mesa, AZ**
CA	**Amador Co**
CA	**Bakersfield, CA**
CA	**Calaveras Co**
CA	**Fresno, CA**
CA	**Imperial Co**
CA	**Kings Co**
CA	**Los Angeles-Riverside-Orange County, CA**
CA	**Mariposa Co**
CA	**Merced, CA**
CA	**Modesto, CA**
CA	**Nevada Co**
CA	Redding, CA
CA	**Sacramento-Yolo, CA**
CA	**San Diego, CA**
CA	**San Francisco-Oakland-San Jose, CA**
CA	**Stockton-Lodi, CA**
CA	Tehama Co
CA	**Tuolumne Co**
CA	**Visalia-Tulare-Porterville, CA**
CA	**Yuba City, CA**
CT	**Hartford, CT**
CT	**Litchfield Co**
CT	**Middlesex Co**
CT	**New Haven-Bridgeport-Stamford-Waterbury, CT**
CT	**New London-Norwich, CT**
DC	**Washington-Baltimore, DC-MD-VA-WV**
DE	Dover, DE
DE	**Philadelphia-Wilmington-Altantic City, PA-NJ**
DE	Sussex Co
FL	Pensacola, FL
FL	Tampa-St. Petersburg-Clearwater, FL
GA	**Atlanta, GA**
GA	Augusta-Aiken, GA-SC
GA	Columbus, GA-AL
GA	Dawson Co
GA	Macon, GA
IL	**Chicago-Gary-Kenosha, IL-IN-WI**
IL	**St. Louis, MO-IL**
IN	**Chicago-Gary-Kenosha, IL-IN-WI**
IN	Evansville-Henderson, IN-KY
IN	Fort Wayne, IN
IN	Indianapolis, IN
IN	La Porte Co
IN	Louisville, KY-IN
IN	South Bend, IN
KY	Cincinnati-Hamilton, OH-KY-IN
KY	Clarksville-Hopkinsville, TN-KY
KY	Edmonson Co
KY	Evansville-Henderson, IN-KY
KY	Graves Co
KY	Hancock Co
KY	Huntington-Ashland, WV-KY-OH
KY	Lexington, KY
KY	Livingston Co
KY	**Louisville, KY-IN**
KY	Mc Lean Co
KY	Owensboro, KY
KY	Simpson Co
LA	**Baton Rouge, LA**
LA	Houma, LA
LA	Iberville Par
LA	Lake Charles, LA
LA	Shreveport-Bossier City, LA
LA	New Orleans, LA
MA	Barnstable-Yarmouth, MA
MA	Boston-Worcester-Lowell-Brock, MA
MA	Pittsfield, MA
MA	**Springfield, MA**

State	Metropolitan Statistical Area or CO
MD	**Kent Co**
MD	**Philadelphia-Wilmington-Altantic City, PA-NJ**
MD	**Washington-Baltimore, DC-MD-VA-WV**
ME	Hancock Co
ME	Portland, ME
ME	Sagadahoc Co
ME	York Co
MI	Benton Harbor, MI
MI	Benzie Co
MI	Cass Co
MI	Detroit-Ann Arbor-Flint, MI
MI	Grand Rapids-Muskegon-Holland, MI
MI	Huron Co
MI	Kalamazoo-Battle Creek, MI
MI	Mason Co
MO	Kansas City, MO-KS
MO	**St. Louis, MO-IL**
MO	Ste Genevieve Co
MS	Biloxi-Gulfport-Pascagoula, MS
MS	Memphis, TN-AR-MS
NC	Caswell Co
NC	Charlotte-Gastonia-Rock Hill, NC-SC
NC	Duplin Co
NC	Fayetteville, NC
NC	Granville Co
NC	Greensboro-Winston-Salem-Hight Point, NC
NC	Greenville, NC
NC	Haywood Co
NC	Hickory-Morganton-Lenoir, NC
NC	Northampton Co
NC	Raleigh-Durham-Chapel Hill, NC
NC	Rockingham Co
NC	Rocky Mount, NC
NH	Boston-Worcester-Lowell-Brock, MA
NJ	**New York-Northern New Jersey-Long Island, NJ-NY**
NJ	Philadelphia-Wilmington-Altantic City, PA-NJ
NY	Buffalo-Niagara Falls, NY
NY	Jamestown, NY
NY	Jefferson Co
NY	New York-Northern New Jersey-Long Island, NJ-NY
NY	Rochester, NY
OH	Canton-Massillon, OH
OH	Cincinnati-Hamilton, OH-KY-IN
OH	Cleveland-Akron, OH
OH	Clinton Co
OH	Columbus, OH
OH	Dayton-Springfield, OH
OH	Huntington-Ashland, WV-KY-OH
OH	Knox Co
OH	Lima, OH
OH	Parkersburg-Marietta, WV-KY-IN
OH	Toledo, OH
OH	Youngstown-Warren, OH
OK	Oklahoma City, OK
OK	Tulsa, OK
PA	Allentown-Bethlehem-Easton, PA
PA	Altoona, PA
PA	Armstrong Co
PA	Clearfield Co
PA	Erie, PA
PA	Franklin Co
PA	Greene Co
PA	Harrisburg-Lebanon-Carlisle, PA
PA	Johnstown, PA
PA	**Lancaster, PA**
PA	Monroe Co
PA	**Philadelphia-Wilmington-Altantic City, PA-NJ**
PA	**Pittsburgh, PA**
PA	Reading, PA
PA	Scranton-Wilkes-Barre-Hazleton, PA
PA	Sharon, PA
PA	State College, PA
PA	York, PA
RI	Providence-Warwick-Pawtucket, RI
SC	Abbeville Co
SC	Augusta-Aiken, GA-SC
SC	Barnwell Co
SC	Charlotte-Gastonia-Rock Hill, NC-SC
SC	Chester Co
SC	Columbia, SC
SC	Darlington Co
SC	Greenville-Spartanburg-Anderson, SC
SC	Oconee Co
TN	Chattanooga, TN-GA
TN	Haywood Co
TN	Jefferson Co
TN	Johnson City-Kingsport-Bristol, TN-VA
TN	Knoxville, TN
TN	Lawrence Co
TN	Memphis, TN-AR-MS
TN	Nashville, TN
TN	Putnam Co
TX	Austin-San Marcos, TX
TX	**Beaumont-Port Arthur, TX**
TX	**Dallas-Fort Worth, TX**
TX	**Houston-Galveston-Brazoria, TX**
TX	Longview-Marshall, TX
TX	San Antonio, TX
TX	Tyler, TX
VA	Caroline Co
VA	Frederick Co
VA	Hampton Co
VA	Madison Co
VA	Richmond-Pertersburg, VA
VA	Roanoke, VA
VA	Suffolk Co
VA	**Washington-Baltimore, DC-MD-VA-WV**
WI	Chicago-Gary-Kenosha, IL-IN-WI
WI	Door Co
WI	Janesville-Beloit, WI
WI	Jefferson Co
WI	Kewaunee Co
WI	**Manitowoc Co**
WI	**Milwaukee-Racine, WI**
WI	Sheboygan, WI
WI	Walworth Co
WV	Charleston, WV
WV	Greenbrier Co
WV	Huntington-Ashland, WV-KY-OH
WV	Parkersburg-Marietta, WV-OH
WV	Steubenville-Weirton, OH-WV
WV	Wheeling, WV-OH

Many cities in the Midwest and Southeast have not been required to establish as many pollution controls on businesses and industry, and likely did not have to weigh how new highways and increased transportation demand impact air quality because they have been in attainment of the 1-hour ozone standard. The 8-hour ozone standard confirms that these areas have a chronic smog problem that is harming human health and the environment.

Smog Impacts on Health and Environment

Ground-level ozone, the main component of "smog," is the most pervasive air pollution problem we face in the United States. Although ozone itself is a colorless, odorless gas, it combines with particles in the air to create a yellowish haze that cloaks our cities as well as rural areas. About 1 in 3 Americans live in areas that exceed the 1-hour ozone standard. The number of Americans living in areas exceeding the 8-hour standard is expected to be considerably higher once the affected areas have been defined.

Top 10 Smoggy Parks

1. Joshua Tree National Monument, CA
2. Great Smoky Mountains National Park, TN
3. Sequoia National Park, CA
4. Shenandoah National Park, VA
5. Cape Cod National Seashore, MA
6. Cowpens National Battlefield, SC
7. Great Smoky Mountains National Park, NC
8. Acadia National Park, ME
9. Yosemite National Park, CA
10. Indiana Dunes National Lakeshore, IN*

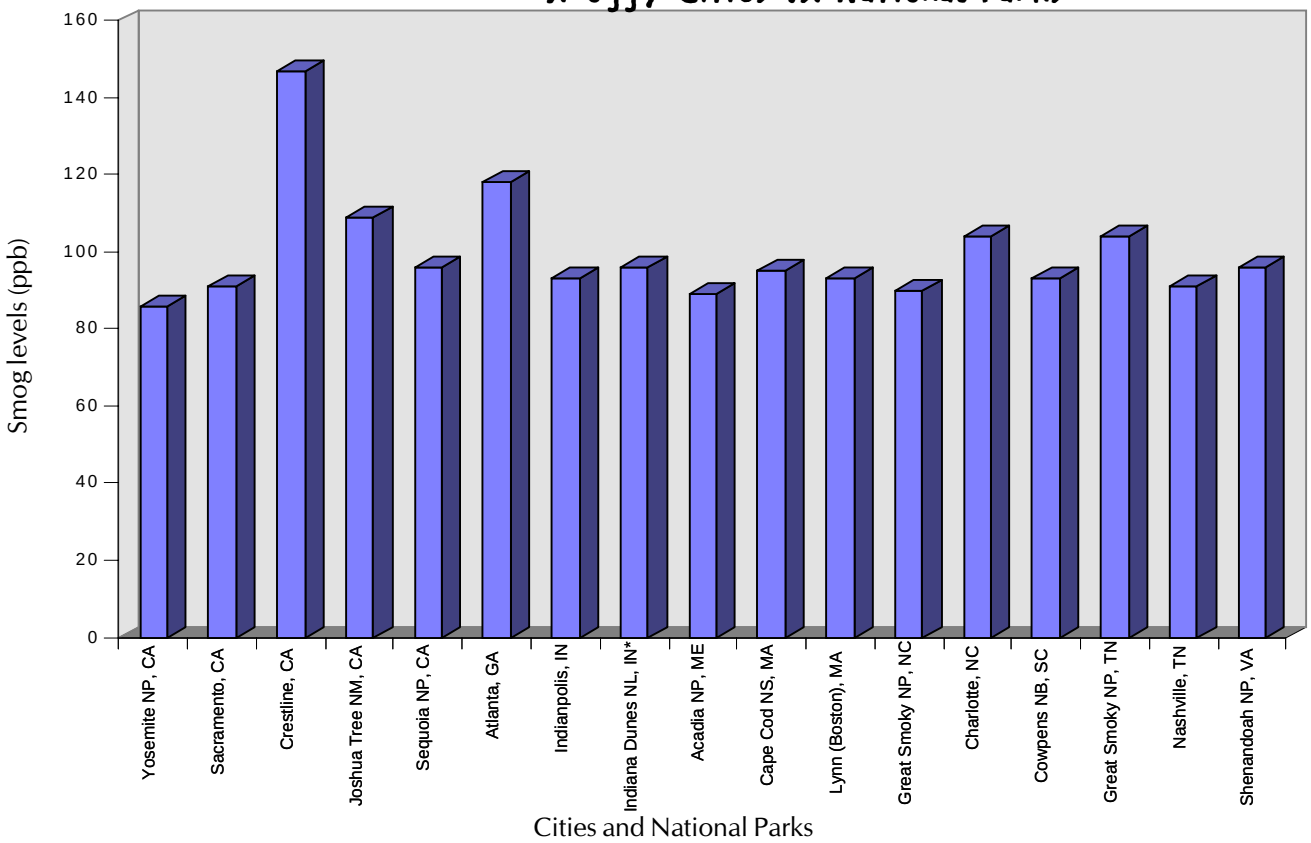
* based on 2 years of data

Smog in our parks

The outdoors provides a wonderful escape from the everyday pressures of modern life — our way to connect with the natural world in which we live. Every year tens of millions of people visit our national parks and wilderness areas to enjoy some of the pristine trails, picturesque views, abundant wildlife, and to breathe clean air. When we strap on our hiking boots and travel to the mountains to escape the dirty air of the city, the last thing we want to think about is smog. Unfortunately, smog in some of our most secluded areas seriously affects our ability to breathe easily in these areas.

Smog in many of our national parks and wilderness areas is as smoggy, if not smoggier than our densely populated metropolitan areas. The smog problem has become so pervasive that some of our national parks and wilderness areas should be classified as a nonattainment areas under the 8-hour standard, based on the past 3 years of data.

Smoggy Cities vs. National Parks



Trends of smog in the parks

The Environmental Protection Agency reported that in recent years, the smog trend in some national parks has gotten worse. Smog concentrations increased at 17 of 24 National Park Service monitoring sites from 1992 to 1998, the most recent comprehensive data that is available.[4]

Ozone levels at Great Smoky Mountain National Park (our country's most visited and biologically diverse national park) and Shenandoah were 30 to 40 percent higher than the national ozone standard. This pollution can cause severe ecological and human health damage.

A study done by Harvard University found that casual day hikers in a Northeastern wilderness area experienced reduced lung function on days where ozone levels fell below the federal health standard for ozone smog. They found that healthy hikers experienced reduced lung function on days where ozone concentrations were between 21 to 74 parts per billion (ppb), significantly below the 85 ppb limit of the 8-hour standard.[5] People who have asthma or respiratory problems were four times more susceptible to ozone than other hikers, but they discovered that even healthy non-smoking hikers experienced reduced lung function.

Other environmental effects

Ground-level ozone is also one of the most pervasive and detrimental pollutants known to affect vegetation. Ozone damages the leaves of many plants and trees, and under controlled experiments, has been demonstrated to decrease growth in sensitive species. Models have shown that at current smog levels, growth in sensitive Northeastern forests is being reduced by over 10 percent.[6]

Ground-level ozone can damage trees and other vegetation. Virtually every type of plant – conifers, broad-leafed trees, shrubs, herbs, and grasses – is susceptible to smog's effects. Ozone interferes with production and storage of starches, which reduces growth rates and can weaken plants, making them more vulnerable to disease, insect attacks, and other environmental stresses.

Not all oxides of nitrogen form ozone. There are other ways that these emissions can harm our environment as well. Nitrogen deposition into watersheds contributes to the over-fertilization of coastal and estuary water systems. Too much nitrogen in these water bodies results in increased algae growth, which limits the oxygen available to sustain fish and other aquatic life. Although the nitrogen contribution from the air varies from place to place, according to EPA's Great Waters Report, an estimated 27 percent of nitrogen pollution entering the Chesapeake Bay can be attributed to air emissions.[7]

Smog and acid rain

Nitrogen oxides are also a precursor to nitrates, a major component of acid deposition (often called acid rain), that damages both land and water systems. In many acid-sensitive streams and lakes in eastern North America, high acidity has resulted in the loss of numerous fish and aquatic species. Acid deposition also strips soils of plant nutrients and frees up aluminum, which is toxic to both plant and animal life. The highest nitrate deposition in the U.S. occurs in a 500 - mile swath from southern Illinois through Northern New York.[8]

Smog in Parks Facts

- On May 1, 1998, **Acadia National Park** was the first place on the East Coast to record an ozone violation, and have recorded higher concentrations of ozone smog than Boston and Philadelphia.
- In 1999, **Great Smoky Mountains National Park** recorded 52 days where the air pollution levels violated the federal health standard, therefore making the air unhealthy to breathe on one out of every three summer days.
- The 3-year average of ozone in **Shenandoah National Park** shows that it has recorded higher concentrations of ozone than any city in the Southeast except Atlanta, GA, and Charlotte, NC
- With just two years of data, it appears that **Indiana Dunes National Lakeshore** will be one of the dirtiest spots in Indiana.
- **Cape Cod** is routinely the dirtiest spot in MA, often exceeding pollution levels in Boston and its suburbs.
- Over the last three years, **Sequoia-Kings Canyon** and **Joshua Tree National Park** in CA have averaged 25 and 33 summer smog days respectively
- Parks on the edge: **Yosemite, Pinnacles**, **Los Padres** and **Channel Islands** national monuments.

Virginia's Shenandoah National Park and the Blue Ridge Mountains also fall victim to excess nitrate pollution. Currently 50% of Virginia's native brook trout streams have a reduced capacity to host trout populations due to acid deposition, and 6% are incapable of supporting trout or other fish populations because of their chronic acid state.[9] A recent study sponsored by Trout Unlimited found that if current acid deposition levels continue the number of streams incapable of supporting fish populations is projected to climb to 35% by 2041. The study concluded that a 70% reduction in acid deposition would be required to preserve the 50% of Virginia's native brook trout streams that are currently "non-acidic" and fully capable of supporting fish populations.[10]

Health effects

Ozone is a powerful lung irritant, and is able to burn through lung tissue and cell walls. With prolonged exposure to unhealthy levels of ozone, the tissue in the lung walls becomes inflamed and swollen and eventually scars, making it more difficult to get enough oxygen. In addition, as the lungs become scarred, they are not able to filter bacteria and other disease-causing organisms, making it harder for the body to fight off disease and infections.[11] When ozone levels are high, one might experience shortness of breath, cough, burning in the eyes and chest pain when breathing deeply. Over time, repeated exposure to high ozone levels can cause as much lung damage as smoking a pack of cigarettes a day.[12]

High ozone levels are also linked to increased hospitalizations due to respiratory problems, including asthma and other chronic lung diseases. A 1999 study by Abt Associates found that high smog levels in the eastern U.S. cause 159,000 trips to the emergency room; 53,000 hospital admissions; and trigger over 6 million asthma attacks each summer.[13]

While everyone can have a reaction to high ozone levels, certain groups of people are especially sensitive to the effects of ozone at levels below the federal health-based standard:

- **Children**: Children breathe in more air per pound of body weight and spend more time playing outdoors than adults.[14] They are also less likely to notice the warning signs of ozone exposure and curtail outdoor activity. Childhood asthma rates have skyrocketed in the last decade, adding to the risk from air pollution exposure.

- **People with asthma and other lung diseases**: Ozone is a powerful trigger for asthma and other respiratory diseases and ailments. Breating during an asthma attack is likened to what a healthy person experiences when breathing through a cocktail straw. Likewise, emphysema and chronic bronchitis are worsened by exposure to ozone.

- **People who work or exercise outdoors**: Ozone has a cumulative effect, and its effects are magnified when the body is exercising or doing manual labor, such as construction or landscaping. A study by the Harvard School of Public Health and the Appalachian Mountain Club found that healthy hikers experienced decreased lung function at ozone levels well below the federal standard.[15]

- **Elderly**: The aging process makes the lungs weaker and more susceptible to disease. This, and chronic lung diseases, put the elderly at a higher risk of sickness or hospitalizations from ozone pollution exposure.

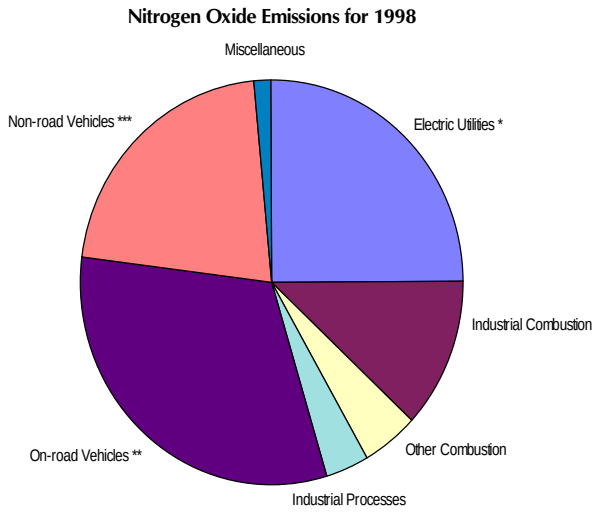
Sources of Ozone Smog Pollution

Ozone is created when nitrogen oxides (NOx) and volatile organic compounds (VOCs) bake in heat and sunlight. According to EPA, the total concentration of VOCs has dropped 42% between 1970 and 1998, while NOx emissions have increased 17%.

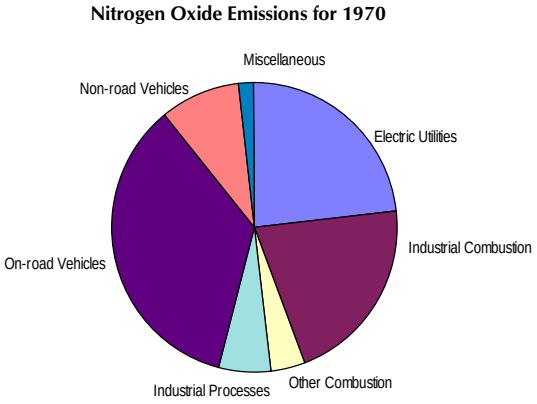
Nitrogen oxides

Nitrogen oxides (NOx) are a by-product of fossil fuel consumption. Burning coal, oil, gasoline and natural gas produce almost all of the nation's NOx. In 1998, on-road vehicles (cars, trucks and buses) made up the largest share of the NOx (32%), followed by electric utility fuel combustion (25%), non-road engines (boats, trains, construction and agricultural equipment) (22%), other industrial fuel combustion (17%), and miscellaneous sources (4%).

Nitrogen Oxide Emissions Across the U.S. 1998 vs. 1970



Total - 24, 454 thousand short tons



Total - 20, 928 thousand short tons

* Of the total 6103 short tons from electric utilities, 5395 or 88% are emitted by coal-burning power plants
** Of the total 7765 short tons from on-road vehicles, 2849 (37%) are from gasoline cars and motorcycles, 1917 (25%) light-duty gasoline trucks (SUV, minivans and pick-ups), 2676 (34%) from diesel vehicles.
*** Of the total 5280 total short tons from non-road engines, 2809 (53%) are from non-road diesel engines dominated by construction and farm equipment, 1008 (19%) from marine vessels, 947 (18%) from railroads.
Source: U.S. Environmental Protection Agency, National Air Quality and Emissions Trends Report, 1998

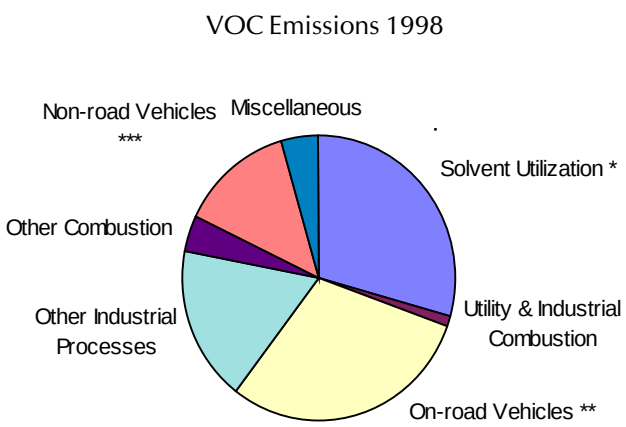
Volatile Organic Compounds

There are 58 volatile organic compounds, also known as hydrocarbons or carbonyls, targeted as a particular concern in ozone formation.[17] Gasoline is one of the primary

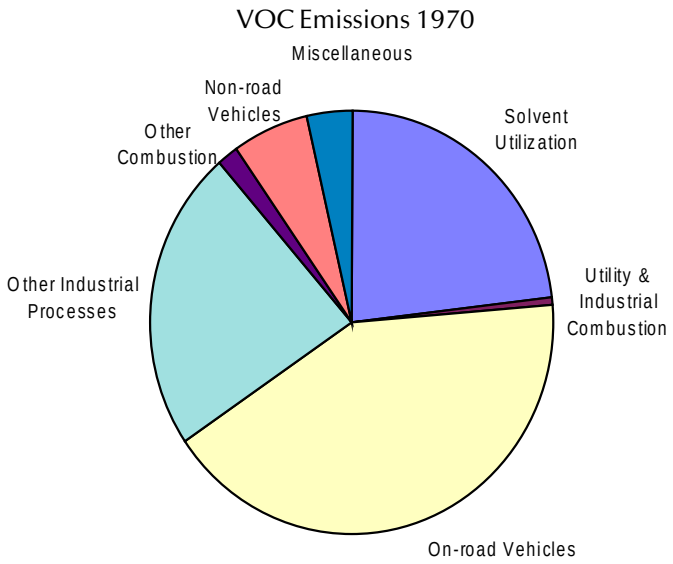
sources for VOCs, which evaporate easily in hot weather, so cars emit VOCs while burning gasoline, but also when they are parked all day. Solvents used in industrial cleaning and manufacturing processes are large sources of VOCs. Chemical and petroleum refining emit VOCs, however, smaller businesses like dry cleaners and auto body repair shops are also significant VOC sources.

In 1998, on-road vehicles surpassed solvent use as the main source of VOCs because there was an estimated 7% decrease in solvent use from 1997 to 1998. As a result, on-road vehicles including cars, trucks and buses were responsible for 30% of the nation's VOC emissions, followed by solvent use (29%), other industrial processes (18%), non-road engines (boats, trains, construction and agricultural equipment) (14%), fuel combustion (5%), and miscellaneous sources (4%). Over the past 30 years, emissions from on-road vehicles have decreased 41%, however, they remain the largest source of hydrocarbon pollution.

Volitile Organic Compound Emissions Across the U.S. 1998 vs. 1970



Total - 17,917 thousand short tons



Total - 30,982 thousand short tons

*Of the total 5278 short tons of solvent utilization, 2224 (42%) was from industrial surface coatings such as paints and adhesives and 1099 (21%) was from consumer solvents used in the home.
** Of the total 5325 short tons of on-road emissions, 2832 (53%) was from gasoline cars and motorcycles, 2015 (37%) gasoline light trucks (SUVs, minivans, and pick-ups), and 222 (4%) were from diesel vehicles.
*** Of the total 2461 short tons of non-road emissions, 1794 (72%) was from non-road gasoline engines, dominated by lawn and garden equipment and recreational marine vessels, 405 (16%) diesel engines, 177 (7%) aircraft.
Source: U.S. Environmental Protection Agency, National Air Quality and Emissions Trends Report, 1998

The final ingredient needed to create ozone is hot, sunny weather that bakes the NOx and VOCs and creates the chemical reaction that leads to ozone smog. In order to reduce ozone levels, we have to reduce its components, because we have no control over the amount of sunlight and heat we receive from year to year.

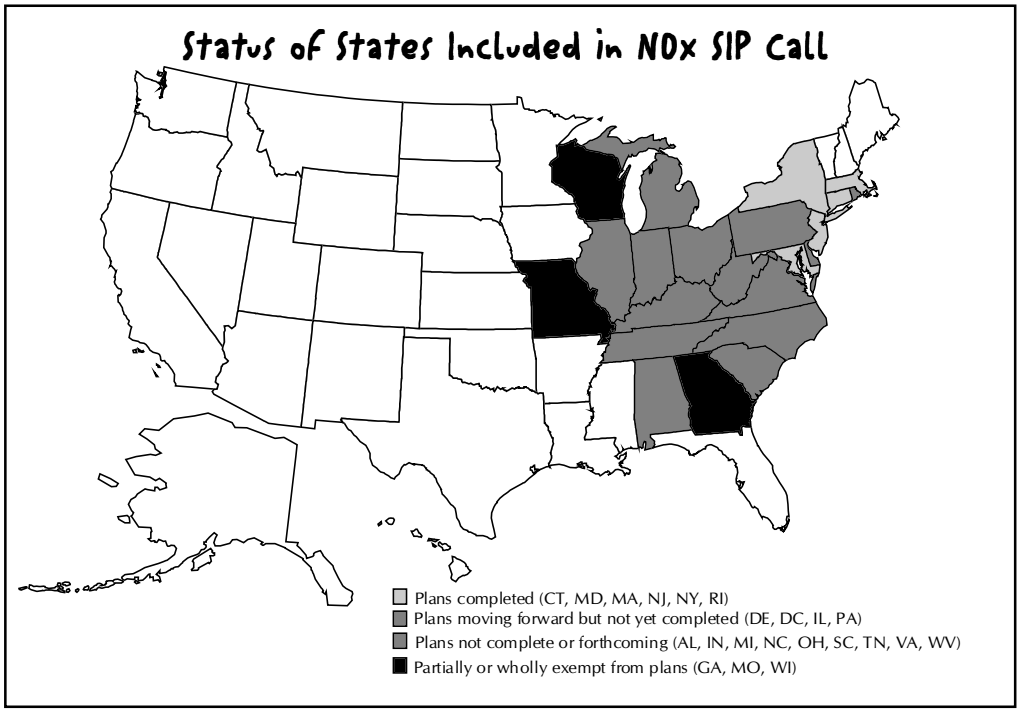
What Must Be Done: Smog & Policy Decisions for 2000

Cleaner power plants: Implement the NOx SIP Call

Coal-fired power plants are the single largest industrial polluter, and they have enjoyed a loophole in the Clean Air Act that allows older plants to avoid cleaning up to the standards met by new plants today. As a result many plants are between 30-50 years old, and are 4-10 times dirtier than new power plants built today.

According to an April 2000 report by U.S. Public Interest Research Group, the dirtiest 594 power plants emitted 5.4 million tons of NOx in 1999. If all these plants met the standards in place for new power plants, while running at the same capacity, 3.6 million tons, or 66% of the current pollution, would be avoided. Power plants currently emit 25% of the nation's nitrogen oxides, second only to cars and trucks. Power plants also emit sulfur dioxide, carbon dioxide and mercury and other toxic heavy metals, which lead to other environmental and health problems not associated with ozone smog.

In 1998, EPA issued a rule (known as the "NOx SIP Call") requiring 22 Eastern states to reduce power plant and other large industrial emissions of nitrogen oxide by 85% below 1990 levels during five summer months. As a result, each state must revise its State Implementation Plan (SIP) to account for how it will meet its assigned NOx emissions target during the summer smog season. Reductions are needed from this large region of the country to address the transport of ozone over hundreds of miles. State plans were initially due in September 1999 but court challenges have delayed the process at least one year and put progress on hold for many months.



Eight states and a number of utilities sued EPA, refusing to comply with the emission budgets assigned to them. Those states included were: Alabama, Indiana, Michigan, North Carolina, Ohio, South Carolina, Virginia, and West Virginia. Initially, the NOx SIP Call rule was put on hold by the DC Circuit of the U.S. Court of Appeals, but the court later upheld EPA's right to require states to develop plans. At this point, although the court has ruled that the states must complete the plans, it has not ruled on when the plans must be done. EPA is now seeking the court's permission to move forward with the deadlines that were in the initial rule. The court also ruled that EPA must revise the emission budgets for Georgia and Missouri and Wisconsin. Industry and opposing states are continuing to get decisions reversed, which is unlikely at this point. The map above illustrates the status of power plant cleanup in the Eastern U.S.

If the full emission reductions are not achieved from power plants, states may find it very difficult to meet the eight hour ozone standard. In addition, they will make it difficult for downwind states to comply with the federal ozone standard.

Cleaner diesel: Require clean engines and fuel

Diesel trucks and buses are a growing part of the pollution problem in the United States. Currently, diesel trucks and buses are responsible for 34% of the emissions from on-highway vehicles, although they make up only 2% of the registered vehicles on the road. Over the past 30 years, emissions from diesel trucks have increased 60%. In comparison, emissions from cars have *decreased* 42% over that same period.[18] Cars are much cleaner today because lead was taken out of gasoline, allowing manufacturers to install catalytic converters and other emission control equipment over the years.

In 30 years little has been done to clean up diesel engines however. In fact, diesel fuel is so dirty that trucks are not able to use any catalytic converters to control NOx and other emissions at this time. In May 2000, EPA proposed to clean up diesel fuel and engines beginning in 2007. The Clean Air Network and other environmental and health organizations hailed this proposal as a good and long overdue act. Specifically, the proposal would:

- **reduce sulfur levels in diesel fuel by 97%**. Sulfur acts like lead to poison catalysts, making it impossible to use pollution control equipment. Also like lead, levels must be reduced to nearly zero in order to have an impact on emissions from trucks and buses. Because dirty fuel can destroy the catalyst, all fuel must be clean by mid-2006 so that model year 2007 trucks can use it without fear of damage to the engine.
- **reduce emissions from diesel engines by 95%**. With cleaner fuel, trucks can be considerably cleaner. EPA, by taking an integrated approach to the fuel and engine system, was able to propose cleaning up truck and bus emissions so that they will be more in line with the level of emission reductions that have already occurred for cars over the past 30 years.
- **provide incentives for manufacturers to go beyond the requirements of the proposal**. EPA is proposing to create a "Blue Skies" certification option for manufacturers that make engines cleaner than the proposed requirements. Similar to the Energy Star program for appliances and computers, this would allow consumers and manufacturers to choose to buy cleaner products that use advanced technology.

Setting the most stringent standards possible for diesel engines must be a national priority. First, diesel exhaust is a probable human carcinogen, and is responsible for more than 1/3 of the on-road vehicle emissions that cause smog. Second, the average diesel engine has a life of over 1,000,000 miles. EPA has put forth an aggressive proposal to clean up diesel engines and fuels. We must stress that cleaning up diesel fuel holds the key to cleaning up emissions. Diesel fuel refiners and retailers are pushing very hard to relax sulfur requirements, reducing sulfur levels but not to levels necessary to use catalytic converters. There is no room for compromise on sulfur levels if we are going to clean up engine emissions. Sulfur must be removed to near zero levels to make this proposal go forward. EPA plans to finalize the diesel rule by the end of 2000.

Conclusion

Ozone smog is a serious health and environmental threat. Over the past few years, it has become even more apparent that we face a national, not just an urban, problem. We need to move forward with strong national and regional programs to clean the air to levels that are safe for our children and environment.

This year offers a number of opportunities to address long-term and emerging smog problems with powerful solutions. Within the next year, EPA will determine the areas out of compliance with the ozone standard, based on data collected in 1997-99. There are 333 counties in 33 states that have monitored dirty air over the past three years and will be designated as being in nonattainment of the 8-hour ozone health standard. It is clear that this is not an isolated problem, but one that the nation as a whole needs to tackle.

In addition, EPA and states will make decisions this year that will set a course to reach clean air goals. If EPA adopts strong nationwide rules to clean up diesel trucks, buses and fuels, one of the largest sources of pollution will be much cleaner in the future. If eastern states commit to cleaning up power plants, the largest industrial polluter will emit less smog-forming pollution. But if we fall short, the task of making the air safe to breathe will be much harder and more costly for all of us. We owe it to the future to act now to clear the air.

Endnotes:

1. Sietz, John S., Memorandum to Air Directors, Regions I-X: "Boundry Guidance on Air Quality Designations for the 8-hour Ozone National Ambient Air Quality Standard (NAAQS or Standard)" and "8-hour Designations," March 28, 2000.
2. Ibid.
3. Clean Air Network and Clean Air Task Force, *Smog Watch: Pollution & Solutions to Monitor in 1999*. May, 1999.
4. U.S. EPA, "National Air Quality and Emissions Trends Report, 1998," Office of Air Quality Planning and Standards, Emissions Monitoring and Analysis Division, Air Quality Trends Analysis Group, Research Triangle Park, North Carolina 27711, March 2000. <http://www.epa.gov/oar/aqtrnd98>.
5. Environmental Health Perspectives, Vol. 106, Number 2, February 1996. "Effects of Ozone and other Pollutants on the Pulmonary Function of Adult Hikers," Harvard Medical School, Boston, MA. <http://ehpnet1.niehs.nih.gov/docs/1998/106p93-99korrick/abstract.html>.
6. Ollinger, Scott, John Aber and Peter Reich. Simulating ozone effects on forest productivity: Interactions among leaf-canopy and stand level processes. Ecological Applications. 1997 7(4) 1237-1251.
7. U.S. EPA, Deposition of Air Pollutants to the Great Waters, June 1997, p. 142.
8. National Atmospheric Deposition Program, 1997. Wet Deposition/National Trends Network.
9. A.T. Herlihy, et. al., The Effects of Acid Deposition on Streams in the Appalachian Mountains and Piedmont Region of the Mid-Atlantic United States, Water Resources Research, August 1993.
10. Art Bulger, et al., Acid Rain: Current and Projected Status of Coldwater Fish Communities in the Southeastern U.S. in the Context of Continued Acid Deposition, Trout Unlimited, July 1998.
11. American Lung Association, Health Effects of Outdoor Air Pollution, 1996, 14-15.
12. Taskin et al. "The UCLA Population Studies of Chronic Obstructive Respiratory Disease: IX. Impact of Air Pollution and Smoking on Annual Changes in Forced Expiratory Volume in One Second" American Journal of Respiratory Critical Care Medicine 1994; 149: 1209-17.
13. Clean Air Task Force, "Out of Breath: Health Effects from Ozone in the Eastern United States," October 1999, p. ES-6.
14. National Association of Physicians for the Environment, "National Conference on Air Pollution Impacts on Body Organs an Systems, September 1995.
15. Korrick et al, "Effects of Ozone and Other Pollutants on Pulmonary Function of Adult Hikers," Environmental Health Perspectives, 106:2, February 1998.
16. U.S. EPA, Trends Report 1998, p. ES-4.
17. Ibid.
18. U.S. EPA, Trends Report 1998, p. A-9.

Appendix A: Explanation of Data

This is the main data table from which other tables are derived. Data was obtained from the U.S. Environmental Protection Agency's Office of Air Quality Planning and Standards in May, 2000. This is the data set that EPA and states are using to determine if monitors are in nonattainment or attainment of the 8-hour ozone standard.

Explanation of the columns:

State - Name of state

County - Name of county

Area location or site address - Where monitor is located

Metropolitan Statistical Area or County if V - For all counties violating the ozone standard, the Network compared counties in violation of the ozone standard with counties in U.S. Census Bureau-defined Metropolitan Statistical Areas. If a county was not part of an MSA, it was listed as a county. In the case of nonattainment designations, if a monitor is in violation of the ozone standard, the entire county or MSA is the presumptive boundary for the nonattainment area unless the state can provide detailed justification for drawing a smaller or larger area.

The Clean Air Network used "Metropolitan Counties in Alphabetical Order, By State, with Metropolitan Title" table, by the U.S. Census Bureau, available at http://www.census.gov/population/estimates/metro-city/a99mfips.txt to create this field.

Design Value - This is the three year average of the fourth highest maximum ozone value. If design value is above 85 parts per billion, the monitor is in nonattainment of the ozone standard.

Note (*/) -** Indicates irregularities in 1997-99 data not complete, and how EPA is looking at this monitoring site. Monitors with * denote that because data was not complete in 1999, EPA will be using data from 1996-98 to determine nonattainment. Monitors with ** denote that three consecutive years of data are not available at this monitor, but the two-year average is at or above 85 ppb and is likely to be in nonattainment if trends continue. Nonattainment status is based on any three consecutive years of data as a rolling average.

Viol? (V) - All monitors with a design value at or above 85 ppb is considered to be in violation of the ozone standard.

4th Max 8-Hour Avg. - The National Ambient Air Quality Standard for ozone is based on the 4th highest daily value over the course of the year. This value is then averaged over a three-year average to determine the design value. Therefore, we have listed the values in 1997, 1998, and 1998 that are averaged to determine if the monitor is in nonattainment or attainment. Due to space limitations, we did not provide data from 1996 but is available upon request.

8-Hour Days > = 85ppb - This lists the total number of days each year that the ozone levels were above 85 ppb. If there is a dot in the column, it means there were no days when the ozone levels were above the standard. The final column, 97-99, adds the number of dirty air days over the three year period.

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
AL	CLAY CO	Route 1, Box 351a, Ashland, Al	Clay Co	88		V	79	94	91	1	11	11	23
AL	ELMORE CO	Dewberry Trail, Elmore Cty., Wetumpka,al		79			70	91	77	.	6	1	7
AL	JEFFERSON CO	Fairfield, Pfd, 5229 Court B	Birmingham, AL	93		V	86	101	92	4	10	2	16
AL	JEFFERSON CO	Tarrant, Elem. Sch., 1269 Portland Stree	Birmingham, AL	93		V	88	95	96	4	6	2	12
AL	JEFFERSON CO	3425 Tamassee Lane, Hoover, Al 35226	Birmingham, AL	91		V	83	94	97	2	11	5	18
AL	JEFFERSON CO	Route 8 Mcadory	Birmingham, AL	89		V	79	96	92	3	9	4	16
AL	JEFFERSON CO	Pinson, High Sch., Box 360 Hwy 75 North	Birmingham, AL	88	*	V	78	92	96	3	6	.	14
AL	LAWRENCE CO	Us Forest Service Ranger Sta., H'wy 33.		84			76	85	92	.	4	8	12
AL	MADISON CO	Huntsville Old Airport Road.	Huntsville, AL	90		V	86	92	93	4	11	17	32
AL	MOBILE CO	Iroquois And Azalea Chickasaw,mobile Co.	Mobile, AL	88		V	81	98	85	3	8	4	15
AL	MOBILE CO	U.s. H'way 43, 5.5 Miles N Of I-65, Axis		76			71	78	79	.	1	2	3
AL	MONTGOMERY CO	1890 Dickenson Drive, Montgomery, Al.		84			68	92	92	.	12	6	18
AL	SHELBY CO	Bearden Farm	Birmingham, AL	97		V	84	107	100	3	16	25	44
AL	SUMTER CO	Kinterbish State Wildlife Mgt Area		67			62	68	73	.	.	.	.
AK	DENALI NP	Denali National Park		53			51	54	54	.	.	.	.
AZ	CHIRICAHUA NM	Chiricahua National Moument		68			65	67	72	.	.	.	.
AZ	GRAND CANYON NP	Grand Canyon National Park, W Rim Drive		73			72	72	76	.	.	.	.
AZ	MARICOPA CO	601 E Butler Dr & N 6th St,phoenix	Phoenix-Mesa, AZ	88		V	91	89	84	9	10	3	22
AZ	MARICOPA CO	Mt Ord-Tonto Nf	Phoenix-Mesa, AZ	86		V	84	88	87	3	6	6	15
AZ	MARICOPA CO	Usery Pass Rd/bush Hwy	Phoenix-Mesa, AZ	86		V	83	89	87	.	16	6	22
AZ	MARICOPA CO	16426 E Palisades Blvd,fountain Hills,az	Phoenix-Mesa, AZ	86		V	88	86	86	5	6	5	16
AZ	MARICOPA CO	3847 W Earll Dr-West Phoenix Station	Phoenix-Mesa, AZ	85		V	78	86	91	1	7	4	12
AZ	MARICOPA CO	7 Springs Rd-Faa Radar Stn-Tonto Nf	Phoenix-Mesa, AZ	85		V	81	90	86	1	10	7	18
AZ	MARICOPA CO	10005 E Osborn Rd,scottsdale	Phoenix-Mesa, AZ	87	*	V	82	87	82	3	7	2	22
AZ	MARICOPA CO	2035 N 52nd St-Emerg Mgmt Stn-Papago Prk		84			85	81	86	4	.	6	10
AZ	MARICOPA CO	25000 N Windy Walk-Pinnacle Peak Station		83			82	86	83	1	7	3	11
AZ	MARICOPA CO	4732 S Central Ave-South Phoenix Station		82	*		75	80	75	1	1	.	9
AZ	MARICOPA CO	Broadway & Brooks, Mesa		82			84	80	83	3	1	3	7
AZ	MARICOPA CO	4530 E Mckellips Rd-Falcon Field Station		82			81	83	82	1	2	.	3
AZ	MARICOPA CO	6180 W Encanto Blvd-Maryvale Station		80			78	86	77	1	4	1	6
AZ	MARICOPA CO	1845 E Roosevelt St-Central Phoenix Stn		78			77	79	78	2	1	1	4
AZ	MARICOPA CO	6000 W Olive Ave,glendale		75			76	70	81	.	.	.	.
AZ	MARICOPA CO	2857 N Miller Rd-S Scottsdale Stn		75			76	78	72	1	.	.	1
AZ	MARICOPA CO	163 S Price Rd-West Chandler Station		73			77	74	69	.	.	.	.

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
AZ	SAGUARO NM	S Old Spanish Trail, Saguaro (east) Nm		74			79	76	69	.	.	1	1
AZ	PIMA CO	22nd & Craycroft, Tucson		73			77	73	71	1	.	1	2
AZ	PIMA CO	12101 N Camino De Oeste, Tucson		71			70	70	73	.	.	.	.
AZ	PIMA CO	400 W River Road		69			65	72	71	.	.	1	1
AZ	PIMA CO	11330 S Houghton, Tucson		68			65	71	68	.	.	.	.
AZ	PIMA CO	151 W Congress, Tucson		63			65	62	64	.	.	.	.
AZ	YAVAPAI CO	Repeater Station Near Hillside		81			76	83	84	.	3	3	6
AZ	YUMA CO	9500 South Ave 8e Az Western College		82			79	89	79	.	5	1	6
AR	CRITTENDEN CO	Lh Pork And Colonial Drive	Memphis, TN-AR-MS	90		V	91	85	96	6	5	12	23
AR	MONTGOMERY CO	Forest Ranger Sta Quachita Natl Forest		72			68	71	77	.	1	.	1
AR	NEWTON CO	Hwy 16		77			73	78	82	.	1	2	3
AR	PULASKI CO	Remount Road N. Little Rock, Arkansas		83			78	81	90	.	2	5	7
AR	PULASKI CO	Pike Ave At River Road		75			76	74	76	1	.	1	2
CA	ALAMEDA CO	2614 Old 1st St., Livermore	San Francisco-Oakland-San Jose, CA	85		V	70	96	89	.	10	4	14
CA	ALAMEDA CO	3466 La Mesa Dr., Hayward		69			62	69	78	.	.	1	1
CA	ALAMEDA CO	40733 Chapel Way., Fremont		64			57	69	68	.	.	1	1
CA	ALAMEDA CO	Hospital-15400 Foothill Blvd,san Leandro		61			62	54	69	.	.	.	.
CA	ALAMEDA CO	822 Alice St., Oakland		40			39	36	45	.	.	.	.
CA	AMADOR CO	201 Clinton Road, Jackson, Ca 95642	Amador Co	96		V	84	107	97	3	28	13	44
CA	BUTTE CO	468 Manzanita Ave, Chico		77			66	78	87	.	1	5	6
CA	CALAVERAS CO	501 Gold Strike Road, San Andreas	Calaveras Co	96		V	85	105	99	4	28	18	50
CA	COLUSA CO	100 Sunrise Blvd., Colusa		76			73	78	77	.	1	1	2
CA	CONTRA COSTA CO	2975 Treat Blvd, Concord		81			72	88	85	.	6	4	10
CA	CONTRA COSTA CO	5551 Bethel Island Rd, Bethel Island		80			65	86	89	.	5	4	9
CA	CONTRA COSTA CO	583 W. 10th St., Pittsburg		68			59	71	74	.	1	1	2
CA	CONTRA COSTA CO	Unit 759 El Portal Shopping Center		54			56	50	58	.	.	.	.
CA	EL DORADO CO	1400 American River Trail, Cool	Sacramento-Yolo, CA	102		V	92	115	101	10	25	33	68
CA	EL DORADO CO	3111 Gold Nugget Way, Placerville, Ca	Sacramento-Yolo, CA	98		V	90	102	104	13	17	23	53
CA	EL DORADO CO	3337 Sandy Way, South Lake Tahoe, Ca		68			66	72	68	.	.	.	.
CA	FRESNO CO	908 N Villa Ave, Clovis	Fresno, CA	113		V	115	121	104	69	62	45	176
CA	FRESNO CO	3425 N First St, Fresno	Fresno, CA	106		V	98	117	104	23	44	45	112
CA	FRESNO CO	Sierra Skypark#2-Blythe & Chnnlt, Fresno	Fresno, CA	106		V	97	122	99	15	52	26	93
CA	FRESNO CO	9240 S. Riverbend, Parlier 93648	Fresno, CA	106		V	106	108	105	48	54	59	161
CA	FRESNO CO	4706 E. Drummond St., Fresno	Fresno, CA	102		V	92	113	102	11	41	26	78

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
CA	FRESNO CO	North Perimeter Road	Fresno, CA	90		V	92	92	88	11	12	7	30
CA	GLENN CO	420 E. Laurel St, Willows		77			76	74	81	.	1	2	3
CA	IMPERIAL CO	1029 Ethel St, Calexico High School	Imperial Co	91		V	93	92	89	8	7	9	24
CA	IMPERIAL CO	Calexico - East	Imperial Co	88		V	79	98	89	2	13	5	20
CA	IMPERIAL CO	150 9th St., El Centro	Imperial Co	92	*	V	96	80	.	11	1	.	40
CA	DEATH VALLEY NP	Death Valley Nm, Death Valley, Ca		79			77	82	79	.	1	1	2
CA	KERN CO	Johnson Farm, Edison, Ca. 93320	Bakersfield, CA	109		V	105	124	98	30	61	37	128
CA	KERN CO	20401 Bear Mtn Blvd, Arvin, Ca., 93203	Bakersfield, CA	109		V	105	114	109	46	64	85	195
CA	KERN CO	5558 California Ave, Bakersfield	Bakersfield, CA	99		V	97	103	99	23	38	47	108
CA	KERN CO	923 Poole Street, Mojave, Ca 93501	Bakersfield, CA	96		V	92	102	96	19	40	34	93
CA	KERN CO	3311 Manor St., Oildale	Bakersfield, CA	96		V	88	109	92	5	44	28	77
CA	KERN CO	548 Walker St., Shafter, Ca., 93263	Bakersfield, CA	93		V	85	101	94	4	27	25	56
CA	KERN CO	School-755 Stanislaus St, Maricopa	Bakersfield, CA	110	*	V	97	123	.	36	66	.	180
CA	KERN CO	1128 Golden State Highway, Bakersfield	Bakersfield, CA	101	*	V	90	105	.	11	33	.	91
CA	KINGS CO	807 South Irwin St., Hanford	Kings Co	99		V	97	104	98	26	31	23	80
CA	LAKE CO	905 Lakeport Blvd., Lakeport		61			58	55	70	.	.	.	.
CA	LOS ANGELES CO	840 Laurel, Glendora	Los Angeles-Riverside-Orange County, CA	118		V	120	140	95	24	37	7	68
CA	LOS ANGELES CO	San Fernando Rd, Santa Clarita (newhall)	Los Angeles-Riverside-Orange County, CA	112		V	116	128	94	25	34	11	70
CA	LOS ANGELES CO	803 N. Loren Ave., Azusa	Los Angeles-Riverside-Orange County, CA	110		V	112	124	95	17	22	7	46
CA	LOS ANGELES CO	924 N. Garey Ave., Pomona	Los Angeles-Riverside-Orange County, CA	101		V	95	119	89	10	20	8	38
CA	LOS ANGELES CO	752 S. Wilson Ave., Pasadena	Los Angeles-Riverside-Orange County, CA	99		V	99	115	84	13	17	3	33
CA	LOS ANGELES CO	3713 San Gabriel River Pkwy, Pico Rivera	Los Angeles-Riverside-Orange County, CA	93		V	96	104	79	7	12	2	21
CA	LOS ANGELES CO	228 W. Palm Ave., Burbank	Los Angeles-Riverside-Orange County, CA	92		V	95	101	82	6	13	3	22
CA	LOS ANGELES CO	315 W. Pondera St., Lancaster, Ca	Los Angeles-Riverside-Orange County, CA	88		V	90	103	73	7	18	.	25
CA	LOS ANGELES CO	18330 Gault St., Reseda	Los Angeles-Riverside-Orange County, CA	87		V	84	98	80	2	12	.	14
CA	LOS ANGELES CO	1630 N Main St, Los Angeles	Los Angeles-Riverside-Orange County, CA	89	*	V	81	95	76	3	9	2	19
CA	LOS ANGELES CO	Va Hospital, West Los Angeles		78	*		79	70	66	.	.	.	4
CA	LOS ANGELES CO	5234 W. 120th St., Hawthorne		77	*		83	63	64	2	.	.	6
CA	LOS ANGELES CO	3648 N. Long Beach Blvd., Long Beach		64			66	63	65	.	.	.	.
CA	LOS ANGELES CO	11220 Long Beach Blvd., Lynwood		47			52	51	40	.	.	.	.
CA	MADERA CO	Rd. 29 1/2 No. Of Ave 8 Madera County		84			70	94	88	.	13	9	22
CA	MARIN CO	534 4th St., San Rafael		51			48	47	59	.	.	.	.
CA	MARIPOSA CO	6440 Jerseydale Road, Jerseydale	Mariposa Co	94		V	93	97	93	7	14	12	33
CA	YOSEMITE NP	Turtleback Dome, Yosemite Natl' Pk 95389	Mariposa Co	86		V	81	94	85	3	9	4	16

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
CA	MENDOCINO CO	306 E. Gobbi Street, Ukiah, Ca		58			54	60	61	.	.	.	.
CA	MENDOCINO CO	899 So Main Street, Willits, Ca 95490		47			44	52	46	.	.	.	.
CA	MERCED CO	385 S. Coffee Avenue, Merced, Ca 95340	Merced, CA	97		V	74	112	105	1	35	37	73
CA	MONTEREY CO	750 Metz Road, King City, Ca 93930		62			59	67	61	.	.	.	.
CA	MONTEREY CO	35 Ford Rd-Tularcito Sch, Carmel Valley		60			61	57	63	.	.	.	.
CA	MONTEREY CO	24580 Silver Cloud Ct., Monterey, Ca		56			59	52	59	.	.	.	.
CA	MONTEREY CO	Ii-1270 Natividad Rd, Salinas		48			45	46	54	.	.	.	.
CA	NAPA CO	2552 Jefferson Ave., Napa		66			52	69	78	.	1	1	2
CA	NEVADA CO	26533 State Hwy 20, White Cloud Mtn	Nevada Co	88		V	83	93	90	1	14	17	32
CA	NEVADA CO	200 Litton Dr., Grass Valley, Ca		83			96	61	93	17	.	16	33
CA	NEVADA CO	Fs-10049 Donner Pass Rd, Truckee		66			73	63	64	.	.	.	.
CA	ORANGE CO	621 W. Lambert, La Habra		84			82	93	77	3	4	1	8
CA	ORANGE CO	23022 El Toro Rd., El Toro		83	*		77	83	71	2	3	.	13
CA	ORANGE CO	1610 S. Harbor Blvd., Anaheim		78	*		70	85	59	1	4	.	5
CA	ORANGE CO	2850 Mesa Verde Dr East, Costa Mesa		68			63	74	67	.	1	.	1
CA	PLACER CO	Dewitt-108 "c" Ave, Auburn	Sacramento-Yolo, CA	97		V	83	106	102	1	16	25	42
CA	PLACER CO	5000 Rocklin Road, Rocklin, Ca 95677	Sacramento-Yolo, CA	92		V	85	98	93	4	12	11	27
CA	PLACER CO	151 No Sunrise Blvd, Roseville, Ca	Sacramento-Yolo, CA	89		V	79	99	89	2	12	9	23
CA	PLACER CO	City Hall-33 S Main St, Colfax	Sacramento-Yolo, CA	86		V	77	93	89	2	8	9	19
CA	PLUMAS CO	267 N. Church St., Quincy, Ca. 95971		60			41	69	72	.	.	.	.
CA	RIVERSIDE CO	200 S. Hathaway St., Banning Ca	Los Angeles-Riverside-Orange County, CA	124		V	135	123	115	93	37	31	161
CA	RIVERSIDE CO	5888 Mission Blvd., Rubidoux	Los Angeles-Riverside-Orange County, CA	118		V	117	135	103	52	57	22	131
CA	RIVERSIDE CO	Fs-590 Racquet Club Ave, Palm Springs	Los Angeles-Riverside-Orange County, CA	100		V	100	107	94	26	30	19	75
CA	RIVERSIDE CO	506 W Flint St, Lake Elsinore	Los Angeles-Riverside-Orange County, CA	98		V	63	127	106	1	44	31	76
CA	RIVERSIDE CO	46-990 Jackson St., Indio	Los Angeles-Riverside-Orange County, CA	86		V	75	95	88	1	12	7	20
CA	RIVERSIDE CO	237 1/2 N. "d" St., Perris	Los Angeles-Riverside-Orange County, CA	86		V	55	113	90	.	28	6	34
CA	RIVERSIDE CO	135 N. Allesandro, Banning	Los Angeles-Riverside-Orange County, CA	94	*	V	96	79	.	9	2	.	29
CA	SACRAMENTO CO	50 Natoma Street, Folsom	Sacramento-Yolo, CA	101		V	91	113	101	8	26	18	52
CA	SACRAMENTO CO	7520 Sloughhouse Road, Sloughhouse	Sacramento-Yolo, CA	100		V	84	111	106	3	24	19	46
CA	SACRAMENTO CO	Del Paso-2701 Avalon Dr, Sacramento	Sacramento-Yolo, CA	91		V	83	98	94	1	10	6	17
CA	SACRAMENTO CO	12490 Bruceville Rd, Elk Grove, Ca	Sacramento-Yolo, CA	88		V	84	86	95	3	4	7	14
CA	SACRAMENTO CO	7823 Blackfoot Way, North Highlands	Sacramento-Yolo, CA	87		V	82	95	85	.	9	5	14
CA	SACRAMENTO CO	3801 Airport Road, Sacramento		.	**		.	88	82	.	6	1	7
CA	SACRAMENTO CO	1309 T St., Sacramento, Ca. 95814		80			69	85	86	1	4	4	9

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
CA	PINNACLES NM	Ne Entrance, Pinnacles Nm		82			76	88	82	1	5	.	6
CA	SAN BENITO CO	1979 Fairview Rd., Hollister		71			66	77	71	.	1	.	1
CA	SAN BERNARDINO CO	Lake Gregory-Lake Dr, Crestline	Los Angeles-Riverside-Orange County, CA	147		V	125	183	133	66	86	79	231
CA	SAN BERNARDINO CO	500 N. Dearborn, Redlands, Ca. 92373	Los Angeles-Riverside-Orange County, CA	129		V	127	148	113	77	58	36	171
CA	SAN BERNARDINO CO	24302 4th St., San Bernardino, Ca.	Los Angeles-Riverside-Orange County, CA	128		V	126	144	114	63	47	30	140
CA	SAN BERNARDINO CO	Beekley & Phelan Rds, Phelan	Los Angeles-Riverside-Orange County, CA	118		V	118	131	106	52	49	32	133
CA	SAN BERNARDINO CO	Arb, 1350 San Bernardino Rd., Upland	Los Angeles-Riverside-Orange County, CA	116		V	112	137	100	28	39	16	83
CA	SAN BERNARDINO CO	14360 Arrow Blvd., Fontana	Los Angeles-Riverside-Orange County, CA	114		V	117	131	95	30	42	15	87
CA	SAN BERNARDINO CO	17288 Olive St., Hesperia	Los Angeles-Riverside-Orange County, CA	111		V	110	121	102	50	37	25	112
CA	JOSHUA TREE NM	Joshua Tree National Monument	Los Angeles-Riverside-Orange County, CA	109		V	117	110	101	43	19	35	97
CA	SAN BERNARDINO CO	14029 Amargosa Road, Victorville, Ca	Los Angeles-Riverside-Orange County, CA	107		V	104	124	94	31	40	12	83
CA	SAN BERNARDINO CO	6136 Adobe Road, Twentynine Palms, Ca	Los Angeles-Riverside-Orange County, CA	92		V	92	94	91	14	11	13	38
CA	SAN BERNARDINO CO	200 E. Buena Vista, Barstow	Los Angeles-Riverside-Orange County, CA	90		V	91	86	93	11	5	10	26
CA	SAN BERNARDINO CO	Corner Of Athol And Telegraph		81			77	85	82	.	4	2	6
CA	SAN DIEGO CO	2300 Victoria Dr., Alpine	San Diego, CA	99		V	93	114	92	11	32	16	59
CA	SAN DIEGO CO	21441-W B Street		82			83	88	76	3	5	1	9
CA	SAN DIEGO CO	600 E. Valley Pkwy., Escondido		80			83	87	70	2	5	.	7
CA	SAN DIEGO CO	1155 Redwood Ave., El Cajon		77			76	86	70	1	5	1	7
CA	SAN DIEGO CO	80 E. "j" St., Chula Vista		75			81	75	70	3	.	.	3
CA	SAN DIEGO CO	5555 Overland Ave., San Diego		73			74	73	73	1	1	.	2
CA	SAN DIEGO CO	1701 Mission Ave., Oceanside		72			73	75	70	.	1	.	1
CA	SAN DIEGO CO	Miracosta College, Del Mar		72			73	73	70	2	.	.	2
CA	SAN DIEGO CO	1100 Paseo International, Otay Mesa, Ca		69			79	67	63	.	.	.	.
CA	SAN DIEGO CO	330a 12th Ave., San Diego, Ca. 92112		67			72	65	64	.	.	.	.
CA	SAN FRANCISCO CO	10 Arkansas St., San Francisco		42			42	42	44	.	.	.	.
CA	SAN JOAQUIN CO	24371 Patterson Pass Road, Tracy	Stockton-Lodi, CA	85		V	79	89	89	3	5	9	17
CA	SAN JOAQUIN CO	13521 E. Mariposa, Stockton		79			74	83	80	.	2	3	5
CA	SAN JOAQUIN CO	Hazelton-Hd, Stockton		79	*		71	86	69	.	4	.	6
CA	SAN LUIS OBISPO CO	235 Santa Fe Avenue, Paso Robles, Ca		82			73	98	77	.	21	.	21
CA	SAN LUIS OBISPO CO	6005 Lewis Avenue, Atascadero, Ca 93422		74			69	78	75	.	1	.	1
CA	SAN LUIS OBISPO CO	9 Le Sage Dr., Grover City		58			60	54	61	.	.	.	.
CA	SAN LUIS OBISPO CO	1300 Guadalupe Rd., Nipomo, Ca., 93444		58			56	58	60	.	.	.	.
CA	SAN LUIS OBISPO CO	1160 Marsh St., San Luis Obispo		55			56	53	56	.	.	.	.
CA	SAN LUIS OBISPO CO	Morro Bay Blvd & Kern Ave, Morro Bay		54			52	52	58	.	.	.	.

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
CA	SAN MATEO CO	897 Barron Ave., Redwood City		49			53	47	47	.	.	.	.
CA	SANTA BARBARA CO	Paradise Rd-Los Padres Nf		82			81	86	79	2	5	1	8
CA	SANTA BARBARA CO	Lfc #1-Las Flores Canyon, Capitan		78			80	82	74	1	2	2	5
CA	SANTA BARBARA CO	Hs & P Facility-500 M Sw, Lompoc		70			71	68	72	.	1	.	1
CA	SANTA BARBARA CO	Gobernador Rd, Carpinteria		69			73	69	65	1	1	1	3
CA	SANTA BARBARA CO	Airport Rd., Santa Ynez		67			70	67	66	.	1	.	1
CA	SANTA BARBARA CO	380 N Fairview Avenue, Goleta		66			74	63	61	.	.	.	.
CA	CHANNEL ISLANDS NP	Santa Rosa Island -Becher's Bay		66			63	66	69	.	.	.	.
CA	SANTA BARBARA CO	Sts Power Plant, Vandenberg Afb		65			63	66	67	.	.	.	.
CA	SANTA BARBARA CO	El Capitan St Prk, Hwy 101, Capitan		64			68	62	62	.	1	.	1
CA	SANTA BARBARA CO	3 W. Carrillo St., Santa Barbara, Ca.		63			66	62	62	.	.	.	.
CA	SANTA BARBARA CO	Gtc B-Hwy 101 Near Nojoqui Pass, Gaviota		63			63	63	63	.	1	.	1
CA	SANTA BARBARA CO	128 S 'h' St, Lompoc		61			64	57	63	.	.	.	.
CA	SANTA BARBARA CO	500 S Broadway, Santa Maria		53			58	49	52	.	.	.	.
CA	SANTA CLARA CO	13030 Murphy Ave., San Martin, Ca 95046		80			70	94	78	.	6	3	9
CA	SANTA CLARA CO	9th & Princeville, Gilroy		76			70	85	73	.	4	.	4
CA	SANTA CLARA CO	306 University Ave., Los Gatos		71			62	78	74	.	2	1	3
CA	SANTA CLARA CO	120b N 4th St, San Jose		65			57	70	69	.	1	.	1
CA	SANTA CLARA CO	160 Cuesta Dr., Mountain View		63			60	60	70	.	.	1	1
CA	SANTA CLARA CO	935 Piedmont Road, San Jose, Ca 95132		61			53	65	67	.	.	.	.
CA	SANTA CRUZ CO	4859 Scotts Valley Dr #e, Scotts Valley		65			63	68	64	.	.	.	.
CA	SANTA CRUZ CO	2544 Soquel Avenue		58			56	58	61	.	.	.	.
CA	SANTA CRUZ CO	444 Airport Blvd		57			56	56	59	.	.	.	.
CA	SANTA CRUZ CO	Fire Dept, Davenport		53			51	49	60	.	.	.	.
CA	SHASTA CO	Hlth Ctr-2630 Hospital Ln, Redding	Redding, CA	95		V	86	105	94	6	45	11	62
CA	SHASTA CO	2220 North Street, Anderson, Ca 96007	Redding, CA	85	*	V	81	92	68	2	10	.	15
CA	LASSEN VOLCANIC NP	Manzanita Lake Rs, Lassen Volcanic Np		76			67	78	84	.	1	2	3
CA	SISKIYOU CO	528 Foothill Dr., Yreka		62			59	66	62	.	.	.	.
CA	SOLANO CO	1001 Allison Drive, Vacaville	San Francisco-Oakland-San Jose, CA	85		V	71	96	88	.	7	8	15
CA	SOLANO CO	Baapcd-401 Gregory St, Fairfield		78			69	83	83	.	3	3	6
CA	SOLANO CO	304 Tuolumne St., Vallejo		62			56	59	72	.	.	1	1
CA	SONOMA CO	Airport-200a Heidelberg Way, Healdsburg		78			81	74	81	1	3	2	6
CA	SONOMA CO	837 5th St., Santa Rosa		54			47	51	64	.	.	.	.
CA	STANISLAUS CO	900 S Minaret Street, Turlock, Ca	Modesto, CA	95		V	89	107	90	8	29	7	44

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
CA	STANISLAUS CO	814 14th St., Modesto	Modesto, CA	89		V	82	98	87	2	13	7	22
CA	SUTTER CO		Yuba City, CA	89		V	82	95	90	3	13	9	25
CA	SUTTER CO	4sw-7310 Pacific Ave, Pleasant Grove		81			74	85	84	.	4	3	7
CA	SUTTER CO	773 Almond St, Yuba City		81			72	88	83	.	5	1	6
CA	TEHAMA CO	Old Fire Lookout Atop Tuscan Butte	Tehama Co	91		V	81	95	98	1	7	20	28
CA	TEHAMA CO	502 Oak Street, Red Bluff	Tehama Co	85		V	76	98	81	1	10	1	12
CA	SEQUOIA NP	Lookout Point, Mineral King Road	Visalia-Tulare-Porterville, CA	102		V	101	99	108	45	31	47	123
CA	TULARE CO	310 N Church St, Visalia	Visalia-Tulare-Porterville, CA	101		V	95	109	100	17	45	33	95
CA	SEQUOIA NP	Lower Kaweah, Sequoia Np	Visalia-Tulare-Porterville, CA	96		V	97	94	97	26	27	23	76
CA	TUOLUMNE CO	15700 Old Oak Ranch Road - Sonara, Ca	Tuolumne Co	92		V	85	97	96	5	20	24	49
CA	TUOLUMNE CO	251 S Barretta, Sonora, Ca 95370	Tuolumne Co	91		V	86	100	87	6	23	11	40
CA	VENTURA CO	5400 Cochran Street, Simi Valley, Ca.	Los Angeles-Riverside-Orange County, CA	106		V	105	113	102	40	29	22	91
CA	VENTURA CO	9 2323 Moorpark Road, Thousand Oaks, Ca	Los Angeles-Riverside-Orange County, CA	89		V	87	95	87	8	12	4	24
CA	VENTURA CO	1201 Ojai Avenue, Ojai	Los Angeles-Riverside-Orange County, CA	88		V	89	91	85	9	10	7	26
CA	VENTURA CO	2sw, 2815 Telegraph Rd, Piru		84			86	91	76	4	4	.	8
CA	VENTURA CO	5500 Casitas Pass Rd, Near Oak View		82			85	81	82	4	2	2	8
CA	VENTURA CO	Rio Mesa School, El Rio		70			74	72	65	1	.	.	1
CA	VENTURA CO	Emma Wood State Beach, Ventura		69			75	71	63	1	.	.	1
CA	YOLO CO	41929 E. Gibson Road, Woodland		.	**		.	87	86	.	4	4	8
CA	YOLO CO	Uc Davis-Campus, Davis		81			68	87	88	1	4	5	10
CO	ADAMS CO	78th Ave & Steele St - Welby		75			71	83	71	.	2	.	2
CO	ARAPAHOE CO	8100 So University Blvd-Littleton, Co		74			65	84	75	.	2	.	2
CO	BOULDER CO	1405 1/2 S. Foothills Parkway		78			72	89	75	.	5	1	6
CO	BOULDER CO	2320 Marine St., Boulder Colo		74	*		71	80	.	.	2	.	2
CO	DENVER CO	23 Rd And Julian_(carriage)		73			66	85	68	.	4	.	4
CO	DOUGLAS CO	Roxborough Park Road		78	*		75	81	76	.	3	.	4
CO	EL PASO CO	Road 640, Usaf Academy		61			59	62	64	.	.	.	.
CO	JEFFERSON CO	20th & Quaker Streets		84	*		75	95	80	.	8	1	9
CO	JEFFERSON CO	Rocky Flats 16600 W Colo #128 -N (x-1)		83			76	92	81	.	6	2	8
CO	JEFFERSON CO	W 57th Avenue And Garrison Street		77			70	89	72	.	4	.	4
CO	JEFFERSON CO	12400 W. Hwy 285 (morrison)		71			68	80	66	.	.	.	.
CO	ROCKY MTN NP	Rocky Mountain Np		74			70	80	74	0	1	1	2
CO	LARIMER CO	708 S. Mason Ft Collins		66			64	72	63	.	.	.	.
CO	MESA VERDE NP	Mesa Verde National Park, Colorado		66			62	68	69	.	.	.	.

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
CO	WELD CO	811 15th St - Greeley		71			69	75	69	.	.	.	.
CT	FAIRFIELD CO	Sherwood Island State Park	New Haven-Bridgeport-Stamford-Waterbury, C	103		V	109	89	111	15	13	13	41
CT	FAIRFIELD CO	Trailer, W. Connecticut State University	New Haven-Bridgeport-Stamford-Waterbury, C	101		V	105	92	106	14	9	17	40
CT	FAIRFIELD CO	Greenwich Point Park	New Haven-Bridgeport-Stamford-Waterbury, C	99		V	101	89	107	13	8	14	35
CT	FAIRFIELD CO	Uscg Lighthouse , Prospect Street	New Haven-Bridgeport-Stamford-Waterbury, C	98		V	103	97	96	17	11	9	37
CT	HARTFORD CO	Mcauliffee Park	Hartford, CT	91		V	97	82	94	7	2	11	20
CT	LITCHFIELD CO	University Road	Litchfield Co	97		V	97	97	98	9	10	12	31
CT	MIDDLESEX CO	Conn. Valley Hosp., Shew Hall, Eastern D	Middlesex Co	99		V	103	89	107	12	5	15	32
CT	NEW HAVEN CO	Hammonasset State Park	New Haven-Bridgeport-Stamford-Waterbury, C	103		V	109	97	104	19	9	16	44
CT	NEW HAVEN CO	715 State Street	New Haven-Bridgeport-Stamford-Waterbury, C	86		V	89	79	92	7	3	5	15
CT	NEW LONDON CO	University Of Connecticut, Avery Point	New London-Norwich, CT	94		V	104	83	96	17	3	11	31
CT	TOLLAND CO	Route 190, Shenipsit State Forest	Hartford, CT	95		V	97	98	91	10	8	12	30
DE	KENT CO	State Road 384	Dover, DE	99		V	99	102	97	13	17	13	43
DE	NEW CASTLE CO	Lums Pond State Park	Philadelphia-Wilmington-Altantic City, PA-NJ	100		V	104	96	100	15	12	12	39
DE	NEW CASTLE CO	Brandywine Creek State Park	Philadelphia-Wilmington-Altantic City, PA-NJ	99		V	99	98	102	17	17	16	50
DE	NEW CASTLE CO	River Road Park, Bellefonte	Philadelphia-Wilmington-Altantic City, PA-NJ	90		V	86	87	97	6	8	10	24
DE	SUSSEX CO	350 Virginia Ave Seaford	Sussex Co	99		V	100	102	97	14	16	17	47
DE	SUSSEX CO	Univ. Of De College Of Marine Studies		.	**		.	100	100	.	17	17	34
DC	WASHINGTON	S.e. End Mcmillian Reservoir, Wash. Dc.	Washington-Baltimore, DC-MD-VA-WV	100		V	96	102	103	18	20	22	60
DC	WASHINGTON	Takoma Sc. Piney Branch Rd & Dahlia St N	Washington-Baltimore, DC-MD-VA-WV	95		V	90	98	97	11	18	15	44
DC	WASHINGTON	34th. And Dix Streets, N.e.	Washington-Baltimore, DC-MD-VA-WV	91		V	88	91	94	12	11	16	39
FL	ALACHUA CO	200 Savannah Blvd		82	**		76	92	80	1	6	.	7
FL	BAKER CO	Hwy 90 Osceola District Office		76			72	80	76	.	.	.	.
FL	BREVARD CO	400 South 4th Street		79			77	84	77	1	3	2	6
FL	BREVARD CO	525 Pepper Street		72			68	77	71	.	.	.	.
FL	BROWARD CO	7000 N. Ocean Drive		75			73	77	75	.	1	1	2
FL	BROWARD CO	1951 Ne 48th St		72			69	77	70	.	.	.	.
FL	DADE CO	19590 Old Cutler Rd-Perdue Med. Center		78			75	82	77	1	3	1	5
FL	DADE CO	Krome Ave Thompson Pk		77			71	86	76	1	4	2	7
FL	DADE CO	Rosenstiel School		76			74	79	77	1	2	3	6
FL	EVERGLADES NP	Everglades Np		68			66	72	67	.	.	2	2
FL	DUVAL CO	Bldg.203 Jax.naval Air Station		82			87	84	77	4	3	1	8
FL	DUVAL CO	13333 Lanier Rd.		77			73	80	80	.	1	2	3
FL	ESCAMBIA CO	Nas Pensacola	Pensacola, FL	91		V	86	102	86	7	10	5	22

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
FL	ESCAMBIA CO	220 N. Navy Blvd	Pensacola, FL	91		V	89	103	83	6	11	2	19
FL	ESCAMBIA CO	Ellyson Industrial Park-Copter Road		84			84	88	81	2	6	2	10
FL	HILLSBOROUGH CO	E.g. Simmons County Park	Tampa-St. Petersburg-Clearwater, FL	87		V	86	89	87	4	6	6	16
FL	HILLSBOROUGH CO	Coast Guard Station Davis Island	Tampa-St. Petersburg-Clearwater, FL	85		V	82	89	84	2	6	3	11
FL	HILLSBOROUGH CO	5121 Gandy Blvd	Tampa-St. Petersburg-Clearwater, FL	85		V	84	89	84	2	7	3	12
FL	HOLMES CO	Tri Co Airport Rd (co Rd 162)		77			70	85	76	.	4	.	4
FL	LEE CO	1111 Se 6th Court, Cape Coral		78			67	92	77	.	4	2	6
FL	LEE CO	Intersection Of School St And Bay St		78			72	82	81	.	3	1	4
FL	MANATEE CO	Manatee Jr College 57th Ave W & 26 St W		78	*		77	87	.	.	5	.	6
FL	ORANGE CO	7055 Winegard Rd., Orlando		83			79	90	80	3	5	2	10
FL	ORANGE CO	Morris Blvd.		83			78	87	84	2	5	3	10
FL	OSCEOLA CO	8706_west 192, Kissimmee		80			75	87	78	1	7	.	8
FL	PALM BEACH CO	210 Nw 1st Avenue		76			68	81	79	.	2	1	3
FL	PALM BEACH CO	10999 Okeechobee Blvd Royal Palm Bch.		65	*		60	74	43	.	1	.	1
FL	PASCO CO	3452 Darlington Rd., Holiday		82			79	90	79	.	5	3	8
FL	PINELLAS CO	2435 Sharkey Rd.clearwater		84			78	89	87	.	5	5	10
FL	PINELLAS CO	7200-22 Avenue North		83			73	91	87	.	6	4	10
FL	PINELLAS CO	County Road 77 Booker Ck Park		82			76	89	82	.	5	2	7
FL	POLK CO	2727 Shepherd Rd (james W. Sikes Elm Sch		81			79	88	78	1	5	.	6
FL	POLK CO	1015 Sikes Blvd., Lakeland		80			77	86	78	2	6	1	9
FL	ST LUCIE CO	101 N. Rock Road		72			67	79	71	.	1	.	1
FL	SARASOTA CO	450 Micinley Dr.		84			79	88	85	2	4	4	10
FL	SARASOTA CO	3636 S Shade Avenue		75	*		76	82	68	1	4	.	5
FL	SEMINOLE CO	County Homes Rd. @ Us 17-92		79			76	83	79	.	3	1	4
FL	VOLUSIA CO	1185-A Dunn Ave., Daytona Beach		76			73	80	75	.	1	.	1
FL	VOLUSIA CO	5200 Spruce Creek Rd.		74			71	78	74	.	1	.	1
GA	BIBB CO	Macon Se	Macon, GA	104		V	95	106	113	12	18	18	48
GA	CHATHAM CO	2500 E. President Street, Bldg-A		76			71	75	83	.	.	3	3
GA	DAWSON CO	Dawsonville, Ga Forestry Commission	Dawson Co	88		V	79	96	89	1	12	9	22
GA	DE KALB CO	South Dekalb	Atlanta, GA	105		V	92	112	112	8	21	28	57
GA	DE KALB CO	Idlewild Road, Tucker	Atlanta, GA	102		V	85	111	111	4	19	27	50
GA	DOUGLAS CO	Douglasville W. Strickland St.	Atlanta, GA	101		V	90	110	105	9	36	37	82
GA	FANNIN CO	Jacks River Road		78			73	81	81	.	3	2	5
GA	FAYETTE CO	Fayetteville		.	**		.	111	113	.	34	30	64

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
GA	FULTON CO	Confederate Ave.	Atlanta, GA	118		V	104	126	124	24	41	54	119
GA	GLYNN CO	Risley Middle Sch.,2900 Albany St.,bruns		79			79	82	77	1	2	1	4
GA	GWINNETT CO	Gwinnett Tech, 1250 Atkinson Rd	Atlanta, GA	100		V	86	111	103	6	27	16	49
GA	MUSCOGEE CO	Columbus Crime Lab , Us Hwy 80, Spur 22	Columbus, GA-AL	89		V	81	89	97	2	8	12	22
GA	MUSCOGEE CO	Columbus Airport , Thruway Rd.	Columbus, GA-AL	86		V	80	91	89	1	7	8	16
GA	PAULDING CO	Yorkville	Atlanta, GA	97		V	86	104	103	5	26	23	54
GA	RICHMOND CO	Bungalow Rd Augusta Ga	Augusta-Aiken, GA-SC	92		V	87	99	90	5	12	10	27
GA	ROCKDALE CO	Conyers Monastery , 3780 Ga Hwy 212	Atlanta, GA	115		V	110	113	123	24	38	43	105
GA	SUMTER CO	Leslie, Union High School		83			85	81	84	4	1	3	8
HI	HONOLULU CO	Anuenue Fisheries, Sand Island, Honolulu		48			47	49	48	.	.	.	.
ID	CRATERS OF THE MOON NM	Craters Of The Moon National Mon, Idaho		64			60	65	68	.	.	.	.
IL	ADAMS CO	732 Hampshire		72			68	73	75	.	2	1	3
IL	CHAMPAIGN CO	606 E. Grove C., Booker T. Washington Sc		84			76	83	94	.	2	6	8
IL	COOK CO	531 E. Lincoln	Chicago-Gary-Kenosha, IL-IN-WI	90		V	94	86	91	5	4	6	15
IL	COOK CO	3300 E. Cheltenham, So Water Filt Plant	Chicago-Gary-Kenosha, IL-IN-WI	88		V	87	80	97	8	1	8	17
IL	COOK CO	Northbrook Water Plant,750 Dundee Rd.	Chicago-Gary-Kenosha, IL-IN-WI	86		V	87	84	88	5	2	5	12
IL	COOK CO	Jardine Water Plant, 1000 E. Ohio	Chicago-Gary-Kenosha, IL-IN-WI	85		V	91	79	85	5	1	5	11
IL	COOK CO	4500 W. 123rd St.		80			82	78	80	3	2	.	5
IL	COOK CO	University Of Chicago, 5720 S. Ellis Ave		80			83	70	88	3	1	4	8
IL	COOK CO	Forest Elem School, 1375 5th Ave		79			77	78	84	1	.	3	4
IL	COOK CO	729 Houston		76			75	70	84	.	.	3	3
IL	COOK CO	Cta Building, 320 S. Franklin		75			76	69	82	1	.	3	4
IL	COOK CO	1830 S. 51st Ave.		74			74	71	79	.	.	1	1
IL	COOK CO	1703 State St.		74			75	69	79	.	.	.	.
IL	COOK CO	Se Police Sta., 103rd And Luella		73			77	69	75	.	2	2	4
IL	COOK CO	Taft H.s., 6545 W. Hurlbut St.		73			74	65	80	1	.	.	1
IL	DU PAGE CO	Morton Arboretum, Rt. 53		71			72	68	75	.	1	.	1
IL	EFFINGHAM CO	Route 45 South, Effingham		84			77	83	92	2	1	6	9
IL	HAMILTON CO	Dale Elementary School,sr 142		76			74	75	80	.	1	3	4
IL	JERSEY CO	Illini Jr High Liberty St. & County Rd.	St. Louis, MO-IL	91		V	82	91	100	2	6	12	20
IL	KANE CO	665 Dundee Rd, Larsen Jr High		77			76	74	81	.	.	1	1
IL	LAKE CO	Golf & Jackson Sts	Chicago-Gary-Kenosha, IL-IN-WI	88		V	88	88	88	5	4	8	17
IL	LAKE CO	Camp Logan, Illinois Beach State Park		84			80	87	86	3	4	5	12
IL	LAKE CO	1321 Wilmot Rd. Woodland Park Elem. Sch		81			84	77	84	2	1	3	6

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
IL	LAKE CO	1441 Lake Street		79			82	74	83	3	.	3	6
IL	MC HENRY CO	First St & Three Oaks Rd		82			80	78	90	3	1	6	10
IL	MACON CO	2200 N. 22nd		80			77	78	87	.	.	5	5
IL	MACOUPIN CO	Iepa Trailer Heaton & Dubois		80			76	79	85	1	1	4	6
IL	MADISON CO	Poag Road, Edwardsville	St. Louis, MO-IL	87		V	82	88	92	3	5	7	15
IL	MADISON CO	409 Main St., Clara Barton School	St. Louis, MO-IL	86		V	91	79	90	4	1	8	13
IL	MADISON CO	200 W. Division, Maryville	St. Louis, MO-IL	85		V	88	84	85	6	3	4	13
IL	MADISON CO	54 N. Walcott	St. Louis, MO-IL	85		V	88	84	84	4	2	3	9
IL	PEORIA CO	Peoria Hts. H.s. 508 E. Glen Ave.		77			73	76	82	.	1	3	4
IL	PEORIA CO	Hurlburt & Macarthur		75			70	75	82	.	.	3	3
IL	RANDOLPH CO	Houston, Hickory Grove & Fallview		78			72	82	82	.	1	2	3
IL	ROCK ISLAND CO	30 18th St.		70			66	72	74	.	.	.	.
IL	ST CLAIR CO	13th & Tudor Raps Site		80			80	78	84	2	1	3	6
IL	SANGAMON CO	2875 N. Dirksen Parkway		74			71	78	75	.	.	2	2
IL	WILL CO	Com Ed Training Center, Rural Braidwood		80			74	81	85	1	3	4	8
IL	WILL CO	2021 Lawrence, South Lockport		75			71	73	83	.	.	2	2
IL	WINNEBAGO CO	1500 Post St.		75			71	73	82	.	.	1	1
IL	WINNEBAGO CO	1405 Maple Ave., Maple Elem. Sch.		73			73	71	77	.	.	.	.
IN	ALLEN CO	14600 Amstutz Rd., Leo	Fort Wayne, IN	88		V	86	89	90	5	8	12	25
IN	ALLEN CO	2022 North Beacon	Fort Wayne, IN	88		V	87	89	88	7	5	11	23
IN	CLARK CO	Army Ammunition Plant	Louisville, KY-IN	96		V	97	104	89	10	22	11	43
IN	ELKHART CO	Water Treatment Plant, 1300 W. Vistula		82			89	82	77	5	2	.	7
IN	FLOYD CO	2230 Green Valley Road	Louisville, KY-IN	92		V	84	100	94	3	14	10	27
IN	HAMILTON CO	186th Street, Jr High School	Indianapolis, IN	97		V	95	100	96	8	16	18	42
IN	HANCOCK CO	Fortville Municipal Bldg	Indianapolis, IN	92		V	88	94	94	7	13	15	35
IN	JOHNSON CO	200 W. Pearl St., Trafalgar	Indianapolis, IN	89		V	84	90	95	2	12	10	24
IN	LAKE CO	1300 141 St Street	Chicago-Gary-Kenosha, IL-IN-WI	91		V	94	85	95	9	5	8	22
IN	LAKE CO	201 Mississippi St., Iitri Bunker	Chicago-Gary-Kenosha, IL-IN-WI	90		V	92	84	94	7	2	5	14
IN	LAKE CO	Lowell Wastewater Treatment Plant		.	**		.	87	90	.	6	10	16
IN	LA PORTE CO	Nipsco Gas Station Michigan City	La Porte Co	91		V	96	93	86	9	12	6	27
IN	LA PORTE CO	2011 E. Lincolnway	La Porte Co	88		V	95	84	86	8	3	5	16
IN	MADISON CO	East Elem. Sch., 893 E. Us 36, Pendleton	Indianapolis, IN	90		V	82	97	93	3	13	15	31
IN	MARION CO	Trailer Court Row B, Ft. Ben Harrison	Indianapolis, IN	93		V	90	95	96	8	14	11	33
IN	MARION CO	Naval Avionics Center, 6125 E. 16th St.	Indianapolis, IN	91		V	86	93	96	5	8	8	21

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
IN	MARION CO	8327 Mann Road	Indianapolis, IN	88		V	84	92	90	3	9	9	21
IN	MARION CO	1321 South Harding	Indianapolis, IN	88		V	85	87	94	6	7	7	20
IN	MORGAN CO	State Rd. 39 South, Monrovia	Indianapolis, IN	90		V	88	90	93	7	10	11	28
IN	PERRY CO	2 Mi. S Of 64 On Sr 145		.	**		.	97	94	.	16	12	28
IN	PORTER CO	Water Treatment Plant	Chicago-Gary-Kenosha, IL-IN-WI	93		V	91	87	101	10	7	9	26
IN	INDIANA DUNES NL	Indiana Dunes N Lakeshore		.	**		.	90	102	.	5	11	16
IN	PORTER CO	Valparaiso Water Dept.		.	**		.	85	91	.	6	11	17
IN	POSEY CO	2027 S. St. Phillips	Evansville-Henderson, IN-KY	91		V	87	92	96	4	11	15	30
IN	ST JOSEPH CO	Harris Twp Fire Station	South Bend, IN	91		V	91	95	87	7	9	8	24
IN	ST JOSEPH CO	Chlds Hosp Gnds Nr Jct Of Angela & Eddy	South Bend, IN	89		V	91	88	90	6	7	9	22
IN	ST JOSEPH CO	Potato Creek State Park	South Bend, IN	87		V	84	90	87	3	5	10	18
IN	VANDERBURGH CO	425 West Mill Road Fire Station #17	Evansville-Henderson, IN-KY	94		V	93	92	98	6	8	18	32
IN	VANDERBURGH CO	14940 Old State Road	Evansville-Henderson, IN-KY	91		V	89	94	91	8	10	9	27
IN	VIGO CO	961 N. Lafayette Ave.		83			83	84	82	3	3	3	9
IN	WARRICK CO	200 Yards S. Of S650 & 1/4 M E. Of W400	Evansville-Henderson, IN-KY	94		V	91	96	95	7	10	5	22
IN	WARRICK CO	Tecumseh High School	Evansville-Henderson, IN-KY	93		V	94	93	92	10	9	11	30
IN	WARRICK CO	Boonville High School	Evansville-Henderson, IN-KY	91		V	95	91	87	9	9	5	23
IA	HARRISON CO	1575 Highway 183, Harrison County		72			68	79	70	.	1	.	1
IA	LINN CO	408 E. Linn St. Coggon, Iowa		68			65	65	76	.	.	.	.
IA	LINN CO	Hwy 13 North Of Marion At County Hm Rd.		60	*		60	59	.	.	.	.	.
IA	PALO ALTO CO	Iowa Lakes Community College - S. Campus		64			51	68	74	.	.	.	.
IA	POLK CO	Phillips School , 1701 Lay St		59			63	56	59	.	.	.	.
IA	SCOTT CO	Hwy Z-30 1.5miles N. Of Argo		76			72	77	79	.	1	2	3
IA	STORY CO	505 Linn St-Slater Elementary		72			74	70	72	.	.	.	.
IA	VAN BUREN CO	Post Office Box 398		70			65	71	76	.	.	1	1
IA	WARREN CO	1650 118th Avenue, Indianola		66			57	70	73	.	.	.	.
KS	SEDGWICK CO	Health Dept., 1900 East 9th St.		80			79	83	79	1	3	2	6
KS	SEDGWICK CO	Co.fire Station#2 ,200 East 53rd St.nort		78			78	79	77	2	1	.	3
KS	WYANDOTTE CO	Kc-Wyan Co Health Dept ,619 Ann Ave		84	*		81	87	.	3	6	.	13
KY	BELL CO	Middlesboro Airport, 34th & Dorchester		80			73	87	81	.	4	1	5
KY	BOONE CO	Jct Ky 338 & Ky 536 East Bend Ky	Cincinnati-Hamilton, OH-KY-IN	85		V	81	84	91	2	3	7	12
KY	BOYD CO	32nd & Railroad Streets	Huntington-Ashland, WV-KY-OH	85		V	86	77	94	4	1	8	13
KY	BULLITT CO	Shepherdsville Middle School, 2nd Street	Louisville, KY-IN	89		V	86	90	93	4	12	11	27
KY	CAMPBELL CO	9th & Maple, Dayton, Ky	Cincinnati-Hamilton, OH-KY-IN	89		V	89	89	90	4	8	7	19

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
KY	CARTER CO	Camp Webb Grayson Lake		.	**		.	96	93	.	11	13	24
KY	CHRISTIAN CO	10800 Pilot Rock Road, Williamson Res.	Clarksville-Hopkinsville, TN-KY	86		V	82	86	92	1	6	13	20
KY	DAVIESS CO	Wyndall Shpg Ctr Us 60 & Plsnt Valley Rd	Owensboro, KY	87		V	87	86	90	6	5	10	21
KY	EDMONSON CO	Alfred Cook Road	Edmonson Co	93		V	85	97	98	3	12	13	28
KY	FAYETTE CO	650 Newtown Pike	Lexington, KY	87		V	82	89	91	2	4	11	17
KY	FAYETTE CO	Iron Works Pike, Hwy 353 Lexington, Ky.		82			76	83	87	2	2	6	10
KY	GRAVES CO	Ky 1949, Chester Byerly Farm	Graves Co	87		V	77	86	98	2	5	12	19
KY	GREENUP CO	Water Tower Scott Dr Worthington Ky	Huntington-Ashland, WV-KY-OH	90		V	78	98	95	2	12	11	25
KY	HANCOCK CO	Lewisport Consolidated Sch Lewisport Ky	Hancock Co	91		V	85	95	93	4	11	10	25
KY	HARDIN CO	Water Plant #2, Us 31w		80			71	83	88	.	2	10	12
KY	HENDERSON CO	Baskett Fire Department	Evansville-Henderson, IN-KY	86		V	82	82	96	3	2	11	16
KY	HENDERSON CO	Green Street Henderson Ky		78			75	78	81	.	1	3	4
KY	JEFFERSON CO	7201 Watson Ln, Watson Ln Elementary Sch	Louisville, KY-IN	95		V	91	95	100	7	11	13	31
KY	JEFFERSON CO	Brentlinger & 7601 Bardstown Rd	Louisville, KY-IN	94		V	89	96	97	6	10	16	32
KY	JEFFERSON CO	Wlky Tv Office Bldg 1918 Mellwood Avenue	Louisville, KY-IN	87		V	89	88	86	6	7	4	17
KY	JESSAMINE CO	Kentucky Highway Garage On Us 27 Bypass		83			79	89	82	2	5	3	10
KY	KENTON CO	1401 Dixie Highway	Cincinnati-Hamilton, OH-KY-IN	88		V	84	91	91	3	10	5	18
KY	LIVINGSTON CO	Highway Maintenance Garage Us 60	Livingston Co	95		V	93	93	101	9	14	22	45
KY	LIVINGSTON CO	Ralph Bloodworth Farm, Off Ky 453	Livingston Co	87		V	85	86	92	4	6	12	22
KY	MC CRACKEN CO	2901 Powell St Paducah Ky		89		V	85	90	93	4	5	10	19
KY	MC LEAN CO	3962 Ky 815, Tichenor Farm	Mc Lean Co	90		V	83	85	103	2	4	17	23
KY	OLDHAM CO	State Maintenance Garage Buckner Ky	Louisville, KY-IN	96		V	85	101	103	4	12	34	50
KY	PERRY CO	233 Birch Street		69			62	73	73	.	.	1	1
KY	PIKE CO	101 North Mayo Trail		76			64	85	81	.	4	2	6
KY	PULASKI CO	Somerset Gas Warehouse, Clifty Street		84			73	84	95	.	3	13	16
KY	SCOTT CO	Scott County Fire Station #2, Sadieville		80			72	88	81	.	5	2	7
KY	SIMPSON CO	Kentucky Highway Garage On Ky 1008	Simpson Co	91		V	87	90	96	4	11	15	30
LA	ASCENSION PAR	11153 Kling Road	Baton Rouge, LA	88		V	87	91	86	6	7	5	18
LA	BEAUREGARD PAR	Highway 171 (5 Mi South Of Hwy 190)		78			79	76	81	3	1	1	5
LA	BOSSIER PAR	Shreveport Municipal Airport	Shreveport-Bossier City, LA	88		V	83	88	94	2	6	7	15
LA	CADDO PAR	Hagood Road	Shreveport-Bossier City, LA	87		V	84	90	88	2	6	6	14
LA	CALCASIEU PAR	2284 Paul Bellow Road	Lake Charles, LA	88		V	90	86	88	5	4	6	15
LA	CALCASIEU PAR	Highway 27 And Highway 108		82			85	90	73	4	7	.	11
LA	CALCASIEU PAR	2646 John Stine Road		77			77	78	77	2	2	.	4

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
LA	EAST BATON ROUGE PAR	East End Of Aster Lane	Baton Rouge, LA	92		V	88	99	89	4	10	7	21
LA	EAST BATON ROUGE PAR	Highway 964	Baton Rouge, LA	92		V	87	90	100	7	6	17	30
LA	EAST BATON ROUGE PAR	1071 Leesville Ave	Baton Rouge, LA	91		V	99	88	87	8	5	5	18
LA	EAST BATON ROUGE PAR	11245 Port Hudson-Pride Rd. Zachary, La	Baton Rouge, LA	85		V	80	85	90	2	4	7	13
LA	GRANT PAR	Highway 8		80			75	82	83	.	1	1	2
LA	IBERVILLE PAR	Highway 75	Iberville Par	91		V	97	90	87	11	7	5	23
LA	IBERVILLE PAR	Highway 77, Grosse Tete	Iberville Par	89		V	96	86	85	11	6	4	21
LA	IBERVILLE PAR	65180 Belleview Road	Iberville Par	88		V	90	86	89	5	4	12	21
LA	JEFFERSON PAR	West Temple Pl	New Orleans, LA	85		V	80	89	88	2	4	10	16
LA	LAFAYETTE PAR	208 Devalcourt Street		81			78	84	81	1	3	3	7
LA	LAFOURCHE PAR	Corner Of Madewood Dr & Ardoyne St	Houma, LA	85		V	79	89	87	2	4	5	11
LA	LIVINGSTON PAR	Highway 16, French Settlement	Baton Rouge, LA	87		V	89	87	87	4	7	6	17
LA	ORLEANS PAR	Corner Of Florida Ave & Orleans Ave		71			66	71	78	.	.	.	.
LA	OUACHITA PAR	5296 Southwest		76			73	74	82	.	.	1	1
LA	POINTE COUPEE PAR	Ted Davis Residence. Highway 415		80			89	69	83	7	.	3	10
LA	ST BERNARD PAR	Mehle Ave., Arabi		80			76	82	83	.	3	3	6
LA	ST CHARLES PAR	1 River Park Drive		84			84	84	85	3	3	4	10
LA	ST JAMES PAR	St. James Courthouse, Hwy 44 @ Canapella		82			78	79	91	1	2	7	10
LA	ST JOHN THE BAPTIST PAR	Azalea And South Apricot Street		84			83	83	86	3	3	6	12
LA	ST MARY PAR	1300 Lakewood Dr. St. Mary Par. Sheriff		84			81	85	86	2	4	5	11
LA	WEST BATON ROUGE PAR	Highway 1	Baton Rouge, LA	85		V	84	83	89	3	3	5	11
ME	CUMBERLAND CO	Two Lights State Park	Portland, ME	89		V	103	89	76	6	5	2	13
ME	ACADIA NP	Top Of Cadillac Mountain	Hancock Co	89		V	85	94	90	5	8	4	17
ME	HANCOCK CO	Mcfarland Hill-Dispro Site	Hancock Co	85		V	77	88	92	.	4	5	9
ME	KENNEBEC CO	Pray Street School		77			76	77	80	2	3	1	6
ME	KNOX CO	Port Clyde, Marshall Point Lighthouse		82			90	77	81	6	3	2	11
ME	OXFORD CO	Route 5, North Lovell Dot		59			57	60	61	.	.	.	.
ME	PENOBSCOT CO	Summit Of Rider Bluff (wlbz Transmitter)		75			70	77	80	.	2	.	2
ME	SAGADAHOC CO	Navy Road	Sagadahoc Co	92		V	98	91	87	7	4	4	15
ME	YORK CO	Ocean Ave/parsons Way, Kennebunkport	York Co	92		V	101	86	89	5	5	5	15
ME	YORK CO	Frisbee School, Goodsoe Road	York Co	88		V	92	89	85	7	4	4	15
MD	ANNE ARUNDEL CO	Queen Anne And Wayson Roads	Washington-Baltimore, DC-MD-VA-WV	109		V	104	111	113	20	42	31	93
MD	ANNE ARUNDEL CO	9001 'y'street,ft.meade,anne Arundel Md	Washington-Baltimore, DC-MD-VA-WV	107		V	119	100	104	24	25	27	76
MD	BALTIMORE CO	Woodward & Dorsey Rds ,essex Md	Washington-Baltimore, DC-MD-VA-WV	99		V	102	94	103	10	11	11	32

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
MD	BALTIMORE CO	Greenside Drive Cockeysville Md	Washington-Baltimore, DC-MD-VA-WV	95		V	93	89	105	10	7	14	31
MD	CALVERT CO	Prince Frederick Health Dept.175 Main	Washington-Baltimore, DC-MD-VA-WV	90		V	87	92	93	4	10	10	24
MD	CARROLL CO	1300 W. Old Liberty Road, Winfield,md	Washington-Baltimore, DC-MD-VA-WV	95		V	93	95	98	9	18	16	43
MD	CECIL CO	Rte.273,fair Hill,ceil Co.,maryland	Philadelphia-Wilmington-Altantic City, PA-NJ	110		V	122	101	109	19	20	20	59
MD	CHARLES CO	So Md Correctional Camp, Hughesville Md	Washington-Baltimore, DC-MD-VA-WV	104		V	102	105	106	17	30	31	78
MD	FREDERICK CO	Frederick Municipal Airport		.	**		.	95	95	.	10	19	29
MD	HARFORD CO	3538 Aldino Road,harford County Maryland	Washington-Baltimore, DC-MD-VA-WV	106		V	116	95	107	20	12	17	49
MD	HARFORD CO	Edgewood Army Chem Center Edgewood Md	Washington-Baltimore, DC-MD-VA-WV	105		V	109	99	109	18	17	17	52
MD	KENT CO	Kent County, Millington	Kent Co	100		V	105	98	99	19	16	22	57
MD	MONTGOMERY CO	Lothrop E Smith Env.ed Center Rockville	Washington-Baltimore, DC-MD-VA-WV	95		V	96	97	92	13	22	16	51
MD	PRINCE GEORGES CO	Goddard Space Flight Center	Washington-Baltimore, DC-MD-VA-WV	106		V	110	104	104	24	24	23	71
MD	PRINCE GEORGES CO	Fed Center, Suitland Pky, Suitland Md	Washington-Baltimore, DC-MD-VA-WV	99		V	95	104	99	14	25	18	57
MD	BALTIMORE	802 South Caroline St. Balto. Md. 21231	Washington-Baltimore, DC-MD-VA-WV	90		V	92	91	89	9	5	7	21
MA	CAPE COD NS	Fox Bottom Area-Cape Cod Nat'l Seashore	Barnstable-Yarmouth, MA	95		V	100	84	101	17	2	12	31
MA	BERKSHIRE CO	Mt. Greylock Summit	Pittsfield, Ma	74			78	69	75	1	.	1	2
MA	BRISTOL CO	Leroy Wood School	Boston-Worcester-Lowell-Brock, MA	91		V	92	83	98	12	2	8	22
MA	BRISTOL CO	1 Borderland St.	Boston-Worcester-Lowell-Brock, MA	88		V	93	88	83	7	7	3	17
MA	ESSEX CO	390 Parkland Ave. (lynn Water Treatment)	Boston-Worcester-Lowell-Brock, MA	93		V	91	100	88	6	7	6	19
MA	ESSEX CO	Sunset Boulevard	Boston-Worcester-Lowell-Brock, MA	87		V	87	89	87	6	6	6	18
MA	ESSEX CO	High Street, Storrow Park		74			78	76	68	2	1	1	4
MA	HAMPDEN CO	Anderson Road Air Force Base	Springfield, MA	91		V	92	93	88	7	5	7	19
MA	HAMPDEN CO	152 South Westfield Street, Feeding Hill		84			92	80	81	9	1	1	11
MA	HAMPSHIRE CO	Quabbin Summit	Springfield, MA	99		V	110	93	94	9	6	9	24
MA	HAMPSHIRE CO	North Pleasant St. U.mass Pathology Dept		82			82	81	84	2	2	3	7
MA	MIDDLESEX CO	Beaver Street	Boston-Worcester-Lowell-Brock, MA	93		V	92	98	91	6	7	5	18
MA	MIDDLESEX CO	Water Row Rd Great Meadows Nat Wildlife	Boston-Worcester-Lowell-Brock, MA	85	*	V	88	85	.	6	4	.	12
MA	MIDDLESEX CO	Us Military Reservation - Natick Lab		.	**		.	90	93	.	5	8	13
MA	SUFFOLK CO	Powder Horn Hill		82			75	87	84	2	4	3	9
MA	WORCESTER CO	Worcester Airport	Boston-Worcester-Lowell-Brock, MA	94		V	92	97	93	5	6	8	19
MI	ALLEGAN CO	Ottogan_st. Between 61st & 62nd Sts.	Grand Rapids-Muskegon-Holland, MI	94		V	95	97	91	8	17	13	38
MI	BENZIE CO	West St., Benzonia Twp.	Benzie Co	89		V	81	90	97	3	5	14	22
MI	BERRIEN CO	Paw Paw Wwtp, 4689 Defield Rd.,coloma	Benton Harbor, MI	96		V	99	93	96	12	14	16	42
MI	CASS CO	Ross Beatty High School	Cass Co	92		V	90	91	95	7	7	14	28
MI	CLINTON CO	8562 E Stoll Rd, Rose Lake		81			78	78	87	.	2	5	7

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
MI	GENESEE CO	Washburn Rd	Detroit-Ann Arbor-Flint, MI	89		V	84	89	95	3	4	12	19
MI	GENESEE CO	Whaley Park, 3610 Iowa	Detroit-Ann Arbor-Flint, MI	86		V	81	89	89	1	4	5	10
MI	HURON CO	Harbor Beach,1172 S.m25,sand Beach Twp.	Huron Co	85		V	79	87	90	2	4	7	13
MI	INGHAM CO	220 N Pennsylvania		82			76	81	89	1	3	6	10
MI	KALAMAZOO CO	Fairgrounds, 2500 Lake St	Kalamazoo-Battle Creek, MI	87		V	85	87	91	4	4	11	19
MI	KENT CO	4351 Parnell Ave Ne	Grand Rapids-Muskegon-Holland, MI	85	*	V	82	87	.	1	5	.	10
MI	KENT CO	1179 Monroe Nw		81			79	79	85	2	1	4	7
MI	LENAWEE CO	6792 Raisin Center Highway		81			76	86	83	1	4	1	6
MI	MACOMB CO	57700 Gratiot	Detroit-Ann Arbor-Flint, MI	95		V	91	98	96	7	11	11	29
MI	MACOMB CO	Warren Fire Station Common & Hoover	Detroit-Ann Arbor-Flint, MI	90		V	91	90	90	4	6	7	17
MI	MASON CO	525 W Us10	Mason Co	93		V	.	87	101	.	7	13	20
MI	MISSAUKEE CO	1769 S Jeffs Rd		.	**		.	79	91	.	1	7	8
MI	MUSKEGON CO	1340 Green Creek Road	Grand Rapids-Muskegon-Holland, MI	93		V	85	92	103	5	11	20	36
MI	OAKLAND CO	13701 Oak Park Blvd.		84			76	89	88	1	6	6	13
MI	OTTAWA CO	6981 28th Ave. Georgetown Twp.	Grand Rapids-Muskegon-Holland, MI	87		V	86	85	91	6	5	8	19
MI	ST CLAIR CO	2525 Dove Rd	Detroit-Ann Arbor-Flint, MI	88		V	83	91	91	3	10	8	21
MI	WASHTENAW CO	2565 Plymouth Rd		83			75	84	92	1	3	7	11
MI	WAYNE CO	11600 East Seven Mile Road	Detroit-Ann Arbor-Flint, MI	91		V	88	93	92	4	6	13	23
MI	WAYNE CO	6050 Linwood		83			79	86	84	2	4	2	8
MI	WAYNE CO	14700 Goddard		80			75	78	87	1	1	4	6
MN	ANOKA CO	Anoka County Airport 2289 Co. Rd. J		73			78	69	74	.	.	.	.
MN	ANOKA CO	Cedar Creek Natural History 2660 Fawn Lk		72			72	71	73	.	1	.	1
MN	DAKOTA CO	1600 Hwy 55 - Dakota Co. Government Cntr		70			70	71	70	.	.	.	.
MN	LAKE CO	35		66			63	68	68	.	.	.	.
MN	VOYAGEURS NP	Voyageurs National Park		70			71	67	74	.	.	.	.
MN	WASHINGTON CO	11660 Myeron Road North, Stillwater, Mn		65			46	73	77	.	1	.	1
MS	ADAMS CO	Natchez Municipal Water Works Brenham St		80			77	84	81	2	3	1	6
MS	DE SOTO CO	Holly Springs St. (hernando)	Memphis, TN-AR-MS	88		V	82	89	93	3	10	12	25
MS	HANCOCK CO	Port Bienville Industrial Park	Biloxi-Gulfport-Pascagoula, MS	86		V	78	89	91	1	5	9	15
MS	HINDS CO	5810 Ridgewood Rd		81			79	82	82	.	2	1	3
MS	JACKSON CO	Hospital Road At Co. Health Dept.	Biloxi-Gulfport-Pascagoula, MS	93		V	95	97	89	12	12	4	28
MS	LAUDERDALE CO	Hwy 19 And 53rd Ave		77			73	78	82	.	1	3	4
MS	LEE CO	Tupelo Airport		.	**		.	88	94	.	7	10	17
MS	MADISON CO	State Hwy 22 At Microwave Tower		81			75	86	84	.	4	2	6

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
MS	WARREN CO	1000 Lee St. .		77			77	82	74	.	3	.	3
MO	CEDAR CO	Eldorado Springs		.	**		.	87	84	.	4	3	7
MO	CLAY CO	Hwy33 & County Home Road	Kansas City, MO-KS	91		V	98	95	82	11	11	3	25
MO	CLAY CO	Watkins Mill Road	Kansas City, MO-KS	90		V	95	91	84	9	9	2	20
MO	CLAY CO	49th & Winchester		81			82	86	76	3	5	1	9
MO	GREENE CO	Hillcrest High School, 3319 N Grant		73			68	71	81	.	1	1	2
MO	GREENE CO	5012 S. Charleston Springfield Mo		70			64	71	75	.	.	2	2
MO	JACKSON CO	Richards-Gebaur Afb, Kansas City		75			72	73	81	.	.	2	2
MO	JEFFERSON CO	Arnold Tenbrook & Tenbrook	St. Louis, MO-IL	92		V	83	91	102	3	8	13	24
MO	MONROE CO	Hwys V & 107 Mark Twain State Park		83			80	79	92	1	1	8	10
MO	PLATTE CO	11500 N 71 Hwy	Kansas City, MO-KS	85		V	90	90	76	6	5	.	11
MO	ST CHARLES CO	General Electric Store Hiway 94 W Alton	St. Louis, MO-IL	95		V	90	97	99	7	17	19	43
MO	ST CHARLES CO	Orchard Farm	St. Louis, MO-IL	90		V	84	90	98	3	5	13	21
MO	STE GENEVIEVE CO	Bonne Terre, Mo	Ste Genevieve Co	88		V	80	90	95	.	6	13	19
MO	ST LOUIS CO	4580 South Lindbergh & Gravois	St. Louis, MO-IL	89		V	80	92	95	2	6	8	16
MO	ST LOUIS CO	3400 Pershall Road	St. Louis, MO-IL	89		V	87	89	93	5	9	8	22
MO	ST LOUIS CO	10267 St Charles Rock Road	St. Louis, MO-IL	87		V	82	92	88	1	5	10	16
MO	ST LOUIS CO	305 Weidman Road (queeny)	St. Louis, MO-IL	85		V	75	89	93	1	4	9	14
MO	ST LOUIS CO	55 Hunter Avenue		82			78	84	85	2	3	4	9
MO	ST LOUIS	Newstead & Cotebrilliant		83			84	79	87	3	2	4	9
MO	ST LOUIS	8227 South Broadway		79			76	74	88	.	1	4	5
MO	ST LOUIS	1122 Clark		78			77	76	81	.	1	2	3
MT	GLACIER NP	Glacier National Park		50			40	53	48	.	.	.	.
NE	DOUGLAS CO	11414 N 72nd St Nation Weather Service		70			71	70	69	.	.	.	.
NE	DOUGLAS CO	2411 O St.		65			63	65	68	.	.	.	.
NE	DOUGLAS CO	Metro-Tech Campus 30th & Fort St		63			52	58	80	.	.	2	2
NE	LANCASTER CO	First & Maple , Davey		55			54	58	53	.	.	.	.
NV	CLARK CO	333 Pavilion Center Drive		.	**		.	92	83	.	9	2	11
NV	CLARK CO	545 Lake Mead Dr, Henderson		79	*		79	78	76	.	.	.	2
NV	CLARK CO	4701 Mitchell Street		77			75	84	74	.	3	.	3
NV	CLARK CO	5483 Clubhouse Dr-Winterwood, Las Vegas		77	*		73	78	78	.	.	.	1
NV	CLARK CO	City-Center., Las Vegas		69			69	75	64	.	.	.	.
NV	DOUGLAS CO	Horizon Hotel		69	*		68	69	61	.	.	.	.
NV	WASHOE CO	750 4th St, Sparks		72			69	74	75	.	.	1	1

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
NV	WASHOE CO	250 N Lake St, Reno		71			66	75	74	.	.	.	.
NV	WASHOE CO	4110 De Lucci Lane, Reno		71			67	71	76	.	.	1	1
NV	WASHOE CO	325 Patrician Dr, Lemmon Valley		60			56	66	60	.	.	.	.
NV	GREAT BASIN NP	Great Basin National Park		72			74	70	72	.	.	.	.
NV	CARSON CITY	875 East Long Street		68			72	67	66	.	.	.	.
NH	BELKNAP CO	Laconia Municipal Airport, Gilford, Nh		68			67	64	75	1	.	.	1
NH	CARROLL CO	Kankamaugus Highway, Conway, Nh		67			65	68	68	.	.	.	.
NH	CHESHIRE CO	Railroad Street		75			75	73	79	1	1	1	3
NH	GRAFTON CO	Haverhill Armory, Rt 116, Haverhill, Nh		70			64	76	72	.	.	.	.
NH	HILLSBOROUGH CO	Sanders Associates, Parking Lot D	Boston-Worcester-Lowell-Brock, MA	89		V	94	84	89	4	3	8	15
NH	HILLSBOROUGH CO	Hartnett Park, Municipal Parking Lot		76	*		82	63	50	3	.	.	6
NH	MERRIMACK CO	Storrs Street		74			75	74	74	1	.	.	1
NH	ROCKINGHAM CO	Rye Harbor State Park Ocean Blvd,rte. 1a	Boston-Worcester-Lowell-Brock, MA	90		V	102	85	84	9	4	3	16
NH	ROCKINGHAM CO	Vaughan Street	Boston-Worcester-Lowell-Brock, MA	87		V	89	84	89	5	3	5	13
NH	STRAFFORD CO	Rochester Hill Road, Rochester		81			80	79	84	1	.	2	3
NH	SULLIVAN CO	South Street		73			75	67	77	1	.	.	1
NJ	ATLANTIC CO	Brigantine Wildlife Refuge,nacote Creek	Philadelphia-Wilmington-Altantic City, PA-NJ	97		V	106	91	95	18	22	13	53
NJ	CAMDEN CO	Ancora State Hospital, Ancora	Philadelphia-Wilmington-Altantic City, PA-NJ	106		V	117	97	105	23	29	24	76
NJ	CAMDEN CO	Copewood E. Davis Sts, Trailer	Philadelphia-Wilmington-Altantic City, PA-NJ	98		V	98	93	105	12	15	15	42
NJ	CUMBERLAND CO	Lincoln Ave.&highway 55,ne Of Millville	Philadelphia-Wilmington-Altantic City, PA-NJ	99		V	104	98	96	14	17	17	48
NJ	ESSEX CO	St. Charles Between Kossuth & Kameron St	New York-Northern New Jersey-Long Island, N	93		V	97	87	97	6	5	6	17
NJ	GLOUCESTER CO	Clarksboro,shady Lane Rest Home	Philadelphia-Wilmington-Altantic City, PA-NJ	102		V	105	98	104	19	21	21	61
NJ	HUDSON CO	Veterans Park On Newark Bay	Philadelphia-Wilmington-Altantic City, PA-NJ	100		V	105	89	106	9	7	17	33
NJ	HUNTERDON CO	Raritan Stp,rte.613s, Three Bridges	New York-Northern New Jersey-Long Island, N	102		V	103	96	109	18	21	23	62
NJ	MERCER CO	Rider College, Lawrence Township	New York-Northern New Jersey-Long Island, N	104		V	106	95	113	16	17	23	56
NJ	MIDDLESEX CO	R.u. Veg Research Farm 3,ryders Ln, Newb	New York-Northern New Jersey-Long Island, N	105		V	106	99	110	15	15	23	53
NJ	MONMOUTH CO	Monmouth College, West Long Branch	New York-Northern New Jersey-Long Island, N	94		V	95	93	95	12	19	12	43
NJ	MORRIS CO	Bldg.#1, Bell Labs, Off Route 513	New York-Northern New Jersey-Long Island, N	98		V	97	97	102	13	22	21	56
NJ	OCEAN CO	Colliers Mills, Jackson Township	New York-Northern New Jersey-Long Island, N	107		V	113	104	105	21	28	22	71
NJ	PASSAIC CO	Ramapo Mtn St Forest		.	**		.	89	99	.	8	15	23
NM	BERNALILLO CO	1.4 Miles Wsw Intersection Tramway		72			68	74	76	.	.	1	1
NM	BERNALILLO CO	2421 Mesilla Ave. N. E.		71			71	71	72	.	.	.	.
NM	BERNALILLO CO	9819a Second Street Nw		70			70	72	70	.	.	.	.
NM	BERNALILLO CO	4700a San Mateo Ne (2zm)		69			70	68	70	.	.	.	.

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
NM	BERNALILLO CO	4100 Isleta Rd Sw		67			65	68	70	.	.	.	.
NM	BERNALILLO CO	10155 Coors Road Nw		67			64	69	69	.	.	.	.
NM	DONA ANA CO	5935a Valle Vista, Sunland Park, Nm		79			77	82	80	.	2	1	3
NM	DONA ANA CO	104-2 Santa Teresa International Blvd,nm		78			76	80	78	.	.	2	2
NM	DONA ANA CO	Sunland Park City Yard		77			72	79	82	.	1	1	2
NM	DONA ANA CO	680 Mccombs, Chaparral, Nm		74			73	77	73	.	.	.	.
NM	DONA ANA CO	St Lukes Episcopal Ch Rt 1 (la Union)		71			69	72	74	.	1	.	1
NM	DONA ANA CO	Las Cruces Well Station #41,holman Road		67			66	68	68	.	.	.	.
NM	DONA ANA CO	Holiday Inn		63			60	64	67	.	.	.	.
NM	EDDY CO	Holland St,se Of Water Tank,carlsbad,nm		68			58	75	71	.	.	.	.
NM	SANDOVAL CO	4330 Meadowlark Lane,rio Rancho, Nm87124		74			76	72	76	.	.	1	1
NM	SANDOVAL CO	Highway Dept. Yard Near Bernalillo		67			61	71	70	.	.	.	.
NM	SAN JUAN CO	Usbr Shiprock Substation (farmington)		67			67	71	65	.	.	.	.
NM	VALENCIA CO	Maintenance Yd, Village Of Bosque Farms		67			60	69	72	.	.	.	.
NY	ALBANY CO	Albany Loudonville Reservoir Area		79			76	79	84	2	.	3	5
NY	BRONX CO	200th Street And Southern Blvd	New York-Northern New Jersey-Long Island, N	88		V	96	65	103	5	.	8	13
NY	BRONX CO	Morrisania Center, 1225-57 Gerard Ave.		84			89	78	86	5	1	5	11
NY	CHAUTAUQUA CO	Town Of Westfield	Jamestown, NY	89		V	87	95	87	5	9	8	22
NY	CHEMUNG CO	Sullivan St., Water Tr. Pl.		79			73	82	82	.	2	2	4
NY	DUTCHESS CO	Village Of Millbrook	New York-Northern New Jersey-Long Island, N	90		V	89	89	93	7	8	8	23
NY	ERIE CO	Audubon Golf Course, Maple Road	Buffalo-Niagara Falls, NY	85		V	73	94	90	.	13	6	19
NY	ESSEX CO	Summit,whiteface Mtn,weather Station		81			82	79	83	2	1	3	6
NY	ESSEX CO	Base Whiteface Mtn,asrc,suny		78			77	77	82	1	2	3	6
NY	HAMILTON CO	Piseco Lake Airport		79			78	80	79	1	1	1	3
NY	HERKIMER CO	Nicks Lake Campground		72			72	70	74	.	.	.	.
NY	JEFFERSON CO	Vadai Road, Perch River, Brownville	Jefferson Co	90		V	94	88	89	8	4	6	18
NY	MADISON CO	Town Of Georgetown		79			76	82	81	.	2	1	3
NY	MONROE CO	Trailer,west End Of Farmington Road		83			85	76	88	4	1	7	12
NY	NEW YORK CO	Mabel Dean High Sch.annex, 240 2nd Ave.		77			82	75	75	3	2	3	8
NY	NIAGARA CO	Middleport Stp, North Hartland Rd	Buffalo-Niagara Falls, NY	86		V	81	89	88	1	6	7	14
NY	ONEIDA CO	Route 13 Near Camden		76			74	76	78	.	1	1	2
NY	ONONDAGA CO	5895 Enterprise Parkway,		82			79	82	86	2	3	4	9
NY	ORANGE CO	1175 Route 17k, Montgomery	New York-Northern New Jersey-Long Island, N	90		V	88	88	94	6	6	8	20
NY	PUTNAM CO	Nysdec Field Hqtrs Gypsy Trail Road	New York-Northern New Jersey-Long Island, N	94		V	95	93	96	7	8	15	30

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
NY	QUEENS CO	56th Ave At Springfield Blvd		.	**		.	89	94	.	8	10	18
NY	RICHMOND CO	Susan Wagner Hs, Brielle Ave.& Manor Rd,	New York-Northern New Jersey-Long Island, N	105		V	122	90	105	21	9	17	47
NY	SARATOGA NP	Saratoga National Historical Park		83			83	74	92	3	2	6	11
NY	SCHENECTADY CO	Mt.pleasant Hs, Norwood Ave.& Forest Rd.		75			77	69	80	1	.	2	3
NY	SUFFOLK CO	39 Sound Avenue,riverhead	New York-Northern New Jersey-Long Island, N	98		V	98	90	107	11	6	16	33
NY	SUFFOLK CO	East Farmingdale Water Dist.,gazza Blvd.	New York-Northern New Jersey-Long Island, N	97		V	106	95	91	8	10	11	29
NY	ULSTER CO	Belleayre Mountain		83			86	81	82	4	1	3	8
NY	WAYNE CO	Wayne Educational Center, Williamson	Rochester, NY	86		V	85	85	89	4	4	7	15
NY	WESTCHESTER CO	White Plains Pump Station,orchard Street	New York-Northern New Jersey-Long Island, N	98		V	96	90	108	11	6	12	29
NC	ALEXANDER CO	State Road 1177	Hickory-Morganton-Lenoir, NC	86		V	80	96	82	3	15	2	20
NC	BUNCOMBE CO	Rout 191 South Brevard Rd		83			75	90	84	.	5	2	7
NC	CALDWELL CO	Hwy 321 N Lenoir	Hickory-Morganton-Lenoir, NC	90		V	79	98	94	1	10	18	29
NC	CAMDEN CO	County Road 1136 & 1134		84			84	78	91	2	1	5	8
NC	CASWELL CO	Cherry Grove Recreation	Caswell Co	94		V	95	96	91	17	19	7	43
NC	CHATHAM CO	Rt4 Box62 Pittsboro Nc27312	Raleigh-Durham-Chapel Hill, NC	88		V	89	88	88	8	8	5	21
NC	CUMBERLAND CO	1/4mi Sr1857/us301/1857	Fayetteville, NC	92		V	85	93	100	5	13	17	35
NC	CUMBERLAND CO	3625 Golfview Rd__hope Mills	Fayetteville, NC	92		V	85	98	93	4	24	14	42
NC	DAVIE CO	246 Main Street	Greensboro-Winston-Salem-Hight Point, NC	98		V	92	102	100	11	18	24	53
NC	DUPLIN CO	Hwy 50 Kenansville Nc 28349	Duplin Co	85		V	78	90	89	1	10	8	19
NC	DURHAM CO	2700 North Duke Street	Raleigh-Durham-Chapel Hill, NC	88		V	80	95	89	3	16	8	27
NC	EDGECOMBE CO	Rt 2, Box 195 Tarboro, Nc 27886	Rocky Mount, NC	90		V	89	90	92	8	6	7	21
NC	FORSYTH CO	1300 Blk. Hattie Avenue	Greensboro-Winston-Salem-High Point, NC	97		V	93	100	99	9	15	16	40
NC	FORSYTH CO	3656 Piedmont Memorial Drive	Greensboro-Winston-Salem-High Point, NC	94		V	92	95	96	12	17	11	40
NC	FORSYTH CO	6496 Baux Mountain Road_winston-Salem,nc	Greensboro-Winston-Salem-High Point, NC	86		V	79	94	86	1	9	6	16
NC	FORSYTH CO	7635 Hollyberry Lane		84			83	87	82	1	6	3	10
NC	FRANKLIN CO	431 S Hillsborough St Franklinton Nc	Raleigh-Durham-Chapel Hill, NC	93		V	97	97	85	14	14	5	33
NC	GRANVILLE CO	Water Treatment Plant John Umstead Hosp	Granville Co	92		V	99	98	80	17	18	.	35
NC	GUILFORD CO	Keely Park, Keely Rd,	Raleigh-Durham-Chapel Hill, NC	92		V	84	97	96	3	17	18	38
NC	HAYWOOD CO	Tower Blue Ridge Pkwy Mile Marker 410	Haywood Co	94		V	85	102	96	4	19	24	47
NC	GREAT SMOKY MTN NP	Great Smoky Mountain National Park	Haywood Co	90		V	87	92	93	7	12	19	38
NC	JOHNSTON CO	1338 Jack Road, Clayton Nc27520	Raleigh-Durham-Chapel Hill, NC	95		V	92	92	101	12	18	18	48
NC	LENOIR CO	Corner Hwy 70 East And 58 South		.	**		.	90	90	.	7	6	13
NC	LINCOLN CO	Riverview Road	Charlotte-Gastonia-Rock Hill, NC-SC	87		V	85	90	87	4	16	6	26
NC	MARTIN CO	Hayes Street (#2well Site)		82			82	84	81	.	3	2	5

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
NC	MECKLENBURG CO	29 N@ Mecklenburg Cab Co	Charlotte-Gastonia-Rock Hill, NC-SC	104		V	101	110	103	21	42	33	96
NC	MECKLENBURG CO	Plaza Road And Lakedell	Charlotte-Gastonia-Rock Hill, NC-SC	101		V	105	100	99	18	26	19	63
NC	MECKLENBURG CO	400 Westinghouse Blvd.	Charlotte-Gastonia-Rock Hill, NC-SC	100		V	94	104	104	9	19	19	47
NC	NEW HANOVER CO	6028 Holly Shelter Rd		78			83	86	67	3	4	.	7
NC	NORTHAMPTON CO	Rt 46 Gaston North Carolina	Northampton Co	87		V	88	85	89	5	5	9	19
NC	PERSON CO	Sr49		.	**		.	93	98	.	14	19	33
NC	PITT CO	Us 264 Near Farmville Water Tower	Greenville, NC	93		V	97	89	93	11	6	11	28
NC	ROCKINGHAM CO	6371 Nc 65 @ Bethany School	Rockingham Co	85		V	89	87	81	11	5	2	18
NC	ROWAN CO	West St & Gold Hill Avenue	Charlotte-Gastonia-Rock Hill, NC-SC	99		V	89	101	107	10	27	34	71
NC	ROWAN CO	925 N Enochville Ave	Charlotte-Gastonia-Rock Hill, NC-SC	97		V	92	99	102	9	20	30	59
NC	SWAIN CO	Center St/parks 7 Rec Facility		74			70	78	76	.	1	.	1
NC	WAKE CO	E Millbrook Jr Hi 3801 Spring Forest Rd	Raleigh-Durham-Chapel Hill, NC	101		V	97	99	108	13	20	26	59
NC	WAKE CO	5033 Tv Tower Rd Garner Nc 27529	Raleigh-Durham-Chapel Hill, NC	99		V	95	97	105	15	19	22	56
NC	WAKE CO	808 North State Street	Raleigh-Durham-Chapel Hill, NC	97		V	95	96	102	15	18	25	58
NC	WAKE CO	201 North Broad Street	Raleigh-Durham-Chapel Hill, NC	88		V	75	99	92	.	24	8	32
NC	YANCEY CO	Blue Ridge Parkway		79	**		76	69	94	.	.	14	14
ND	BILLINGS CO	Trnp - Su (painted Canyon)		61			71	56	58	.	.	.	.
ND	MERCER CO	Beulah		60	*		64	59	.	.	.	.	.
ND	OLIVER CO	Hannover		59			62	58	59	.	.	.	.
ND	STEELE CO	Sharon		60			62	59	59	.	.	.	.
OH	ALLEN CO	2650 Bible Road	Lima, OH	88		V	83	89	93	3	7	7	17
OH	ASHTABULA CO	Jq Conneaut Water Treatment Plant	Cleveland-Akron, OH	92		V	90	96	90	8	11	9	28
OH	BUTLER CO	Hook Field Municipal Airport	Cincinnati-Hamilton, OH-KY-IN	93		V	92	92	96	6	19	20	45
OH	BUTLER CO	Schuler And Bender Ave	Cincinnati-Hamilton, OH-KY-IN	91		V	88	89	96	5	6	13	24
OH	CLARK CO	5171 Urbana Road	Dayton-Springfield, OH	94		V	91	100	92	7	16	13	36
OH	CLARK CO	5400 Spangler Road	Dayton-Springfield, OH	91		V	88	96	91	7	12	13	32
OH	CLERMONT CO	4430 Sr 222, Batavia	Cincinnati-Hamilton, OH-KY-IN	93		V	87	99	94	6	14	19	39
OH	CLINTON CO	62 Laurel Dr., Career Center, Wilmington	Clinton Co	98		V	95	103	97	6	16	23	45
OH	CUYAHOGA CO	6116 Wilson Mills Road	Cleveland-Akron, OH	88		V	82	94	89	3	10	5	18
OH	CUYAHOGA CO	390 Fair St., Berea, Ohio		80			80	82	78	2	2	2	6
OH	CUYAHOGA CO	891 E. 152 St.		77			76	81	74	.	1	1	2
OH	DELAWARE CO	359 Main Rd., Delaware	Columbus, OH	97		V	87	102	103	5	14	17	36
OH	FRANKLIN CO	1313 Chesapeake Avenue	Columbus, OH	93		V	86	96	97	4	15	13	32
OH	FRANKLIN CO	5750 Maple Canyon Drive	Columbus, OH	90		V	83	94	95	3	7	11	21

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
OH	GEAUGA CO	13000 Auburn Road	Cleveland-Akron, OH	91		V	91	88	96	10	7	12	29
OH	GREENE CO	541 Ledbetter Rd., Xenia	Dayton-Springfield, OH	93		V	91	97	91	10	15	11	36
OH	HAMILTON CO	11590 Grooms Rd. Ohio Highway Main. Fac	Cincinnati-Hamilton, OH-KY-IN	91		V	93	92	90	7	9	7	23
OH	HAMILTON CO	6950 Ripple Road	Cincinnati-Hamilton, OH-KY-IN	85		V	80	88	88	3	7	5	15
OH	HAMILTON CO	1632 Central Parkway	Cincinnati-Hamilton, OH-KY-IN	89	*	V	85	87	.	4	6	.	15
OH	KNOX CO	Water Plt, Sr. 314, Centerburg	Knox Co	91		V	88	91	94	4	9	9	22
OH	LAKE CO	Jefferson Elementary School	Cleveland-Akron, OH	99		V	94	100	103	7	18	14	39
OH	LAKE CO	71 E High St	Cleveland-Akron, OH	91		V	84	98	92	1	9	6	16
OH	LAWRENCE CO	St. Rt. 775 & St. Rt. 141	Huntington-Ashland, WV-KY-OH	93		V	82	101	97	3	15	15	33
OH	LAWRENCE CO	2120 So. 8th St.	Huntington-Ashland, WV-KY-OH	86		V	80	87	91	2	4	5	11
OH	LICKING CO	300 Licking View Drive, Heath	Columbus, OH	92		V	92	96	90	6	15	11	32
OH	LOGAN CO	Transportation Research Center		84			87	82	83	5	2	2	9
OH	LORAIN CO	131 Court Street	Cleveland-Akron, OH	87		V	86	88	87	4	5	4	13
OH	LUCAS CO	Friendship Pk Shelter House 2930 131st S	Toledo, OH	85		V	84	90	83	3	5	3	11
OH	LUCAS CO	306 N. Yondota, Jerusalem Twp.		84			85	81	86	4	3	4	11
OH	MADISON CO	9940 Sr 38 Sw	Columbus, OH	94		V	89	99	94	10	15	15	40
OH	MAHONING CO	9 West Front Street	Youngstown-Warren, OH	91		V	84	97	92	3	15	7	25
OH	MEDINA CO	6364 Deerview Lane, Lafayette Twp.	Cleveland-Akron, OH	89		V	89	92	88	5	9	8	22
OH	MIAMI CO	3825 North State, Rt 589, Castown	Dayton-Springfield, OH	88		V	87	90	89	5	9	8	22
OH	MONTGOMERY CO	2100 Timberlane	Dayton-Springfield, OH	92		V	88	93	96	4	10	11	25
OH	PORTAGE CO	1570 Ravenna Road	Cleveland-Akron, OH	93		V	84	97	98	3	10	19	32
OH	PREBLE CO	National Trails School		83			85	81	85	6	2	4	12
OH	STARK CO	6318 Heminger Ave. Ne.	Canton-Massillon, OH	91		V	84	98	91	3	12	8	23
OH	STARK CO	Malone College	Canton-Massillon, OH	89		V	83	96	88	3	13	8	24
OH	STARK CO	1175 West Vine St., Alliance, Ohio	Canton-Massillon, OH	89		V	82	95	91	3	9	10	22
OH	STARK CO	245 W 5th St., Brewster, Ohio	Canton-Massillon, OH	88		V	82	96	88	2	11	7	20
OH	SUMMIT CO	800 Patterson Ave.	Cleveland-Akron, OH	94		V	90	97	95	5	14	12	31
OH	TRUMBULL CO	Airport, S.r.193 In Vienna	Youngstown-Warren, OH	95		V	91	101	95	8	19	10	37
OH	TRUMBULL CO	Community Hall Bldg. Sr 87, Kinsman	Youngstown-Warren, OH	95		V	91	100	95	7	15	10	32
OH	UNION CO	9819 Wasserbeck Rd.		80			61	88	92	.	5	7	12
OH	WARREN CO	230 Cook Road, Lebanon	Cincinnati-Hamilton, OH-KY-IN	95		V	94	97	95	9	16	12	37
OH	WASHINGTON CO	2000 Fourth Street	Parkersburg-Marietta, WV-KY-IN	90		V	84	91	97	3	12	11	26
OH	WOOD CO	347 N Dunbridge Rd., Bowling Green	Toledo, OH	86		V	84	83	91	2	2	7	11
OK	CLEVELAND CO	Moore Water Tower S. E. 19th Street		84			79	93	81	1	4	2	7

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
OK	COMANCHE CO	Usphs Indian Hospital South Side		75			59	85	82	.	5	.	5
OK	LATIMER CO	Buffalo Mtn. Near Talihina		.	**		80	93	.	3	6	.	9
OK	MC CLAIN CO	Goldsby Tree Farm		81			75	87	83	1	4	3	8
OK	OKLAHOMA CO	Ne 10th & Stonewall	Oklahoma City, OK	86		V	84	90	84	3	5	3	11
OK	OKLAHOMA CO	Okla. Christian College		80			80	88	74	3	3	.	6
OK	TULSA CO	900 South Osage Drive Skiatook, Ok	Tulsa, OK	88		V	81	92	91	2	7	10	19
OK	TULSA CO	1326 Mohawk Blvd	Tulsa, OK	86		V	76	93	90	2	7	7	16
OK	TULSA CO	502 East 144th. Pl.		83			83	82	84	3	2	3	8
OR	CLACKAMAS CO	Carus Trailer/spangler Rd		71			62	81	72	.	3	.	3
OR	CLACKAMAS CO	Milwaukie High/11300 Se 23rd St		55			54	60	51	.	1	.	1
OR	COLUMBIA CO	Sauvie Island-Ssb/route 1, Box 442		56			53	66	49	.	.	.	.
OR	JACKSON CO	7112 Rap Lane, Talent		74	*		63	85	65	.	5	.	6
OR	LANE CO	79980 Delight Valley School Rd, Saginaw		68			59	78	68	.	1	.	1
OR	LANE CO	Amazon Park/499 E 29th		61			56	73	56	.	.	.	.
OR	MARION CO	Cascade Jr High 10226 Marion Rd Turner O		67			61	77	65	.	1	.	1
PA	ALLEGHENY CO	California & 11th, Harrison Twp	Pittsburgh, PA	101		V	109	97	98	12	18	14	44
PA	ALLEGHENY CO	Old Oakdale Road South Fayette	Pittsburgh, PA	99		V	97	104	98	8	24	15	47
PA	ALLEGHENY CO	12245 Frankstown Rd Municipal Building	Pittsburgh, PA	92		V	88	95	94	5	16	11	32
PA	ALLEGHENY CO	Bapc 301 39th Street Bldg #7	Pittsburgh, PA	91		V	90	95	89	7	14	10	31
PA	ALLEGHENY CO	Carnegie Science Center - 1 Allegheny Rd		.	**		.	89	99	.	6	96	102
PA	ARMSTRONG CO	Glade Dr. & Nolte Rd. Kittanning	Armstrong Co	86		V	59	100	100	.	21	18	39
PA	BEAVER CO	Route 168 & Tomlinson Road	Pittsburgh, PA	92		V	86	95	95	4	11	9	24
PA	BEAVER CO	1015 Sebring Road	Pittsburgh, PA	91		V	82	92	101	3	15	11	29
PA	BEAVER CO	Eight Street And River Alley	Pittsburgh, PA	90		V	85	98	87	5	10	6	21
PA	BERKS CO	Ugi Co Mongantown Rd And Prospect St	Reading, PA	96		V	95	92	102	10	16	14	40
PA	BERKS CO	Kutztown University - Grim Science Bldg	Reading, PA	92		V	89	90	99	6	14	12	32
PA	BLAIR CO	2nd Ave & 7th St	Altoona, PA	95		V	96	98	91	7	17	6	30
PA	BUCKS CO	Rockview Lane	Philadelphia-Wilmington-Altantic City, PA-NJ	103		V	102	96	112	14	17	24	55
PA	CAMBRIA CO	Miller Auto Shop 1 Messenger St	Johnstown, PA	93		V	92	98	90	7	13	11	31
PA	CENTRE CO	Penn Nursery Off Of Rt 322	State College, PA	90		V	94	92	85	7	8	4	19
PA	CLEARFIELD CO	Located Near S.b. Elliott State Park	Clearfield Co	93		V	98	101	81	12	16	1	29
PA	DAUPHIN CO	Sipe Ave & Mae Street	Harrisburg-Lebanon-Carlisle, PA	94		V	92	88	104	9	9	15	33
PA	DAUPHIN CO	1833 Ups Drive Harrisburg Pa	Harrisburg-Lebanon-Carlisle, PA	92		V	84	97	95	3	22	15	40
PA	DELAWARE CO	Front St & Norris St	Philadelphia-Wilmington-Altantic City, PA-NJ	100		V	101	99	100	19	17	19	55

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
PA	ERIE CO	10th And Marne Streets	Erie, PA	93		V	87	98	96	6	12	13	31
PA	FRANKLIN CO	Forest Road - Methodist Hill	Franklin Co	97		V	91	104	98	7	22	20	49
PA	GREENE CO	4.8 Km Se Of Holbrook	Greene Co	97		V	92	100	101	10	16	21	47
PA	LACKAWANNA CO	Wilson Fire Co. Erie & Pleasant	Scranton-Wilkes-Barre-Hazleton, PA	90		V	87	89	96	6	5	11	22
PA	LACKAWANNA CO	George St Troop And City Of Scranton	Scranton-Wilkes-Barre-Hazleton, PA	88		V	85	88	93	4	5	11	20
PA	LANCASTER CO	Abraham Lincoln Jr High Grofftown Rd	Lancaster, PA	101		V	102	101	102	21	27	18	66
PA	LAWRENCE CO	Croton St & Jefferson St.		83			86	77	88	4	2	5	11
PA	LEHIGH CO	State Hospital Rear 1600 Hanover Ave	Allentown-Bethlehem-Easton, PA	100		V	101	95	105	12	18	19	49
PA	LUZERNE CO	Chilwick & Washington Sts	Scranton-Wilkes-Barre-Hazleton, PA	92		V	96	88	93	8	7	9	24
PA	LUZERNE CO	255 Lower Broadway(next To Leon&eddy's)		82			79	81	86	.	2	4	6
PA	LYCOMING CO	600 Railway Street Williamsport Pa		74			76	73	75	.	1	.	1
PA	LYCOMING CO	Tiadaghton Sportmans Club		73			60	84	76	.	3	.	3
PA	MERCER CO	Pa518 (new Castle Road) & Pa418	Sharon, PA	96		V	92	106	91	9	24	8	41
PA	MONROE CO	2.5 Km Ne Of Kunkletown	Monroe Co	97		V	100	91	100	15	14	20	49
PA	MONTGOMERY CO	State Armory - 1046 Belvoir Rd	Philadelphia-Wilmington-Altantic City, PA-NJ	104		V	107	103	104	19	17	20	56
PA	NORTHAMPTON CO	Coal St & Milton St	Allentown-Bethlehem-Easton, PA	93		V	92	89	98	11	8	12	31
PA	NORTHAMPTON CO	Washington & Cambria Sts. Freemansburg	Allentown-Bethlehem-Easton, PA	87		V	67	87	107	.	5	22	27
PA	PERRY CO	Route 34 Little Buffalo State Park	Harrisburg-Lebanon-Carlisle, PA	90		V	90	92	90	7	8	13	28
PA	PHILADELPHIA CO	Roxy Water Pump Sta Eva-Dearnley Sts	Philadelphia-Wilmington-Altantic City, PA-NJ	90		V	96	95	81	10	7	2	19
PA	PHILADELPHIA CO	6001 Elmwood St.	Philadelphia-Wilmington-Altantic City, PA-NJ	86		V	74	88	98	.	4	12	16
PA	PHILADELPHIA CO	Grant-Ashton Roads Phila Ne Airport	Philadelphia-Wilmington-Altantic City, PA-NJ	95	*	V	101	93	60	17	15	1	42
PA	PHILADELPHIA CO	1501 E Lycoming Ave Ams Lab		72			67	77	73	.	1	2	3
PA	WASHINGTON CO	Charler01 Waste Treatment Plant	Pittsburgh, PA	101		V	99	108	96	14	34	11	59
PA	WASHINGTON CO	Mccarrell And Fayette Sts	Pittsburgh, PA	91		V	88	95	90	6	15	11	32
PA	WASHINGTON CO	Hillman State Park - Kings Creek Road	Pittsburgh, PA	91		V	85	94	96	4	11	9	24
PA	WESTMORELAND CO	Old William Penn Hwy & Sardis Ave	Pittsburgh, PA	85		V	88	82	87	4	3	5	12
PA	YORK CO	Hill St.	York, PA	94		V	94	95	94	13	18	10	41
RI	KENT CO	W. Alton Jones Campus Uri Parkerfield We	Providence-Warwick-Pawtucket, RI	92		V	98	87	91	10	4	7	21
RI	PROVIDENCE CO	Francis School, 64 Bourne Ave		80			84	77	80	3	2	2	7
RI	WASHINGTON CO	Tarwell Road, Narragansett		84	**		84	80	90	3	1	11	15
SC	ABBEVILLE CO	Due West	Abbeville Co	86		V	78	91	90	1	13	8	22
SC	AIKEN CO	Jackson Middle School	Augusta-Aiken, GA-SC	89		V	85	98	84	6	23	3	32
SC	ANDERSON CO	Powdersville	Greenville-Spartanburg-Anderson, SC	95		V	86	102	99	4	21	16	41
SC	BARNWELL CO	Barnwell Cms (road S-6-21)	Barnwell Co	88		V	84	95	87	3	13	6	22

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
SC	BERKELEY CO	Bushy Park Pump Station		79			73	83	81	.	3	2	5
SC	CHARLESTON CO	Cape Romain Wildlife Refuge		79			82	75	80	3	.	2	5
SC	CHARLESTON CO	U S Army Reserve #1		75			61	81	84	.	1	2	3
SC	COWPENS NB	Cowpens National Battle Ground	Greenville-Spartanburg-Anderson, SC	93		V	90	96	94	5	15	9	29
SC	CHESTER CO	Chester Airport	Chester Co	92		V	89	93	94	5	16	15	36
SC	COLLETON CO	Ashton		82			78	87	82	.	5	1	6
SC	DARLINGTON CO	Pee Dee Exp. Station - Field	Darlington Co	88		V	85	89	91	4	8	11	23
SC	EDGEFIELD CO	Trenton	Augusta-Aiken, GA-SC	85		V	78	91	86	1	14	5	20
SC	OCONEE CO	Round Mt. Fire Tower (longcreek)	Oconee Co	86		V	79	93	87	.	9	5	14
SC	PICKENS CO	Clemson Cms (clemson U Campus)	Greenville-Spartanburg-Anderson, SC	90		V	80	96	94	2	6	10	18
SC	RICHLAND CO	Parklane - State Park Health Center	Columbia, SC	92		V	86	98	94	7	10	10	27
SC	RICHLAND CO	Sandhill #2	Columbia, SC	90		V	82	96	93	2	13	9	24
SC	CONGAREE SWAMP NM	Congaree Swamp National Monument		75			65	80	80	.	.	.	.
SC	SPARTANBURG CO	North Spartanburg Fire Station #2	Greenville-Spartanburg-Anderson, SC	94		V	88	96	100	5	12	11	28
SC	UNION CO	Delta		84			81	87	85	1	7	4	12
SC	WILLIAMSBURG CO	Indiantown		75			71	79	76	.	.	1	1
SC	YORK CO	York Cms (new)	Charlotte-Gastonia-Rock Hill, NC-SC	86		V	81	87	92	2	6	7	15
TN	ANDERSON CO	Freels Bend_study Area Melton Lake	Knoxville, TN	88		V	84	87	94	3	9	16	28
TN	GREAT SMOKY MTN NP	Great Smoky Mountains Np Look Rock	Knoxville, TN	104		V	98	110	106	19	35	25	79
TN	GREAT SMOKY MTN NP	Great Smoky Mountains Np - Cades Cove		83			77	86	88	.	4	4	8
TN	DAVIDSON CO	1015 Trinity Lane	Nashville, TN	91		V	97	89	88	8	4	9	21
TN	DAVIDSON CO	Percy Priest	Nashville, TN	91		V	86	91	98	1	12	15	28
TN	HAMILTON CO	Volunteer Army Ammunition Plant	Chattanooga, TN-GA	94		V	87	103	94	5	24	11	40
TN	HAMILTON CO	Ridgetrail Rd.	Chattanooga, TN-GA	94		V	89	97	98	5	21	11	37
TN	HAYWOOD CO	Rt. 1 Box 437a, Gates Tn 38037	Haywood Co	85	*	V	82	90	.	2	4	.	10
TN	JEFFERSON CO	Nances Grove ___nances Ferry Road	Jefferson Co	99	*	V	94	107	.	19	27	.	61
TN	KNOX CO	9315 Rutledge Pike Mascot Tn 37806	Knoxville, TN	102		V	94	114	98	18	38	20	76
TN	KNOX CO	4625 Mildred Drive	Knoxville, TN	100		V	96	105	99	16	37	24	77
TN	LAWRENCE CO	Busby Rd	Lawrence Co	88		V	79	90	97	1	5	27	33
TN	PUTNAM CO	1382 Benson Road, Cookeville, Tn	Putnam Co	88		V	85	90	91	4	13	12	29
TN	RUTHERFORD CO	Eagleville Puckett's Farm	Nashville, TN	90		V	87	87	96	6	4	11	21
TN	GREAT SMOKY MTN NP	Great Smoky Mountain Np Cove Mountain	Knoxville, TN	100		V	95	106	101	20	34	26	80
TN	GREAT SMOKY MTN NP	Clingsmans Dome, Great Smoky Mtns. Np	Knoxville, TN	98		V	89	106	101	6	33	18	57
TN	SHELBY CO	1330 Frayser Blvd	Memphis, TN-AR-MS	95		V	89	92	104	7	7	13	27

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
TN	SHELBY CO	6855 Mudville Rd. Edmond Orgill Park	Memphis, TN-AR-MS	95		V	87	103	96	7	21	14	42
TN	SULLIVAN CO	Ketron Middle School On Bloomingdale Rd.	Johnson City-Kingsport-Bristol, TN-VA	91		V	89	97	89	4	21	7	32
TN	SULLIVAN CO	Hill Road	Johnson City-Kingsport-Bristol, TN-VA	88		V	82	96	86	3	12	5	20
TN	SUMNER CO	Rockland Recreation Area-Old Hickory Dam	Nashville, TN	102		V	100	107	101	14	27	28	69
TN	SUMNER CO	Cottontown Wright's Farm	Nashville, TN	91		V	92	88	95	6	4	11	21
TN	WILLIAMSON CO	Fairview Middle School Crow Cut Road	Nashville, TN	95		V	92	96	97	12	12	15	39
TN	WILSON CO	Cedars Of Lebanon State Park	Nashville, TN	87		V	84	85	94	3	4	15	22
TX	BEXAR CO	6655 Bluebird Lane	San Antonio, TX	88		V	84	89	91	3	4	9	16
TX	BEXAR CO	F Range, 1000yd Marker Off Wilderness Tr		.	**		.	87	87	.	4	5	9
TX	BRAZORIA CO	426 Commerce Street	Houston-Galveston-Brazoria, TX	95		V	85	90	112	4	5	9	18
TX	BIG BEND NP	Big Bend National Park, Texas		65			63	70	64	.	.	.	.
TX	CAMERON CO	344 Porter Drive		66			65	68	66	.	.	.	.
TX	COLLIN CO	6590 Hillcrest Road	Dallas-Fort Worth, TX	101		V	102	97	104	20	23	16	59
TX	DALLAS CO	3277 W. Redbird Lane	Dallas-Fort Worth, TX	92		V	97	94	87	10	12	5	27
TX	DALLAS CO	1415 Hinton Street	Dallas-Fort Worth, TX	91		V	90	91	94	9	16	16	41
TX	DALLAS CO	12532 Nuestra Drive	Dallas-Fort Worth, TX	89	*	V	82	91	.	3	13	.	26
TX	DENTON CO	Quarter Mile Rd Off Hwy 121	Dallas-Fort Worth, TX	100		V	95	95	112	14	15	21	50
TX	DENTON CO	Denton Airport South Cams 56		.	**		.	101	106	.	20	23	43
TX	ELLIS CO	4252 Waterworks Road	Dallas-Fort Worth, TX	92		V	83	97	98	2	10	21	33
TX	EL PASO CO	6950 Alameda Ave Ascarate Park		78			75	92	69	1	5	1	7
TX	EL PASO CO	800 S. San Marcial Street		76			71	88	71	.	6	.	6
TX	EL PASO CO	500 North Campbell St.		69	*		69	59	45	.	.	.	1
TX	EL PASO CO	Rim Rd. Near Hawthorne Next To Ut Police		66			65	71	64	.	.	.	.
TX	GALVESTON CO	8715 Cessna Street	Houston-Galveston-Brazoria, TX	109		V	103	106	120	18	12	23	53
TX	GALVESTON CO	2701 13th Ave North At Logan	Houston-Galveston-Brazoria, TX	100		V	97	95	108	10	8	11	29
TX	GREGG CO	Gregg Co. Airport Near Longview	Longview-Marshall, TX	100		V	91	104	105	8	15	21	44
TX	HARRIS CO	13826 1/2 Croquet	Houston-Galveston-Brazoria, TX	118		V	134	113	109	28	19	26	73
TX	HARRIS CO	9726 1/2 Monroe	Houston-Galveston-Brazoria, TX	112		V	115	121	100	28	12	20	60
TX	HARRIS CO	4510 1/2 Aldine Mail Rd.	Houston-Galveston-Brazoria, TX	108		V	110	117	99	25	15	22	62
TX	HARRIS CO	5414 1\2 Durant St.	Houston-Galveston-Brazoria, TX	108		V	105	110	110	18	9	26	53
TX	HARRIS CO	16822 Kitzman	Houston-Galveston-Brazoria, TX	107		V	101	112	110	12	16	25	53
TX	HARRIS CO	1262 1/2 Mae Drive	Houston-Galveston-Brazoria, TX	106		V	114	104	100	16	11	13	40
TX	HARRIS CO	7330 1/2 North Wayside	Houston-Galveston-Brazoria, TX	102		V	101	109	98	9	12	18	39
TX	HARRIS CO	3333 1/2 Hwy 6 South	Houston-Galveston-Brazoria, TX	102		V	103	92	111	16	11	16	43

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
TX	HARRIS CO	9525 Clinton Dr	Houston-Galveston-Brazoria, TX	102		V	101	102	104	14	11	19	44
TX	HARRIS CO	1307 1/2 Crawford St.	Houston-Galveston-Brazoria, TX	100		V	104	106	91	16	10	9	35
TX	HARRIS CO	4401 1/2 Lang Rd.	Houston-Galveston-Brazoria, TX	96		V	96	98	96	5	11	5	21
TX	HARRIS CO	6400 Bissonnet Street		.	**		.	109	124	.	16	31	47
TX	HIDALGO CO	2300 North Glasscock		70			67	70	75	.	.	.	.
TX	HIDALGO CO	1902 West Schunior		64			65	63	65	.	.	.	.
TX	JEFFERSON CO	Georgia At Cunningham, Beaumont, Tx	Beaumont-Port Arthur, TX	88		V	93	96	75	7	8	1	16
TX	JEFFERSON CO	800 El Vista Road & 53rd Street	Beaumont-Port Arthur, TX	85		V	93	87	77	8	4	1	13
TX	NUECES CO	Corpus Christi State School, Airport Rd		81			77	82	84	1	2	2	5
TX	NUECES CO	9860 La Branch		77			71	76	85	.	1	4	5
TX	ORANGE CO	Police Station 2700 Austin Ave		75			90	73	64	6	1	.	7
TX	SMITH CO	Tyler Pounds Field Airport	Tyler, TX	91		V	87	90	97	6	8	22	36
TX	TARRANT CO	3317 Ross Ave.	Dallas-Fort Worth, TX	99		V	97	102	100	9	17	15	41
TX	TARRANT CO	Faa Site Off Alta Vista Road	Dallas-Fort Worth, TX	95		V	86	96	104	5	13	19	37
TX	TARRANT CO	1101 E. Arkansas Lane		.	**		.	102	98	.	18	20	38
TX	TRAVIS CO	12200 Lime Creek Rd.	Austin-San Marcos, TX	88		V	87	79	99	6	1	18	25
TX	TRAVIS CO	3700 North Hills Dr, Austin, Tx 78758		83			75	88	87	.	5	8	13
TX	VICTORIA CO	106 Mockingbird Lane		79			78	73	86	.	1	4	5
TX	WEBB CO	West End Washington St.		65			63	64	67	.	.	.	.
UT	CACHE CO	55 West 200 North, Logan, Utah		65			63	68	66	.	.	.	.
UT	DAVIS CO	65w 300s Bountiful Utah		84			79	96	79	.	9	2	11
UT	SALT LAKE CO	5715 S. 1400 E., Salt Lake City		82			75	92	80	1	10	1	12
UT	SALT LAKE CO	1675 South 600 East, Salt Lake City		82			75	93	78	.	6	2	8
UT	SALT LAKE CO	12100 W 1200 S, Lakepoint, Utah		81			73	95	77	.	13	2	15
UT	SALT LAKE CO	12885 S. 5600 West, Herriman, Utah		80			74	89	77	1	8	1	10
UT	CANYONLANDS NP	Canyonlands National Park, Utah		70			67	71	73	.	.	.	.
UT	UTAH CO	10865 N. 6000 West, Highland, Utah		82			75	90	83	.	7	1	8
UT	UTAH CO	1355 North 200 West Provo Ut		75			70	83	73	.	2	1	3
UT	WEBER CO	4601 S. 300 W., Washington Terrace, Utah		79			75	90	74	.	5	.	5
UT	WEBER CO	471 E. 2600 North, North Ogden, Utah		74			71	81	72	1	2	1	4
VT	BENNINGTON CO	Airport Rd, Bennington, Vermont		78	*		82	75	.	2	.	.	5
VT	CHITTENDEN CO	Proctor Maple Research Farm		70	*		72	73	.	.	.	.	1
VA	ARLINGTON CO	S 18th And Hayes St	Washington-Baltimore, DC-MD-VA-WV	97		V	94	98	100	17	10	21	48
VA	CAROLINE CO	U.s. Geodetic Survey, Off Rt.2, Corbin	Caroline Co	92		V	91	95	91	7	9	13	29

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
VA	CHARLES CITY CO	Shirley Plantation, Route 5	Richmond-Pertersburg, VA	96		V	100	92	97	15	17	15	47
VA	CHESTERFIELD CO	Beach,intersection Of Co.roads 655 & 654	Richmond-Pertersburg, VA	91		V	90	90	93	8	6	11	25
VA	FAIRFAX CO	Mt.vernon 2675 Sherwood Hall Lane	Washington-Baltimore, DC-MD-VA-WV	96		V	88	101	100	6	17	16	39
VA	FAIRFAX CO	6100 Arlington Blvd Montg Ward	Washington-Baltimore, DC-MD-VA-WV	95		V	93	99	93	10	17	9	36
VA	FAIRFAX CO	Cub Run Lee Rd Chant.(cubrun Treat Plant	Washington-Baltimore, DC-MD-VA-WV	91		V	79	103	92	1	16	6	23
VA	FAIRFAX CO	Lewinsville 1437 Balls Hill Rd	Washington-Baltimore, DC-MD-VA-WV	85		V	80	90	87	3	7	6	16
VA	FAIRFAX CO	Sta. 46-B9, Lee Park, Telegraph Road		.	**		.	97	99	.	14	19	33
VA	FAUQUIER CO	Rt651 C Phelps Wildlife Management Area	Washington-Baltimore, DC-MD-VA-WV	88		V	83	93	88	3	12	9	24
VA	FREDERICK CO	Rte 669, Butler Manuf. Co Near Rest Va	Frederrick Co	90		V	88	98	85	4	10	5	19
VA	HANOVER CO	Rt.627 & Raven Run Road, Pump House Lot	Richmond-Pertersburg, VA	99		V	99	100	100	15	22	18	55
VA	HENRICO CO	2401 Hartman Street Math & Science Ctr	Richmond-Pertersburg, VA	96		V	98	96	96	9	13	15	37
VA	LOUDOUN CO	38-I, Broad Run High School, Ashburn		.	**		.	102	90	.	17	7	24
VA	SHENANDOAH NP	Shenandoah Np Big Meadows	Madison Co	96		V	89	107	93	6	22	15	43
VA	PRINCE WILLIAM CO	James S. Long Park	Washington-Baltimore, DC-MD-VA-WV	91		V	86	98	89	4	13	9	26
VA	ROANOKE CO	East Vinton Elementary School	Roanoke, VA	90		V	84	99	89	2	13	6	21
VA	STAFFORD CO	Widewater Elem. Sch., Den Rich Road	Washington-Baltimore, DC-MD-VA-WV	91		V	91	92	92	9	10	15	34
VA	WYTHE CO	16-B Rural Retreat Sewage Disposal		84			80	87	85	1	6	4	11
VA	ALEXANDRIA	517 N Saint Asaph St, Alexandria Health	Washington-Baltimore, DC-MD-VA-WV	91		V	85	94	96	5	10	10	25
VA	HAMPTON	700 Shell Road	Hampton Co	94		V	97	90	97	12	10	12	34
VA	SUFFOLK	Tidewater Comm. College, Frederic Campus	Suffolk Co	90		V	91	87	94	11	10	10	31
VA	SUFFOLK	Tidewater Research Station, Hare Road	Suffolk Co	88		V	88	87	91	9	5	5	19
WA	OLYMPIC NP	Olympic National Park		43			45	41	43	.	.	.	.
WA	CLARK CO	19912 Ne 164th St_hockinson School		62			63	70	54	.	.	.	.
WA	CLARK CO	Mt View School/1500 Se Blairmount Dr		67	*		53	69	57	.	.	.	3
WA	COWLITZ CO	2800 Dike Road, Woodland, Cowlitz Co		56			54	62	52	.	1	.	1
WA	KING CO	Weyerhaeuser Mill/main Office Bldg		81	*		72	80	66	1	3	1	10
WA	KING CO	Lake Sammamish State Park/20050 Se 56th		64	*		58	63	54	.	3	.	3
WA	KING CO	Beacon Hill Reservoir/charleston & 15th		41			43	42	40	.	.	.	.
WA	KLICKITAT CO	1/4 Mile Off Hwy 14 - 1 Mi. W Of Wishram		64	*		60	63	63	.	.	.	1
WA	LEWIS CO	At The Dam At Packwood Lake		52			49	56	53	.	.	.	.
WA	MOUNT RAINIER NP	Mount Rainier Np, Tahoma Woods Admin		51			40	51	64	.	.	.	.
WA	PIERCE CO	Pack Forest/.6 Mi N Of Lagrande On Hwy 7		76	*		66	85	65	.	4	.	5
WA	SKAGIT CO	728 Ranger Station Rd		43			38	42	50	.	.	.	.
WA	SPOKANE CO	E 9814 Greenbluff Rd, Greenbluff		68	*		68	70	65	.	.	.	.

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
WA	WHATCOM CO	Fcc Site/1330 Loomis Trail Rd, Custer		56	*		52	56	50	.	.	.	.
WV	CABELL CO	24st & Ohio River-East Huntington	Huntington-Ashland, WV-KY-OH	95		V	86	105	96	6	16	16	38
WV	GREENBRIER CO	Sam Black Church - Doh Garage	Greenbrier Co	90		V	85	102	84	5	11	2	18
WV	HANCOCK CO	Oak St And Owings St-Between Dead Ends	Steubenville-Weirton, OH-WV	87		V	83	88	91	2	6	6	14
WV	KANAWHA CO	Wvapcc Ofc Bldg 1558 Washington St East	Charleston, WV	90		V	75	91	104	1	11	14	26
WV	OHIO CO	Northern Panhandle Regional Office	Wheeling, WV-OH	85		V	82	87	88	3	5	7	15
WV	WOOD CO	Neale School Vienna Wv	Parkersburg-Marietta, WV-OH	91		V	85	94	95	4	20	13	37
WI	BROWN CO	Uw-Green Bay, Hwys 54 & 57		78			73	77	85	1	2	5	8
WI	COLUMBIA CO	Wendt Rd, Columbus		78			73	76	87	1	.	5	6
WI	DANE CO	East High, 2302 Hoard St		80			79	76	85	1	1	4	6
WI	DODGE CO	Mayville, Near N6705 Madison Rd		83			78	81	91	2	1	5	8
WI	DOOR CO	Newport State Park (near Ellison Bay)	Door Co	97		V	100	92	101	7	7	15	29
WI	FLORENCE CO	Popple River, Nadp Fire Station #565		75			64	76	86	.	1	5	6
WI	FOND DU LAC CO	Fond Du Lac, N3996 Kelly Rd, Twn Byron		81			77	78	89	1	1	5	7
WI	JEFFERSON CO	Jefferson H.s. Trailer, Willow Dr.	Jefferson Co	85		V	78	82	96	.	2	8	10
WI	KENOSHA CO	Chiwaukee Prairie, 11838 First Court	Chicago-Gary-Kenosha, IL-IN-WI	95		V	92	93	100	6	17	13	36
WI	KENOSHA CO	Barbershop Quartet Scy, 7944 Sheridan Rd	Chicago-Gary-Kenosha, IL-IN-WI	87		V	82	86	93	3	5	6	14
WI	KENOSHA CO	UW Parkside, 900 Wood Road	Chicago-Gary-Kenosha, IL-IN-WI	85		V	78	83	94	1	3	5	9
WI	KEWAUNEE CO	Kewaunee, Route 1, Hwy 42	Kewaunee Co	94		V	99	91	93	5	4	8	17
WI	MANITOWOC CO	Manitowoc/woodlnd Dunes, 2315 Goodwin Rd	Manitowoc Co	97		V	99	97	95	7	12	11	30
WI	MANITOWOC CO	Collins Fire Tower, Co Hwy Jj		81			77	80	88	2	2	6	10
WI	MARATHON CO	Lake Dubay, 1780 Bergen Rd, Bergen Tnshp		76			68	77	84	.	1	3	4
WI	MILWAUKEE CO	Blakewood School, 3501 Blakewood Ave.	Milwaukee-Racine, WI	91		V	95	85	95	4	5	9	18
WI	MILWAUKEE CO	601 E. Ellsworth Lane	Milwaukee-Racine, WI	90		V	84	93	93	3	9	9	21
WI	MILWAUKEE CO	Alverno College, 3401 S. 39th Street	Milwaukee-Racine, WI	86		V	88	81	89	4	.	4	8
WI	MILWAUKEE CO	Uwm North Campus, 2114 E Kenwood Blvd		81			82	74	88	3	1	5	9
WI	MILWAUKEE CO	7528 W. Appleton Ave.		77			79	71	81	3	.	3	6
WI	ONEIDA CO	Harshaw Farm, 4398 Grace Lane, Harshaw		72			65	70	82	.	1	2	3
WI	OUTAGAMIE CO	Aal, 4432 N Meade St		79			79	72	87	2	1	6	9
WI	OZAUKEE CO	Harrington Beach State Park, 531 Hwy D	Milwaukee-Racine, WI	97		V	99	95	97	4	9	16	29
WI	OZAUKEE CO	Grafton, Hwy32 And I43	Milwaukee-Racine, WI	89		V	83	93	93	3	8	10	21
WI	RACINE CO	1519 Washington Ave	Milwaukee-Racine, WI	91		V	98	84	93	5	3	6	14
WI	ROCK CO	Merrill St Site, 1948 Merrill St	Janesville-Beloit, WI	87		V	85	84	93	4	3	9	16
WI	ROCK CO	Milton, 461 S John Paul Rd		77			75	77	80	.	.	1	1

Appendix A - Summary of Monitored Ozone Data from 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
WI	ST CROIX CO	Hwy 64, Somerset Town Hall		73			73	73	74	.	.	.	.
WI	SAUK CO	Devils Lake State Park, E12886 Tower Rd		78			71	80	85	.	1	4	5
WI	SHEBOYGAN CO	Kohler Andre Park, 1520 Old Park Road	Sheboygan, WI	93		V	92	95	93	4	7	10	21
WI	VERNON CO	Wildcat Mtn, Hwy 33, Ontario		72			69	73	76	.	1	1	2
WI	VILAS CO	Trout Lake Nursery, County Hwy M		71			64	68	81	.	.	2	2
WI	WALWORTH CO	Lake Geneva Nadp Site, Rr4 Elgin Club Rd	Walworth Co	85		V	81	84	90	2	3	7	12
WI	WASHINGTON CO	Slinger, Hwy 60 & Scenic, Polk Twnshp		82			74	79	94	2	1	5	8
WI	WAUKESHA CO	Carroll College, 225 N. Grand Ave.		84			79	77	96	3	1	7	11
WI	WINNEBAGO CO	Pvhc-Oshkosh, 725 Butler St		80			80	74	87	1	1	5	7
WY	YELLOWSTONE NP	Yellowstone National Park		65			61	66	70	.	.	.	.

NOTES:

* Design value based on 1996-98 values since 1999 data is incomplete.

** 2 years of data with a potential to violate. 2-year design value listed in "Notes" column.

***To facilitate viewing, these design values and annual fourth maximum values are reported in parts per billion (ppb). However, the form of the 8-hour ozone National Ambient Air Quality Standard is parts per million (ppm) and the NAAQS requires reporting of air quality monitoring data in ppm. The correct form of the data would actually be presented in ppm based on the form of the 8-hour ozone standard that appears in 40 CFR 50.10. For consistency with the NAAQS, all manipulations of air quality data to derive design values and draw conclusions about the status of a location must be performed in ppm.

****For sites in which the design value is based on 1996-98 data, total exceedances are for 1996-98 also.

Days with maximum 8-hour average greater than or equal to 85 ppb are the total days in 1997-1999 where the maximum 8-hour values are greater than or equal to 85 ppb. County exceedances are based on the site wth the maximum number of exceedances for the county. The exceedances are based on information in AIRS in April and have not been checked.

If a site is violating with 3 years of data, it is given priority over a site potentially violating with 2 years of data.

V=violating (Design value is greater than 0.08 ppm.)

The Location is a general guide to where the county is located. For counties not located in a MSA, they may be adjacent or near to other MSAs besides those listed.

Appendix B - Population of Counties at Risk of Smog

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
AL	CLAY CO	No	13,576	13,576
AL	ELMORE CO	Yes	59,522	0
AL	GENEVA CO	N/A	24,701	0
AL	JEFFERSON CO	No	662,906	662,906
AL	LAWRENCE CO	Yes	33,211	0
AL	MADISON CO	No	273,967	273,967
AL	MOBILE CO	No	397,302	397,302
AL	MONTGOMERY CO	Yes	216,837	0
AL	SHELBY CO	No	133,948	133,948
AL	SUMTER CO	Yes	16,163	0
AK	YUKON-KOYUKUK CA	Yes	8,039	0
AZ	COCHISE CO	Yes	111,993	0
AZ	COCONINO CO	Yes	114,191	0
AZ	GILA CO	Yes	48,298	0
AZ	MARICOPA CO	No	2,676,846	2,676,846
AZ	PIMA CO	Yes	780,803	0
AZ	YAVAPAI CO	Yes	143,560	0
AZ	YUMA CO	Yes	127,204	0
AR	CRITTENDEN CO	No	49,559	49,559
AR	MONTGOMERY CO	Yes	8,537	0
AR	NEWTON CO	Yes	8,001	0
AR	PULASKI CO	Yes	352,539	0
CA	ALAMEDA CO	No	1,336,878	1,336,878
CA	AMADOR CO	No	33,699	33,699
CA	BUTTE CO	Yes	193,713	0
CA	CALAVERAS CO	No	39,167	39,167
CA	COLUSA CO	Yes	18,517	0
CA	CONTRA COSTA CO	Yes	892,300	0
CA	EL DORADO CO	No	154,825	154,825
CA	FRESNO CO	No	761,965	761,965
CA	GLENN CO	Yes	26,396	0
CA	IMPERIAL CO	No	145,581	145,581
CA	INYO CO	Yes	18,480	0
CA	KERN CO	No	630,495	630,495
CA	KINGS CO	No	114,989	114,989
CA	LAKE CO	Yes	55,411	0
CA	LOS ANGELES CO	No	9,184,770	9,184,770
CA	MADERA CO	Yes	112,888	0
CA	MARIN CO	Yes	233,819	0
CA	MARIPOSA CO	No	16,057	16,057
CA	MENDOCINO CO	Yes	83,907	0
CA	MERCED CO	No	192,438	192,438
CA	MONO CO	N/A	10,586	0
CA	MONTEREY CO	Yes	340,990	0
CA	NAPA CO	Yes	117,404	0
CA	NEVADA CO	No	90,491	90,491
CA	ORANGE CO	Yes	2,672,457	0
CA	PLACER CO	No	218,818	218,818
CA	PLUMAS CO	Yes	20,676	0
CA	RIVERSIDE CO	No	1,444,905	1,444,905
CA	SACRAMENTO CO	No	1,128,424	1,128,424
CA	SAN BENITO CO	Yes	45,780	0
CA	SAN BERNARDINO CO	No	1,619,443	1,619,443
CA	SAN DIEGO CO	No	2,681,471	2,681,471

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
CA	SAN FRANCISCO CO	Yes	739,259	0
CA	SAN JOAQUIN CO	No	540,754	540,754
CA	SAN LUIS OBISPO CO	Yes	231,735	0
CA	SAN MATEO CO	Yes	693,670	0
CA	SANTA BARBARA CO	Yes	388,383	0
CA	SANTA CLARA CO	Yes	1,618,410	0
CA	SANTA CRUZ CO	Yes	239,638	0
CA	SHASTA CO	No	163,032	163,032
CA	SISKIYOU CO	Yes	44,376	0
CA	SOLANO CO	No	368,474	368,474
CA	SONOMA CO	Yes	425,653	0
CA	STANISLAUS CO	No	420,973	420,973
CA	SUTTER CO	No	77,055	77,055
CA	TEHAMA CO	No	54,730	54,730
CA	TULARE CO	No	354,495	354,495
CA	TUOLUMNE CO	No	52,693	52,693
CA	VENTURA CO	No	722,808	722,808
CA	YOLO CO	Yes	151,536	0
CO	ADAMS CO	Yes	315,354	0
CO	ARAPAHOE CO	Yes	461,578	0
CO	BOULDER CO	Yes	261,897	0
CO	DENVER CO	Yes	500,260	0
CO	DOUGLAS CO	Yes	118,832	0
CO	EL PASO CO	Yes	481,958	0
CO	JEFFERSON CO	Yes	498,874	0
CO	LA PLATA CO	N/A	40,337	0
CO	LARIMER CO	Yes	225,908	0
CO	MONTEZUMA CO	Yes	22,402	0
CO	WELD CO	Yes	154,930	0
CT	FAIRFIELD CO	No	835,956	835,956
CT	HARTFORD CO	No	829,776	829,776
CT	LITCHFIELD CO	No	181,255	181,255
CT	MIDDLESEX CO	No	148,931	148,931
CT	NEW HAVEN CO	No	794,138	794,138
CT	NEW LONDON CO	No	251,370	251,370
CT	TOLLAND CO	No	130,705	130,705
DE	KENT CO	No	123,410	123,410
DE	NEW CASTLE CO	No	474,489	474,489
DE	SUSSEX CO	No	133,319	133,319
DC	WASHINGTON	No	535,027	535,027
FL	ALACHUA CO	Yes	197,878	0
FL	BAKER CO	Yes	20,804	0
FL	BREVARD CO	Yes	459,322	0
FL	BROWARD CO	Yes	1,459,739	0
FL	DADE CO	Yes	2,092,559	0
FL	DUVAL CO	Yes	727,758	0
FL	ESCAMBIA CO	No	279,435	279,435
FL	HILLSBOROUGH CO	No	905,064	905,064
FL	HOLMES CO	Yes	18,482	0
FL	LEE CO	Yes	384,955	0
FL	LEON CO	N/A	217,694	0
FL	MANATEE CO	N/A	234,543	0
FL	MARION CO	N/A	234,163	0
FL	ORANGE CO	Yes	767,418	0

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
FL	OSCEOLA CO	Yes	138,991	0
FL	PALM BEACH CO	Yes	1,007,856	0
FL	PASCO CO	Yes	315,942	0
FL	PINELLAS CO	Yes	869,812	0
FL	POLK CO	Yes	445,042	0
FL	ST LUCIE CO	Yes	177,201	0
FL	SARASOTA CO	Yes	298,578	0
FL	SEMINOLE CO	Yes	340,725	0
FL	VOLUSIA CO	Yes	418,405	0
GA	BIBB CO	No	156,186	156,186
GA	CHATHAM CO	Yes	227,835	0
GA	DAWSON CO	No	13,524	13,524
GA	DE KALB CO	No	594,806	594,806
GA	DOUGLAS CO	No	86,145	86,145
GA	FANNIN CO	Yes	17,973	0
GA	FAYETTE CO	N/A	84,213	0
GA	FULTON CO	No	727,661	727,661
GA	GLYNN CO	Yes	65,941	0
GA	GWINNETT CO	No	493,744	493,744
GA	MUSCOGEE CO	No	182,857	182,857
GA	PAULDING CO	No	67,166	67,166
GA	RICHMOND CO	No	193,030	193,030
GA	ROCKDALE CO	No	66,397	66,397
GA	SUMTER CO	Yes	30,630	0
HI	HONOLULU CO	Yes	874,920	0
ID	BUTTE CO	Yes	3,152	0
IL	ADAMS CO	Yes	67,987	0
IL	CHAMPAIGN CO	Yes	167,565	0
IL	COOK CO	No	5,090,473	5,090,473
IL	DU PAGE CO	Yes	867,728	0
IL	EFFINGHAM CO	Yes	33,569	0
IL	HAMILTON CO	Yes	8,651	0
IL	JERSEY CO	No	21,403	21,403
IL	KANE CO	Yes	377,215	0
IL	LAKE CO	No	591,175	591,175
IL	MC HENRY CO	Yes	236,171	0
IL	MACON CO	Yes	114,922	0
IL	MACOUPIN CO	Yes	49,152	0
IL	MADISON CO	No	256,592	256,592
IL	PEORIA CO	Yes	183,261	0
IL	RANDOLPH CO	Yes	34,199	0
IL	ROCK ISLAND CO	Yes	148,378	0
IL	ST CLAIR CO	Yes	264,250	0
IL	SANGAMON CO	Yes	193,358	0
IL	WILL CO	Yes	437,680	0
IL	WINNEBAGO CO	Yes	265,910	0
IN	ALLEN CO	No	311,969	311,969
IN	CLARK CO	No	93,121	93,121
IN	ELKHART CO	Yes	170,648	0
IN	FLOYD CO	No	71,419	71,419
IN	HAMILTON CO	No	152,725	152,725
IN	HANCOCK CO	No	52,836	52,836
IN	JOHNSON CO	No	106,219	106,219
IN	LAKE CO	No	479,825	479,825

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
IN	LA PORTE CO	No	109,591	109,591
IN	MADISON CO	No	132,963	132,963
IN	MARION CO	No	818,679	818,679
IN	MORGAN CO	No	64,123	64,123
IN	PERRY CO	N/A	19,253	0
IN	PORTER CO	No	143,986	143,986
IN	POSEY CO	No	26,583	26,583
IN	ST JOSEPH CO	No	258,965	258,965
IN	VANDERBURGH CO	No	167,872	167,872
IN	VIGO CO	Yes	106,330	0
IN	WARRICK CO	No	50,705	50,705
IA	HARRISON CO	Yes	15,321	0
IA	LINN CO	Yes	180,581	0
IA	PALO ALTO CO	Yes	10,066	0
IA	POLK CO	Yes	357,059	0
IA	SCOTT CO	Yes	157,840	0
IA	STORY CO	Yes	74,728	0
IA	VAN BUREN CO	Yes	7,819	0
IA	WARREN CO	Yes	39,769	0
KS	LINN CO	N/A	9,072	0
KS	SEDGWICK CO	Yes	424,192	0
KS	WYANDOTTE CO	N/A	152,424	0
KY	BELL CO	Yes	30,034	0
KY	BOONE CO	No	74,784	74,784
KY	BOYD CO	No	50,097	50,097
KY	BULLITT CO	No	58,303	58,303
KY	CAMPBELL CO	No	87,619	87,619
KY	CARTER CO	N/A	26,563	0
KY	CHRISTIAN CO	No	65,199	65,199
KY	DAVIESS CO	No	91,194	91,194
KY	EDMONSON CO	No	11,230	11,230
KY	FAYETTE CO	No	241,373	241,373
KY	GRAVES CO	No	35,877	35,877
KY	GREENUP CO	No	37,230	37,230
KY	HANCOCK CO	No	8,917	8,917
KY	HARDIN CO	Yes	89,416	0
KY	HENDERSON CO	No	44,549	44,549
KY	JEFFERSON CO	No	673,547	673,547
KY	JESSAMINE CO	Yes	36,018	0
KY	KENTON CO	No	145,969	145,969
KY	LAWRENCE CO	N/A	15,640	0
KY	LIVINGSTON CO	No	9,315	9,315
KY	MC CRACKEN CO	No	65,146	65,146
KY	MC LEAN CO	No	9,775	9,775
KY	OLDHAM CO	No	43,347	43,347
KY	PERRY CO	Yes	31,261	0
KY	PIKE CO	Yes	73,434	0
KY	PULASKI CO	Yes	55,732	0
KY	SCOTT CO	Yes	29,181	0
KY	SIMPSON CO	No	16,182	16,182
KY	TRIGG CO	N/A	12,063	0
LA	ASCENSION PAR	No	69,300	69,300
LA	BEAUREGARD PAR	Yes	31,902	0
LA	BOSSIER PAR	No	92,781	92,781

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
LA	CADDO PAR	No	244,690	244,690
LA	CALCASIEU PAR	No	180,320	180,320
LA	EAST BATON ROUGE PAR	No	396,692	396,692
LA	GRANT PAR	Yes	18,770	0
LA	IBERVILLE PAR	No	30,893	30,893
LA	JEFFERSON PAR	No	454,838	454,838
LA	LAFAYETTE PAR	Yes	183,844	0
LA	LAFOURCHE PAR	No	88,003	88,003
LA	LIVINGSTON PAR	No	84,620	84,620
LA	ORLEANS PAR	Yes	474,010	0
LA	OUACHITA PAR	Yes	147,753	0
LA	POINTE COUPEE PAR	Yes	23,285	0
LA	ST BERNARD PAR	Yes	66,631	0
LA	ST CHARLES PAR	Yes	47,577	0
LA	ST JAMES PAR	Yes	20,972	0
LA	ST JOHN THE BAPTIST PAR	Yes	42,472	0
LA	ST MARY PAR	Yes	57,467	0
LA	WEST BATON ROUGE PAR	No	20,775	20,775
ME	CUMBERLAND CO	No	252,300	252,300
ME	HANCOCK CO	No	49,774	49,774
ME	KENNEBEC CO	Yes	116,046	0
ME	KNOX CO	Yes	37,602	0
ME	OXFORD CO	Yes	53,996	0
ME	PENOBSCOT CO	Yes	144,777	0
ME	PISCATAQUIS CO	N/A	18,250	0
ME	SAGADAHOC CO	No	35,836	35,836
ME	YORK CO	No	172,232	172,232
MD	ANNE ARUNDEL CO	No	470,060	470,060
MD	BALTIMORE CO	No	720,219	720,219
MD	CALVERT CO	No	68,579	68,579
MD	CARROLL CO	No	146,120	146,120
MD	CECIL CO	No	80,374	80,374
MD	CHARLES CO	No	115,000	115,000
MD	FREDERICK CO	N/A	182,694	0
MD	HARFORD CO	No	212,090	212,090
MD	KENT CO	No	18,980	18,980
MD	MONTGOMERY CO	No	823,804	823,804
MD	PRINCE GEORGES CO	No	778,730	778,730
MD	BALTIMORE	No	665,652	665,652
MA	BARNSTABLE CO	No	204,028	204,028
MA	BERKSHIRE CO	Yes	134,393	0
MA	BRISTOL CO	No	514,731	514,731
MA	ESSEX CO	No	689,790	689,790
MA	HAMPDEN CO	No	440,338	440,338
MA	HAMPSHIRE CO	No	150,134	150,134
MA	MIDDLESEX CO	No	1,415,831	1,415,831
MA	SUFFOLK CO	Yes	644,188	0
MA	WORCESTER CO	No	721,467	721,467
MI	ALLEGAN CO	No	100,094	100,094
MI	BENZIE CO	No	14,286	14,286
MI	BERRIEN CO	No	161,421	161,421
MI	CASS CO	No	50,232	50,232
MI	CLINTON CO	Yes	62,741	0
MI	GENESEE CO	No	436,810	436,810

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
MI	HURON CO	No	35,309	35,309
MI	INGHAM CO	Yes	285,588	0
MI	KALAMAZOO CO	No	229,826	229,826
MI	KENT CO	No	540,266	540,266
MI	LENAWEE CO	Yes	97,673	0
MI	MACOMB CO	No	736,386	736,386
MI	MASON CO	No	27,965	27,965
MI	MISSAUKEE CO	N/A	13,762	0
MI	MUSKEGON CO	No	165,512	165,512
MI	OAKLAND CO	Yes	1,171,086	0
MI	OTTAWA CO	No	218,356	218,356
MI	ST CLAIR CO	No	156,718	156,718
MI	WASHTENAW CO	Yes	296,843	0
MI	WAYNE CO	No	2,030,638	2,030,638
MN	ANOKA CO	Yes	286,509	0
MN	DAKOTA CO	Yes	331,965	0
MN	LAKE CO	Yes	10,748	0
MN	ST LOUIS CO	Yes	196,041	0
MN	WASHINGTON CO	Yes	189,760	0
MS	ADAMS CO	Yes	34,690	0
MS	DE SOTO CO	No	90,440	90,440
MS	HANCOCK CO	No	39,091	39,091
MS	HINDS CO	Yes	249,762	0
MS	JACKSON CO	No	129,421	129,421
MS	LAUDERDALE CO	Yes	77,111	0
MS	LEE CO	N/A	74,268	0
MS	MADISON CO	Yes	69,999	0
MS	PANOLA CO	N/A	32,907	0
MS	WARREN CO	Yes	49,190	0
MO	CEDAR CO	N/A	13,146	0
MO	CLAY CO	No	172,558	172,558
MO	GREENE CO	Yes	225,441	0
MO	JACKSON CO	Yes	647,786	0
MO	JEFFERSON CO	No	190,912	190,912
MO	MONROE CO	Yes	8,876	0
MO	PLATTE CO	No	68,324	68,324
MO	ST CHARLES CO	No	260,438	260,438
MO	STE GENEVIEVE CO	No	16,963	16,963
MO	ST LOUIS CO	No	1,004,403	1,004,403
MO	ST LOUIS	Yes	345,497	0
MT	FLATHEAD CO	Yes	72,690	0
NE	DOUGLAS CO	Yes	441,369	0
NE	LANCASTER CO	Yes	233,841	0
NV	CLARK CO	Yes	1,086,945	0
NV	DOUGLAS CO	Yes	36,619	0
NV	WASHOE CO	Yes	304,341	0
NV	WHITE PINE CO	Yes	10,412	0
NV	CARSON CITY	Yes	48,024	0
NH	BELKNAP CO	Yes	51,813	0
NH	CARROLL CO	Yes	38,607	0
NH	CHESHIRE CO	Yes	71,723	0
NH	GRAFTON CO	Yes	78,745	0
NH	HILLSBOROUGH CO	No	356,899	356,899
NH	MERRIMACK CO	Yes	126,060	0

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
NH	ROCKINGHAM CO	No	266,114	266,114
NH	STRAFFORD CO	Yes	107,961	0
NH	SULLIVAN CO	Yes	40,146	0
NJ	ATLANTIC CO	No	236,624	236,624
NJ	BERGEN CO	N/A	848,971	0
NJ	CAMDEN CO	No	506,338	506,338
NJ	CUMBERLAND CO	No	135,358	135,358
NJ	ESSEX CO	No	751,558	751,558
NJ	GLOUCESTER CO	No	245,651	245,651
NJ	HUDSON CO	No	550,443	550,443
NJ	HUNTERDON CO	No	120,006	120,006
NJ	MERCER CO	No	330,689	330,689
NJ	MIDDLESEX CO	No	706,074	706,074
NJ	MONMOUTH CO	No	595,910	595,910
NJ	MORRIS CO	No	453,009	453,009
NJ	OCEAN CO	No	479,892	479,892
NJ	PASSAIC CO	N/A	466,150	0
NM	BERNALILLO CO	Yes	531,665	0
NM	DONA ANA CO	Yes	167,066	0
NM	EDDY CO	Yes	53,735	0
NM	SANDOVAL CO	Yes	85,812	0
NM	SAN JUAN CO	Yes	103,854	0
NM	VALENCIA CO	Yes	62,255	0
NY	ALBANY CO	Yes	295,390	0
NY	BRONX CO	No	1,191,206	1,191,206
NY	CHAUTAUQUA CO	No	140,342	140,342
NY	CHEMUNG CO	Yes	92,820	0
NY	DUTCHESS CO	No	262,848	262,848
NY	ERIE CO	No	949,666	949,666
NY	ESSEX CO	Yes	37,797	0
NY	HAMILTON CO	Yes	5,219	0
NY	HERKIMER CO	Yes	65,812	0
NY	JEFFERSON CO	No	113,468	113,468
NY	MADISON CO	Yes	71,607	0
NY	MONROE CO	Yes	720,809	0
NY	NEW YORK CO	Yes	1,539,403	0
NY	NIAGARA CO	No	220,980	220,980
NY	ONEIDA CO	Yes	233,166	0
NY	ONONDAGA CO	Yes	464,875	0
NY	ORANGE CO	No	325,829	325,829
NY	PUTNAM CO	No	91,650	91,650
NY	QUEENS CO	N/A	1,982,946	0
NY	RICHMOND CO	No	399,941	399,941
NY	SARATOGA CO	Yes	195,970	0
NY	SCHENECTADY CO	Yes	146,944	0
NY	SUFFOLK CO	No	1,360,042	1,360,042
NY	ULSTER CO	Yes	166,790	0
NY	WAYNE CO	No	94,742	94,742
NY	WESTCHESTER CO	No	894,550	894,550
NC	ALEXANDER CO	No	30,513	30,513
NC	AVERY CO	N/A	15,786	0
NC	BUNCOMBE CO	Yes	193,752	0
NC	CALDWELL CO	No	75,212	75,212
NC	CAMDEN CO	Yes	6,597	0

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
NC	CASWELL CO	No	21,709	21,709
NC	CHATHAM CO	No	44,504	44,504
NC	CUMBERLAND CO	No	286,224	286,224
NC	DAVIE CO	No	30,546	30,546
NC	DUPLIN CO	No	43,161	43,161
NC	DURHAM CO	No	199,031	199,031
NC	EDGECOMBE CO	No	56,125	56,125
NC	FORSYTH CO	No	286,501	286,501
NC	FRANKLIN CO	No	43,798	43,798
NC	GRANVILLE CO	No	42,097	42,097
NC	GUILFORD CO	No	383,065	383,065
NC	HAYWOOD CO	No	50,808	50,808
NC	JOHNSTON CO	No	100,570	100,570
NC	LENOIR CO	N/A	59,616	0
NC	LINCOLN CO	No	56,900	56,900
NC	MARTIN CO	Yes	26,609	0
NC	MECKLENBURG CO	No	609,107	609,107
NC	NEW HANOVER CO	Yes	146,358	0
NC	NORTHAMPTON CO	No	21,287	21,287
NC	PERSON CO	N/A	33,138	0
NC	PITT CO	No	120,388	120,388
NC	ROCKINGHAM CO	No	90,072	90,072
NC	ROWAN CO	No	123,340	123,340
NC	SWAIN CO	Yes	12,102	0
NC	WAKE CO	No	548,229	548,229
NC	YANCEY CO	Yes	16,502	0
ND	BILLINGS CO	N/A	1,122	0
ND	CASS CO	N/A	114,582	0
ND	MC KENZIE CO	N/A	5,813	0
ND	MERCER CO	N/A	9,564	0
ND	OLIVER CO	Yes	2,235	0
ND	STEELE CO	Yes	2,267	0
OH	ALLEN CO	No	108,101	108,101
OH	ASHTABULA CO	No	102,439	102,439
OH	BUTLER CO	No	327,266	327,266
OH	CLARK CO	No	147,438	147,438
OH	CLERMONT CO	No	171,833	171,833
OH	CLINTON CO	No	39,024	39,024
OH	CUYAHOGA CO	No	1,399,537	1,399,537
OH	DELAWARE CO	No	85,513	85,513
OH	FRANKLIN CO	No	1,018,014	1,018,014
OH	GEAUGA CO	No	86,613	86,613
OH	GREENE CO	No	139,984	139,984
OH	HAMILTON CO	No	854,994	854,994
OH	JEFFERSON CO	N/A	76,567	0
OH	KNOX CO	No	52,235	52,235
OH	LAKE CO	No	224,093	224,093
OH	LAWRENCE CO	No	64,482	64,482
OH	LICKING CO	No	138,613	138,613
OH	LOGAN CO	Yes	45,959	0
OH	LORAIN CO	No	282,038	282,038
OH	LUCAS CO	No	451,195	451,195
OH	MADISON CO	No	41,525	41,525
OH	MAHONING CO	No	259,219	259,219

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
OH	MEDINA CO	No	140,932	140,932
OH	MIAMI CO	No	97,302	97,302
OH	MONTGOMERY CO	No	564,716	564,716
OH	PORTAGE CO	No	150,566	150,566
OH	PREBLE CO	Yes	42,944	0
OH	STARK CO	No	374,793	374,793
OH	SUMMIT CO	No	532,120	532,120
OH	TRUMBULL CO	No	226,738	226,738
OH	UNION CO	Yes	38,073	0
OH	WARREN CO	No	137,530	137,530
OH	WASHINGTON CO	No	63,996	63,996
OH	WOOD CO	No	118,271	118,271
OK	CLEVELAND CO	Yes	197,079	0
OK	COMANCHE CO	Yes	110,919	0
OK	LATIMER CO	N/A	10,217	0
OK	MC CLAIN CO	Yes	25,792	0
OK	OKLAHOMA CO	No	633,741	633,741
OK	OKMULGEE CO	N/A	37,966	0
OK	TULSA CO	No	534,292	534,292
OR	CLACKAMAS CO	Yes	329,251	0
OR	COLUMBIA CO	Yes	43,645	0
OR	JACKSON CO	Yes	171,236	0
OR	LANE CO	Yes	309,646	0
OR	MARION CO	Yes	264,680	0
PA	ALLEGHENY CO	No	1,287,459	1,287,459
PA	ARMSTRONG CO	No	73,772	73,772
PA	BEAVER CO	No	186,578	186,578
PA	BERKS CO	No	353,650	353,650
PA	BLAIR CO	No	131,287	131,287
PA	BUCKS CO	No	582,464	582,464
PA	CAMBRIA CO	No	157,528	157,528
PA	CENTRE CO	No	131,962	131,962
PA	CLEARFIELD CO	No	79,729	79,729
PA	DAUPHIN CO	No	247,500	247,500
PA	DELAWARE CO	No	546,636	546,636
PA	ERIE CO	No	280,519	280,519
PA	FRANKLIN CO	No	127,399	127,399
PA	GREENE CO	No	42,294	42,294
PA	LACKAWANNA CO	No	212,170	212,170
PA	LANCASTER CO	No	453,348	453,348
PA	LAWRENCE CO	Yes	95,519	0
PA	LEHIGH CO	No	297,749	297,749
PA	LUZERNE CO	No	319,417	319,417
PA	LYCOMING CO	Yes	118,681	0
PA	MERCER CO	No	122,059	122,059
PA	MONROE CO	No	122,230	122,230
PA	MONTGOMERY CO	No	711,683	711,683
PA	NORTHAMPTON CO	No	258,520	258,520
PA	PERRY CO	No	43,946	43,946
PA	PHILADELPHIA CO	No	1,462,834	1,462,834
PA	WASHINGTON CO	No	206,348	206,348
PA	WESTMORELAND CO	No	375,784	375,784
PA	YORK CO	No	371,312	371,312
RI	KENT CO	No	162,103	162,103

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
RI	PROVIDENCE CO	Yes	575,330	0
RI	WASHINGTON CO	Yes	119,215	0
SC	ABBEVILLE CO	No	24,314	24,314
SC	AIKEN CO	No	133,962	133,962
SC	ANDERSON CO	No	158,029	158,029
SC	BARNWELL CO	No	21,739	21,739
SC	BERKELEY CO	Yes	131,892	0
SC	CHARLESTON CO	Yes	275,152	0
SC	CHEROKEE CO	No	48,434	48,434
SC	CHESTER CO	No	33,639	33,639
SC	COLLETON CO	Yes	37,133	0
SC	DARLINGTON CO	No	65,621	65,621
SC	EDGEFIELD CO	No	19,122	19,122
SC	OCONEE CO	No	63,341	63,341
SC	PICKENS CO	No	105,048	105,048
SC	RICHLAND CO	No	294,399	294,399
SC	SPARTANBURG CO	No	244,849	244,849
SC	UNION CO	Yes	30,737	0
SC	WILLIAMSBURG CO	Yes	37,207	0
SC	YORK CO	No	149,229	149,229
TN	ANDERSON CO	No	71,781	71,781
TN	BLOUNT CO	No	100,562	100,562
TN	BRADLEY CO	N/A	80,909	0
TN	DAVIDSON CO	No	537,883	537,883
TN	HAMILTON CO	No	296,462	296,462
TN	HAYWOOD CO	No	19,808	19,808
TN	JEFFERSON CO	No	41,308	41,308
TN	KNOX CO	No	367,889	367,889
TN	LAWRENCE CO	No	39,190	39,190
TN	PUTNAM CO	No	58,766	58,766
TN	RUTHERFORD CO	No	159,058	159,058
TN	SEVIER CO	No	62,551	62,551
TN	SHELBY CO	No	871,966	871,966
TN	SULLIVAN CO	No	150,541	150,541
TN	SUMNER CO	No	121,867	121,867
TN	WILLIAMSON CO	No	109,199	109,199
TN	WILSON CO	No	81,067	81,067
TX	BEXAR CO	No	1,334,968	1,334,968
TX	BRAZORIA CO	No	223,987	223,987
TX	BREWSTER CO	Yes	9,318	0
TX	CAMERON CO	Yes	321,534	0
TX	COLLIN CO	No	387,670	387,670
TX	DALLAS CO	No	2,017,085	2,017,085
TX	DENTON CO	No	358,375	358,375
TX	ELLIS CO	No	98,659	98,659
TX	EL PASO CO	Yes	694,721	0
TX	GALVESTON CO	No	243,143	243,143
TX	GREGG CO	No	112,944	112,944
TX	HARRIS CO	No	3,156,572	3,156,572
TX	HIDALGO CO	Yes	508,926	0
TX	JEFFERSON CO	No	243,390	243,390
TX	MARION CO	N/A	10,502	0
TX	NUECES CO	Yes	318,526	0
TX	ORANGE CO	Yes	84,803	0

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
TX	SMITH CO	No	166,756	166,756
TX	TARRANT CO	No	1,320,890	1,320,890
TX	TRAVIS CO	No	696,799	696,799
TX	VICTORIA CO	Yes	82,385	0
TX	WEBB CO	Yes	181,927	0
UT	CACHE CO	Yes	84,757	0
UT	DAVIS CO	Yes	219,193	0
UT	SALT LAKE CO	Yes	837,839	0
UT	SAN JUAN CO	Yes	13,345	0
UT	UTAH CO	Yes	325,777	0
UT	WEBER CO	Yes	177,823	0
VT	BENNINGTON CO	N/A	36,477	0
VT	CHITTENDEN CO	N/A	142,243	0
VA	ARLINGTON CO	No	175,937	175,937
VA	CAROLINE CO	No	21,642	21,642
VA	CHARLES CITY CO	No	6,961	6,961
VA	CHESTERFIELD CO	No	245,964	245,964
VA	FAIRFAX CO	No	912,167	912,167
VA	FAUQUIER CO	No	52,097	52,097
VA	FREDERICK CO	No	53,198	53,198
VA	HANOVER CO	No	78,444	78,444
VA	HENRICO CO	No	234,252	234,252
VA	LOUDOUN CO	N/A	128,719	0
VA	MADISON CO	No	12,455	12,455
VA	PRINCE WILLIAM CO	No	252,976	252,976
VA	ROANOKE CO	No	81,526	81,526
VA	STAFFORD CO	No	84,765	84,765
VA	WYTHE CO	Yes	26,457	0
VA	ALEXANDRIA	No	118,327	118,327
VA	HAMPTON	No	138,688	138,688
VA	SUFFOLK	No	59,948	59,948
WA	CLALLAM CO	Yes	64,146	0
WA	CLARK CO	Yes	313,370	0
WA	COWLITZ CO	Yes	90,844	0
WA	KING CO	Yes	1,631,488	0
WA	KLICKITAT CO	Yes	18,752	0
WA	LEWIS CO	Yes	67,713	0
WA	PIERCE CO	N/A	664,125	0
WA	SKAGIT CO	Yes	97,226	0
WA	SPOKANE CO	Yes	408,958	0
WA	THURSTON CO	N/A	200,839	0
WA	WHATCOM CO	Yes	155,139	0
WV	CABELL CO	No	96,049	96,049
WV	GREENBRIER CO	No	35,810	35,810
WV	HANCOCK CO	No	34,640	34,640
WV	KANAWHA CO	No	204,485	204,485
WV	OHIO CO	No	49,321	49,321
WV	WOOD CO	No	87,727	87,727
WI	BROWN CO	Yes	215,185	0
WI	COLUMBIA CO	Yes	50,482	0
WI	DANE CO	Yes	398,136	0
WI	DODGE CO	Yes	82,404	0
WI	DOOR CO	No	27,107	27,107
WI	FLORENCE CO	Yes	5,277	0

State	County	In Attainment?	Population-1997	Pop-1997-NonAtt
WI	FOND DU LAC CO	Yes	94,899	0
WI	JEFFERSON CO	No	73,657	73,657
WI	KENOSHA CO	No	143,135	143,135
WI	KEWAUNEE CO	No	19,771	19,771
WI	MANITOWOC CO	No	82,775	82,775
WI	MARATHON CO	Yes	122,436	0
WI	MILWAUKEE CO	No	917,034	917,034
WI	ONEIDA CO	Yes	35,963	0
WI	OUTAGAMIE CO	Yes	154,785	0
WI	OZAUKEE CO	No	81,053	81,053
WI	POLK CO	N/A	38,133	0
WI	RACINE CO	No	185,901	185,901
WI	ROCK CO	No	151,968	151,968
WI	ST CROIX CO	Yes	56,860	0
WI	SAUK CO	Yes	52,803	0
WI	SHEBOYGAN CO	No	110,458	110,458
WI	VERNON CO	Yes	27,473	0
WI	VILAS CO	Yes	21,156	0
WI	WALWORTH CO	No	84,362	84,362
WI	WASHINGTON CO	Yes	113,180	0
WI	WAUKESHA CO	Yes	348,359	0
WI	WINNEBAGO CO	Yes	150,639	0
WY	TETON CO	Yes	13,854	0
	Total		180,983,005	116,706,063

Appendix C - Summary of all Monitors in National Parks 1997-1999

State	County Name	Area Location or Site Address	Metropolitan Statistical Area or County if V	Design Value***	Note	Viol?	4th Max 8-Hour Avg.*** 1997	1998	1999	8-hour Days >= 85 ppb 1997	1998	1999	97-99****
AK	DENALI NP	Denali National Park		53			51	54	54	.	.	.	.
AZ	CHIRICAHUA NM	Chiricahua National Moument		68			65	67	72	.	.	.	.
AZ	GRAND CANYON NP	Grand Canyon National Park, W Rim Drive		73			72	72	76	.	.	.	.
AZ	SAGUARO NM	S Old Spanish Trail, Saguaro (east) Nm		74			79	76	69	.	.	1	1
CA	DEATH VALLEY NP	Death Valley Nm, Death Valley, Ca		79			77	82	79	.	1	1	2
CA	YOSEMITE NP	Turtleback Dome, Yosemite Natl' Pk 95389	Mariposa Co	86		V	81	94	85	3	9	4	16
CA	PINNACLES NM	Ne Entrance, Pinnacles Nm		82			76	88	82	1	5	.	6
CA	JOSHUA TREE NP	Joshua Tree National Monument	Los Angeles-Riverside-Orange County, CA	109		V	117	110	101	43	19	35	97
CA	CHANNEL ISLANDS NP	Santa Rosa Island -Becher's Bay		66			63	66	69	.	.	.	.
CA	LASSEN VOLCANIC NP	Manzanita Lake Rs, Lassen Volcanic Np		76			67	78	84	.	1	2	3
CA	SEQUOIA NP	Lookout Point, Mineral King Road	Visalia-Tulare-Porterville, CA	102		V	101	99	108	45	31	47	123
CA	SEQUOIA NP	Lower Kaweah, Sequoia Np	Visalia-Tulare-Porterville, CA	96		V	97	94	97	26	27	23	76
CO	ROCKY MTN NP	Rocky Mountain Np		74			70	80	74	0	1	1	2
CO	MESA VERDE NP	Mesa Verde National Park, Colorado		66			62	68	69	.	.	.	.
FL	EVERGLADES NP	Everglades Np		68			66	72	67	.	.	2	2
ID	CRATERS OF THE MOON NM	Craters Of The Moon National Mon, Idaho		64			60	65	68	.	.	.	.
IN	INDIANA DUNES NL	Indiana Dunes N Lakeshore		.	**		.	90	102	.	5	11	16
ME	ACADIA NP	Top Of Cadillac Mountain	Hancock Co	89		V	85	94	90	5	8	4	17
MA	CAPE COD NS	Fox Bottom Area-Cape Cod Nat'l Seashore	Barnstable-Yarmouth, MA	95		V	100	84	101	17	2	12	31
MN	VOYAGEURS NP	Voyageurs National Park		70			71	67	74	.	.	.	.
MT	GLACIER NP	Glacier National Park		50			40	53	48	.	.	.	.
NV	GREAT BASIN NP	Great Basin National Park		72			74	70	72	.	.	.	.
NY	SARATOGA NP	Saratoga National Historical Park		83			83	74	92	3	2	6	11
NC	GREAT SMOKY MTN NP	Great Smoky Mountain National Park	Haywood Co	90		V	87	92	93	7	12	19	38
SC	COWPENS NB	Cowpens National Battle Ground	Greenville-Spartanburg-Anderson, SC	93		V	90	96	94	5	15	9	29
SC	CONGAREE SWAMP NM	Congaree Swamp National Monument		75			65	80	80	.	.	.	.
TN	GREAT SMOKY MTN NP	Great Smoky Mountains Np Look Rock	Knoxville, TN	104		V	98	110	106	19	35	25	79
TN	GREAT SMOKY MTN NP	Great Smoky Mountains Np - Cades Cove		83			77	86	88	.	4	4	8
TN	GREAT SMOKY MTN NP	Great Smoky Mountain Np Cove Mountain	Knoxville, TN	100		V	95	106	101	20	34	26	80
TN	GREAT SMOKY MTN NP	Clingsmans Dome, Great Smoky Mtns. Np	Knoxville, TN	98		V	89	106	101	6	33	18	57
TX	BIG BEND NP	Big Bend National Park, Texas		65			63	70	64	.	.	.	.
UT	CANYONLANDS NP	Canyonlands National Park, Utah		70			67	71	73	.	.	.	.
VA	SHENANDOAH NP	Shenandoah Np Big Meadows	Madison Co	96		V	89	107	93	6	22	15	43
WA	OLYMPIC NP	Olympic National Park		43			45	41	43	.	.	.	.
WA	MOUNT RAINIER NP	Mount Rainier Np, Tahoma Woods Admin		51			40	51	64	.	.	.	.
WY	YELLOWSTONE NP	Yellowstone National Park		65			61	66	70	.	.	.	.

NOTES:

* Design value based on 1996-98 values since 1999 data is incomplete.

The Clean Air Network is an alliance of national, state and local environmental, public health and citizen organizations concerned about clean air. We empower and mobilize organizations by setting a national agenda and providing the resources, tools, and support necessary for action.

Initiated by The Pew Charitable Trusts through a grant to Pace University, CLEAR THE AIR is a joint project of three leading clean air groups, the Clean Air Task Force, National Environmental Trust and U.S. PIRG Education Fund.

Clean Air Network
1200 New York Avenue, N.W. Ste. 400
Washington, D.C. 20005
202/289-2429 202/289-1060
gporreco@nrdc.org
www.cleanair.net

Clear the Air: National Campaign Against Dirty Power
1200 18th Street, N.W.
Washington, D.C. 20036
202/887-1715 202/887-8880
Admin@cleartheair.org
www.cleartheair.org