

Chapter 3 Justifications in support of EPA's 8-Hour Ozone Designations

Bibb County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 20,826	VOC (tpy): 4,134	%drive to work: 38 Birmingham, AL MSA
1990-2000 growth: 25.6%	NOx (tpy): 1,623	Wind direction: not considered
2000-2010 growth: 19.4%	1999 Veh. mi. travelled (mln): 228	Topographical features: not considered

Blount County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Birmingham, AL		
Justification: See response to State recommendations for justification.		
2000 Population: 51,024	VOC (tpy): 5,041	%drive to work: 86 Birmingham, AL MSA
1990-2000 growth: 30.0%	NOx (tpy): 2,803	Wind direction: not considered
2000-2010 growth: 24.9%	1999 Veh. mi. travelled (mln): 574	Topographical features: not considered

Calhoun County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Anniston, AL		
Justification:		
2000 Population: 112,249	VOC (tpy): 13,546	%drive to work: 3 Birmingham, AL MSA
1990-2000 growth: - 3.3%	NOx (tpy): 8,080	Wind direction: not considered
2000-2010 growth: - 0.1%	1999 Veh. mi. travelled (mln): 1,542	Topographical features: not considered

Chilton County, Alabama

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 39,593	VOC (tpy): 5,448	%drive to work: 37 Birmingham, AL MSA
1990-2000 growth: 22.0%	NOx (tpy): 3,231	Wind direction: not considered
2000-2010 growth: 19.7%	1999 Veh. mi. travelled (mln): 657	Topographical features: not considered

Cleburne County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 14,123	VOC (tpy): 6,434	%drive to work: 27 Atlanta, GA MSA
1990-2000 growth: 10.9%	NOx (tpy): 2,698	Wind direction: not considered
2000-2010 growth: 9.1%	1999 Veh. mi. travelled (mln): 391	Topographical features: not considered

Coosa County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,202	VOC (tpy): 2,977	%drive to work: 4 Birmingham, AL MSA
1990-2000 growth: 10.3%	NOx (tpy): 1,065	Wind direction: not considered
2000-2010 growth: 7.6%	1999 Veh. mi. travelled (mln): 197	Topographical features: not considered

Cullman County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 77,483	VOC (tpy): 9,752	%drive to work: 10 Birmingham, AL MSA
1990-2000 growth: 14.6%	NOx (tpy): 4,299	Wind direction: not considered

2000-2010 growth: 12.3%	1999 Veh. mi. travelled (mln): 936	Topographical features: not considered
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DeKalb County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
2000 Population: 64,452	VOC (tpy): 8,111	%drive to work: 6 Chattanooga, TN--GA MSA
1990-2000 growth: 17.9%	NOx (tpy): 3,689	Wind direction: not considered
2000-2010 growth: 17.0%	1999 Veh. mi. travelled (mln): 808	Topographical features: not considered

Etowah County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Gadsden, AL		
Justification:		
2000 Population: 103,459	VOC (tpy): 9,228	%drive to work: 6 Birmingham, AL MSA
1990-2000 growth: 3.6%	NOx (tpy): 8,246	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 1,219	Topographical features: not considered

Jackson County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 53,926	VOC (tpy): 9,452	%drive to work: 12 Chattanooga, TN--GA MSA
1990-2000 growth: 12.8%	NOx (tpy): 34,865	Wind direction: not considered
2000-2010 growth: 9.6%	1999 Veh. mi. travelled (mln): 760	Topographical features: not considered

Jefferson County, Alabama

2004 Designation: Nonattainment		County design value: 83
Area: Birmingham, AL		
MSA or CMSA: Birmingham, AL		

Justification: State originally recommended nonattainment. On January 21, 2004, the State revised their recommendation to attainment. EPA disagrees with the State's revised recommendation based on the following 11 factor analysis:

11 Factor Analysis for Alabama

Alabama's initial submittal in July 2003, supported the conclusion that Jefferson and Shelby Counties be designated nonattainment for the 8-hour ozone standard, based on 2000 - 2002 monitoring data. In a follow-up submittal in January 2004, the State revised its recommendation requesting that Jefferson County not be designated nonattainment. This request was based on 2001 - 2003 monitoring data that showed Jefferson County attaining the standard. Based on the following analysis, Jefferson County should be designated as part of the Jefferson/Shelby County 8-hour ozone nonattainment area.

Factor 1 Emissions and air quality in adjacent areas (including adjacent C/MSAs)

EPA's analysis for factor 1 looked at nitrogen oxides (NO_x) and volatile organic compounds (VOC) emissions and emission densities and square miles. The following table has the NO_x and VOC emissions for the counties in the Birmingham MSA with the percent of the MSA totals. The numbers in parentheses represent the national ranking for 506 counties in nonattainment areas done by OAQPS.

County NO_x

(tpy) %NO_x VOC

(tpy) %VOC NO_x Density

(tons/sq mi) VOC Density

(tons/sq mi)

Blount 2,803 2% 5,041 7% 4.3 7.7

Jefferson 75,503 60% (14) 50,076 65% (30) 67.2 44.6

Shelby 40,928 32% (62) 12,762 17% (188) 50.6 15.8

St. Clair 7,624 6% 9,231 12% 11.7 14.1

Based on the analysis for this factor, there appear to be emissions from Jefferson County (which has 60 percent or more of NO_x and VOC emissions in the MSA) that contribute to air quality in Shelby County.

Factor 2 Population density and degree of urbanization including commercial development.

The following table has the population for the counties in the Birmingham MSA. Urban population figures were not available. The numbers in parentheses represent the national ranking for counties in nonattainment areas done by OAQPS.

County 2000

Population Population Density

(people/sq mi)

Blount 51,024 78

Jefferson 662,047 (61) 589

Shelby 143,293 (239) 177

St. Clair 64,742 102

Blount County has a much lower population density (78 people per square mile) than Jefferson County (589 people per square mile) and Shelby County (177 people per square mile). St. Clair County has a population density of (102 people per square mile) compared to Jefferson County (589 people per square mile) and Shelby County (177 people per square mile). Based on the analysis for this factor, there appear to be sufficient population in Jefferson County to represent a contribution to air quality in Shelby County.

Factor 3 Monitoring data representing ozone concentration in local areas and larger areas.

Jefferson County has 9 monitors that show it is attainment of the 8 hour ozone standard for the 2001-2003 ozone seasons. Shelby County has 1 monitor that shows it is violating the 8- hour ozone standard for the 2001-2003 ozone seasons (design value is .87). Further examination of the criteria shows that emission impacts from Jefferson County are likely contributing to the violations recorded in Shelby County. The Shelby County ozone monitor is situated close to the Jefferson/Shelby County boundary.

Factor 4 Location of emission sources.

Blount County has one large NOX source (Whitaker Contracting 1,500 tpy) and no large VOC sources. There is only one significant NOX source in St. Clair County, a cement kiln (National Cement Co. 1,851 tpy), which is implementing significant controls which have been determined to be reasonable and highly cost effective to meet the Alabama's NOX SIP requirements (implementation May 31, 2004). There is no large VOC source in St. Clair County.

Jefferson County sources include (based on NET96):

NOX Sources TPY

*Alabama Power (Miller) 46,525

VOC Sources (sources over 300tpy)

Drummond Co. 557

American Cast Iron Pipe Co. 892

SMI Steel 381

McWane Cast Iron Pipe Co. 436

U.S. Pipe & Foundry Co. 350

U.S. Pipe & Foundry Co. 478

U.S. Steel 303

Alabama Gas 301

Koppers Industries 380

Weyerhaeuser Co. 313

Shelby County

NOx Sources

Blue Circle Cement 2,497

Alabama Power (E C Gaston) 22,400

Chemical Lime Co. 1,011

VOC Sources (sources over 100tpy)

ABC Rail 235

*Alabama Power (E C Gaston) 124

Plantation Pipeline 204

Cook Publications 146

There is a large NOx source (*Alabama Power (Gorgas) 32,050 tpy) adjacent to the MSA (Northwest of Jefferson County) in Walker County.

* The stated tpy do not include NOx SIP controls required by the NOx SIP or the 68.2 tons per day combined reductions required by the Birmingham attainment SIP.

Factor 5 Traffic and commuting patterns.

The following table has the percent drive to work within the MSA and vehicle miles traveled (millions of miles) for the counties in the Birmingham MSA. The numbers in parentheses represent the national ranking for counties in nonattainment areas done by EPA.

County % Drive to Jefferson County % Drive to Shelby County VMT

Blount 43 1 574

Jefferson 91 6 8,012 (33)

Shelby 50 44 1,407 (246)

St. Clair 47 5 1,056

Based on 2001 data submitted by the State, Blount County's daily vehicle miles traveled (VMT) is only 5.3 percent of the total MSA VMT. St. Clair County's daily VMT is only 7.3 percent of the total MSA VMT. Based on the analysis for this factor, there appears to be sufficient VMT to represent a contribution to air quality in Shelby County.

Factor 6 Expected growth.

The following table has the population and population growth figures for the Birmingham MSA counties. The numbers in parentheses represent the national ranking for 506 counties in nonattainment areas done by EPA.

County 2000

Population % Growth

(90-00) % Growth

(00-10)

Blount 51,024 30% 24.9%

Jefferson 662,047 1.6% 1.8%

Shelby 143,293 44.2% 33.6%

St. Clair 64,742 29.5% 23.6%

Blount County has one of the higher expected population growth (25 percent) in the surrounding counties, however, its population (51,024) is small compared to that of the entire C/MSA (921,106) or to either Jefferson County (662,047) and Shelby County (143,293). St. Clair County has a fairly high expected population growth rate (24 percent), its population (64,742) is small compared to that of the entire C/MSA (921,106) and is only one-tenth the population of Jefferson County (662,047) and less than half the population of Shelby County (143,293). Based on the analysis for this factor, Jefferson County has by far the largest population (72% of area) which indicates a contribution to air quality in Shelby County.

Factor 7 Meteorology.

A State analysis shows that during the last three ozone seasons, May - September winds in the Birmingham area had no prevalent direction although there was a marked minimum of winds blowing from the northwest quadrant. A trajectory analysis was conducted and limited to 12 or 18 hours since the Shelby monitor is so closely located to the Jefferson County boundary and to magnify the path of the trajectory within the two Alabama counties. Using the Jefferson County monitor latitude and

longitude from the EPA AIRS database, the trajectories indicate that passage of air from Jefferson County to the Shelby County monitor is likely. This indicates that emission impacts from Jefferson County are also a likely contributor to air quality in Shelby County.

Factor 8 Geography/topography.

Birmingham is located in North Central Alabama in both Jefferson and Shelby Counties. The city is situated in the foothills of the Appalachians, about 300 miles inland from the Gulf of Mexico. The northwestern half of Jefferson County is included in the Cumberland Plateau, while Shelby County consists of several ridges and valleys.

Factor 9 Jurisdictional boundaries.

The Jefferson County Department of Health holds jurisdiction within the county boundaries of Jefferson County. ADEM holds jurisdiction for Blount, St. Clair and Shelby Counties.

Factor 10 Level of control of emission sources.

Reasonable Available Control Technology for VOC has been in place since 1979

Stage 1 Vapor Recovery has been in place since 1990

1-Hour Attainment Demonstration required further NO_x reductions from electric generating plants Gorgas and Miller, totaling 68.2 tons per day of NO_x reductions.

NO_x SIP Call requires large reductions in NO_x emissions from major utilities, large industrial boilers, gas turbines and cement kilns.

Tier II National Fuel Standard (starting 2004)

Factor 11 Regional emission reductions.

Tier II National Fuel Standard (starting 2004)

Heavy Duty Diesel Engine Standard

Highway Diesel Fuel Control

NO_x SIP Call requires large reductions in NO_x emissions from major utilities, large industrial boilers, gas turbines and cement kilns. As a result Gaston, Gorgas and Miller power plants have/will install the following controls:

Miller Units 1 & 2 Selective Catalytic Reduction (SCR)

Gaston Units 1 - 4 overfire air

Gaston Unit 5 advanced low NO_x burners

The following controls are being or have been placed on Gorgas and Miller power plants to meet the

requirements of the Birmingham attainment SIP:

Gorgas Unit 10 SCR

Gorgas Units 6, 7, and 8 low NOx burners

Miller Units 3&4 SCR

Therefore based on this analysis, EPA designates Jefferson County as nonattainment.

2000 Population: 662,047	VOC (tpy): 50,076	%drive to work: 97 Birmingham, AL MSA
1990-2000 growth: 1.6%	NOx (tpy): 75,503	Wind direction: not considered
2000-2010 growth: 1.8%	1999 Veh. mi. travelled (mln): 8,012	Topographical features: not considered

Randolph County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 22,380	VOC (tpy): 3,857	%drive to work: 15 Atlanta, GA MSA
1990-2000 growth: 12.6%	NOx (tpy): 9,621	Wind direction: not considered
2000-2010 growth: 10.9%	1999 Veh. mi. travelled (mln): 208	Topographical features: not considered

St. Clair County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Birmingham, AL		
Justification: EPA agrees with the state recommendation to designate St. Clair County as Unclassifiable/Attainment.		
2000 Population: 64,742	VOC (tpy): 9,231	%drive to work: 90 Birmingham, AL MSA
1990-2000 growth: 29.5%	NOx (tpy): 7,624	Wind direction: not considered
2000-2010 growth: 23.6%	1999 Veh. mi. travelled (mln): 1,056	Topographical features: not considered

Shelby County, Alabama

2004 Designation: Nonattainment		County design value: 87
Area: Birmingham, AL		
MSA or CMSA: Birmingham, AL		
Justification: EPA agrees with the State recommendation to designate Shelby County as		

nonattainment.		
2000 Population: 143,293	VOC (tpy): 12,762	%drive to work: 95 Birmingham, AL MSA
1990-2000 growth: 44.2%	NOx (tpy): 40,928	Wind direction: not considered
2000-2010 growth: 33.6%	1999 Veh. mi. travelled (mln): 1,407	Topographical features: not considered

Talladega County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 80,321	VOC (tpy): 11,457	%drive to work: 14 Birmingham, AL MSA
1990-2000 growth: 8.4%	NOx (tpy): 8,566	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 772	Topographical features: not considered

Tuscaloosa County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: Tuscaloosa, AL		
Justification: State's TDS showed "no discernable correlation" - meteorology, worker flow - no large stationary sources - Monitoring data in Tuscaloosa for two years shows attainment with CDV for 2003 at 91 ppb and current 4th max at 66 ppb (as of 7/31/03). - State's TSD applied the "11 factors" appropriately to omit adjacent Tuscaloosa County. AQ data: 2001 - .081; 2002 - .083; 2003, as of 7/31- .066; Critical Design Value {CDV} is .097)		
2000 Population: 164,875	VOC (tpy): 22,773	%drive to work: 7 Birmingham, AL MSA
1990-2000 growth: 9.5%	NOx (tpy): 12,294	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 2,346	Topographical features: not considered

Walker County, Alabama

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 70,713	VOC (tpy): 10,014	%drive to work: 26 Birmingham, AL MSA

1990-2000 growth: 4.5%	NOx (tpy): 33,732	Wind direction: not considered
2000-2010 growth: 3.1%	1999 Veh. mi. travelled (mln): 822	Topographical features: not considered

Gila County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA agrees with the State's recommendation for this area to be designated as attainment/unclassifiable. Gila county is located outside the Phoenix-Mesa Metropolitan Statistical Area. EPA has reviewed technical data and determined that the county is rural and separated from urban areas of Phoenix by desert and mountains.</p> <p>There is one ozone monitor in Gila County at Tonto National Monument but sufficient data has not been collected at this time to consider for designation purposes.</p>		
2000 Population: 51,335	VOC (tpy): 5,278	%drive to work: 8 Phoenix--Mesa, AZ MSA
1990-2000 growth: 27.6%	NOx (tpy): 3,510	Wind direction: not considered
2000-2010 growth: 6.4%	1999 Veh. mi. travelled (mln): 559	Topographical features: mountain barrier

Graham County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: This county is not located in the Phoenix-Mesa MSA. It is separated from the Phoenix area by mountains and is approximately 75 miles from the Phoenix area.</p> <p>There are no ozone monitors in Graham County. The two closest monitors to the county both show attainment. They are Saguaro National Monument, 19 miles away, with a design value of 73 ppb; and Chiricahua National Monument, 27 miles away, with a design value of 69 ppb.</p> <p>Therefore EPA agrees with the state for this area to be designated attainment/unclassifiable.</p>		
2000 Population: 33,489	VOC (tpy): 2,760	%drive to work: 1 Phoenix--Mesa, AZ MSA
1990-2000 growth: 26.1%	NOx (tpy): 1,557	Wind direction: not considered
2000-2010 growth: 29.9%	1999 Veh. mi. travelled (mln): 314	Topographical features: high elevation areas

La Paz County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -

Justification: EPA designates La Paz County attainment/unclassifiable. This county is not part of the Phoenix-Mesa MSA. This county is a rural area at least 50 miles from the urban portions of Maricopa County (and Phoenix). The county is separated from the Phoenix area by mountains and by the vast open and largely uninhabited Sonoran desert.

There are no ozone monitors in La Paz County. The nearest monitor is in Blythe, CA, 4 miles away, with a preliminary design value of 64 ppb based on one year of monitoring. The next nearest monitor is in Hillside, 25 miles away, with a design value of 77 ppb.

2000 Population: 19,715	VOC (tpy): 2,460	%drive to work: 2 Phoenix--Mesa, AZ MSA
1990-2000 growth: 42.4%	NOx (tpy): 3,007	Wind direction: not considered
2000-2010 growth: 27.3%	1999 Veh. mi. travelled (mln): 535	Topographical features: not considered

Maricopa County, Arizona

2004 Designation: Nonattainment		County design value: 87
Area: Phoenix-Mesa, AZ		
MSA or CMSA: Phoenix-Mesa, AZ		
Justification: We are designating part of Maricopa County nonattainment and the remainder attainment/unclassifiable. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Maricopa County indicates that areas outside the state's recommended nonattainment area are not contributing to the ozone violations in the nonattainment area.		
Areas excluded from this nonattainment area are rural and mostly uninhabited desert expanses, far from the Phoenix urban area, with little population, few sources, and no violating monitors. The nonattainment area in Maricopa county encompasses most of the population, sources, development and expected growth areas in the county.		
2000 Population: 3,072,149	VOC (tpy): 128,157	%drive to work: 99 Phoenix--Mesa, AZ MSA
1990-2000 growth: 44.8%	NOx (tpy): 135,603	Wind direction: not considered
2000-2010 growth: 20.7%	1999 Veh. mi. travelled (mln): 23,070	Topographical features: considered

Mohave County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Las Vegas, NV-AZ		
Justification: Mohave County is part of the Las Vegas C/MSA. There were violations of the 8-hour ozone standard in Las Vegas for the most recent 3-year period (2001-2003). The State of Arizona recommended that Mohave county be excluded from the nonattainment area (note: The State of Nevada did not request that Mohave county be included in the nonattainment area). Mohave County is mostly rural, with some smaller cities, and is separated from the Las Vegas urbanized areas by mostly undeveloped desert, the Colorado River and surrounding canyons, Lake Mead and high mountain		

ranges. The closest ozone monitors lie outside the county, and the nearest monitors are monitoring attainment. Based on an 11-factor analysis, EPA is satisfied that Mohave County, Arizona should be excluded from the Las Vegas Nonattainment area. EPA agrees with Arizona's recommendation and designates Mohave county attainment/unclassifiable for 8-hour ozone.

2000 Population: 155,032	VOC (tpy): 13,870	%drive to work:
1990-2000 growth: 65.8%	NOx (tpy): 12,702	Wind direction: not considered
2000-2010 growth: 25.4%	1999 Veh. mi. travelled (mln): 1,896	Topographical features: not considered

Pima County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: 74
Area: - attainment -		
MSA or CMSA: Tucson, AZ		
Justification: Pima County is not part of the Phoenix-Mesa MSA. Pima County includes the Tucson Metropolitan area which has a design value of 73 ppb, which does not violate the NAAQS. The county line is at least 50 miles from the urban portions of the Phoenix area and the urban portions of the Tucson area are more distant. Pima county and Tucson are separated from the Phoenix area by the Sonoran desert, rural and uninhabited areas and some mountain ranges. EPA does not believe that this area contributes to violations in the Phoenix-Mesa nonattainment area. Therefore EPA designates Pima County attainment/unclassifiable.		
2000 Population: 843,746	VOC (tpy): 39,111	%drive to work: 1 Phoenix--Mesa, AZ MSA
1990-2000 growth: 26.5%	NOx (tpy): 38,058	Wind direction: not considered
2000-2010 growth: 22.3%	1999 Veh. mi. travelled (mln): 6,638	Topographical features: not considered

Pinal County, Arizona

2004 Designation: Nonattainment		County design value: 83
Area: Phoenix-Mesa, AZ		
MSA or CMSA: Phoenix-Mesa, AZ		
Justification: We are designating part of Pinal County as nonattainment and the remainder as attainment/unclassifiable. EPA is excluding areas that are outside the Phoenix and surrounding city urbanized areas from the nonattainment area. We have concluded that these excluded areas are outside the Phoenix growth area where development and transportation upgrades associated with Phoenix are planned. These areas currently have very low population density and mostly consist of rural agricultural areas and unpopulated desert. There are few sources and no violating monitors in these excluded areas.		
In December 2003, EPA notified the State of its intention to designate the State's recommended nonattainment area in Maricopa county and additionally, to designate another area, referred to as "Area A" in Pinal County (Area A refers to a transportation planning boundary in the Greater Phoenix region).		
EPA's review of the area and further justification from the State support designating a portion of Pinal county nonattainment. Including Apache Junction in the nonattainment area captures most of the		

population, high population density, and emissions of the Phoenix area in Pinal county. Outside Apache Junction, Pinal county is mostly rural desert with sparse population. Thus, this inclusion captures the area that EPA concludes may be contributing to violations in the Phoenix-Mesa nonattainment area.

2000 Population: 179,727	VOC (tpy): 10,147	%drive to work: 93 Phoenix--Mesa, AZ MSA
1990-2000 growth: 54.4%	NOx (tpy): 13,717	Wind direction: not considered
2000-2010 growth: 11.1%	1999 Veh. mi. travelled (mln): 2,270	Topographical features: not considered

Yavapai County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: 77
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Yavapai County is a mostly rural area encompassing desert, mountains, some small cities and is not a part of the Phoenix-Mesa MSA or urbanized areas. The portion of Yavapai County that borders Maricopa County (where Phoenix is located) is rural and open desert and an unlikely candidate for urban development. Most of Yavapai county's population is located in the cities of Sedona, Prescott and Cottonwood and those areas are not associated with Phoenix and are over 75 miles from urban portions of the Phoenix area. There is one ozone monitor in Yavapai County and it shows attainment of the standard. The site is Hillside with a design value of 77 ppb. Therefore, EPA designates Yavapai County attainment/unclassifiable.		
2000 Population: 167,517	VOC (tpy): 10,399	%drive to work: 5 Phoenix--Mesa, AZ MSA
1990-2000 growth: 55.5%	NOx (tpy): 17,177	Wind direction: not considered
2000-2010 growth: 18.2%	1999 Veh. mi. travelled (mln): 2,411	Topographical features: high elevation areas

Yuma County, Arizona

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Yuma, AZ		
Justification: EPA designates Yuma County as attainment/unclassifiable. Yuma County is separated from Phoenix's urban areas by approximately 40 miles of mostly unpopulated desert. The county is rural desert with most of the population contained in the small city of Yuma, which is approximately 130 miles from the Phoenix urban area. Ozone monitoring data collected in Yuma County shows the area is well under the standard.		
2000 Population: 160,026	VOC (tpy): 8,475	%drive to work: 0 Phoenix--Mesa, AZ MSA
1990-2000 growth: 49.7%	NOx (tpy): 10,367	Wind direction: not considered
2000-2010 growth: 7.3%	1999 Veh. mi. travelled (mln): 1,578	Topographical features: not considered

Crittenden County, Arkansas

2004 Designation: Nonattainment		County design value: 92
Area: Memphis, TN-AR: (AQCR 018 Metropolitan Memphis Interstate)		
MSA or CMSA: Memphis, TN-AR-MS		
Justification: This county contains a violating monitor. The U.S. Environmental Protection Agency agrees with the State of Arkansas in their July 15, 2003 recommendation of Crittenden County as part of the Memphis nonattainment area.		
2000 Population: 50,866	VOC (tpy): 6,815	%drive to work: 94 Memphis, TN--AR--MS MSA
1990-2000 growth: 1.9%	NOx (tpy): 8,956	Wind direction: not considered
2000-2010 growth: 0.2%	1999 Veh. mi. travelled (mln): 786	Topographical features: not considered

Cross County, Arkansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cross County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) indicates that Cross County is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 19,526	VOC (tpy): 1,820	%drive to work: 11 Memphis, TN--AR--MS MSA
1990-2000 growth: 1.6%	NOx (tpy): 2,114	Wind direction: not considered
2000-2010 growth: -1.5%	1999 Veh. mi. travelled (mln): 189	Topographical features: not considered

Lee County, Arkansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Lee County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Lee County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 12,580	VOC (tpy): 1,360	%drive to work: 5 Memphis, TN--AR--MS MSA
1990-2000 growth: -3.6%	NOx (tpy): 1,691	Wind direction: not considered
2000-2010 growth: -5.8%	1999 Veh. mi. travelled (mln): 102	Topographical features: not considered

Mississippi County, Arkansas

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Mississippi County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Mississippi County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 51,979	VOC (tpy): 6,825	%drive to work: 2 Memphis, TN--AR--MS MSA
1990-2000 growth: -9.6%	NOx (tpy): 8,246	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 897	Topographical features: not considered

Poinsett County, Arkansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Poinsett County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) indicates that Poinsett County is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 25,614	VOC (tpy): 2,577	%drive to work: 7 Memphis, TN--AR--MS MSA
1990-2000 growth: 3.9%	NOx (tpy): 2,324	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 250	Topographical features: not considered

St. Francis County, Arkansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: St. Francis County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for St. Francis County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 29,329	VOC (tpy): 3,216	%drive to work: 14 Memphis, TN--AR--MS MSA
1990-2000 growth: 2.9%	NOx (tpy): 4,449	Wind direction: not considered
2000-2010 growth: -2.9%	1999 Veh. mi. travelled (mln): 713	Topographical features: not considered

Alameda County, California

2004 Designation: Nonattainment		County design value: 84
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: EPA designates San Francisco Bay Area as nonattainment. Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment. Alameda County is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation.		
2000 Population: 1,443,741	VOC (tpy): 58,627	%drive to work: 0
1990-2000 growth: 12.9%	NOx (tpy): 51,811	Wind direction: not considered
2000-2010 growth: 14.6%	1999 Veh. mi. travelled (mln): 10,256	Topographical features: not considered

Alpine County, California

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Alpine County is separated from the nonattainment areas of the Central Mountain Counties of Amador and Calaveras, and the South Mountain Counties of Tuolumne and Mariposa by the high mountain crest and peaks of the Sierra Nevada which range in elevation from approximately 7,000 feet to nearly 12,000 feet. This mountain barrier and nearby monitors on the same side of the Sierras are well under the standard. This separation means that the air quality problems on the lower western slopes of the Sierra are not a problem in Alpine County and its mostly high eastern Sierra slopes. There is no ozone monitoring in Alpine County. Two nearby sites show attainment for the ozone standard. They are South Lake Tahoe, 6 miles away, with a design value of 66 ppb; and Little Norway, 6 miles away, with a design value of 76 ppb. Therefore EPA designates Alpine County as attainment/unclassifiable.		
2000 Population: 1,208	VOC (tpy): 1,827	%drive to work: 9 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 8.5%	NOx (tpy): 252	Wind direction: not considered
2000-2010 growth: 19.9%	1999 Veh. mi. travelled (mln): 14	Topographical features: high elevations

Amador County, California

2004 Designation: Nonattainment		County design value: 85
Area: Amador and Calaveras Cos., CA: (Central Mountain Cos.)		
MSA or CMSA: - outside -		
Justification: [See also Nevada County, CA] Amador County (Central Mountain County) Nonattainment Area (NAA): This county is designated as nonattainment, including adjacent Calaveras County, but separate from the adjacent San Joaquin Valley nonattainment area. The following analysis addresses four "mountain" or "foothill" counties of Amador and Calaveras counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties).		

The eastern boundary of these four counties is the crest of the Sierra-Nevada mountain range, in excess of 7000 feet in elevation.

These four counties are not part of a C/MSA or MSA. The San Joaquin Valley nonattainment area is adjacent to these counties and is comprised of five MSAs, Eastern Kern and Kings counties. The San Joaquin Valley 8-hour ozone NAA is also a 1-hour ozone NAA. Prior to promulgation of the 8-hour NAAQS, none of the four foothill counties have ever been nonattainment for any NAAQS. Please see the maps included in chapter six of this document.

The State recommended the four foothill counties as two nonattainment areas, separate from the San Joaquin Valley nonattainment area. Our letter to the State dated December 2, 2003, stated our intent to include the four foothill counties and the San Joaquin Valley in one nonattainment area, and asked the State to further justify the separation, if the State still recommended three separate nonattainment areas. The State provided further justification in letters dated February 4 and April 9, 2004.

The State pointed out that all three areas will be nonattainment, but that the recommended splits would allow the State "to most efficiently and effectively implement the new 8-hour ozone standard" (Feb 4 letter). The State provided a technical and legal rationale for the splits.

The State will ensure that upwind reductions are secured as needed to bring the downwind areas into timely attainment by the earlier deadline applicable to the downwind areas. This approach may be more protective of health, because it is premature to assume that downwind foothill areas need the same time to attain as their upwind valley neighbors. Separating the areas will provide for attainment dates that are both as expeditious as practicable and not later than 2009 for the foothill counties (subpart 1), and 2013 for San Joaquin Valley nonattainment area (subpart 2, Serious).

The State also provided further convincing assurances in their letter to EPA dated April 9, 2004, that nonattainment area designations for the two foothill county areas will not jeopardize effective and coordinated clean air planning and expeditious attainment by the attainment deadline applicable for these counties.

The California Air Resources Board "intends to exercise its authority under State law to ensure that the State Implementation Plan (SIP) includes sufficient control strategies to attain the federal air quality standards in all parts of California, including areas impacted by intrastate transport of air pollution."

EPA therefore designates Amador and Calaveras Counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties) as nonattainment areas, separate from the San Joaquin Valley nonattainment area.

2000 Population: 35,100	VOC (tpy): 4,748	%drive to work: 14 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 16.8%	NOx (tpy): 3,006	Wind direction: not considered
2000-2010 growth: 8.9%	1999 Veh. mi. travelled (mln): 353	Topographical features: high elevation areas

Butte County, California

2004 Designation: Nonattainment	County design value: 89
Area: Chico, CA	

MSA or CMSA: Chico-Paradise, CA		
Justification: Ozone air monitoring data collected in Butte County at Paradise indicate the area does not meet the standard. We are designating the entire presumptive area, the Chico Metropolitan Statistical Area, Butte County, as nonattainment for the 8-hour NAAQS.		
2000 Population: 203,171	VOC (tpy): 13,931	%drive to work: 91 Chico--Paradise, CA MSA
1990-2000 growth: 11.6%	NOx (tpy): 10,502	Wind direction: not considered
2000-2010 growth: 27.3%	1999 Veh. mi. travelled (mln): 1,561	Topographical features: mountain barrier

Calaveras County, California

2004 Designation: Nonattainment	County design value: 91
Area: Amador and Calaveras Cos., CA: (Central Mountain Cos.)	
MSA or CMSA: - outside -	
<p>Justification: Justification: [See also Nevada County, CA] Calaveras County (Central Mountain County) Nonattainment Area: This county is designated as nonattainment, including adjacent Amador County, but separate from the adjacent San Joaquin Valley nonattainment area. The following analysis addresses four "mountain" or "foothill" counties of Amador and Calaveras counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties).</p> <p>The eastern boundary of these four counties is the crest of the Sierra-Nevada mountain range, in excess of 7000 feet in elevation.</p> <p>These four counties are not part of a C/MSA or MSA. The San Joaquin Valley nonattainment area is adjacent to these counties and is comprised of five MSAs, Eastern Kern and Kings counties. The San Joaquin Valley 8-hour ozone NAA is also a 1-hour ozone NAA. Prior to promulgation of the 8-hour NAAQS, none of the four foothill counties have ever been nonattainment for any NAAQS. Please see the maps included in chapter 6 of this document.</p> <p>The State recommended the four foothill counties as two nonattainment areas, separate from the San Joaquin Valley nonattainment area. Our letter to the State dated December 2, 2003, stated our intent to include the four foothill counties and the San Joaquin Valley in one nonattainment area, and asked the State to further justify the separation, if the State still recommended three separate nonattainment areas. The State provided further justification in letters dated February 4 and April 9, 2004.</p> <p>The State pointed out that all three areas will be nonattainment, but that the recommended splits would allow the State "to most efficiently and effectively implement the new 8-hour ozone standard" (Feb 4 letter). The State provided a technical and legal rationale for the splits.</p> <p>The State will ensure that upwind reductions are secured as needed to bring the downwind areas into timely attainment by the earlier deadline applicable to the downwind areas. This approach may be more protective of health, because it is premature to assume that downwind foothill areas need the same time to attain as their upwind valley neighbors. Separating the areas will provide for attainment dates that are both as expeditious as practicable and not later than 2009 for the foothill counties (subpart 1), and 2013 for San Joaquin Valley nonattainment area (subpart 2, Serious).</p> <p>The State also provided further convincing assurances in their letter to EPA dated April 9, 2004, that</p>	

nonattainment area designations for the two foothill county areas will not jeopardize effective and coordinated clean air planning and expeditious attainment by the attainment deadline applicable for these counties.

The California Air Resources Board "intends to exercise its authority under State law to ensure that the State Implementation Plan (SIP) includes sufficient control strategies to attain the federal air quality standards in all parts of California, including areas impacted by intrastate transport of air pollution."

EPA therefore designates Amador and Calaveras Counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties) as nonattainment areas, separate from the San Joaquin Valley nonattainment area.

2000 Population: 40,554	VOC (tpy): 5,526	%drive to work: 0
1990-2000 growth: 26.7%	NOx (tpy): 2,403	Wind direction: not considered
2000-2010 growth: 33.1%	1999 Veh. mi. travelled (mln): 422	Topographical features: high elevation areas

Colusa County, California

2004 Designation: Unclassifiable/Attainment		County design value: 75
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Colusa County is nearly all rural and agricultural. Although it is adjacent to the Sacramento Region nonattainment area, its monitoring data shows that it is well under the standard. The site, Colusa, has a DV of 75 ppb. Two nearby sites also show attainment. They are Willows, 9 miles away, with a DV of 73 ppb; and Yuba City, 13 miles away, with a DV of 79 ppb. It is sparsely populated, has few sources and its prevailing winds (away from Sacramento during the ozone season) prevent it from contributing to air pollution in Sacramento's nonattainment area. Therefore, EPA designates this county as attainment/unclassifiable.		
2000 Population: 18,804	VOC (tpy): 3,683	%drive to work: 10 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 15.5%	NOx (tpy): 4,073	Wind direction: not considered
2000-2010 growth: 65.4%	1999 Veh. mi. travelled (mln): 190	Topographical features: not considered

Contra Costa County, California

2004 Designation: Nonattainment		County design value: 81
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment. Contra Costa County is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation and designates this area nonattainment.		
2000 Population: 948,816	VOC (tpy): 43,928	%drive to work: 0

1990-2000 growth: 18.1%	NOx (tpy): 47,127	Wind direction: not considered
2000-2010 growth: 8.1%	1999 Veh. mi. travelled (mln): 6,579	Topographical features: not considered

El Dorado County, California

2004 Designation: Nonattainment		County design value: 107
Area: Sacramento Metro, CA		
MSA or CMSA: Sacramento-Yolo, CA		
Justification: Nonattainment area includes all but the Lake Tahoe Air Basin portion of the county, which begins at the crest of the Sierra Nevada mountains. Because the mountains act as a barrier to transport between the two air basins, only western and central portions will be nonattainment for 8-hour ozone. This nonattainment area is the same as the 1-hour nonattainment area. The State recommended the area nonattainment and EPA agrees with the State's recommendation.		
2000 Population: 156,299	VOC (tpy): 11,661	%drive to work: 88 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 24.1%	NOx (tpy): 6,451	Wind direction: not considered
2000-2010 growth: 37.6%	1999 Veh. mi. travelled (mln): 1,332	Topographical features: mountain barrier

Fresno County, California

2004 Designation: Nonattainment		County design value: 111
Area: San Joaquin Valley, CA		
MSA or CMSA: Fresno, CA		
Justification: Fresno County is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the same 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the San Joaquin Valley 8-hour ozone nonattainment area.		
2000 Population: 799,407	VOC (tpy): 41,188	%drive to work: 0
1990-2000 growth: 19.8%	NOx (tpy): 52,580	Wind direction: not considered
2000-2010 growth: 19.3%	1999 Veh. mi. travelled (mln): 7,177	Topographical features: not considered

Glenn County, California

2004 Designation: Unclassifiable/Attainment		County design value: 73
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Ozone air monitoring data collected in Glenn County shows air quality meeting the standard for attainment; therefore EPA designates this area as attainment/unclassifiable. The Willows site has a design value of 73 ppb. In addition, two nearby monitoring sites also show attainment.		
An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Glenn county indicates that this area is not contributing to the ozone violations in the Chico 8-hour ozone nonattainment area.		

2000 Population: 26,453	VOC (tpy): 4,145	%drive to work: 17 Chico--Paradise, CA MSA
1990-2000 growth: 6.7%	NOx (tpy): 3,916	Wind direction: not considered
2000-2010 growth: 47.6%	1999 Veh. mi. travelled (mln): 242	Topographical features: not considered

Imperial County, California

2004 Designation: Nonattainment		County design value: 87
Area: Imperial Co., CA		
MSA or CMSA: - outside -		
Justification: Imperial County is not part of a C/MSA or MSA. However, ozone air monitoring data collected in Imperial County shows the county does not meet the standard. EPA agrees with the State's recommendation to designate the entire county nonattainment for the 8-hour ozone standard.		
2000 Population: 142,361	VOC (tpy): 15,415	%drive to work: 2 Los Angeles--Riverside--O
1990-2000 growth: 30.2%	NOx (tpy): 17,072	Wind direction: not considered
2000-2010 growth: 55.6%	1999 Veh. mi. travelled (mln): 1,443	Topographical features: not considered

Inyo County, California

2004 Designation: Unclassifiable/Attainment		County design value: 81
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is adjacent to the San Joaquin Valley nonattainment area. However, it is separated from that area by the crest of the Sierra Nevada Mountains which are in excess of 10,000 feet in this area. There is one ozone monitor in the county and it shows attainment of the standard. The site is Death Valley National Park has a design value of 81 ppb. There are also two sites near Inyo County which show attainment: Trona, 4 miles away, with a design value of 83 ppb; and Mammoth Lakes, 17 miles away, with a design value of 78 ppb. EPA believes that the county does not contribute to a violation of the standard. Therefore the county is designated attainment/unclassifiable.		
2000 Population: 17,945	VOC (tpy): 2,500	%drive to work: 0
1990-2000 growth: -1.8%	NOx (tpy): 1,528	Wind direction: not considered
2000-2010 growth: 8.4%	1999 Veh. mi. travelled (mln): 199	Topographical features: mountain barrier

Kern County, California

2004 Designation: Nonattainment		County design value: 115
Area: Kern County (Eastern Kern), CA		
MSA or CMSA: Bakersfield, CA		
Justification: [see San Joaquin Valley/Eastern Kern Topography map]		

The Eastern Kern 8-hour ozone nonattainment area includes the eastern portion of Kern County. The west boundary of the nonattainment area is at the peaks of the western slopes of the Sierra Nevada mountains. The peaks at this boundary have elevations of approximately 4,000 to 7,000 feet. These mountains effectively separate Eastern Kern from the San Joaquin Valley 8-hour ozone nonattainment area. This boundary also serves as the boundary between the two areas for their 1-hour ozone designations.

This nonattainment area excludes the northeastern corner of Kern county, also known as the Indian Wells Valley. The Indian Wells Valley is attainment/unclassifiable and is excluded from the nonattainment area because it is separated from the rest of Eastern Kern county by mountain ranges. These mountains ranges are to the west: the peaks of the eastern slopes of the Sierra Nevada mountains are 6,000 to 7,000 feet in elevation along the western boundary of Indian Wells Valley; to the south, the El Paso mountains which are approximately 4,000 to 5,000 feet in this area; and also the Rand mountains which rise above 4,000 feet. These mountain barriers form the north and east boundaries of the airshed of the violating Eastern Kern area.

8-hour ozone data from a special purpose monitor at the China Lake Naval Air Station, which is in the attainment area, show design values below the standard. We therefore exclude the Indian Wells Valley from the Eastern Kern NAA. EPA agrees with the state recommendation.

2000 Population: 661,645	VOC (tpy): 48,952	%drive to work: 0
1990-2000 growth: 21.7%	NOx (tpy): 75,744	Wind direction: not considered
2000-2010 growth: 29.9%	1999 Veh. mi. travelled (mln): 6,265	Topographical features: mountain barrier

Kern County, California

2004 Designation: Nonattainment		County design value: 115
Area: San Joaquin Valley, CA		
MSA or CMSA: Bakersfield, CA		
Justification: [see San Joaquin Valley/Eastern Kern Topography map]		
This nonattainment area contains the western portion of Kern county. The eastern portion of the county is in a different nonattainment area. These areas are divided by the Sierra Nevada mountains (4,000 to 9,000 foot peaks in this area) and the Tehachapi mountains (4,000 to 7,000 foot peaks).		
This area is within the San Joaquin Valley Air Basin. EPA agrees with the state's recommendation for this area.		
2000 Population: 661,645	VOC (tpy): 48,952	%drive to work: 0
1990-2000 growth: 21.7%	NOx (tpy): 75,744	Wind direction: not considered
2000-2010 growth: 29.9%	1999 Veh. mi. travelled (mln): 6,265	Topographical features: mountain barrier

Kings County, California

2004 Designation: Nonattainment		County design value: 95
Area: San Joaquin Valley, CA		
MSA or CMSA: - outside -		

Justification: Kings county is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the San Joaquin Valley 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the SJV 8-hour ozone nonattainment area.

2000 Population: 129,461	VOC (tpy): 8,394	%drive to work: 0
1990-2000 growth: 27.6%	NOx (tpy): 10,535	Wind direction: not considered
2000-2010 growth: 19.4%	1999 Veh. mi. travelled (mln): 1,041	Topographical features: not considered

Lake County, California

2004 Designation: Unclassifiable/Attainment		County design value: 63
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is adjacent to the Sacramento and San Francisco MSAs. There is one ozone site in Lake County and it shows attainment for the 8-hour ozone standard. The site is Lakeport with a design value of 64 ppb. Two nearby sites also show attainment for ozone. They are Ukiah, 6 miles away, with a design value of 57 ppb; and Healdsburg, 14 miles away, with a design value of 62 ppb. This area is mostly rural and mountainous and is separated from the San Francisco and Sacramento areas by mountains. EPA concludes that this county does not contribute to violations in those areas. EPA therefore designates Lake County attainment/unclassifiable for the 8-hour ozone standard.		
2000 Population: 58,309	VOC (tpy): 7,238	%drive to work: 1 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 15.2%	NOx (tpy): 3,659	Wind direction: not considered
2000-2010 growth: 33.3%	1999 Veh. mi. travelled (mln): 549	Topographical features: mountain barrier

Los Angeles County, California

2004 Designation: Nonattainment		County design value: 126
Area: Los Angeles-South Coast Air Basin, CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
Justification: This nonattainment area includes the Los Angeles County portion of the South Coast Air Basin. This area includes the populated portions of the Los Angeles Metropolitan area south of the San Gabriel Mountains. This nonattainment area is bounded on the north by the San Gabriel Mountains and includes the rest of the county. The peaks of the San Gabriel Mountains are in excess of 10,000 feet and separate the South Coast nonattainment area from the Western Mojave Desert, which is also nonattainment for 8-hour ozone.		
These peaks are so significant that the climate on either side of the mountains is drastically different, with Los Angeles area having a mild and humid Mediterranean climate dominated by ocean influence while the Mojave Desert is characterized by aridity, strong winds, hot and dry summers with wide variations in temperature with little ocean influence.		
This boundary is the same as for the 1-hour ozone nonattainment areas. EPA is designating southern and central Los Angeles County nonattainment for the 8-hour ozone standard, and includes it with the South Coast 8-hour ozone NAA		

[see the Justification for Western Mojave Desert]		
2000 Population: 9,519,338	VOC (tpy): 334,324	%drive to work: 99 Los Angeles-- Riverside--O
1990-2000 growth: 7.4%	NOx (tpy): 328,830	Wind direction: not considered
2000-2010 growth: 11.4%	1999 Veh. mi. travelled (mln): 78,809	Topographical features: mountain barrier

Los Angeles County, California

2004 Designation: Nonattainment		County design value: 126
Area: Los Angeles-San Bernardino Cos.(W Mojave Desert), CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
<p>Justification: This nonattainment area includes northern Los Angeles County from the peaks of the San Gabriel Mountains which separate this area from the South Coast Air Basin. This area is the part of the Western Mojave Desert nonattainment area. This area and adjacent areas in San Bernardino county are part of the Mojave Desert. There are violating monitors in San Bernardino and Los Angeles Counties.</p> <p>EPA designated this area and the adjacent area in San Bernardino county as one nonattainment area for the 1-hour ozone standard. EPA designates this same area of Los Angeles and San Bernardino county as nonattainment for the 8-hour ozone standard since these areas share the same geographic location (the Mojave Desert) and similar meteorology.</p>		
2000 Population: 9,519,338	VOC (tpy): 334,324	%drive to work: 99 Los Angeles-- Riverside--O
1990-2000 growth: 7.4%	NOx (tpy): 328,830	Wind direction: not considered
2000-2010 growth: 11.4%	1999 Veh. mi. travelled (mln): 78,809	Topographical features: mountain barrier

Madera County, California

2004 Designation: Nonattainment		County design value: 93
Area: San Joaquin Valley, CA		
MSA or CMSA: Fresno, CA		
<p>Justification: Madera county is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the SJV 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the SJV 8-hour ozone nonattainment area.</p>		
2000 Population: 123,109	VOC (tpy): 8,514	%drive to work: 0
1990-2000 growth: 39.8%	NOx (tpy): 12,583	Wind direction: not considered
2000-2010 growth: 42.3%	1999 Veh. mi. travelled (mln): 1,095	Topographical features: not considered

Marin County, California

2004 Designation: Nonattainment		County design value: 48
Area: San Francisco Bay Area, CA		

MSA or CMSA: San Francisco-Oakland-San Jose, CA

Justification: Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment. Marin county is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation.

2000 Population: 247,289	VOC (tpy): 14,591	%drive to work:
1990-2000 growth: 7.5%	NOx (tpy): 8,689	Wind direction: not considered
2000-2010 growth: 4.6%	1999 Veh. mi. travelled (mln): 2,137	Topographical features: not considered

Mariposa County, California

2004 Designation: Nonattainment	County design value: 91
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Area: Mariposa and Tuolumne Cos., CA: (Southern Mountain Counties)

MSA or CMSA: - outside -

Justification: [See also Nevada County, CA] Mariposa County (Southern Mountain County) Nonattainment Area (NAA): This county is designated as nonattainment, including adjacent Tuolumne County, but separate from the adjacent San Joaquin Valley nonattainment area. The following analysis addresses four "mountain" or "foothill" counties of Amador and Calaveras counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties).

The eastern boundary of these four counties is the crest of the Sierra-Nevada mountain range, in excess of 7000 feet in elevation.

These four counties are not part of a C/MSA or MSA. The San Joaquin Valley nonattainment area is adjacent to these counties and is comprised of five MSAs, Eastern Kern and Kings counties. The San Joaquin Valley 8-hour ozone NAA is also a 1-hour ozone NAA. Prior to promulgation of the 8-hour NAAQS, none of the four foothill counties have ever been nonattainment for any NAAQS. Please see the maps included in chapter 6 of document.

The State recommended the four foothill counties as two nonattainment areas, separate from the San Joaquin Valley nonattainment area. Our letter to the State dated December 2, 2003, stated our intent to include the four foothill counties and the San Joaquin Valley in one nonattainment area, and asked the State to further justify the separation, if the State still recommended three separate nonattainment areas. The State provided further justification in letters dated February 4 and April 9, 2004.

The State pointed out that all three areas will be nonattainment, but that the recommended splits would allow the State "to most efficiently and effectively implement the new 8-hour ozone standard" (Feb 4 letter). The State provided a technical and legal rationale for the splits.

The State will ensure that upwind reductions are secured as needed to bring the downwind areas into timely attainment by the earlier deadline applicable to the downwind areas. This approach may be more protective of health, because it is premature to assume that downwind foothill areas need the same time to attain as their upwind valley neighbors. Separating the areas will provide for attainment dates that are both as expeditious as practicable and not later than 2009 for the foothill counties (subpart 1), and 2013 for San Joaquin Valley nonattainment area (subpart 2, Serious).

The State also provided further convincing assurances in their letter to EPA dated April 9, 2004, that nonattainment area designations for the two foothill county areas will not jeopardize effective and coordinated clean air planning and expeditious attainment by the attainment deadline applicable for these counties.

The California Air Resources Board "intends to exercise its authority under State law to ensure that the State Implementation Plan (SIP) includes sufficient control strategies to attain the federal air quality standards in all parts of California, including areas impacted by intrastate transport of air pollution."

EPA therefore designates Amador and Calaveras Counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties) as nonattainment areas, separate from the San Joaquin Valley nonattainment area."

2000 Population: 17,130	VOC (tpy): 2,943	%drive to work: 0
1990-2000 growth: 19.8%	NOx (tpy): 1,136	Wind direction: not considered
2000-2010 growth: 20.7%	1999 Veh. mi. travelled (mln): 173	Topographical features: high elevation areas

Merced County, California

2004 Designation: Nonattainment		County design value: 102
Area: San Joaquin Valley, CA		
MSA or CMSA: Merced, CA		
Justification: Merced County is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the San Joaquin Valley 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the San Joaquin Valley 8-hour ozone nonattainment area.		
2000 Population: 210,554	VOC (tpy): 11,789	%drive to work: 0
1990-2000 growth: 18.0%	NOx (tpy): 15,865	Wind direction: not considered
2000-2010 growth: 25.6%	1999 Veh. mi. travelled (mln): 2,199	Topographical features: not considered

Mono County, California

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: There is one ozone monitor in Mono County and it shows attainment of the standard. The site is Mammoth Lakes with a design value of 78 ppb.		
Mono County is adjacent to the Sacramento, Central and Southern Mountain Counties nonattainment areas. However, Mono county is designated attainment/unclassifiable because it is separated from the nonattainment areas by the Sierra Nevada Mountains, the nearest of which is in excess of 10,000 feet in elevation. This mountain barrier prevents any significant transport of emissions between the counties. Mono County is designated attainment/unclassifiable.		
2000 Population: 12,853	VOC (tpy): 3,567	%drive to work: 0
1990-2000 growth: 29.1%	NOx (tpy): 1,271	Wind direction: not considered

2000-2010 growth: -2.3%	1999 Veh. mi. travelled (mln): 116	Topographical features: mountain barrier
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Monterey County, California

2004 Designation: Unclassifiable/Attainment		County design value: 66
Area: - attainment -		
MSA or CMSA: Salinas, CA		
<p>Justification: Ozone air quality data from four ozone monitors in Monterey County all show attainment of the standard. The sites are Salinas with a DV of 59 ppb, Monterey with a DV of 59 ppb, King City with a DV of 62 ppb, and Carmel Valley with a DV of 64 ppb.</p> <p>Monterey county is separated from the San Joaquin Valley by the Coast Ranges of the central California coast. These mountains have peaks of approximately 3,000 to 5,000 feet and form a barrier to wind and air pollution.</p> <p>EPA does not believe this area is contributing to violations in San Joaquin Valley. The State recommended this county as attainment and EPA agrees with that recommendation.</p>		
2000 Population: 401,762	VOC (tpy): 22,537	%drive to work: 0
1990-2000 growth: 13.0%	NOx (tpy): 22,663	Wind direction: not considered
2000-2010 growth: 19.4%	1999 Veh. mi. travelled (mln): 2,949	Topographical features: mountain barrier

Napa County, California

2004 Designation: Nonattainment		County design value: 65
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
<p>Justification: Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment. Napa county is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation.</p>		
2000 Population: 124,279	VOC (tpy): 7,061	%drive to work: 1 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 12.2%	NOx (tpy): 5,254	Wind direction: not considered
2000-2010 growth: 15.5%	1999 Veh. mi. travelled (mln): 852	Topographical features: not considered

Nevada County, California

2004 Designation: Nonattainment		County design value: 98
Area: Nevada County (Western part), CA		
MSA or CMSA: - outside -		
<p>Justification: Nevada County is split in the eastern portion along the high peaks of the Sierra Nevada Mountains. We are designating only western and central portions of the county as nonattainment. The</p>		

elevation of the Sierra Nevada at this boundary is approximately 7,000-9,000 feet in elevation. Please see the map included in chapter 6 of this document.

Nevada County is not part of a C/MSA. The Sacramento Region is adjacent to Nevada County and is an MSA. The Sacramento Region is a 1-hour ozone NAA. Prior to promulgation of the 8-hour NAAQS, no part of Nevada County has ever been nonattainment for any NAAQS.

The State recommended western Nevada County as a separate nonattainment area from the Sacramento Region nonattainment area. Our 120-day letter stated our intent to include both areas together in one NAA, and asked the State to further justify a split, if the State still recommended two separate areas. The State provided further justification in letters dated February 4 and April 9, 2004.

The State pointed out that both areas will be nonattainment, but that the recommended split would allow the State "to most efficiently and effectively implement the new 8-hour ozone standard" (Feb 4 letter). The State provided a technical and legal rationale for the split.

The State will ensure that upwind reductions are secured as needed to bring the downwind areas into timely attainment by the earlier deadline applicable to the downwind areas. This approach may be more protective of health, because it is premature to assume that downwind foothill areas need the same time to attain as their upwind valley neighbors. Separating the areas will provide for attainment dates that are both as expeditious as practicable and not later than 2009 for west Nevada County (subpart 1), and 2013 for Sacramento Region (subpart 2, Serious).

The State also provided further, convincing assurances in their letter to EPA dated April 9, 2004, that a separate nonattainment designation for west Nevada County will not jeopardize effective and coordinated clean air planning and expeditious attainment by the attainment deadline applicable for west Nevada County:

The California Air Resources Board "intends to exercise its authority under State law to ensure that the State Implementation Plan (SIP) includes sufficient control strategies to attain the federal air quality standards in all parts of California, including areas impacted by intrastate transport of air pollution."

EPA therefore designates the western portion of Nevada County as a nonattainment area, separate from the Sacramento Region nonattainment area.

2000 Population: 92,033	VOC (tpy): 7,559	%drive to work: 19 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 17.2%	NOx (tpy): 4,365	Wind direction: not considered
2000-2010 growth: 30.8%	1999 Veh. mi. travelled (mln): 864	Topographical features: mountain barrier

Orange County, California

2004 Designation: Nonattainment	County design value: 86
Area: Los Angeles-South Coast Air Basin, CA	
MSA or CMSA: Los Angeles-Riverside-Orange, CA	
Justification: Orange county is part of the South Coast Air Basin 1-hour ozone NAA. The State recommended including the county in the South Coast Air Basin 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the South Coast Air Basin 8-	

hour ozone nonattainment area.		
2000 Population: 2,846,289	VOC (tpy): 116,282	%drive to work: 99 Los Angeles--Riverside--O
1990-2000 growth: 18.1%	NOx (tpy): 103,358	Wind direction: not considered
2000-2010 growth: 11.2%	1999 Veh. mi. travelled (mln): 25,447	Topographical features: not considered

Placer County, California

2004 Designation: Nonattainment		County design value: 99
Area: Sacramento Metro, CA		
MSA or CMSA: Sacramento-Yolo, CA		
Justification: Nonattainment area includes all but the Lake Tahoe Air Basin portion of the county, which begins at the crest of the Sierra Nevada mountains. Because the mountains act as a barrier to transport between the two air basins, only western and central portions will be nonattainment for 8-hour ozone. This nonattainment area is the same as the 1-hour nonattainment area. The State recommended the nonattainment area and EPA agrees with the State's recommendation.		
2000 Population: 248,399	VOC (tpy): 16,595	%drive to work: 93 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 43.8%	NOx (tpy): 13,054	Wind direction: not considered
2000-2010 growth: 31.1%	1999 Veh. mi. travelled (mln): 2,320	Topographical features: mountain barrier

Plumas County, California

2004 Designation: Unclassifiable/Attainment		County design value: 69
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Plumas County is attainment/unclassifiable. EPA is not including Plumas County as part of the Chico nonattainment area because it is not in the Chico MSA and is located in a different airshed. Plumas county is separated from Chico and Butte county by the Sierra Nevada Mountains which lie at the Butte and Plumas county line. These high mountains are approximately 4,000 to 7,000 feet in elevation along the county line and form a natural barrier between Chico and Plumas County to the east. As a result, the counties are in different airsheds and ozone concentrations in Plumas county are low. The one ozone site in Plumas County, in Quincy, shows attainment for ozone with a design value of 69 ppb.		
Plumas County is lightly and sparsely populated with just 20,942 residents and population density of 8.2 persons per square mile. Because these counties are in different airsheds, we do not believe that Plumas County contributes to the violations in the Chico area.		
2000 Population: 20,824	VOC (tpy): 7,372	%drive to work: 1 Chico--Paradise, CA MSA
1990-2000 growth: 5.5%	NOx (tpy): 3,298	Wind direction: not considered
2000-2010 growth: 6.9%	1999 Veh. mi. travelled (mln): 236	Topographical features: mountain barrier

Riverside County, California

2004 Designation: Nonattainment		County design value: 118
Area: Riverside Co. (Coachella Valley), CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
<p>Justification: The Coachella Valley nonattainment area lies in central Riverside county in a low elevation desert area that includes Palm Springs. To its east is an attainment/unclassifiable area which occupies the eastern third of the county. The low elevation Coachella Valley 8-hour ozone nonattainment area is separated from the attainment/unclassifiable areas to the east and northeast by the Little San Bernardino Mountains and the Chocolate Mountains with 4,000 and 5,000 foot peaks respectively.</p> <p>The attainment/unclassifiable area to the northeast and east of the mountains consists of rural and partly uninhabited desert for many miles.</p> <p>EPA does not believe this area is contributing to the ozone violations in the Coachella Valley 8-hour ozone nonattainment area.</p> <p>The state recommended this partial county designation and EPA agrees with the state's recommendation.</p>		
2000 Population: 1,545,387	VOC (tpy): 56,824	%drive to work: 96 Los Angeles-- Riverside--O
1990-2000 growth: 32.0%	NOx (tpy): 56,924	Wind direction: not considered
2000-2010 growth: 37.5%	1999 Veh. mi. travelled (mln): 13,263	Topographical features: mountain barrier

Riverside County, California

2004 Designation: Nonattainment		County design value: 118
Area: Los Angeles-South Coast Air Basin, CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
<p>Justification: This nonattainment area occupies the western third of Riverside County and is part of the South Coast Air Basin. It is separated from the neighboring Coachella Valley by the San Jacinto Mountains which vary in elevation from 2500 feet at Banning Pass to over 10,000 feet. This boundary divides separates the semi-arid, coastal South Coast Air Basin from the arid, low-desert Coachella Valley. It also separates the Los Angeles region from the interior deserts.</p>		
2000 Population: 1,545,387	VOC (tpy): 56,824	%drive to work: 96 Los Angeles-- Riverside--O
1990-2000 growth: 32.0%	NOx (tpy): 56,924	Wind direction: not considered
2000-2010 growth: 37.5%	1999 Veh. mi. travelled (mln): 13,263	Topographical features: mountain barrier

Sacramento County, California

2004 Designation: Nonattainment		County design value: 100
Area: Sacramento Metro, CA		
MSA or CMSA: Sacramento-Yolo, CA		

Justification: Sacramento county is part of the Sacramento Metro 1-hour ozone nonattainment area which contains a violating monitor. The State recommended including the county in the Sacramento 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the Sacramento 8-hour ozone nonattainment.

2000 Population: 1,223,499	VOC (tpy): 47,303	%drive to work: 95 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 17.5%	NOx (tpy): 47,748	Wind direction: not considered
2000-2010 growth: 17.4%	1999 Veh. mi. travelled (mln): 10,657	Topographical features: not considered

San Benito County, California

2004 Designation: Unclassifiable/Attainment	County design value: 81	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: There are two ozone monitors in San Benito County and they both show attainment of the standard. The sites are Hollister with a design value of 73 ppb, and Pinnacles National Monument with a design value of 81 ppb.		
San Benito county is separated from the San Joaquin Valley by the Coast Ranges of the central California coast. These mountains have peaks of approximately 3,000 to 5,000 feet and form a barrier to wind and pollution.		
EPA does not believe this area is contributing to violations in San Joaquin Valley. The State recommended this county as attainment and EPA agrees with that recommendation.		
2000 Population: 53,234	VOC (tpy): 2,758	%drive to work: 0
1990-2000 growth: 45.1%	NOx (tpy): 3,000	Wind direction: not considered
2000-2010 growth: 27.8%	1999 Veh. mi. travelled (mln): 411	Topographical features: mountain barrier

San Bernardino County, California

2004 Designation: Nonattainment	County design value: 131	
Area: Los Angeles-South Coast Air Basin, CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
Justification: EPA is designating San Bernardino County, which is both very large and topographically varied, into 2 nonattainment areas and 1 attainment area. One nonattainment area is in the southwest corner of the county and is part of the Los Angeles-South Coast Air Basin nonattainment area, bounded on the northeast by the San Bernardino Mountains, which have peaks of approximately 8,000 to 10,000 feet.		
Beyond the San Bernardino Mountains, EPA is designating a second nonattainment area named the Western Mojave Desert. This nonattainment includes a portion of Los Angeles County. EPA designated this area and the adjacent area in Los Angeles county as one nonattainment area under the 1-hour ozone standard. EPA designates this same area of Los Angeles and San Bernardino county as nonattainment for the 8-hour ozone standard since these areas share the same geographic location (the Mojave Desert) and similar meteorology.		

The third region of the county is the attainment/unclassifiable portion which occupies the northern and eastern third of the county. This area is mostly uninhabited desert that is comprised mostly of public lands and is not suited for development. There is one monitor in this attainment area and it's at Trona and has a design value of 83 ppb, which is attainment for the standard. EPA believes that this attainment area does not contribute to violations in the adjacent nonattainment areas of the county.

2000 Population: 1,709,434	VOC (tpy): 67,108	%drive to work: 99 Los Angeles-- Riverside--O
1990-2000 growth: 20.5%	NOx (tpy): 107,044	Wind direction: not considered
2000-2010 growth: 28.0%	1999 Veh. mi. travelled (mln): 13,733	Topographical features: mountain barrier

San Bernardino County, California

2004 Designation: Nonattainment		County design value: 131
Area: Los Angeles-San Bernardino Cos.(W Mojave Desert), CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
Justification: EPA is designating San Bernardino County, which is both very large and topographically varied, into 2 nonattainment areas and 1 attainment area. One nonattainment area is in the southwest corner of the county and is part of the Los Angeles-South Coast Air Basin nonattainment area, bounded on the northwest by the San Bernardino Mountains, which have peaks of approximately 8,000 to 10,000 feet.		
Beyond the San Bernardino Mountains, EPA is designating a second nonattainment area named the Western Mojave Desert. This nonattainment includes a portion of Los Angeles County. EPA designated this area and the adjacent area in Los Angeles county as one nonattainment area under the 1-hour ozone standard. EPA designates this same area of Los Angeles and San Bernardino county as nonattainment for the 8-hour ozone standard since these areas share the same geographic location (the Mojave Desert) and similar meteorology.		
The third region of the county is the attainment/unclassifiable portion which occupies the northern and eastern third of the county. This area is mostly uninhabited desert that is comprised mostly of public lands and is not suited for development. There is one monitor in this attainment area and it's at Trona and has a design value of 83 ppb, which is attainment for the standard. EPA believes that this attainment area does not contribute to violations in the adjacent nonattainment areas of the county.		
2000 Population: 1,709,434	VOC (tpy): 67,108	%drive to work: 99 Los Angeles-- Riverside--O
1990-2000 growth: 20.5%	NOx (tpy): 107,044	Wind direction: not considered
2000-2010 growth: 28.0%	1999 Veh. mi. travelled (mln): 13,733	Topographical features: mountain barrier

San Bernardino County, California

2004 Designation: Unclassifiable/Attainment		County design value: 131
Area: - attainment -		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
Justification: This region is one of three in San Bernardino County and is the attainment/unclassifiable		

portion which occupies the northern and eastern third of the county (the other parts of the county are nonattainment). This area is mostly uninhabited desert that is mostly comprised of public lands and is not suited for development. EPA has no reason to expect that violations are occurring or would occur in this area or as a result of emissions from this area. There is one monitor in this attainment area and it's at Trona and has a design value of 83 ppb, which is attainment for the standard. EPA believes that this attainment area does not contribute to violations in adjacent nonattainment areas of the county.

2000 Population: 1,709,434	VOC (tpy): 67,108	%drive to work: 99 Los Angeles--Riverside--O
1990-2000 growth: 20.5%	NOx (tpy): 107,044	Wind direction: not considered
2000-2010 growth: 28.0%	1999 Veh. mi. travelled (mln): 13,733	Topographical features: mountain barrier

San Diego County, California

2004 Designation: Nonattainment	County design value: 93
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Area: San Diego, CA

MSA or CMSA: San Diego, CA

Justification: The non-tribal areas in the vicinity of the designated attainment/unclassifiable areas are under California's jurisdiction and are part of a county-based area that we are designating as nonattainment. The State of California recommended designating all of San Diego County as a single 8-hour nonattainment area. This recommendation is consistent with presumptions that follow our guidance on designating 8-hour ozone nonattainment areas. EPA agrees with the State of California's recommendation.

That portion of San Diego County that excludes the areas listed below:

Attainment/Unclassifiable:

La Posta Areas #1 and #2

Cuyapaipe Area

Manzanita Area

Campo Areas #1 and #2

Overview:

These areas, which approximate the boundaries of the reservations of four Tribes in southeastern San Diego County, are designated attainment/unclassifiable. Based on their location and other factors we have determined that they are in an area that does not violate the 8-hour ozone standard.

Justification for attainment/unclassifiable areas: The Campo, Cuyapaipe, La Posta, Manzanita areas are being designated attainment/unclassifiable based on our conclusion that the areas neither violate the 8-hour ozone standard nor contribute to violations of the standard in other areas. Although the areas are surrounded by a countywide nonattainment area, the United States has a unique legal relationship with tribal governments which derives from the United States Constitution, treaties, statutes, Executive Orders and court decisions, and is commonly referred to as the Federal

government's trust relationship with Tribes. Guidelines for EPA's role in this relationship are outlined in the EPA Policy for the Administration of Environmental Programs on Indian Reservations ("1984 Indian Policy") which was issued in 1984 and has been reaffirmed by successor administrations.

The 1984 Indian Policy states that in the course of protecting human health and the environment, EPA should recognize tribal governments as sovereign entities with primary authority and responsibility for their members, and in keeping with this principle of tribal self-government, view tribal governments as the appropriate non-federal parties for making decisions and carrying out program responsibilities affecting their reservations and their members. Where tribes have not assumed delegable programs, EPA retains responsibility for managing federal programs on reservations. Correspondingly, as a matter of federal case law, absent an express delegation of authority by Congress to a State, States lack civil regulatory jurisdiction over tribes. Respect for, and protection of, this division of jurisdiction is an integral part of the federal trust responsibility.

With these principles in mind, EPA Region 9 considered a request from the Campo Band of Mission Indians ("Campo") that the territory within its reservation boundaries be designated as attainment. For the technical reasons discussed in more detail below, Region 9 determined that the air quality in the southeastern portion of San Diego County qualified for designation as attainment. The State has been advised of our designation and is not asserting jurisdiction over any reservations. However, the State had requested that all of the portions of San Diego County under its jurisdiction be designated non-attainment. In contrast, EPA is responsible for administering air planning programs within the reservation boundaries. In addition, the review of the technical data also showed that three other reservations were located near Campo and should be subject to the same analysis. After considering these factors, the Region determined that the most appropriate way to meet our trust obligations and to follow our guidance which defers to the State's recommendation where possible was to designate the Campo, Cuyapaipe, La Posta, Manzanita areas as attainment/unclassifiable.

Based on our analysis, areas in San Diego county that are outside the southeastern portion that is described here do either violate and/or contribute to the violation of the 8-hour ozone standard and will be designated nonattainment. The only portion of the county designated attainment/unclassifiable and justified in this document contains six areas that are under the jurisdiction of four different tribal governments.

Location:

These attainment/unclassifiable areas are located in the southeastern end of that portion of the county that lies east of a north-south-running mountain range that separates the urbanized portion of the county (western San Diego County) from the rural, sparsely populated portion of the county. These areas are also not subject to significant amounts of transport from the South Coast (i.e., the Los Angeles metropolitan region), which distinguishes them from the reservations in the mountains and mountain valleys of northeastern San Diego County, which is subject to that transport. As discussed further below, these attainment/unclassifiable areas are beyond both the contributing and affected areas of the county.

Air Quality, Meteorology and Geographic justifications for excluding four tribal areas from San Diego nonattainment area:

The Campo, Cuyapaipe, La Posta, Manzanita areas are being designated attainment/unclassifiable because their small size and eastern geographical position make them unlikely causes or recipients of San Diego area ozone.

Both monitored and modeled high ozone levels are in the western half of the county. This is consistent with the western location of emission sources areas, metropolitan San Diego and Los Angeles, the predominant wind direction of west to west-northwest, and the blocking effect of the central mountain ranges that form the county's north-south axis. Photochemical modeling performed in 1991 as part of the area's one-hour ozone SIP submittal, and modeling in the area's 1999 redesignation request, were consistent with this pattern of high ozone in the western half of the county.

The Campo, Cuyapaipe, La Posta, Manzanita areas are small, lightly and sparsely populated and have very small emissions; they are also in the southeastern corner of the county, downwind of the observed and modeled high ozone areas. Therefore, they are not contributors to San Diego area eight-hour ozone exceedances.

Nor are the proposed attainment areas recipients of ozone from the San Diego area. They are higher than the locations that experience high ozone, and east of blocking mountain ranges. Given current understanding of ozone episodes in the area, they would not be expected to experience violations of the eight-hour ozone NAAQS.

The San Diego County Air Pollution Control District conducts analyses of the cause of its high ozone values using monitoring data (including aloft) as well as wind data. For the typical high ozone episode, there is a 200 - 300 m thick ozone layer aloft that moves toward the east. This layer can mix down to the ground as the day-time mixed layer grows up to meet it, leading to high ground level ozone in the western half of the county. Alternatively, the layer can stay above the inversion base of 200 to 500 m, but can intersect the western foothills of the county's central mountains (approximate location of the Alpine monitor).

Thus the maximum expected height of the ozone layer is approximately 800 m (500 m base plus 300 m thick layer); the intersection of this with the foothills is well below the mountain range crest, and generally about 20 km west of it. The proposed tribal attainment areas are also all well above this elevation. The lowest, Campo #2, is just above 800 m; conceivably some ozone could snake its way up the Cottonwood Hauser Creek to get near Campo #2. However, the Campo areas are sheltered from the high-ozone west by a westward spur of the Laguna Mountains, with accompanying complex terrain. The Manzanita, La Posta, and Cuyapaipe areas are at about 1000 m, and are on or to the east of the mountain range crest. Thus, the proposed areas' elevation and location put them out of reach of the high ozone experienced in the western part of the county.

Although the 8-hour ozone standard is violated in Imperial County, which is east of San Diego County, the violating monitor is in the city of El Centro, well inside the Imperial County nonattainment area. Again, San Diego County is not a single contiguous high ozone area. La Posta, Cuyapaipe, Manzanita and Campo attainment/unclassifiable areas are in a high elevation zone with different meteorology and air quality than the nonattainment areas of San Diego County which is to the west. These tribal areas have already been shown to be different than coastal San Diego. On the other hand, the tribal areas are in mountainous terrain between 800 and 1000 m elevation, and beyond ridges that separate them from the other parts of San Diego County. Further, summer winds in Imperial Valley, in the adjacent Imperial County, are principally along the southeast to northwest valley axis, so ozone from there would not be transported to or from the La Posta, Cuyapaipe, Manzanita and Campo attainment/unclassifiable areas. Therefore, EPA is designating these areas as Unclassifiable/Attainment.

2000 Population: 2,813,833	VOC (tpy): 121,409	%drive to work: 96 San Diego, CA MSA

1990-2000 growth: 12.6%	NOx (tpy): 103,973	Wind direction: not considered
2000-2010 growth: 22.3%	1999 Veh. mi. travelled (mln): 25,323	Topographical features: mountain barriers

San Francisco County, California

2004 Designation: Nonattainment		County design value: 47
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment. San Francisco county is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation.		
2000 Population: 776,733	VOC (tpy): 26,313	%drive to work:
1990-2000 growth: 7.3%	NOx (tpy): 29,768	Wind direction: not considered
2000-2010 growth: 0.7%	1999 Veh. mi. travelled (mln): 2,658	Topographical features: not considered

San Joaquin County, California

2004 Designation: Nonattainment		County design value: 81
Area: San Joaquin Valley, CA		
MSA or CMSA: Stockton-Lodi, CA		
Justification: San Joaquin county is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the San Joaquin Valley 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the San Joaquin Valley 8-hour ozone nonattainment area.		
2000 Population: 563,598	VOC (tpy): 25,889	%drive to work: 0
1990-2000 growth: 17.3%	NOx (tpy): 36,355	Wind direction: not considered
2000-2010 growth: 28.8%	1999 Veh. mi. travelled (mln): 5,481	Topographical features: not considered

San Luis Obispo County, California

2004 Designation: Unclassifiable/Attainment		County design value: 74
Area: - attainment -		
MSA or CMSA: San Luis Obispo-Atascadero-Paso Robles, CA		
Justification: There are six ozone monitors in San Luis Obispo County and they all show attainment of the standard. They are San Luis Obispo with a Design Value of 58 ppb, Paso Robles with a DV of 72 ppb, Atascadero with a DV of 74 ppb, Grover Beach with a DV of 55 ppb, Morro Bay with a DV of 56 ppb, and Nipomo with a DV of 65 ppb.		
San Luis Obispo County is separated from the San Joaquin Valley by the Coast Ranges of the central California coast.		

EPA does not believe this area is contributing to violations in San Joaquin Valley. The State recommended this county as attainment and EPA agrees with that recommendation.

2000 Population: 246,681	VOC (tpy): 16,460	%drive to work: 0
1990-2000 growth: 13.6%	NOx (tpy): 13,429	Wind direction: not considered
2000-2010 growth: 31.6%	1999 Veh. mi. travelled (mln): 2,135	Topographical features: mountain barrier

San Mateo County, California

2004 Designation: Nonattainment		County design value: 58
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment. San Mateo county is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation.		
2000 Population: 707,161	VOC (tpy): 29,386	%drive to work:
1990-2000 growth: 8.8%	NOx (tpy): 24,369	Wind direction: not considered
2000-2010 growth: 15.3%	1999 Veh. mi. travelled (mln): 4,653	Topographical features: not considered

Santa Barbara County, California

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: Santa Barbara-Santa Maria-Lompoc, CA		
Justification: There are 13 ozone monitors in Santa Barbara County and they all attain the standard. They are El Capitan Beach(design value = 66 ppb), Santa Barbara(59), Santa Maria(50), Lompoc-HS&P(70), Los Padres National Forest(84), Gaviota(64), Carpenteria(67), Capitan-LFC#1(72), Lompoc-H Street(59), Goleta(61), Channel Islands National Park(64), Santa Ynez(69), and Vandenberg AFB(65). Therefore, EPA designates Santa Barbara County attainment/unclassifiable.		
2000 Population: 399,347	VOC (tpy): 29,022	%drive to work: 0
1990-2000 growth: 8.0%	NOx (tpy): 27,201	Wind direction: not considered
2000-2010 growth: 17.3%	1999 Veh. mi. travelled (mln): 3,237	Topographical features: not considered

Santa Clara County, California

2004 Designation: Nonattainment		County design value: 86
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: Monitoring data from 2001-2003 show that the design value for the San Francisco Bay Area is 86 ppb which is above the standard. In a letter to EPA dated February 4, 2004, the California Air Resources Board recommended that the San Francisco Bay Area be designated nonattainment.		

Santa Clara County is wholly within the San Francisco Bay Area air basin and is included in the San Francisco Bay Area nonattainment area in its entirety. EPA agrees with the State's recommendation.

2000 Population: 1,682,585	VOC (tpy): 67,711	%drive to work: 0
1990-2000 growth: 12.4%	NOx (tpy): 58,765	Wind direction: not considered
2000-2010 growth: 20.1%	1999 Veh. mi. travelled (mln): 10,874	Topographical features: not considered

Santa Cruz County, California

2004 Designation: Unclassifiable/Attainment		County design value: 65
Area: - attainment -		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: Santa Cruz County is outside the San Francisco Bay Area air basin and the area is separated from the San Francisco Bay Area by the Santa Cruz Mountains. Air quality monitoring for the 8-hour ozone standard indicates that Santa Cruz County is in attainment with levels well below the national standards. Therefore EPA is designating the County attainment/unclassifiable.		
2000 Population: 255,602	VOC (tpy): 13,281	%drive to work: unknown
1990-2000 growth: 11.3%	NOx (tpy): 10,110	Wind direction: not considered
2000-2010 growth: 21.0%	1999 Veh. mi. travelled (mln): 1,955	Topographical features: mountain barrier

Sierra County, California

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: There is no ozone monitoring in Sierra County. There are three nearby sites that show attainment of the ozone standard. They are Quincy, 12 miles away, with a DV of 69 ppb; Truckee, 14 miles away, with a DV of 65 ppb; and Lemmon Valley, NV, 15 miles away, with a DV of 65 ppb.		
This area is not in an MSA. EPA examined technical data and concludes that this county is not contributing to a violation in an adjacent county.		
The State recommended this Sierra County be designated attainment/unclassifiable and EPA agrees with the State's recommendation.		
2000 Population: 3,555	VOC (tpy): 2,038	%drive to work: 2 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 7.1%	NOx (tpy): 626	Wind direction: not considered
2000-2010 growth: 0.1%	1999 Veh. mi. travelled (mln): 35	Topographical features: high elevation area

Solano County, California

2004 Designation: Nonattainment		County design value: 71
Area: Sacramento Metro, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		

Justification: EPA will designate the whole county nonattainment, apportioned amongst two nonattainment areas (San Francisco Bay Area on the west and Sacramento Metro on the east). This county is split E-W because western portions are economically and geographically tied to the San Francisco Bay Area and eastern portions are likewise tied to Sacramento. This boundary is the same as the San Francisco Bay Area and Sacramento Metro Air Basins, as well as those of the San Francisco Bay Area and Sacramento Metro air districts.		
2000 Population: 394,542	VOC (tpy): 22,462	%drive to work: 5 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 15.9%	NOx (tpy): 21,050	Wind direction: not considered
2000-2010 growth: 21.4%	1999 Veh. mi. travelled (mln): 3,658	Topographical features: considered

Solano County, California

2004 Designation: Nonattainment		County design value: 71
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: EPA is designating all of Solano County as nonattainment, although we are dividing the county into two nonattainment areas because the county is divided by a mountain range. The western portion of the county is included as part of the San Francisco Bay Area and the eastern portion is included as part of the Sacramento area. This 8-hour ozone nonattainment boundary coincides with the 1-hour ozone nonattainment boundaries. The San Francisco Bay Area nonattainment area for 8-hour ozone standard is comprised of the same areas as the 1-hour nonattainment area.		
2000 Population: 394,542	VOC (tpy): 22,462	%drive to work: 5 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 15.9%	NOx (tpy): 21,050	Wind direction: not considered
2000-2010 growth: 21.4%	1999 Veh. mi. travelled (mln): 3,658	Topographical features: not considered

Sonoma County, California

2004 Designation: Nonattainment		County design value: 62
Area: San Francisco Bay Area, CA		
MSA or CMSA: San Francisco-Oakland-San Jose, CA		
Justification: We are designating a portion of Sonoma County nonattainment (as part of the San Francisco nonattainment area) and the remainder as attainment. The 8-hour ozone nonattainment boundary in Sonoma County is the same as the 1-hour ozone nonattainment boundary. This boundary coincides with the edge of the San Francisco Bay Area air basin. Outside this boundary is the North Coast air basin. The excluded portion of the county is in a separate air basin, which is rural and mountainous with ozone concentrations well below the standard. The State recommended this designation on February 5, and we agree with that recommendation.		
2000 Population: 458,614	VOC (tpy): 24,228	%drive to work:
1990-2000 growth: 18.1%	NOx (tpy): 17,629	Wind direction: not considered
2000-2010 growth: 18.7%	1999 Veh. mi. travelled (mln): 3,223	Topographical features: not considered

Stanislaus County, California

2004 Designation: Nonattainment		County design value: 96
Area: San Joaquin Valley, CA		
MSA or CMSA: Modesto, CA		
Justification: Stanislaus county is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the SJV 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the San Joaquin Valley 8-hour ozone nonattainment area.		
2000 Population: 446,997	VOC (tpy): 20,712	%drive to work: 0
1990-2000 growth: 20.6%	NOx (tpy): 24,995	Wind direction: not considered
2000-2010 growth: 31.0%	1999 Veh. mi. travelled (mln): 3,949	Topographical features: not considered

Sutter County, California

2004 Designation: Nonattainment		County design value: 88
Area: Sutter County (Sutter Buttes), CA		
MSA or CMSA: Yuba City, CA		
Justification: This nonattainment area consists of the Sutter Buttes around the highest elevations of the Sutter Buttes in northern Sutter Co. The Sutter Buttes are a circular mountain range (ancient volcanic features) approximately 10 miles in diameter and 75 sq. miles total, with a peak elevation of 2,117 ft. The monitor on top of one of the mountains is the only one violating in the county. The purpose of that monitor is to detect air pollution transport from Sacramento. Transport from Sacramento causes this monitor to violate, however monitors in the populated lower elevations are under the standard and are not greatly impacted by Sacramento transport. Therefore, EPA is designating the area above 2000 feet as nonattainment.		
2000 Population: 78,930	VOC (tpy): 6,378	%drive to work: 17 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 22.5%	NOx (tpy): 5,976	Wind direction: not considered
2000-2010 growth: 27.2%	1999 Veh. mi. travelled (mln): 674	Topographical features: considered

Tehama County, California

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Tehama County is not part of the Chico Metropolitan Statistical Area and is not included in the Chico 8-hour ozone nonattainment area.		
There are two ozone sites in Tehama County and they both show attainment of the ozone standard. They are Red Bluff with a design value of 76 ppb, and Tuscan Butte with a design value of 84 ppb. There are also two nearby sites that show attainment of the standard. They are Anderson, 5 miles away, with a design value of 80 ppb; and Lassen National Park, 7 miles away, with a design value of 72 ppb.		

An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Tehama county indicates that this area is not contributing to the ozone violations in the Chico 8-hour ozone nonattainment area.

2000 Population: 56,039	VOC (tpy): 4,114	%drive to work: 6 Chico--Paradise, CA MSA
1990-2000 growth: 12.9%	NOx (tpy): 4,697	Wind direction: not considered
2000-2010 growth: 25.9%	1999 Veh. mi. travelled (mln): 457	Topographical features: not considered

Tulare County, California

2004 Designation: Nonattainment		County design value: 107
Area: San Joaquin Valley, CA		
MSA or CMSA: Visalia-Tulare-Porterville, CA		
Justification: Tulare County is part of the San Joaquin Valley 1-hour ozone nonattainment area. The State recommended including the county in the San Joaquin Valley 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the San Joaquin Valley 8-hour ozone nonattainment area.		
2000 Population: 368,021	VOC (tpy): 24,612	%drive to work: 0
1990-2000 growth: 18.0%	NOx (tpy): 25,152	Wind direction: not considered
2000-2010 growth: 27.6%	1999 Veh. mi. travelled (mln): 3,520	Topographical features: not considered

Tuolumne County, California

2004 Designation: Nonattainment		County design value: 85
Area: Mariposa and Tuolumne Cos., CA: (Southern Mountain Counties)		
MSA or CMSA: - outside -		
Justification: [see Mountain Counties Population Density and Urbanization and Topography maps]		
[See also Nevada County, CA] Tuolumne County (Southern Mountain County) Nonattainment Area: This county is designated as nonattainment, including adjacent Mariposa County, but separate from the adjacent San Joaquin Valley nonattainment area. The following analysis addresses four "mountain" or "foothill" counties of Amador and Calaveras counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties).		
The eastern boundary of these four counties is the crest of the Sierra-Nevada mountain range, in excess of 7000 feet in elevation.		
These four counties are not part of a C/MSA or MSA. The San Joaquin Valley nonattainment area is adjacent to these counties and is comprised of five MSAs, Eastern Kern and Kings counties. The San Joaquin Valley 8-hour ozone nonattainment area is also a 1-hour ozone nonattainment area. Prior to promulgation of the 8-hour NAAQS, none of the four foothill counties have ever been nonattainment for any NAAQS. Please see the maps included in chapter 6 of this document.		
The State recommended the four foothill counties as two nonattainment areas, separate from the San Joaquin Valley nonattainment area. Our letter to the State dated December 2, 2003, stated our intent to		

include the four foothill counties and the San Joaquin Valley in one nonattainment area, and asked the State to further justify the separation, if the State still recommended three separate nonattainment areas. The State provided further justification in letters dated February 4 and April 9, 2004.

The State pointed out that all three areas will be nonattainment, but that the recommended splits would allow the State "to most efficiently and effectively implement the new 8-hour ozone standard" (Feb 4 letter). The State provided a technical and legal rationale for the splits.

The State will ensure that upwind reductions are secured as needed to bring the downwind areas into timely attainment by the earlier deadline applicable to the downwind areas. This approach may be more protective of health, because it is premature to assume that downwind foothill areas need the same time to attain as their upwind valley neighbors. Separating the areas will provide for attainment dates that are both as expeditious as practicable and not later than 2009 for the foothill counties (subpart 1), and 2013 for San Joaquin Valley nonattainment area (subpart 2, Serious).

The State also provided further convincing assurances in their letter to EPA dated April 9, 2004, that nonattainment area designations for the two foothill county areas will not jeopardize effective and coordinated clean air planning and expeditious attainment by the attainment deadline applicable for these counties.

The California Air Resources Board "intends to exercise its authority under State law to ensure that the State Implementation Plan (SIP) includes sufficient control strategies to attain the federal air quality standards in all parts of California, including areas impacted by intrastate transport of air pollution."

EPA therefore designates Amador and Calaveras Counties (Central Mountain Counties) and Mariposa and Tuolumne Counties (Southern Mountain Counties) as nonattainment areas, separate from the San Joaquin Valley nonattainment area.

2000 Population: 54,501	VOC (tpy): 7,200	%drive to work: 0
1990-2000 growth: 12.5%	NOx (tpy): 3,870	Wind direction: not considered
2000-2010 growth: 25.5%	1999 Veh. mi. travelled (mln): 505	Topographical features: high elevation area

Ventura County, California

2004 Designation: Nonattainment		County design value: 95
Area: Ventura County, CA		
MSA or CMSA: Los Angeles-Riverside-Orange, CA		
Justification: Ventura County is a designated nonattainment county that does not include the Anacapa and San Nicolas Islands. It is separate from the Los Angeles - South Coast Air Basin nonattainment area although it is in the Los Angeles C/MSA. It is separated from Los Angeles by the Southern Coast Range mountains including the Simi Hills and Santa Monica Mountains near and surrounding the Los Angeles-Ventura county line.		
The State recommends that Ventura be designated as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 753,197	VOC (tpy): 35,966	%drive to work: 0
1990-2000 growth: 12.6%	NOx (tpy): 31,547	Wind direction: not considered

2000-2010 growth: 13.5%	1999 Veh. mi. travelled (mln): 7,043	Topographical features: considered
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Yolo County, California

2004 Designation: Nonattainment		County design value: 76
Area: Sacramento Metro, CA		
MSA or CMSA: Sacramento-Yolo, CA		
Justification: Yolo county is part of the Sacramento Metro 1-hour ozone nonattainment area. The State recommended including the county in the Sacramento 8-hour nonattainment area. EPA agrees with the recommendation and is therefore including this county in the Sacramento 8-hour ozone nonattainment area.		
2000 Population: 168,660	VOC (tpy): 8,787	%drive to work: 92 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 19.5%	NOx (tpy): 10,643	Wind direction: not considered
2000-2010 growth: 15.6%	1999 Veh. mi. travelled (mln): 1,577	Topographical features: not considered

Yuba County, California

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Yuba City, CA		
Justification: There is no ozone monitoring in Yuba County. The nearest site is Yuba City (in Sutter County) across the river from Yuba County. That site has a DV of 79 ppb which attains the ozone standard.		
In December 2003, EPA indicated its intention to make this area a nonattainment area based on violations from 2003 at the Sutter Buttes monitor and because this county was part of the presumptive nonattainment area as defined by the March 28, 2000 guidance.		
The state responded with information and justification to make Yuba county attainment. This justification was made because the State said that it believed that the violations on Sutter Buttes, which are an isolated mountain range in the Sacramento Valley, are the result of long range transport from Sacramento. It also said that emissions from the Yuba City area and Yuba County were not contributing to violations on Sutter Buttes. Additionally, the state also said that the monitor represented the unique location of the Sutter Buttes which has no population. The state said that the Sutter Buttes' monitor did not represent the communities 2,000 feet below, where monitoring data indicated attainment of the standard.		
Based on this justification, EPA agrees with the state with respect to Yuba City's contribution to Sutter Buttes violation of the standard and designates Yuba County attainment.		
2000 Population: 60,219	VOC (tpy): 4,621	%drive to work: 17 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 3.4%	NOx (tpy): 4,054	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	

Adams County, Colorado

2004 Designation: Nonattainment		County design value: 66
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
<p>Justification: Adams County lies entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). This county is within the presumptive nonattainment area and upon review of the 11 factors; EPA believes that this county contributes to violations in the C/MSA.</p> <p>Note - DV for 2000, 2001, and 2002 for Adams County was 64 ppb. Based on the "Welby" monitor, AIRS ID 080013001. See chapter six of this technical support document for additional information.</p>		
2000 Population: 363,857	VOC (tpy): 21,820	%drive to work:
1990-2000 growth: 37.3%	NOx (tpy): 30,028	Wind direction: not considered
2000-2010 growth: 28.3%	1999 Veh. mi. travelled (mln): 3,407	Topographical features: N

Arapahoe County, Colorado

2004 Designation: Nonattainment		County design value: 81
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
<p>Justification: Arapahoe County lies entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). This county is within the presumptive nonattainment area and upon review of the 11 factors; EPA believes that this county contributes to violations in the C/MSA.</p> <p>Note - DV for 2000, 2001, and 2002 for Arapahoe County was 76 ppb. Based on the "Highlands" monitor, AIRS ID 080050002. See chapter six of this technical support document for additional information.</p>		
2000 Population: 487,967	VOC (tpy): 24,369	%drive to work:
1990-2000 growth: 24.6%	NOx (tpy): 15,417	Wind direction: not considered
2000-2010 growth: 12.9%	1999 Veh. mi. travelled (mln): 3,525	Topographical features: N

Boulder County, Colorado

2004 Designation: Nonattainment		County design value: 77
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		

MSA or CMSA: Denver-Boulder-Greeley, CO		
Justification: Boulder County lies entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). This county is within the presumptive nonattainment area and upon review of the 11 factors; EPA believes that this county contributes to violations in the C/MSA.		
Note - DV for 2000, 2001, and 2002 for Boulder County was 73 ppb. Based on the "South Boulder" monitor, AIRS ID 080130011. See chapter six of this technical support document for additional information.		
2000 Population: 291,288	VOC (tpy): 14,681	%drive to work:
1990-2000 growth: 29.3%	NOx (tpy): 12,226	Wind direction: not considered
2000-2010 growth: 17.1%	1999 Veh. mi. travelled (mln): 2,058	Topographical features: Y

Broomfield County, Colorado

2004 Designation: Nonattainment		County design value: N/A
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
Justification: Broomfield County was created in 2001 from portions of Boulder County, Jefferson County, and Weld County and is therefore, entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). There is no monitor in Broomfield County. Nearest monitors to Broomfield County are "South Boulder" (Boulder County) AIRS ID 080130011, "Rocky Flats" (Jefferson County) AIRS ID 080590006, and "Welby" (Adams County) AIRS ID 080013001. This county is within the presumptive nonattainment area and upon review of the 11 factors; EPA believes that this county contributes to violations in the C/MSA.		
Note - DV for 2000, 2001, and 2002 for Boulder County was 73 ppb. Based on the "South Boulder" monitor, AIRS ID 080130011. DV for 2000, 2001, and 2002 for Adams County was 64 ppb. Based on the "Welby" monitor, AIRS ID 080013001. DV for 2000, 2001, and 2002 for Jefferson County was 83 ppb. Based on the "Rocky Flats" monitor, AIRS ID 080590006. See chapter six of this technical support document for additional information.		
2000 Population: 38,272	VOC (tpy): unknown	%drive to work:
1990-2000 growth: 55.3%	NOx (tpy): unknown	Wind direction: not considered
2000-2010 growth: 30.6%	1999 Veh. mi. travelled (mln): unknown	Topographical features: not considered

Clear Creek County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification: Clear Creek County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Clear Creek County lies to the west of the Denver-Boulder-Greeley C/MSA in the foothills of the Front Range of the Rocky Mountains. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Clear Creek County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.		
2000 Population: 9,322	VOC (tpy): 1,375	%drive to work:
1990-2000 growth: 22.4%	NOx (tpy): 1,808	Wind direction: not considered
2000-2010 growth: 19.9%	1999 Veh. mi. travelled (mln): 449	Topographical features: not considered

Denver County, Colorado

2004 Designation: Nonattainment		County design value: 76
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
Justification: Denver County lies entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). This county is within the presumptive nonattainment area and upon review of the 11 factors, EPA believes that this county contributes to violations in the C/MSA.		
Note - DV for 2000, 2001, and 2002 for Denver County was 72 ppb. Based on the "Carriage" monitor, AIRS ID 080310014. See chapter six of this technical support document for additional information.		
2000 Population: 554,636	VOC (tpy): 30,878	%drive to work:
1990-2000 growth: 18.6%	NOx (tpy): 27,965	Wind direction: not considered
2000-2010 growth: 8.8%	1999 Veh. mi. travelled (mln): 5,139	Topographical features: N

Douglas County, Colorado

2004 Designation: Nonattainment		County design value: 85
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
Justification: Douglas County lies entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). Therefore, EPA is designating Douglas County as nonattainment.		
Note - DV for 2000, 2001, and 2002 for Douglas County was 80 ppb. Based on the "Chatfield" monitor, AIRS ID 080350002. See chapter six of this technical support document for additional information.		

2000 Population: 175,766	VOC (tpy): 9,081	%drive to work:
1990-2000 growth: 191.0%	NOx (tpy): 9,484	Wind direction: not considered
2000-2010 growth: 58.3%	1999 Veh. mi. travelled (mln): 2,051	Topographical features: N

Elbert County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Elbert County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Elbert County lies to the southeast of the Denver-Boulder-Greeley C/MSA with a rural, open setting. An evaluation of the 11 factors (especially: small population, no 100 tpy point sources, minimal county-level emissions of VOCs and NOx) listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Elbert County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA. Therefore, EPA designates Elbert County as Unclassifiable/Attainment.</p> <p>Note: As of March 22, 2004, the Denver EAC ozone plan was amended to include Elbert County at the request of the County.</p>		
2000 Population: 19,872	VOC (tpy): 1,474	%drive to work:
1990-2000 growth: 106.0%	NOx (tpy): 1,261	Wind direction: not considered
2000-2010 growth: 55.2%	1999 Veh. mi. travelled (mln): 291	Topographical features: not considered

El Paso County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: 73
Area: - attainment -		
MSA or CMSA: Colorado Springs, CO		
<p>Justification: El Paso County is not within the Denver-Boulder-Greeley C/MSA. EPA is not including El Paso County in the Denver nonattainment area because it lies south of Douglas County and is separated topographically from the Denver nonattainment area by a physical boundary called the Palmer Divide (also referred to as Monument Ridge). The Palmer Divide is essentially perpendicular to the Front Range of the Rocky Mountains, located near the cities of Monument and Palmer Lake, and rises to elevations exceeding 7,300 feet. Considering the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000), El Paso County is not contributing to the ozone violations in the adjacent Denver-Boulder-Greeley C/MSA.</p> <p>Note - DV for 2000, 2001, and 2002 for El Paso County was 71 ppb. Based on the "Air Force Academy" monitor, AIRS ID 080410013.</p>		
2000 Population: 516,929	VOC (tpy): 20,905	%drive to work:
1990-2000 growth: 30.2%	NOx (tpy): 24,353	Wind direction: not considered
2000-2010 growth: 17.7%	1999 Veh. mi. travelled (mln): 3,489	Topographical features: high elevation areas

Gilpin County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Gilpin County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Gilpin County lies to the west of the Denver-Boulder-Greeley C/MSA in the foothills of the Front Range of the Rocky Mountains. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Gilpin County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.		
2000 Population: 4,757	VOC (tpy): 541	%drive to work:
1990-2000 growth: 55.0%	NOx (tpy): 640	Wind direction: not considered
2000-2010 growth: 16.5%	1999 Veh. mi. travelled (mln): 106	Topographical features: not considered

Grand County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Grand County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Grand County lies to the west of the Denver-Boulder-Greeley C/MSA and to the west of Larimer and Boulder counties. Grand County is separated from these counties by a physical boundary, the Continental Divide, which reaches elevations from 10,000 feet to 14,000 feet. Grand County is large at 1850 square miles, rural with a small population at 12,442 (from the 2000 census), and no major point sources in the foothills of the Front Range of the Rocky Mountains. In consideration of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000), Grand County is not contributing to the ozone violations in the adjacent C/MSA.		
2000 Population: 12,442	VOC (tpy): 1,807	%drive to work:
1990-2000 growth: 56.2%	NOx (tpy): 1,619	Wind direction: not considered
2000-2010 growth: 31.4%	1999 Veh. mi. travelled (mln): 290	Topographical features: not considered

Jefferson County, Colorado

2004 Designation: Nonattainment		County design value: 87
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
Justification: Jefferson County lies entirely within the Denver-Boulder-Greeley C/MSA. The State's recommendation was based on 2000, 2001, and 2002 monitoring data which showed the Denver-Boulder-Greeley C/MSA to be in attainment for the 8-hour ozone standard. Data from 2001, 2002, and 2003 show three violating monitors (AIRS IDs 080350002 Douglas County, 080590006 Jefferson County, and 080590011 Jefferson County). The DV for the "Rocky Flats" monitor (AIRS ID 080590006) in Jefferson County for 2001, 2002, and 2003 is 87 ppb. Therefore, EPA is designating the C/MSA and Jefferson County as nonattainment.		
Note - DV for 2000, 2001, and 2002 for Jefferson County was 83 ppb. Based on the "Rocky Flats"		

monitor, AIRS ID 080590006. See chapter six of this technical support document for additional information.

2000 Population: 527,056	VOC (tpy): 27,120	%drive to work:
1990-2000 growth: 20.2%	NOx (tpy): 18,691	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 4,449	Topographical features: Y

Larimer County, Colorado

2004 Designation: Nonattainment		County design value: 81
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Fort Collins-Loveland, CO		
<p>Justification: Larimer County is not within the Denver-Boulder-Greeley C/MSA. EPA is only including the southern half of Larimer County. By incorporating the southern half of the County in the nonattainment boundary, EPA will be including all but one 100 tpy point source, the largest city (Fort Collins) with commuting patterns to and from the Denver C/MSA, and the eastern half of Rocky Mountain National Park. The northern half of Larimer County is lightly populated and includes the Rawah Wilderness Area and portions of the Roosevelt National Forest. Considering the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000), EPA has determined that Larimer County is contributing to the ozone violations in the adjacent Denver-Boulder-Greeley C/MSA.</p> <p>Note - DV for 2000, 2001, and 2002 for Larimer County was 78 ppb. Based on the "Rocky Mountain National Park" monitor, AIRS ID 080690007. See chapter six of this technical support document for additional information.</p>		
2000 Population: 251,494	VOC (tpy): 13,833	%drive to work:
1990-2000 growth: 35.1%	NOx (tpy): 12,485	Wind direction: not considered
2000-2010 growth: 20.5%	1999 Veh. mi. travelled (mln): 2,012	Topographical features: not considered

Logan County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Logan County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Logan County lies to the northeast of the Denver-Boulder-Greeley C/MSA with a rural, open setting. An evaluation of the eleven factors (especially: small population, no 100 tpy point sources, minimal county-level emissions of VOCs and NOx) listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Logan County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.</p>		
2000 Population: 20,504	VOC (tpy): 1,978	%drive to work:
1990-2000 growth: 16.7%	NOx (tpy): 2,890	Wind direction: not considered
2000-2010 growth: 26.1%	1999 Veh. mi. travelled (mln): 268	Topographical features: not considered

Morgan County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Morgan County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Morgan County lies to the east of the Denver-Boulder-Greeley C/MSA with a rural, open setting. An evaluation of the 11 factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Morgan County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.</p> <p>Note: As of March 22, 2004, the Denver EAC ozone plan was amended to include Morgan County at the request of the County.</p> <p>Further, EPA is not including Morgan County in the Denver 8-hour ozone nonattainment area because the population is small (27,171), NOx emissions are estimated at 30 tpd, and VOC emissions are estimated at 8 tpd. EPA notes that four major NOx point sources (greater than 100 tpy) are located in the eastern half of Morgan County. These sources are greater than 90 miles from the "Rocky Flats" maximum concentration design value monitor. We also reviewed the relevant information that was provided in the State's Denver EAC ozone plan and the State's TSD, which are included in EPA Air Docket number 2003-0090. Based on our review of the information available, we were unable to establish that emissions from Morgan County were causing or contributing to 8-hour ozone violations at the "Rocky Flats" monitor (AIRS ID 080590006), the "NREL" monitor (AIRS ID 080590011) or "Chatfield" monitor (AIRS ID 080350002) (i.e., the only monitors showing violations of the 8-hour ozone standard in the Denver area.)</p>		
2000 Population: 27,171	VOC (tpy): 2,275	%drive to work:
1990-2000 growth: 23.8%	NOx (tpy): 9,235	Wind direction: not considered
2000-2010 growth: 16.2%	1999 Veh. mi. travelled (mln): 270	Topographical features: not considered

Park County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Park County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Park County lies to the west of the Denver-Boulder-Greeley C/MSA and west of the foothills of the Front Range of the Rocky Mountains. The area in which Park County lies is called the "South Park" area which is defined as a high mountain basin area surrounded by areas of a higher elevation, typically mountain ranges. (Colorado has two similar topographic areas; the South Park area which is primarily in Park County and the North Park area which is primarily located in Grand County.) This topography creates a physical boundary that separates Park County from the Denver C/MSA. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Park County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.</p>		
2000 Population: 14,523	VOC (tpy): 1,654	%drive to work:
1990-2000 growth: 102.4%	NOx (tpy): 963	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	Topographical features: high elevation

2000-2010 growth: 133.9%	259	areas
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Teller County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Teller County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Teller County lies to the southwest of the Denver-Boulder-Greeley C/MSA in the foothills of the Front Range of the Rocky Mountains. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Teller County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.		
2000 Population: 20,555	VOC (tpy): 1,439	%drive to work:
1990-2000 growth: 64.9%	NOx (tpy): 711	Wind direction: not considered
2000-2010 growth: 26.0%	1999 Veh. mi. travelled (mln): 226	Topographical features: high elevation areas

Washington County, Colorado

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Washington County is not within the Denver-Boulder-Greeley C/MSA. This county does not have an ozone monitor. Washington County lies to the east of the Denver-Boulder-Greeley C/MSA with a rural, open setting. An evaluation of the eleven factors (especially: small population, no 100 tpy point sources, minimal county-level emissions of VOCs and NOx) listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Washington County indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.		
2000 Population: 4,926	VOC (tpy): 1,448	%drive to work:
1990-2000 growth: 2.4%	NOx (tpy): 2,050	Wind direction: not considered
2000-2010 growth: 1.6%	1999 Veh. mi. travelled (mln): 150	Topographical features: not considered

Weld County, Colorado

2004 Designation: Nonattainment		County design value: 79
Area: Denver-Boulder-Greeley-Ft.Collins-Love., CO		
MSA or CMSA: Denver-Boulder-Greeley, CO		
Justification: Weld County is within the Denver-Boulder-Greeley C/MSA. EPA is only including the southern half of Weld County. Weld is a large county encompassing an area just under 4,000 square miles. EPA is excluding the northern half of the County from the nonattainment boundary as this area only has sparse population, much of the area consists of the Pawnee National Grasslands, and only two 100 tons-per-year (tpy) point sources were identified, both near the Wyoming border. One source is located approximately 90 miles from the Denver area's Rocky Flats maximum concentration design value monitor and the other is more than 110 miles from the monitor. Otherwise, all other point sources greater than 100 tpy, major cities and their commuter patterns, numerous oil field operations,		

and other sources of ozone precursors are within the southern half of Weld County and are within the 8-hour ozone nonattainment boundary. Considering the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000), EPA has determined that southern Weld County is contributing to the ozone violations in the adjacent Denver-Boulder-Greeley C/MSA.

Note - DV for 2000, 2001, and 2002 for Weld County was 66 ppb. Based on the "Greeley" monitor, AIRS ID 081230007.

Weld County was incorporated into the Denver EAC by an amendment dated March 22, 2004. See chapter six of this technical support document for additional information.

2000 Population: 180,936	VOC (tpy): 15,371	%drive to work:
1990-2000 growth: 37.3%	NOx (tpy): 20,125	Wind direction: not considered
2000-2010 growth: 40.2%	1999 Veh. mi. travelled (mln): 2,129	Topographical features: N

Fairfield County, Connecticut

2004 Designation: Nonattainment		County design value: 102
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L. Island, NY-NJ-CT-PA		
Justification: We agree with the State's recommendation to include Fairfield as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 882,567	VOC (tpy): 46,595	%drive to work: 13 New York--Northern New Je
1990-2000 growth: 6.6%	NOx (tpy): 38,493	Wind direction: not considered
2000-2010 growth: - 2.8%	1999 Veh. mi. travelled (mln): 7,581	Topographical features: not considered

Hartford County, Connecticut

2004 Designation: Nonattainment		County design value: 90
Area: Greater Connecticut, CT		
MSA or CMSA: Hartford, CT		
Justification: We agree with the State's recommendation that Hartford County should be included as part of the Greater Connecticut nonattainment area.		
2000 Population: 857,183	VOC (tpy): 45,208	%drive to work: 0
1990-2000 growth: 0.6%	NOx (tpy): 31,753	Wind direction: not considered
2000-2010 growth: 1.3%	1999 Veh. mi. travelled (mln): 7,770	Topographical features: not considered

Litchfield County, Connecticut

2004 Designation: Nonattainment		County design value: N/A
Area: Greater Connecticut, CT		
MSA or CMSA: Waterbury, CT		

Justification: A portion of the county is included as part of the Hartford C/MSA and the remainder as part of the NYC area C/MSA. We are agreeing with the State's recommendation to include the entire county as part of the Greater CT (Hartford) nonattainment area.		
2000 Population: 182,193	VOC (tpy): 12,704	%drive to work: 0
1990-2000 growth: 4.7%	NOx (tpy): 5,515	Wind direction: not considered
2000-2010 growth: 5.5%	1999 Veh. mi. travelled (mln): 1,117	Topographical features: not considered

Middlesex County, Connecticut

2004 Designation: Nonattainment		County design value: 98
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: Hartford, CT		
Justification: Middlesex County, Connecticut is split between two C/MSA's. A portion of the county is included as part of the Hartford C/MSA and the remainder as part of the NYC area C/MSA. We agree with the State's recommendation to include the entire county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 155,071	VOC (tpy): 10,650	%drive to work: 0
1990-2000 growth: 8.3%	NOx (tpy): 9,886	Wind direction: not considered
2000-2010 growth: -0.8%	1999 Veh. mi. travelled (mln): 1,478	Topographical features: not considered

New Haven County, Connecticut

2004 Designation: Nonattainment		County design value: 102
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island, NY-NJ-CT-PA		
Justification: We agree with the State's recommendation to include New Haven as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 824,008	VOC (tpy): 43,207	%drive to work: 1 New York--Northern New Je
1990-2000 growth: 2.5%	NOx (tpy): 33,632	Wind direction: not considered
2000-2010 growth: 1.7%	1999 Veh. mi. travelled (mln): 6,626	Topographical features: not considered

New London County, Connecticut

2004 Designation: Nonattainment		County design value: 93
Area: Greater Connecticut, CT		
MSA or CMSA: New London-Norwich, CT-RI		
Justification: We agree with the State's recommendation to include New London County as part of the Greater CT nonattainment area.		
2000 Population: 259,088	VOC (tpy): 16,863	%drive to work: 0
1990-2000 growth: 1.6%	NOx (tpy): 14,413	Wind direction: not considered

2000-2010 growth: 4.6%	1999 Veh. mi. travelled (mln): 2,807	Topographical features: not considered
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Tolland County, Connecticut

2004 Designation: Nonattainment		County design value: 95
Area: Greater Connecticut, CT		
MSA or CMSA: Hartford, CT		
Justification: We agree with the State's recommendation to include Tolland as part of the Greater CT nonattainment area.		
2000 Population: 136,364	VOC (tpy): 7,491	%drive to work: 0
1990-2000 growth: 6.0%	NOx (tpy): 5,897	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 1,378	Topographical features: not considered

Windham County, Connecticut

2004 Designation: Nonattainment		County design value: N/A
Area: Greater Connecticut, CT		
MSA or CMSA: New London-Norwich, CT-RI		
Justification: We agree with the State's recommendation to include Windham as part of the Greater CT nonattainment area.		
2000 Population: 109,091	VOC (tpy): 7,000	%drive to work: 0
1990-2000 growth: 6.4%	NOx (tpy): 5,604	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 1,169	Topographical features: not considered

Kent County, Delaware

2004 Designation: Nonattainment		County design value: 89
Area: Philadelphia-Wilmington-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: Dover, DE		
Justification: The Delaware portion of the Philadelphia 8-hour ozone nonattainment area includes New Castle, Kent, and Sussex Counties, DE. The State recommended this county as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 126,697	VOC (tpy): 8,270	%drive to work: 11 Philadelphia-- Wilmington-
1990-2000 growth: 14.1%	NOx (tpy): 8,920	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 1,572	Topographical features: not considered

New Castle County, Delaware

2004 Designation: Nonattainment		County design value: 93
Area: Philadelphia-Wilmington-Atlantic Ci, PA-NJ-MD-DE		

MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Delaware portion of the Philadelphia 8-hour ozone nonattainment area includes New Castle, Kent, and Sussex Counties, DE. The State recommended this county as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 500,265	VOC (tpy): 26,364	%drive to work: 97 Philadelphia--Wilmington-
1990-2000 growth: 13.2%	NOx (tpy): 36,705	Wind direction: not considered
2000-2010 growth: 3.6%	1999 Veh. mi. travelled (mln): 4,854	Topographical features: not considered

Sussex County, Delaware

2004 Designation: Nonattainment		County design value: 91
Area: Philadelphia-Wilmington-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: - outside -		
Justification: The Delaware portion of the Philadelphia 8-hour ozone nonattainment area includes New Castle, Kent, and Sussex Counties, DE. The State recommended this county as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 156,638	VOC (tpy): 12,850	%drive to work: 2 Philadelphia--Wilmington-
1990-2000 growth: 38.3%	NOx (tpy): 17,499	Wind direction: not considered
2000-2010 growth: 4.6%	1999 Veh. mi. travelled (mln): 2,117	Topographical features: not considered

District of Columbia County, District of Columbia

2004 Designation: Nonattainment		County design value: 94
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: All of the District of Columbia is in the Washington D.C. 8-hour ozone nonattainment area. The rest of the Washington D.C. nonattainment includes: Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 572,059	VOC (tpy): 19,174	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: -5.7%	NOx (tpy): 15,742	Wind direction: not considered
2000-2010 growth: 7.6%	1999 Veh. mi. travelled (mln): 3,463	Topographical features: not considered

Baldwin County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification:		
2000 Population: 44,700	VOC (tpy): 2,982	%drive to work: 7 Macon, GA MSA
1990-2000 growth: 13.1%	NOx (tpy): 1,989	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 485	Topographical features: not considered

Barrow County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with the State recommendation to include Barrow County as part of the Atlanta nonattainment area.		
2000 Population: 46,144	VOC (tpy): 2,693	%drive to work: 85 Atlanta, GA MSA
1990-2000 growth: 55.3%	NOx (tpy): 2,290	Wind direction: not considered
2000-2010 growth: 42.5%	1999 Veh. mi. travelled (mln): 514	Topographical features: not considered

Bartow County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with the State recommendation to include Bartow County as part of the Atlanta nonattainment area.		
2000 Population: 76,019	VOC (tpy): 5,755	%drive to work: 91 Atlanta, GA MSA
1990-2000 growth: 36.0%	NOx (tpy): 47,516	Wind direction: not considered
2000-2010 growth: 36.9%	1999 Veh. mi. travelled (mln): 1,144	Topographical features: not considered

Bibb County, Georgia

2004 Designation: Nonattainment		County design value: 86
Area: Macon, GA		
MSA or CMSA: Macon, GA		
Justification: EPA agrees with the State's original recommendation for this county. See chapter 6 of this technical support document for the 11 factor analysis for Macon, Georgia including Bibb County.		
2000 Population: 153,887	VOC (tpy): 10,365	%drive to work: 94 Macon, GA MSA
1990-2000 growth: 2.6%	NOx (tpy): 11,800	Wind direction: not considered
2000-2010 growth: -1.3%	1999 Veh. mi. travelled (mln): 1,464	Topographical features: not considered

Butts County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A

Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 19,522	VOC (tpy): 1,407	%drive to work: 51 Atlanta, GA MSA
1990-2000 growth: 27.4%	NOx (tpy): 1,488	Wind direction: not considered
2000-2010 growth: 40.2%	1999 Veh. mi. travelled (mln): 182	Topographical features: not considered

Carroll County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with the State recommendation to include Carroll County as part of the Atlanta nonattainment area.		
2000 Population: 87,268	VOC (tpy): 7,110	%drive to work: 94 Atlanta, GA MSA
1990-2000 growth: 22.2%	NOx (tpy): 5,402	Wind direction: not considered
2000-2010 growth: 38.1%	1999 Veh. mi. travelled (mln): 1,241	Topographical features: not considered

Catoosa County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Chattanooga, TN-GA		
MSA or CMSA: Chattanooga, TN-GA		
Justification: SSee 11 factor analysis in chapter 6 of this technical support document.		
2000 Population: 53,282	VOC (tpy): 3,248	%drive to work: 80 Chattanooga, TN--GA MSA
1990-2000 growth: 25.5%	NOx (tpy): 2,735	Wind direction: not considered
2000-2010 growth: 25.2%	1999 Veh. mi. travelled (mln): 600	Topographical features: not considered

Chattooga County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 25,470	VOC (tpy): 1,608	%drive to work: 15 Chattanooga, TN--GA MSA
1990-2000 growth: 14.5%	NOx (tpy): 1,762	Wind direction: not considered
2000-2010 growth: 11.8%	1999 Veh. mi. travelled (mln): 257	Topographical features: not considered

Cherokee County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with the State's recommendation to include Cherokee County as part of the Atlanta nonattainment area.		
2000 Population: 141,903	VOC (tpy): 8,666	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 57.3%	NOx (tpy): 6,614	Wind direction: not considered
2000-2010 growth: 50.9%	1999 Veh. mi. travelled (mln): 1,571	Topographical features: not considered

Clarke County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Athens, GA		
Justification: Region's evaluation showed very little contribution to nonattainment. State applied two "compelling" factors (no violating monitor and modeled attainment by 2007) to support the omission of this County.		
2000 Population: 101,489	VOC (tpy): 5,271	%drive to work: 7 Atlanta, GA MSA
1990-2000 growth: 15.9%	NOx (tpy): 3,363	Wind direction: not considered
2000-2010 growth: 2.3%	1999 Veh. mi. travelled (mln): 722	Topographical features: not considered

Clayton County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with the State recommendation to include Clayton County as part of the Atlanta nonattainment area.		
2000 Population: 236,517	VOC (tpy): 11,811	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 29.9%	NOx (tpy): 10,373	Wind direction: not considered
2000-2010 growth: 30.4%	1999 Veh. mi. travelled (mln): 2,975	Topographical features: not considered

Cobb County, Georgia

2004 Designation: Nonattainment		County design value: 90
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Cobb County as part of the Atlanta nonattainment area.		
2000 Population: 607,751	VOC (tpy): 30,070	%drive to work: 98 Atlanta, GA MSA

1990-2000 growth: 35.7%	NOx (tpy): 31,747	Wind direction: not considered
2000-2010 growth: 27.7%	1999 Veh. mi. travelled (mln): 7,169	Topographical features: not considered

Coweta County, Georgia

2004 Designation: Nonattainment		County design value: 87
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Coweta County as part of the Atlanta nonattainment area.		
2000 Population: 89,215	VOC (tpy): 5,970	%drive to work: 96 Atlanta, GA MSA
1990-2000 growth: 65.7%	NOx (tpy): 16,271	Wind direction: not considered
2000-2010 growth: 41.9%	1999 Veh. mi. travelled (mln): 1,349	Topographical features: not considered

Crawford County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,495	VOC (tpy): 610	%drive to work: 69 Macon, GA MSA
1990-2000 growth: 39.0%	NOx (tpy): 624	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 124	Topographical features: not considered

Dade County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Chattanooga, TN-GA		
Justification: See response letter to State recommendations for justification.		
2000 Population: 15,154	VOC (tpy): 1,572	%drive to work: 92 Chattanooga, TN--GA MSA
1990-2000 growth: 15.3%	NOx (tpy): 2,419	Wind direction: not considered
2000-2010 growth: 16.8%	1999 Veh. mi. travelled (mln): 446	Topographical features: not considered

Dawson County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: - outside -		

Justification:		
2000 Population: 15,999	VOC (tpy): 1,259	%drive to work: 52 Atlanta, GA MSA
1990-2000 growth: 69.7%	NOx (tpy): 881	Wind direction: not considered
2000-2010 growth: 51.5%	1999 Veh. mi. travelled (mln): 186	Topographical features: not considered

DeKalb County, Georgia

2004 Designation: Nonattainment		County design value: 89
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include DeKalb County as part of the Atlanta nonattainment area.		
2000 Population: 665,865	VOC (tpy): 36,502	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 22.0%	NOx (tpy): 28,597	Wind direction: not considered
2000-2010 growth: -0.4%	1999 Veh. mi. travelled (mln): 8,872	Topographical features: not considered

Dooly County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 11,525	VOC (tpy): 1,440	%drive to work: 9 Macon, GA MSA
1990-2000 growth: 16.4%	NOx (tpy): 2,102	Wind direction: not considered
2000-2010 growth: 9.8%	1999 Veh. mi. travelled (mln): 305	Topographical features: not considered

Douglas County, Georgia

2004 Designation: Nonattainment		County design value: 91
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Douglas County as part of the Atlanta nonattainment area.		
2000 Population: 92,174	VOC (tpy): 5,076	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 29.6%	NOx (tpy): 4,649	Wind direction: not considered
2000-2010 growth: 29.4%	1999 Veh. mi. travelled (mln): 1,161	Topographical features: not considered

Elbert County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification:		
2000 Population: 20,511	VOC (tpy): 1,295	%drive to work: 2 Greenville-- Spartanburg--
1990-2000 growth: 8.2%	NOx (tpy): 1,318	Wind direction: not considered
2000-2010 growth: 4.8%	1999 Veh. mi. travelled (mln): 224	Topographical features: not considered

Fannin County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 19,798	VOC (tpy): 1,232	%drive to work: 0
1990-2000 growth: 23.8%	NOx (tpy): 812	Wind direction: not considered
2000-2010 growth: 30.5%	1999 Veh. mi. travelled (mln): 164	Topographical features: not considered

Fayette County, Georgia

2004 Designation: Nonattainment		County design value: 83
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Fayette County as part of the Atlanta nonattainment area.		
2000 Population: 91,263	VOC (tpy): 4,898	%drive to work: 97 Atlanta, GA MSA
1990-2000 growth: 46.2%	NOx (tpy): 4,447	Wind direction: not considered
2000-2010 growth: 32.8%	1999 Veh. mi. travelled (mln): 1,056	Topographical features: not considered

Floyd County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Large power plant in Floyd County (Hammond) has already installed SCR for Atlanta attainment demonstration. State then applied "compelling" factors to omit violating monitor and modeled attainment by 2007.		
2000 Population: 90,565	VOC (tpy): 7,789	%drive to work: 8 Atlanta, GA MSA
1990-2000 growth: 11.5%	NOx (tpy): 20,823	Wind direction: not considered
2000-2010 growth: 4.8%	1999 Veh. mi. travelled (mln): 823	Topographical features: not considered

Forsyth County, Georgia

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2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Forsyth County as part of the Atlanta nonattainment area.		
2000 Population: 98,407	VOC (tpy): 6,488	%drive to work: 94 Atlanta, GA MSA
1990-2000 growth: 123.2%	NOx (tpy): 4,984	Wind direction: not considered
2000-2010 growth: 84.9%	1999 Veh. mi. travelled (mln): 1,062	Topographical features: not considered

Franklin County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 20,285	VOC (tpy): 1,803	%drive to work: 1 Greenville--Spartanburg--
1990-2000 growth: 21.8%	NOx (tpy): 2,073	Wind direction: not considered
2000-2010 growth: 17.2%	1999 Veh. mi. travelled (mln): 475	Topographical features: not considered

Fulton County, Georgia

2004 Designation: Nonattainment		County design value: 91
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Fulton County as part of the Atlanta nonattainment area.		
2000 Population: 816,006	VOC (tpy): 47,480	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 25.7%	NOx (tpy): 49,799	Wind direction: not considered
2000-2010 growth: 0.5%	1999 Veh. mi. travelled (mln): 10,733	Topographical features: not considered

Gilmer County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 23,456	VOC (tpy): 1,288	%drive to work: 23 Atlanta, GA MSA
1990-2000 growth: 75.5%	NOx (tpy): 1,097	Wind direction: not considered

2000-2010 growth: 26.9%	1999 Veh. mi. travelled (mln): 230	Topographical features: not considered
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Gordon County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 44,104	VOC (tpy): 3,956	%drive to work: 9 Atlanta, GA MSA
1990-2000 growth: 25.8%	NOx (tpy): 3,607	Wind direction: not considered
2000-2010 growth: 23.0%	1999 Veh. mi. travelled (mln): 614	Topographical features: not considered

Gwinnett County, Georgia

2004 Designation: Nonattainment		County design value: 85
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Gwinnett County as part of the Atlanta nonattainment area.		
2000 Population: 588,448	VOC (tpy): 29,389	%drive to work: 97 Atlanta, GA MSA
1990-2000 growth: 66.7%	NOx (tpy): 24,097	Wind direction: not considered
2000-2010 growth: 39.5%	1999 Veh. mi. travelled (mln): 6,257	Topographical features: not considered

Habersham County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 35,902	VOC (tpy): 2,119	%drive to work: 0 Greenville--Spartanburg--
1990-2000 growth: 30.0%	NOx (tpy): 1,672	Wind direction: not considered
2000-2010 growth: 24.5%	1999 Veh. mi. travelled (mln): 340	Topographical features: not considered

Hall County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: - outside -		
Justification: EPA agrees with State recommendation to include Hall County as part of the Atlanta nonattainment area.		

2000 Population: 139,277	VOC (tpy): 10,916	%drive to work: 21 Atlanta, GA MSA
1990-2000 growth: 45.9%	NOx (tpy): 7,465	Wind direction: not considered
2000-2010 growth: 32.2%	1999 Veh. mi. travelled (mln): 1,613	Topographical features: not considered

Haralson County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 25,690	VOC (tpy): 3,135	%drive to work: 50 Atlanta, GA MSA
1990-2000 growth: 16.9%	NOx (tpy): 1,739	Wind direction: not considered
2000-2010 growth: 16.8%	1999 Veh. mi. travelled (mln): 330	Topographical features: not considered

Hart County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 22,997	VOC (tpy): 1,575	%drive to work: 4 Greenville--Spartanburg--
1990-2000 growth: 16.7%	NOx (tpy): 2,188	Wind direction: not considered
2000-2010 growth: 2.8%	1999 Veh. mi. travelled (mln): 227	Topographical features: not considered

Heard County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 11,012	VOC (tpy): 1,198	%drive to work: 49 Atlanta, GA MSA
1990-2000 growth: 27.6%	NOx (tpy): 20,342	Wind direction: not considered
2000-2010 growth: 13.8%	1999 Veh. mi. travelled (mln): 122	Topographical features: not considered

Henry County, Georgia

2004 Designation: Nonattainment		County design value: 89
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Henry County as part of the Atlanta		

nonattainment area.		
2000 Population: 119,341	VOC (tpy): 7,009	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 103.2%	NOx (tpy): 14,639	Wind direction: not considered
2000-2010 growth: 77.5%	1999 Veh. mi. travelled (mln): 1,503	Topographical features: not considered

Houston County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Macon, GA		
Justification: EPA is designating Houston County as attainment/unclassifiable. See the 11 factor analysis in chapter 6 of this technical support document. Analysis indicates that this county does not contribute to nonattainment in the Macon area.		
2000 Population: 110,765	VOC (tpy): 5,652	%drive to work: 95 Macon, GA MSA
1990-2000 growth: 24.2%	NOx (tpy): 6,103	Wind direction: not considered
2000-2010 growth: 16.5%	1999 Veh. mi. travelled (mln): 907	Topographical features: not considered

Jackson County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 41,589	VOC (tpy): 2,899	%drive to work: 23 Atlanta, GA MSA
1990-2000 growth: 38.6%	NOx (tpy): 3,543	Wind direction: not considered
2000-2010 growth: 40.8%	1999 Veh. mi. travelled (mln): 645	Topographical features: not considered

Jasper County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 11,426	VOC (tpy): 2,328	%drive to work: 50 Atlanta, GA MSA
1990-2000 growth: 35.2%	NOx (tpy): 26,035	Wind direction: not considered
2000-2010 growth: 29.2%	1999 Veh. mi. travelled (mln): 90	Topographical features: not considered

Jones County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: Macon, GA		
Justification: See response letter to State recommendations for justification.		
2000 Population: 23,639	VOC (tpy): 1,510	%drive to work: 85 Macon, GA MSA
1990-2000 growth: 14.0%	NOx (tpy): 1,471	Wind direction: not considered
2000-2010 growth: 16.6%	1999 Veh. mi. travelled (mln): 237	Topographical features: not considered

Lamar County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,912	VOC (tpy): 1,073	%drive to work: 50 Atlanta, GA MSA
1990-2000 growth: 22.0%	NOx (tpy): 783	Wind direction: not considered
2000-2010 growth: 17.4%	1999 Veh. mi. travelled (mln): 123	Topographical features: not considered

Laurens County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 44,874	VOC (tpy): 3,756	%drive to work: 4 Macon, GA MSA
1990-2000 growth: 12.2%	NOx (tpy): 4,718	Wind direction: not considered
2000-2010 growth: 7.9%	1999 Veh. mi. travelled (mln): 926	Topographical features: not considered

Macon County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 14,074	VOC (tpy): 1,842	%drive to work: 20 Macon, GA MSA
1990-2000 growth: 7.3%	NOx (tpy): 2,423	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 80	Topographical features: not considered

Meriwether County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 22,534	VOC (tpy): 2,945	%drive to work: 34 Atlanta, GA MSA

1990-2000 growth: 0.5%	NOx (tpy): 1,791	Wind direction: not considered
2000-2010 growth: 3.0%	1999 Veh. mi. travelled (mln): 225	Topographical features: not considered

Monroe County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Macon, GA		
MSA or CMSA: - outside -		
Justification: A large power plant that has not controlled emissions to NOx SIP Call levels (Scherer) is located in Monroe County. There is no monitor in the county. EPA is designating the portion of the county which contains the power plant as nonattainment. EPA has determined that the remainder of the county does not contribute to nonattainment in the Macon area. See the 11 factor analysis which is in chapter 6 of this document.		
2000 Population: 21,757	VOC (tpy): 2,296	%drive to work: 34 Macon, GA MSA
1990-2000 growth: 27.1%	NOx (tpy): 46,479	Wind direction: not considered
2000-2010 growth: 13.3%	1999 Veh. mi. travelled (mln): 499	Topographical features: not considered

Morgan County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,457	VOC (tpy): 3,111	%drive to work: 23 Atlanta, GA MSA
1990-2000 growth: 20.0%	NOx (tpy): 2,436	Wind direction: not considered
2000-2010 growth: 31.5%	1999 Veh. mi. travelled (mln): 451	Topographical features: not considered

Murray County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: 85
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Murray County contains a mountaintop monitor which shows a violation. This mountain top monitor violation is thought to be due to transport from outside the county since the county is mountainous and rural and has few emission sources. For this reason only part of the county containing the monitor is designated nonattainment.		
2000 Population: 36,506	VOC (tpy): 1,681	%drive to work: 0
1990-2000 growth: 39.6%	NOx (tpy): 1,975	Wind direction: not considered
2000-2010 growth: 23.9%	1999 Veh. mi. travelled (mln): 357	Topographical features: not considered

Newton County, Georgia

2004 Designation: Nonattainment		County design value: N/A
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Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Newton County as part of the Atlanta nonattainment area.		
2000 Population: 62,001	VOC (tpy): 5,042	%drive to work: 97 Atlanta, GA MSA
1990-2000 growth: 48.3%	NOx (tpy): 4,085	Wind direction: not considered
2000-2010 growth: 68.1%	1999 Veh. mi. travelled (mln): 917	Topographical features: not considered

Oconee County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Athens, GA		
Justification:		
2000 Population: 26,225	VOC (tpy): 2,000	%drive to work: 11 Atlanta, GA MSA
1990-2000 growth: 48.9%	NOx (tpy): 1,541	Wind direction: not considered
2000-2010 growth: 22.3%	1999 Veh. mi. travelled (mln): 277	Topographical features: not considered

Paulding County, Georgia

2004 Designation: Nonattainment		County design value: 89
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with state recommendation to include Paulding County as part of the Atlanta nonattainment area.		
2000 Population: 81,678	VOC (tpy): 5,095	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 96.3%	NOx (tpy): 4,148	Wind direction: not considered
2000-2010 growth: 69.0%	1999 Veh. mi. travelled (mln): 875	Topographical features: not considered

Peach County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Macon, GA		
Justification: See response letter to State recommendations for justification.		
2000 Population: 23,668	VOC (tpy): 2,220	%drive to work: 87 Macon, GA MSA
1990-2000 growth: 11.7%	NOx (tpy): 2,029	Wind direction: not considered
2000-2010 growth: 15.6%	1999 Veh. mi. travelled (mln): 440	Topographical features: not considered

Pickens County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: Atlanta, GA		
Justification: See response letter to State recommendations for justification.		
2000 Population: 22,983	VOC (tpy): 1,774	%drive to work: 92 Atlanta, GA MSA
1990-2000 growth: 59.3%	NOx (tpy): 1,060	Wind direction: not considered
2000-2010 growth: 54.6%	1999 Veh. mi. travelled (mln): 193	Topographical features: not considered

Pike County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 13,688	VOC (tpy): 809	%drive to work: 61 Atlanta, GA MSA
1990-2000 growth: 33.9%	NOx (tpy): 561	Wind direction: not considered
2000-2010 growth: 28.9%	1999 Veh. mi. travelled (mln): 112	Topographical features: not considered

Polk County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 38,127	VOC (tpy): 3,370	%drive to work: 27 Atlanta, GA MSA
1990-2000 growth: 12.8%	NOx (tpy): 2,288	Wind direction: not considered
2000-2010 growth: 13.1%	1999 Veh. mi. travelled (mln): 423	Topographical features: not considered

Pulaski County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 9,588	VOC (tpy): 505	%drive to work: 20 Macon, GA MSA
1990-2000 growth: 18.3%	NOx (tpy): 437	Wind direction: not considered
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 60	Topographical features: not considered

Putnam County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		

2000 Population: 18,812	VOC (tpy): 1,187	%drive to work: 5 Macon, GA MSA
1990-2000 growth: 33.1%	NOx (tpy): 32,051	Wind direction: not considered
2000-2010 growth: 10.6%	1999 Veh. mi. travelled (mln): 150	Topographical features: not considered

Rabun County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,050	VOC (tpy): 1,550	%drive to work: 0 Greenville--Spartanburg--
1990-2000 growth: 29.2%	NOx (tpy): 894	Wind direction: not considered
2000-2010 growth: 12.5%	1999 Veh. mi. travelled (mln): 159	Topographical features: not considered

Rockdale County, Georgia

2004 Designation: Nonattainment		County design value: 89
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Rockdale County as part of the Atlanta nonattainment area.		
2000 Population: 70,111	VOC (tpy): 4,246	%drive to work: 98 Atlanta, GA MSA
1990-2000 growth: 29.6%	NOx (tpy): 3,661	Wind direction: not considered
2000-2010 growth: 17.0%	1999 Veh. mi. travelled (mln): 819	Topographical features: not considered

Spalding County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with State recommendation to include Spalding County as part of the Atlanta nonattainment area.		
2000 Population: 58,417	VOC (tpy): 3,892	%drive to work: 93 Atlanta, GA MSA
1990-2000 growth: 7.3%	NOx (tpy): 3,210	Wind direction: not considered
2000-2010 growth: 7.9%	1999 Veh. mi. travelled (mln): 708	Topographical features: not considered

Stephens County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification:		
2000 Population: 25,435	VOC (tpy): 2,022	%drive to work: 1 Greenville--Spartanburg--
1990-2000 growth: 9.4%	NOx (tpy): 1,443	Wind direction: not considered
2000-2010 growth: 6.0%	1999 Veh. mi. travelled (mln): 293	Topographical features: not considered

Taylor County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 8,815	VOC (tpy): 647	%drive to work: 21 Macon, GA MSA
1990-2000 growth: 15.3%	NOx (tpy): 939	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 96	Topographical features: not considered

Troup County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 58,779	VOC (tpy): 8,223	%drive to work: 7 Atlanta, GA MSA
1990-2000 growth: 5.8%	NOx (tpy): 12,330	Wind direction: not considered
2000-2010 growth: 8.7%	1999 Veh. mi. travelled (mln): 1,298	Topographical features: not considered

Twiggs County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Macon, GA		
Justification: See response letter to State recommendations for justification.		
2000 Population: 10,590	VOC (tpy): 1,187	%drive to work: 79 Macon, GA MSA
1990-2000 growth: 8.0%	NOx (tpy): 2,257	Wind direction: not considered
2000-2010 growth: 0.1%	1999 Veh. mi. travelled (mln): 412	Topographical features: not considered

Walker County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Chattanooga, TN-GA		

Justification: EPA is concurring with the State's original recommendation of attainment for Walker County. This county has no violating monitor. See the supporting 11 factor analysis in chapter 6 of this document.

2000 Population: 61,053	VOC (tpy): 4,131	%drive to work: 85 Chattanooga, TN--GA MSA
1990-2000 growth: 4.7%	NOx (tpy): 2,403	Wind direction: not considered
2000-2010 growth: 9.7%	1999 Veh. mi. travelled (mln): 533	Topographical features: not considered

Walton County, Georgia

2004 Designation: Nonattainment		County design value: N/A
Area: Atlanta, GA		
MSA or CMSA: Atlanta, GA		
Justification: EPA agrees with state recommendation to include Walton County as part of the Atlanta nonattainment area.		
2000 Population: 60,687	VOC (tpy): 4,011	%drive to work: 93 Atlanta, GA MSA
1990-2000 growth: 57.3%	NOx (tpy): 2,697	Wind direction: not considered
2000-2010 growth: 52.3%	1999 Veh. mi. travelled (mln): 597	Topographical features: not considered

Whitfield County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Region evaluated adjacent Whitfield County which ranked second lowest, indicating potential contribution. However, low numbers only resulted from high growth of a very small population, and VMT that stayed in the County.		
2000 Population: 83,525	VOC (tpy): 7,261	%drive to work: 3 Chattanooga, TN--GA MSA
1990-2000 growth: 15.3%	NOx (tpy): 7,120	Wind direction: not considered
2000-2010 growth: 14.4%	1999 Veh. mi. travelled (mln): 1,238	Topographical features: not considered

Wilkinson County, Georgia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Area has violating PM2.5 monitors based on 2000-2002 data adjacent county Wilkinson (16.1).		
2000 Population: 10,220	VOC (tpy): 844	%drive to work: 19 Macon, GA MSA
1990-2000 growth: -0.1%	NOx (tpy): 1,300	Wind direction: not considered

2000-2010 growth: 5.6%	1999 Veh. mi. travelled (mln): 127	Topographical features: not considered
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Bond County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Low population, low VOC and NOx emissions (compared to the annual VOC emissions for the entire St. Louis C/MSA, 156,100 tons, and the annual NOx emissions for the entire St. Louis C/MSA, 220,857 tons), and low expected growth in emissions and population for the 2000-2010 period. Also "downwind" of the St. Louis nonattainment area based on the assumption that the prevailing winds are from south through southwest on the high ozone days in the St. Louis area.		
Not part of the presumptive nonattainment area/C/MSA.		
No monitored 8-hour ozone standard violation.		
2000 Population: 17,633	VOC (tpy): 1,284	%drive to work: 32 St. Louis, MO--IL MSA
1990-2000 growth: 17.6%	NOx (tpy): 2,016	Wind direction: not considered
2000-2010 growth: -4.3%	1999 Veh. mi. travelled (mln): 300	Topographical features: not considered

Boone County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Rockford, IL		
Justification: Boone County is located outside, but not adjacent to, the presumptive Chicago Nonattainment area. There is no monitor in the county. The county's emissions (4,408 tpy VOC and 2,319 tpy NOx) are low compared to the annual emissions for the Chicago C/MSA (395,090 tpy VOC and 361,762 tpy NOx). The population of 41,786 is low compared to the Chicago C/MSA, with roughly 8,000,000. Projected growth shows a net loss of roughly 10 percent to 2010. Based on the data, we do not believe Boone County is contributing to the violations in the Chicago area.		
2000 Population: 41,786	VOC (tpy): 4,408	%drive to work: 29 Chicago--Gary--Kenosha, I
1990-2000 growth: 35.6%	NOx (tpy): 2,319	Wind direction: not considered
2000-2010 growth: -10.5%	1999 Veh. mi. travelled (mln): 400	Topographical features: not considered

Calhoun County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Calhoun county is adjacent to the St. Louis presumptive nonattainment area. The population of about 5,000 people is small compared to the St. Louis C/MSA, which contains over		

2,500,000 people. There is a negative growth projection for the county. VOC emissions for the county are small compared to the St. Louis C/MSA (716 tpy versus 156,100 tpy). NOx emissions are also relatively small when compared with the St. Louis C/MSA (1,181 tpy versus 220,857 tpy). There is no monitor in the county. Wind rose data suggests that the wind comes primarily from the south, which would place Calhoun county downwind of the St. Louis C/MSA. Based on the data, we do not believe Calhoun County is contributing to the violations in the St. Louis area.

2000 Population: 5,084	VOC (tpy): 716	%drive to work: 43 St. Louis, MO--IL MSA
1990-2000 growth: -4.5%	NOx (tpy): 1,181	Wind direction: not considered
2000-2010 growth: -8.6%	1999 Veh. mi. travelled (mln): 58	Topographical features: not considered

Clinton County, Illinois

2004 Designation: Unclassifiable/Attainment	County design value: N/A
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Area: - attainment -

MSA or CMSA: St Louis, MO-IL

Justification: Emissions and population are low percentages of the C/MSA totals. Post-2000 growth is minimal, maintaining low population and emission percentages for C/MSA.

No monitored violation of the 8-hour ozone standard.

Detailed Technical Analysis:

This is a summary of how the 11 factors in EPA's designation boundary guidance are addressed by the Illinois EPA or by additional data reviewed by the EPA.

1) Emissions:

Illinois EPA noted that the VOC and NOx emissions in Clinton County are the following: 10.95 TPD VOC and 16.73 TPD NOx.

To assess the impact of excluding Clinton County, the annual emissions contained in the 1999 NEI have been considered for both the Illinois portion of the C/MSA and the C/MSA as a whole. The total annual VOC and NOx emissions for the Illinois portion of the C/MSA are: 39,436 tons VOC and 60,043 tons NOx. The annual VOC and NOx emissions in the entire C/MSA are: 156,100 tons VOC and 220,857 tons NOx. Since the annual emissions in Clinton County are: 2,442 tons VOC and 3,879 tons NOx, it can be seen that the emissions in Clinton County form the following percentages: Illinois Portion of C/MSA (6.2 percent of the VOC emissions and 6.5 percent of the NOx emissions); and C/MSA total (1.6 percent of the VOC emissions and 1.8 percent of the VOC emissions). These data indicate that the VOC and NOx emissions in Clinton County are a relatively small fraction of the emissions from the C/MSA as a whole.

2) Population Densities and Degree of Urbanization:

Illinois EPA has provided population density and land use maps showing that Clinton County is significantly less populated per unit area and significantly less urban than the area within the recommended 8-hour ozone nonattainment area. Illinois has also presented population densities by

county in persons per acre showing that the population density of Clinton County is significantly less than those of Madison and St. Clair Counties. The population density of Clinton County is 75 people per square mile based on the 2000 census. The population of Clinton County (35,535 based on the 2000 census) is 5.9 percent of the population of the Illinois portion of the C/MSA and, obviously, a significantly smaller percentage of the total C/MSA population.

3) Monitoring Data:

The monitoring data for 2001-2003 for the C/MSA show that the 8-hour ozone standard was violated in Jersey and Madison Counties in Illinois, and in Jefferson, St. Charles, and St. Louis Counties in Missouri, as well as in the City of St. Louis.

No monitoring of ozone was conducted in Clinton County during the 2001-2003 period. No conclusions can be drawn concerning possible peak ozone levels in Clinton County. It should be noted that Clinton County is adjoining Madison County, which is in violation of the 8-hour ozone standard. The placement of Clinton County, southeast of Madison County and upwind of Madison County on most high ozone days, does not lead to the conclusion that Clinton County may be in violation of the 8-hour ozone standard.

4) Location of Emission Sources:

Mapping of the locations of major sources of VOC and NO_x (those sources emitting in excess of 100 tons/year of VOC and/or NO_x) for the State of Illinois shows that two major sources of VOC are located in Clinton County. It is not clear whether these sources are currently controlled or will be ultimately controlled under Illinois VOC emission control regulations. Nonetheless, as noted elsewhere in this analysis, the total VOC emissions in Clinton County are a small percentage of the total VOC emissions in the Illinois portion of the C/MSA and the C/MSA as a whole.

5) Traffic and Commuting Patterns:

Illinois has provided ADVMT data for each of the Illinois counties in the Illinois portion of the C/MSA. These data show that the ADVMT of Clinton County is 6.2 percent of the total ADVMT for the Illinois portion of the C/MSA. The ADVMT of Clinton County would be an even smaller percentage of the ADVMT for the entire C/MSA.

A significant portion (approximately 85 percent) of the workers originating in Clinton County appear to be commuting into the St. Louis urban area for work each weekday. Given the lower population of Clinton County, however, these commuting workers are not expected to contribute a significant percentage of the mobile source emissions in the C/MSA.

6) Expected Growth:

According to the U.S. Census, the expected growth in population for Clinton County for the 2000-2010 period is 4.5 percent. Since the 2000 population for Clinton is relatively small and a small percentage of the population of the C/MSA as a whole, the growth in population in Clinton County is not expected to lead to a significant increase in Clinton County emissions relative to those in the C/MSA as a whole.

Illinois has presented graphical representations of population growth for 1995-2020 and occupational employment growth of 1998-2008. These graphical data indicate that, in terms of absolute population

and employment numbers, the growth in population and employment in Clinton County are expected to be significantly less than those in the counties in the State-recommended 8-hour nonattainment area.

7) Meteorology

Insufficient data are available to allow us to determine whether Clinton County is upwind from the violating monitors on the ozone exceedance days at these monitors. It is noted, however, that the historical view of one-hour high ozone concentrations in the St. Louis area leads us to the conclusion that most high ozone days occur on days with winds from the south through southwest.

8) Geography:

The State did not address geography issues for this area, and no known geographic features are relevant for this area.

9) Jurisdictional Boundaries:

Illinois has recommended that the 8-hour nonattainment area be identical to the 1-hour nonattainment area.

10) Level of Emission Controls:

Illinois has not previously applied VOC controls on stationary sources in Clinton County. In addition, it appears that there are no major NOx sources in Clinton County that would be subject to Illinois' statewide NOx emission control regulations.

11) Regional Emission Reductions

Illinois has statewide NOx emission control rules for certain source categories. None of these rules may be applicable to NOx sources in Clinton County.

Review Summary:

All of the 11 factors were reviewed in a cumulative manner. Based on these factors, particularly on the relatively small fraction of the C/MSA emissions that originate in Clinton County, it is concluded that excluding Clinton County from the nonattainment area is appropriate.

Given the monitored 8-hour ozone standard violations in the St. Louis area and the prior 1-hour ozone nonattainment area (the St. Louis area was redesignated to attainment of the 1-hour ozone standard in 2003), we agree with Illinois that Jersey, Madison, Monroe, and St. Clair Counties should be nonattainment for the 8-hour ozone standard.

2000 Population: 35,535	VOC (tpy): 2,442	%drive to work: 85 St. Louis, MO--IL MSA
1990-2000 growth: 4.7%	NOx (tpy): 3,879	Wind direction: not considered
2000-2010 growth: 4.5%	1999 Veh. mi. travelled (mln): 374	Topographical features: not considered

Cook County, Illinois

2004 Designation: Nonattainment		County design value: 87
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: This county was part of the original 1-hour nonattainment area and is a major source area. This county contains a monitor that is violating the standard. Part of 8-hour ozone nonattainment area recommended by the State of Illinois, and we agree with this recommendation.		
2000 Population: 5,376,741	VOC (tpy): 251,711	%drive to work: 99 Chicago--Gary--Kenosha, I
1990-2000 growth: 5.3%	NOx (tpy): 209,406	Wind direction: not considered
2000-2010 growth: -1.9%	1999 Veh. mi. travelled (mln): 42,741	Topographical features: not considered

DeKalb County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
<p>Justification: Emissions and population are low percentages of C/MSA totals. Emissions, when combined with emissions from other counties considered for exclusion from the Chicago area, are also a small percentage, well under 10 percent, of the C/MSA emission totals for both VOC and NOx. Population/emissions growth projection relatively small compared to that of C/MSA. Emissions will become a smaller percentage of the C/MSA emissions totals over the next decade.</p> <p>No monitored violation of the 8-hour ozone standard.</p> <p>No monitored violation of the 8-hour ozone standard.</p> <p>Analysis for Counties To Be Excluded From Chicago</p> <p>8-Hour Ozone Nonattainment Area:</p> <p>Exclusion of Certain Counties and Partial Counties:</p> <p>Two full Illinois counties, DeKalb and Kankakee, and those portions of Grundy and Kendall County outside of the Chicago 1-hour ozone nonattainment area have been recommended for exclusion from the Chicago 8-hour ozone nonattainment area (the areas recommended for exclusion from the 8-hour nonattainment area are collectively referred to here as the "exclusion counties"). The following discussion addresses each of the 11 designation decision factors and how they apply to these counties. Unless noted, data addressed below cover all of Kendall and Grundy Counties, both inside and outside of the 1-hour ozone nonattainment area. Illinois has not provided nor have we obtained data allowing us to distinguish emissions and populations between the two portions of the counties.</p> <p>(1) Emissions:</p> <p>Illinois EPA noted that the 1999 Volatile Organic Compounds (VOC) and Oxides of Nitrogen (NOx) emissions in the counties that are excluded in whole or in part are the following: DeKalb County (VOC: 21.77 tons/day (tpd) and NOx: 10.92 tpd); Grundy County (VOC: 15.24 tpd and NOx: 24.50</p>		

tpd); Kankakee County (VOC: 28.96 tpd and NOx: 40.46 tpd); and Kendall County (VOC: 9.39 tpd and NOx: 11.62 tpd). The Illinois EPA noted that these emission levels were relatively small compared to the total emissions of the State-recommended Chicago 8-hour ozone nonattainment area (Illinois portion only) (VOC: 769.63 tpd and NOx: 1,055.2 tpd).

Based on the 1999 National Emissions Inventory (NEI), the 1999 total annual emissions for the Illinois portion of the Chicago C/MSA are: VOC: 395,090 tons; and NOx: 361,762 tons. The individual county emission totals and percentages of the 1999 emission totals are given in Table I. These data indicate that the VOC and NOx emissions for all of the exclusion counties are relatively small compared to the emission totals for the C/MSA. The area within the recommended 8-hour ozone nonattainment area would account for in excess of 90 percent of the C/MSA emission totals.

(2) Population Densities and Degree of Urbanization:

Illinois EPA has presented population density and land-use maps showing that DeKalb, Grundy, Kankakee, and Kendall Counties are significantly less populated per unit area and significantly less urban than the area within the recommended 8-hour ozone nonattainment area. Illinois has also presented population densities by county in persons per acre showing that the population densities in the areas recommended for exclusion from

Table I.

1999 VOC and NOx Emissions by County

Illinois Portion of Chicago C/MSA

County VOC (tpy) % of C/MSA (*) NOx (tpy) % of C/MSA (*)

Cook 251,711 63.7 209,406 57.9

DuPage 41,667 10.5 31,160 8.6

Kane 15,455 3.9 9,875 2.7

Lake 36,105 9.1 26,711 7.4

McHenry 9,727 2.5 6,184 1.7

Will 21,199 5.4 53,958 14.9

Subtotal 375,864 95.1 337,294 93.2

DeKalb 5,148 1.3 5,131 1.4

Grundy (**) 3,767 1.0 9,304 2.6

Kankakee 7,306 1.8 6,930 1.9

Kendall(**) 3,005 0.8 3,103 0.9

Subtotal 19,226 4.9 24,468 6.8

Total 395,090 100.0 361,762 100.0

(*) Illinois portion of Chicago C/MSA only.

(**) Total county emission totals.

nonattainment areas are significantly less than those in the remainder of the C/MSA.

The populations, percentages of C/MSA total population (8,376,601 in 2000), and population densities for the individual counties in the Chicago C/MSA are given in Table II. From this table, it can be seen that the populations of the exclusion counties are small percentages of the C/MSA total population for each county and in accumulative. It can also be seen that the population densities of the exclusion counties are significantly smaller than the population densities of the counties in the recommended 8-hour ozone nonattainment area.

Table II.

2000 Populations and Population Densities

Illinois Portion of the Chicago C/MSA

County 2000 Population % of C/MSA (*) Population Density

(Per Square Mile)

Cook 5,376,741 64.2 5,618

DuPage 904,161 10.8 2,691

Kane 404,119 4.8 773

Lake 644,356 7.7 1,377

McHenry 260,077 3.1 429

Will 502,266 6.0 592

Subtotal 8,091,720 96.6 2,173

DeKalb 88,969 1.1 140

Grundy (**) 37,535 0.4 89

Kankakee 103,833 1.2 153

Kendall (**) 54,544 0.7 170

Subtotal 284,881 3.4 139

Total 8,376,601 100.0 1,449

(*) Illinois portion of Chicago C/MSA only.

(**) Total county population totals.

(3) Monitoring Data:

The ozone monitoring data for 2001-2003 for the C/MSA show that the 8-hour ozone standard was violated in Cook County, Illinois, Kenosha County, Wisconsin, and Lake and Porter Counties, Indiana. The 8-hour ozone standard was not violated during this time period in DuPage, Kane, McHenry, and Will Counties, Illinois. Ozone was not monitored during this time period in DeKalb, Grundy, Kankakee, and Kendall Counties, Illinois.

The ozone design values (average of fourth-high daily peak 8-hour ozone concentrations over a three year period) for the violating counties during the 2001-2003 period were: Cook County, Illinois (87 parts per billion [ppb]); Lake County, Illinois (87 ppb); Kenosha County, Wisconsin (101 ppb); Lake County, Indiana (90 ppb); and Porter County (87 ppb).

Although ozone monitoring was not conducted in DeKalb, Grundy, Kankakee, and Kendall Counties during the 2001-2003 period, it should be noted that these adjoin McHenry, Kane, and Will Counties, which did have monitored ozone concentrations which showed no violation of the 8-hour ozone standard during this period. The ozone data in these counties, the relative positions of DeKalb, Grundy, Kankakee, and Kendall Counties upwind of the major VOC and NO_x source areas on high ozone days in the Chicago area, and a general lack of major source areas immediately upwind of DeKalb, Grundy, Kankakee, and Kendall Counties on high ozone days imply that DeKalb, Grundy, Kankakee, and Kendall Counties are probably not experiencing current violations of the 8-hour ozone standard.

(4) Locations of Emission Sources:

Mapping of the locations of major sources of VOC and NO_x (those sources emitting in excess of 100 tons/year of VOC and/or NO_x) for the Chicago area counties shows that major sources of VOC and NO_x are located in DeKalb, Grundy, Kankakee, and Kendall Counties. DeKalb County has only one major NO_x source.

Several of the major sources in Grundy and Kendall Counties are within the portions of the counties that Illinois is recommending be included in the 8-hour nonattainment area. Nonetheless, several major sources would remain outside of the recommended nonattainment area in both of these counties. One major electric generating unit in Grundy County is subject to the requirements of Illinois' NO_x emission control regulations for such units.

Three major sources of VOC and three major sources of NO_x are located in Kankakee County. It is not clear that the major NO_x sources in this county will be subject to Illinois' NO_x emission control regulations. Nonetheless, as noted elsewhere in this analysis, the total ozone precursor emissions in Kankakee County are minimal compared to those in the 1-hour ozone nonattainment area and within the Illinois recommended 8-hour ozone nonattainment area.

5) Traffic and Commuting Patterns:

Illinois has provided Average Daily Vehicle Miles Traveled (ADVMT) data for each of the Illinois counties in the Chicago C/MSA. These data show that the ADVMT in any of the counties considered for exclusion from the recommended 8-hour nonattainment area are less than half those of any of the counties in the recommended nonattainment area. The total ADVMT in the four excluded counties (8,601,288) is 5.3 percent of the total ADVMT in the Illinois portion of the C/MSA. The county-specific ADVMTs for the exclusion counties are the following:

DeKalb County (2,019,848); Grundy County (1,723,265); Kankakee County (2,474,810); and Kendall County (1,506,392). The ADVMT for the Illinois portion of the Chicago C/MSA is 162,500,136. Therefore, the ADVMTs of the exclusion counties are small compared to that of the entire C/MSA and to that of the area included in the recommended 8-hour ozone nonattainment area, which has a total ADVMT of 153,898,848.

Some of the drivers in the exclusion counties do drive to work into areas within the recommended 8-hour ozone nonattainment area, and, therefore, account for some of the ADVMT within the recommended 8-hour ozone nonattainment area. At the same time, reverse commuting is occurring, meaning that drivers from within the recommended 8-hour ozone nonattainment area are producing some of the ADVMT in the exclusion counties. At this time, the former is expected to be larger than the latter. Insufficient data, however, are available to confirm whether the commuters from the exclusion counties provide a significant percentage of the ADVMT estimated for the recommended 8-hour ozone nonattainment area itself. Lacking such data, we are not assuming here that controlling the emissions from the vehicles commuting into the recommended 8-hour ozone nonattainment area will provide a significant impact on future VOC and NOx emissions in this area.

(6) Expected Growth:

According to the U.S. Census, the expected growth in populations for the subject exclusion counties for the 2000-2010 period are: DeKalb County (8.2 percent); Grundy County (5.0 percent); Kankakee County (7.5 percent); and Kendall County (3.7 percent). Since the total 2000 population for all four counties is a small percentage of the total population for the Illinois portion of the C/MSA, the populations of the subject exclusion counties are not expected to become a significant percentage of the C/MSA total population through 2010. In fact, as other counties in the C/MSA are growing at faster absolute rates (changes in population per unit time rather than percentage changes per unit time) (with the exclusion of Cook County, which is not appreciably growing during the 2000-2010 period) than DeKalb, Kankakee, Kendall, and Grundy Counties, the C/MSA population fraction of the exclusion counties will decrease over the 2000-2010 time period. The 2000-2010 population growth percentage estimates for the counties in the recommended 8-hour ozone nonattainment area are the following: Cook County (-1.9 percent); DuPage County (2.8 percent); Kane County (14.3 percent); Lake County (4.2 percent); McHenry County (14.8 percent); and Will County (21.3 percent). Even though some of these counties have lower population percentage growth rates than some of the exclusion counties, it must also be recognized that their current populations are significantly greater than those of the exclusion counties. Therefore, their actual populations will "out-grow" those of the exclusion counties over the next decade.

Illinois has presented graphical representations of population growth for 1995-2020 and occupational employment growth for 1998-2008. These graphical data indicate that, in terms of absolute population and employment numbers, the growth in population and employment in the exclusion counties is expected to be significantly less than those in the counties in the recommended 8-hour ozone

nonattainment area.

(7) Meteorology:

DeKalb, Grundy, Kankakee, and Kendall Counties are located south-west of the Chicago urban/industrial area. Therefore, these counties are generally upwind of the Chicago urban/industrial area on high ozone days in this area. The Chicago urban/industrial area would not be expected to cause ozone standard violations in DeKalb, Grundy, Kankakee, and Kendall Counties.

Based on meteorology alone, DeKalb, Grundy, Kankakee, and Kendall Counties are potential source areas for Chicago area high ozone levels. As explained elsewhere in this analysis, however, the emissions from these counties are a small fraction of the total ozone precursor emissions in the C/MSA. Therefore, these counties are not expected to be significant source areas for the Chicago area high ozone concentrations, and peak ozone levels in the Chicago area are not expected to be significantly impacted through the control of emissions in these counties.

(8) Geography:

Geography issues are not significant for this area. The affected area is relatively large compared to other high ozone areas in the Mid-West, but the counties themselves are not relatively big and are not divided by significant geographical features such as mountain ranges.

Lake Michigan is associated with locally-significant meteorology that leads to relatively high ozone concentrations along the western shore of the Lake. In addition, the presence of the Lake does contribute to significant ozone transport into Northwestern Indiana and Western Michigan. These factors do not affect ozone levels in the exclusion counties and do not contribute to enhanced ozone or ozone precursor transport from the exclusion counties into the recommended Chicago 8-hour ozone nonattainment area.

(9) Jurisdictional Boundaries:

Illinois has recommended that the 8-hour ozone nonattainment area be identical to the 1-hour ozone nonattainment area. No other jurisdictional boundary issues are relevant to this situation.

(10) Level of Emission Controls:

Illinois has not previously applied VOC controls on stationary sources in DeKalb and Kankakee Counties and those portions of Grundy and Kendall Counties outside of the 1-hour ozone nonattainment area. In addition, Illinois has not applied state-selected mobile source emissions in these areas.

(11) Regional Emission Reductions:

Illinois has approved NOx emission control regulations under the NOx SIP call.

Review Summary and Conclusions:

No one factor is the basis for decisions on the designation boundaries. All of the 11 factors discussed above were considered to derive an opinion which best fits the facts. In the 120 day letter, we agreed

with Illinois that DeKalb and Kankakee Counties may be designated as attainment (actually attainment/unclassifiable) of the 8-hour ozone standard. This conclusion is based on the relatively low emissions in these counties and the resulting conclusion that not including these counties in the nonattainment area will have little impact on the success of any future emission control strategy for the Chicago area. Any additional VOC emission controls in these counties are likely to have minimal impacts on ozone levels downwind of the Chicago area. These Counties also lack major NOx sources that would present a potential for significant additional NOx emission reductions.

Illinois' submittal and other data sources provide evidence that Grundy and Kendall Counties, as a whole and in conjunction with DeKalb and Kankakee Counties, are not a significant source area for ozone precursor emissions relative to the Illinois-recommended Chicago 8-hour ozone nonattainment area. In addition, although Grundy and Kendall Counties are not monitored for ozone, they are adjoining counties that are monitored as attaining the 8-hour ozone standard and are not adjoining counties that are monitoring nonattainment of the 8-hour ozone standard. This implies that Kendall and Grundy Counties may themselves be attaining the 8-hour ozone standard. It is noted, however, that the parts of Kendall (Oswego Township) and Grundy (Aux Sable and Goose Lake Townships) Counties the State recommends for inclusion in the 8-hour nonattainment area are the same portions of these counties included in the 1-hour ozone nonattainment area. Based on the fact that these portions of the Counties were part of the 1-hour ozone nonattainment area, we agree with the State's recommendation to include them as part of the 8-hour ozone nonattainment area. Designating these portions of Grundy and Kendall Counties as nonattainment for the 8-hour ozone standard is consistent with EPA's policy to designate 8-hour ozone nonattainment areas that, at minimum, include the original 1-hour ozone nonattainment areas.

2000 Population: 88,969	VOC (tpy): 5,148	%drive to work: 95 Chicago--Gary--Kenosha, I
1990-2000 growth: 14.2%	NOx (tpy): 5,131	Wind direction: not considered
2000-2010 growth: 8.2%	1999 Veh. mi. travelled (mln): 724	Topographical features: not considered

DuPage County, Illinois

2004 Designation: Nonattainment		County design value: 73
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: This county is part of original 1-hour nonattainment area and a major source area. it is also part of presumptive nonattainment area/C/MSA, which is in violation of the 8-hour ozone standard. This county is included as part of the designated 8-hour nonattainment area.		
2000 Population: 904,161	VOC (tpy): 41,667	%drive to work: 99 Chicago--Gary--Kenosha, I
1990-2000 growth: 15.7%	NOx (tpy): 31,160	Wind direction: not considered
2000-2010 growth: 2.8%	1999 Veh. mi. travelled (mln): 6,403	Topographical features: not considered

Fayette County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification: A small portion of Fayette County is adjacent to the St. Louis C/MSA, but Fayette County is not adjacent to the 1-hour nonattainment area. The population of about 21,802 people is small compared to the St. Louis C/MSA, which contains over 2,500,000 people. Growth is projected to decline through 2010. VOC emissions for Fayette County are low when compared to the St. Louis C/MSA (2,257 tpy versus 156,100 tpy). NOx emissions for Fayette county are also low compared to the St. Louis C/MSA (2,997 toy versus 220,857 tpy). There is no monitor in the county. Wind rose data shows prevailing winds from the south, meaning Fayette county probably does not contribute to ozone violations in the St. Louis area. Based on the data, we do not believe Fayette County is contributing to the violations in the St. Louis area.		
2000 Population: 21,802	VOC (tpy): 2,257	%drive to work: 2 St. Louis, MO--IL MSA
1990-2000 growth: 4.3%	NOx (tpy): 2,997	Wind direction: not considered
2000-2010 growth: -10.5%	1999 Veh. mi. travelled (mln): 431	Topographical features: not considered

Ford County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: A small portion of Ford County is adjacent to the Chicago C/MSA, but outside of the presumptive nonattainment area. The population of Ford County is small compared to the Chicago C/MSA (12,241 versus about 8,000,000). The population is expected to decrease through 2010. VOC emissions for Ford county are small compared to the Illinois portion of the Chicago C/MSA (1,815 tpy versus 395,090 tpy). Similarly, NOx emissions are small when compared to the Illinois portion of the Chicago C/MSA (1,520 tpy versus 361,762 tpy). Wind rose data suggests prevailing winds come from the southwest and northeast, so Ford county has the potential to be both upwind and downwind of Chicago, depending on the weather. However, with such small emissions compared to the Chicago C/MSA, we believe that Ford county does not contribute to the violations in the Chicago area.		
2000 Population: 14,241	VOC (tpy): 1,815	%drive to work: 4 Chicago--Gary--Kenosha, I
1990-2000 growth: -0.2%	NOx (tpy): 1,520	Wind direction: not considered
2000-2010 growth: -1.3%	1999 Veh. mi. travelled (mln): 126	Topographical features: not considered

Gallatin County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Gallatin County is adjacent to the Evansville, IN C/MSA. There is no monitor in the county. The population is small compared to the C/MSA (6,445 versus 342,815). Estimated growth is small, only a 3.6% increase is expected through 2010. There is no monitor in the county. Wind rose data suggests winds primarily from the southwest, so Gallatin County could be upwind from the C/MSA on certain days, but with VOC emissions of 605 tpy and NOx emissions of 1,130 tpy, we do not believe Gallatin County is contributing to the ozone violations in Evansville.		

2000 Population: 6,445	VOC (tpy): 605	%drive to work: 14 Evansville--Henderson, IN
1990-2000 growth: -6.7%	NOx (tpy): 1,130	Wind direction: not considered
2000-2010 growth: 3.6%	1999 Veh. mi. travelled (mln): 78	Topographical features: not considered

Greene County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Greene County is adjacent to both the St. Louis C/MSA and the St. Louis 1-hour nonattainment area boundary. Wind rose data suggests that the wind primarily comes from the south, so Greene county would be upwind from the St. Louis area on most days. Population for the county is small when compared to the St. Louis C/MSA (14,761 versus 2,698,687). Population growth is projected at a modest 4.1% through 2010. VOC emissions are small compared to VOC emissions for the St. Louis C/MSA (1,074 tpy versus 156,100 tpy). NOx emissions are also small compared to the St. Louis C/MSA (1,464 tpy versus 220,587 tpy). There is no monitor in the county. Based on the data, we do not believe Greene County is contributing to the St. Louis area ozone violations.		
2000 Population: 14,761	VOC (tpy): 1,074	%drive to work: 19 St. Louis, MO--IL MSA
1990-2000 growth: -3.6%	NOx (tpy): 1,464	Wind direction: not considered
2000-2010 growth: 4.1%	1999 Veh. mi. travelled (mln): 126	Topographical features: not considered

Grundy County, Illinois

2004 Designation: Nonattainment		County design value: N/A
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: A portion of Grundy County was included as part of the 1-hour Chicago ozone nonattainment area and is therefore included in the nonattainment area for the 8-hour standard. There is no ozone monitor in Grundy County. Grundy County is a relatively rural county with a relatively small population located on the southwest side of the presumptive nonattainment area. VOC and NOx emissions are low percentages of C/MSA totals (for VOC, Grundy County produces 3,767 tpy versus 395,090 tpy for the Illinois portion of the Chicago C/MSA; for NOx, Grundy County produces 9,304 tpy versus 361,762 tpy for the Illinois portion of the Chicago C/MSA). The population of Grundy County is also a low percentage of the Chicago C/MSA total (37,535 versus over 8,000,000). [For more detailed information, see the DeKalb County analysis, which includes data for Grundy County along with data for other Chicago area "exclusion" counties.] Both population and emissions growth projections are relatively small when compared to that of the Chicago C/MSA, and emissions are projected to become a smaller percentage of the C/MSA totals over the next decade. The State recommended, and we agree, to include the portion of Grundy County that was part of the designated 1-hour nonattainment area as part of the Chicago 8-hour ozone nonattainment area. The remainder of the county is designated attainment.		
2000 Population: 37,535	VOC (tpy): 3,767	%drive to work: 95 Chicago--Gary--Kenosha, I

1990-2000 growth: 16.1%	NOx (tpy): 9,304	Wind direction: not considered
2000-2010 growth: 5.0%	1999 Veh. mi. travelled (mln): 525	Topographical features: not considered

Iroquois County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Iroquois County is located to the south of Chicago, adjacent to the Chicago C/MSA, but not adjacent to the 1-hour nonattainment boundary. The county has a small population when compared to the Chicago area (31,334 versus over 8,000,000). A negative growth rate is expected for the county through the year 2010. VOC emissions are small when compared to the Illinois portion of the Chicago C/MSA (3,071 tpy versus 395,090). NOx emissions for Iroquois County are also small when compared with the Illinois portion of the Chicago C/MSA (4,453 tpy versus 361,762 tpy). There is no monitor in the county. Wind rose data suggests prevailing winds from the southwest and northeast, meaning Iroquois county can be both upwind and downwind from the Chicago C/MSA. Because of the emissions, population, growth, and location, we believe Iroquois County is not contributing to violations in the Chicago area.		
2000 Population: 31,334	VOC (tpy): 3,071	%drive to work: 22 Chicago--Gary--Kenosha, I
1990-2000 growth: 1.8%	NOx (tpy): 4,453	Wind direction: not considered
2000-2010 growth: -5.8%	1999 Veh. mi. travelled (mln): 589	Topographical features: not considered

Jersey County, Illinois

2004 Designation: Nonattainment		County design value: 89
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: This county is violating the 8-hour standard and is part of the presumptive 8-hour ozone nonattainment area. The State recommended that the county be designated nonattainment for the 8-hour standard, and we agree.		
2000 Population: 21,668	VOC (tpy): 1,231	%drive to work: 95 St. Louis, MO--IL MSA
1990-2000 growth: 5.5%	NOx (tpy): 1,829	Wind direction: not considered
2000-2010 growth: 14.3%	1999 Veh. mi. travelled (mln): 196	Topographical features: not considered

Kane County, Illinois

2004 Designation: Nonattainment		County design value: 79
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: This county is part of original 1-hour nonattainment area and a major source area. It is also part of C/MSA that is violating 8-hour ozone standard. This county is part of the State-		

recommended 8-hour ozone nonattainment area, and we agree.		
2000 Population: 404,119	VOC (tpy): 15,455	%drive to work: 99 Chicago--Gary--Kenosha, I
1990-2000 growth: 27.3%	NOx (tpy): 9,875	Wind direction: not considered
2000-2010 growth: 14.3%	1999 Veh. mi. travelled (mln): 839	Topographical features: not considered

Kankakee County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
<p>Justification: Emissions and population are low percentages of C/MSA totals. Emissions, when combined with emissions from other counties considered for exclusion from the Chicago area, are also a small percentage, well under 10 percent, of the C/MSA emission totals for both VOC and NOx. Population/emissions growth projection relatively small compared to that of C/MSA. Emissions will become a smaller percentage of the C/MSA emissions totals over the next decade.</p> <p>No monitored violation of the 8-hour ozone standard.</p> <p>See the detailed technical analysis for DeKalb County, Illinois, which includes consideration of data for Kankakee County, along with data for other "exclusion" counties in the Chicago area.</p>		
2000 Population: 103,833	VOC (tpy): 7,306	%drive to work: 97 Chicago--Gary--Kenosha, I
1990-2000 growth: 7.9%	NOx (tpy): 6,930	Wind direction: not considered
2000-2010 growth: 7.5%	1999 Veh. mi. travelled (mln): 899	Topographical features: not considered

Kendall County, Illinois

2004 Designation: Nonattainment		County design value: N/A
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
<p>Justification: Emissions and population are low percentages of C/MSA totals. Emissions, when combined with emissions from other counties considered for exclusion from the Chicago area, are also a small percentage, well under 10 percent, of the C/MSA emission totals for both VOC and NOx. Population/emissions growth projection relatively small compared to that of C/MSA. Emissions will become a smaller percentage of the C/MSA emissions totals over the next decade.</p> <p>No monitored violation of the 8-hour ozone standard.</p> <p>The portion of the county included in the 8-hour nonattainment area was also a part of the 1-hour nonattainment area.</p> <p>See the detailed data analysis for DeKalb County, Illinois, which includes analysis of the data for Kendall County, along with the data for other "exclusion" counties in the Chicago area.</p>		

2000 Population: 54,544	VOC (tpy): 3,005	%drive to work: 98 Chicago--Gary--Kenosha, I
1990-2000 growth: 38.4%	NOx (tpy): 3,103	Wind direction: not considered
2000-2010 growth: 3.7%	1999 Veh. mi. travelled (mln): 278	Topographical features: not considered

Lake County, Illinois

2004 Designation: Nonattainment		County design value: 87
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: This county is part of original 1-hour nonattainment area and a major source area. Monitored with violation of the 8-hour ozone standard. Part of the State-recommended 8-hour ozone nonattainment area, and we agree.		
2000 Population: 644,356	VOC (tpy): 36,105	%drive to work: 99 Chicago--Gary--Kenosha, I
1990-2000 growth: 24.8%	NOx (tpy): 26,711	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln): 3,434	Topographical features: not considered

La Salle County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: La Salle County is located southwest of the Chicago area, outside both the C/MSA and the 1-hour nonattainment area. There is no monitor in La Salle County. Its population of 111,509 is small when compared to the Chicago C/MSA, which contains over 8 million people. Also, the population is expected to shrink by 1.5 percent through 2010. VOC emissions for the county are low when compared to VOC emissions from the Illinois portion of the Chicago C/MSA (9,183 tpy versus 395,090 tpy). Similarly, NOx emissions are low when compared to the Illinois portion of the Chicago C/MSA (13,581 tpy versus 361,762 tpy). Wind rose data suggests La Salle County is upwind of the Chicago C/MSA, but based on the data, we believe La Salle County is not contributing to the ozone violations in Chicago.		
2000 Population: 111,509	VOC (tpy): 9,183	%drive to work: 18 Chicago--Gary--Kenosha, I
1990-2000 growth: 4.3%	NOx (tpy): 13,581	Wind direction: not considered
2000-2010 growth: -1.5%	1999 Veh. mi. travelled (mln): 1,191	Topographical features: not considered

Lee County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: Small population and emissions (compared with the annual VOC emissions for the Chicago C/MSA, 395,090 tons, and the annual NOx emissions for the Chicago C/MSA, 361,762 tons) with small projected growth during the 2000-2010 period.

Not part of the presumptive nonattainment area/C/MSA.

No monitored violation of the 8-hour ozone standard.

Illinois proposed Lee County as attainment for the 8-hour standard, and based on the data, we agree.

2000 Population: 36,062	VOC (tpy): 4,663	%drive to work: 9 Chicago--Gary--Kenosha, I
1990-2000 growth: 4.8%	NOx (tpy): 4,960	Wind direction: not considered
2000-2010 growth: -1.4%	1999 Veh. mi. travelled (mln): 647	Topographical features: not considered

Livingston County, Illinois

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Small population and emissions (compared with the annual VOC emissions for the Chicago C/MSA, 395,090 tons, and the annual NOx emissions for the Chicago C/MSA, 361,762 tons) with small projected growth.		
No monitored violation of the 8-hour ozone standard, but adjoining Mclean County, which is monitoring attainment of the 8-hour ozone standard.		
Not part of presumptive Chicago nonattainment area/C/MSA.		
Illinois proposed Livingston County as attainment for the 8-hour standard and, based on the data, we agree.		
2000 Population: 39,678	VOC (tpy): 4,190	%drive to work: 7 Chicago--Gary--Kenosha, I
1990-2000 growth: 0.9%	NOx (tpy): 4,911	Wind direction: not considered
2000-2010 growth: -1.3%	1999 Veh. mi. travelled (mln): 533	Topographical features: not considered

McHenry County, Illinois

2004 Designation: Nonattainment	County design value: 84	
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: This county is part of original 1-hour nonattainment area and a major source area. It is part of the Chicago C/MSA, which is violating the 8-hour ozone standard. It is part of the area recommended by the State as nonattainment for the 8-hour ozone standard, and we agree.		
2000 Population: 260,077	VOC (tpy): 9,727	%drive to work: 98 Chicago--Gary--

		Kenosha, I
1990-2000 growth: 41.9%	NOx (tpy): 6,184	Wind direction: not considered
2000-2010 growth: 14.8%	1999 Veh. mi. travelled (mln): 783	Topographical features: not considered

Macoupin County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Macoupin County is adjacent to the St. Louis C/MSA, as well as adjacent to the St. Louis 1-hour nonattainment area. The county is located to the northwest of the St. Louis C/MSA. Macoupin County has a small population when compared to the St. Louis C/MSA (49,019 versus 2,698,687). Growth in the next decade is projected to be 3.8%, which means the county will remain mostly rural through the decade. VOC emissions are small when compared to the St. Louis C/MSA (2,850 tpy versus 156,100 tpy). NOx emissions are also small when compared with the St. Louis C/MSA (3,335 tpy versus 220,857 tpy). Wind rose data suggests prevalent winds from the south, meaning Macoupin is downwind of the St. Louis area. Even so, monitor data shows Macoupin County in attainment. Based on the data, we believe Macoupin County is not contributing to the St. Louis ozone violations.		
2000 Population: 49,019	VOC (tpy): 2,850	%drive to work: 27 St. Louis, MO--IL MSA
1990-2000 growth: 2.8%	NOx (tpy): 3,335	Wind direction: not considered
2000-2010 growth: 3.8%	1999 Veh. mi. travelled (mln): 519	Topographical features: not considered

Madison County, Illinois

2004 Designation: Nonattainment		County design value: 88
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: This county is part of original 1-hour nonattainment area and a major source area. It is part of the St. Louis C/MSA, which is violating the 8-hour ozone standard. It is also part of the area recommended by the State as nonattainment for the 8-hour ozone standard, and we agree.		
2000 Population: 258,941	VOC (tpy): 19,990	%drive to work: 97 St. Louis, MO--IL MSA
1990-2000 growth: 3.9%	NOx (tpy): 39,134	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 2,728	Topographical features: not considered

Marion County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Marion County is Adjacent to the St. Louis C/MSA, but not adjacent to the 1-hour nonattainment area. The county is located to the east of the St. Louis area. Marion County does not		

have a monitor. The population, which is expected to shrink by 5.9% over the decade, is small when compared with the St. Louis C/MSA (41,691 versus 2,698,687). Likewise, VOC emissions are small when compared to the St. Louis C/MSA (4,122 tpy versus 156,100 tpy). NOx emissions are also small when compared to the St. Louis C/MSA (4,099 tpy versus 220,857 tpy). Wind rose data suggests that winds primarily come from the south, so Marion County is downwind from the St. Louis area. Based on this data, we believe Marion County is not contributing to the ozone violations in St. Louis.

2000 Population: 41,691	VOC (tpy): 4,122	%drive to work: 11 St. Louis, MO--IL MSA
1990-2000 growth: 0.3%	NOx (tpy): 4,099	Wind direction: not considered
2000-2010 growth: -5.9%	1999 Veh. mi. travelled (mln): 547	Topographical features: not considered

Monroe County, Illinois

2004 Designation: Nonattainment		County design value: N/A
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: Part of original 1-hour nonattainment area. Part of the St. Louis C/MSA, which is violating the 8-hour ozone standard. Part of the area recommended by the State of Illinois as nonattainment for the 8-hour ozone standard, and we agree.		
2000 Population: 27,619	VOC (tpy): 1,497	%drive to work: 94 St. Louis, MO--IL MSA
1990-2000 growth: 23.2%	NOx (tpy): 2,571	Wind direction: not considered
2000-2010 growth: 12.7%	1999 Veh. mi. travelled (mln): 263	Topographical features: not considered

Montgomery County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Montgomery County is located to the east of the St. Louis area, with a very small portion adjacent to the St. Louis C/MSA. The same portion is also adjacent to the 1-hour nonattainment area. Montgomery County has a population of 30,652, of which, 5% drive to the St. Louis C/MSA daily for work. Almost zero growth (0.2%) is expected through 2010. VOC emissions are small when compared to VOC emissions from the St. Louis C/MSA (2,677 tpy versus 156,100 tpy). Although NOx emissions are greater than VOC emissions (30,523 tpy NOx), they are still small when compared with the NOx emissions from the St. Louis C/MSA (220,857 tpy). Moreover, wind rose data suggests winds primarily from the south. Based on this data, we believe Montgomery County is not contributing to the ozone violations in St. Louis.		
2000 Population: 30,652	VOC (tpy): 2,677	%drive to work: 5 St. Louis, MO--IL MSA
1990-2000 growth: -0.2%	NOx (tpy): 30,523	Wind direction: not considered
2000-2010 growth: 0.2%	1999 Veh. mi. travelled (mln): 454	Topographical features: not considered

Ogle County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Rockford, IL		
<p>Justification: Ogle County is west of the Chicago area, adjacent to the Chicago C/MSA, but not adjacent to the 1-hour nonattainment area. In fact, Ogle County is part of the Rockford, IL C/MSA. There is no monitor in this county, but the county is next to a Winnebago County, which has a monitor showing attainment. Ogle county has a small population compared with the Illinois portion of the Chicago C/MSA (51,032 versus over 8 million). This population is expected to decrease by 4.7% through 2010. VOC emissions are low when compared to the Illinois portion of the Chicago C/MSA (5,674 tpy versus 395,090 tpy). NOx emissions are also low when compared to the Illinois portion of the Chicago C/MSA (5,207 tpy versus 361,762 tpy). Wind rose data for the area shows that winds come primarily from the southwest and northeast, which puts Ogle County both upwind and downwind of the Chicago area, but based on the location of Ogle county, winds would blow more toward and from Milwaukee. Based on the data, we believe that Ogle County is not contributing to ozone violations in the Chicago area.</p>		
2000 Population: 51,032	VOC (tpy): 5,674	%drive to work: 10 Chicago--Gary--Kenosha, I
1990-2000 growth: 11.0%	NOx (tpy): 5,207	Wind direction: not considered
2000-2010 growth: -4.7%	1999 Veh. mi. travelled (mln): 623	Topographical features: not considered

Randolph County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: 79
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Randolph County is adjacent to the St. Louis C/MSA, and 1-hour nonattainment area, located to the southeast of the C/MSA. The monitor in Randolph County shows a 2002 design value of 79 ppb. The population of the county is small when compared with the St. Louis C/MSA (33,893 versus 2,698,687). The expected population growth is 0.5% through 2010. VOC emissions from the county are small compared to the VOC emissions from the St. Louis C/MSA (2,425 tpy versus 156,100 tpy). Although it is a larger amount, Randolph County's 59,710 tpy NOx represents the county's 1999 base year inventory. The vast majority of NOx emissions in Randolph County come from the Baldwin power plant, which, as of 2001, has reduced NOx emissions to 29,389 tpy by installing controls. Wind rose data suggests that winds come primarily from the south and southwest. Based on the data, we believe Randolph County does not contribute to ozone violations in St. Louis.</p>		
2000 Population: 33,893	VOC (tpy): 2,425	%drive to work: 20 St. Louis, MO--IL MSA
1990-2000 growth: -2.0%	NOx (tpy): 59,710	Wind direction: not considered
2000-2010 growth: 0.5%	1999 Veh. mi. travelled (mln): 278	Topographical features: not considered

St. Clair County, Illinois

2004 Designation: Nonattainment		County design value: 83
Area: St. Louis, MO-IL		

MSA or CMSA: St Louis, MO-IL		
Justification: This county is part of original 1-hour nonattainment area and a major source area. It is part of the St. Louis C/MSA, which is violating the 8-hour ozone standard. It is also part of the area the State of Illinois has recommended as nonattainment for the 8-hour ozone standard, and we agree.		
2000 Population: 256,082	VOC (tpy): 14,276	%drive to work: 98 St. Louis, MO--IL MSA
1990-2000 growth: -2.6%	NOx (tpy): 12,630	Wind direction: not considered
2000-2010 growth: 17.0%	1999 Veh. mi. travelled (mln): 2,816	Topographical features: not considered

Washington County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Washington County, located southeast of St. Louis, is adjacent to the St. Louis C/MSA. It is also adjacent to the 1-hour nonattainment area. There is no monitor in this county. Although the projected growth of Washington County is 10.9% by 2010, the current population is still small when compared to the St. Louis C/MSA (15,148 versus 2,698,687). Even with 10.9% growth, the population is still small when compared to the St. Louis C/MSA. Likewise, VOC and NOx emissions are also small when compared to the St. Louis C/MSA (1,617 tpy VOC versus 156,100 tpy for the St. Louis C/MSA and 2,202 tpy NOx versus 220,857 tpy for the St. Louis C/MSA). Wind rose data suggests that Washington County is neither upwind nor downwind of the St. Louis C/MSA. Based on the data, we believe that Washington County is not contributing to ozone violations in the St. Louis area.		
2000 Population: 15,148	VOC (tpy): 1,617	%drive to work: 21 St. Louis, MO--IL MSA
1990-2000 growth: 1.2%	NOx (tpy): 2,202	Wind direction: not considered
2000-2010 growth: 10.9%	1999 Veh. mi. travelled (mln): 319	Topographical features: not considered

White County, Illinois

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: We are designating Henderson County as Attainment/Unclassifiable. It is outside but adjacent to the Evansville, Indiana C/MSA. It does not have an ozone monitor and is located adjacent to a county that is monitoring attainment. The county has low emissions and a small population.		
2000 Population: 15,371	VOC (tpy): 1,348	%drive to work: 15 Evansville--Henderson, IN
1990-2000 growth: -7.0%	NOx (tpy): 1,448	Wind direction: not considered
2000-2010 growth: -6.1%	1999 Veh. mi. travelled (mln): 243	Topographical features: not considered

Will County, Illinois

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2004 Designation: Nonattainment		County design value: 79
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: This county is part of original 1-hour nonattainment area and a major source area. It is part of the Chicago C/MSA, which is violating the 8-hour ozone standard. It is also part of the area the State of Illinois has recommended as nonattainment of the 8-hour ozone standard, and we agree.		
2000 Population: 502,266	VOC (tpy): 21,199	%drive to work: 99 Chicago--Gary--Kenosha, I
1990-2000 growth: 40.6%	NOx (tpy): 53,958	Wind direction: not considered
2000-2010 growth: 21.3%	1999 Veh. mi. travelled (mln): 2,106	Topographical features: not considered

Adams County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A																												
Area: - attainment -																														
MSA or CMSA: Fort Wayne, IN																														
<p>Justification: IDEM submitted information to show that the Counties surrounding Allen County in the Fort Wayne MSA are very rural with low emissions. IDEM submitted population density maps and roadway maps and commuting information to support their contention that only Allen County be nonattainment. The maps clearly show the rural nature of the surrounding counties with little development even on the outskirts of Allen County.</p>																														
<table> <thead> <tr> <th>county</th> <th>1999 VOC (tpy)</th> <th>1999 NOx (tpy)</th> <th>2000 Population</th> </tr> </thead> <tbody> <tr> <td>Allen</td> <td>25,141</td> <td>17,843</td> <td>331,849</td> </tr> <tr> <td>De Kalb</td> <td>4,732</td> <td>4,978</td> <td>40,285</td> </tr> <tr> <td>Huntington</td> <td>4,530</td> <td>3,812</td> <td>38,075</td> </tr> <tr> <td>Wells</td> <td>2,314</td> <td>1,781</td> <td>27,600</td> </tr> <tr> <td>Whitley</td> <td>2,826</td> <td>2,331</td> <td>30,707</td> </tr> <tr> <td>Adams</td> <td>3,610</td> <td>2,572</td> <td>33,625</td> </tr> </tbody> </table>			county	1999 VOC (tpy)	1999 NOx (tpy)	2000 Population	Allen	25,141	17,843	331,849	De Kalb	4,732	4,978	40,285	Huntington	4,530	3,812	38,075	Wells	2,314	1,781	27,600	Whitley	2,826	2,331	30,707	Adams	3,610	2,572	33,625
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Allen	25,141	17,843	331,849																											
De Kalb	4,732	4,978	40,285																											
Huntington	4,530	3,812	38,075																											
Wells	2,314	1,781	27,600																											
Whitley	2,826	2,331	30,707																											
Adams	3,610	2,572	33,625																											

The analysis of all counties in the Fort Wayne MSA determined that Adams County was not a significant contributor to nonattainment because the emissions and population are low. In addition, 81% of the workforce in Adams County works within Adams County.

2000 Population: 33,625	VOC (tpy): 3,610	%drive to work: 95 Fort Wayne, IN MSA
1990-2000 growth: 8.1%	NOx (tpy): 2,572	Wind direction: not considered
2000-2010 growth: 4.9%	1999 Veh. mi. travelled (mln): 365	Topographical features: not considered

Allen County, Indiana

2004 Designation: Nonattainment		County design value: 88
Area: Fort Wayne, IN		
MSA or CMSA: Fort Wayne, IN		
Justification: This county contains a violating monitor. It contains the highest population and emissions in the MSA. The central city of Fort Wayne is located in this county. Indiana recommended nonattainment and EPA agrees.		
2000 Population: 331,849	VOC (tpy): 25,141	%drive to work: 97 Fort Wayne, IN MSA
1990-2000 growth: 10.3%	NOx (tpy): 17,843	Wind direction: not considered
2000-2010 growth: 1.0%	1999 Veh. mi. travelled (mln): 3,254	Topographical features: not considered

Bartholomew County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Low population and emissions for this particular area. County located outside of the presumptive nonattainment area. Therefore we agree with the State's recommendation that this county be designated attainment.		
2000 Population: 71,435	VOC (tpy): 7,403	%drive to work: 8 Indianapolis, IN MSA
1990-2000 growth: 12.2%	NOx (tpy): 5,539	Wind direction: not considered
2000-2010 growth: 3.8%	1999 Veh. mi. travelled (mln): 929	Topographical features: not considered

Blackford County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county contains low population and emissions. It is also a very rural area. This county is outside of the presumptive nonattainment area. EPA agrees with the State's recommendation that this county be designated attainment.		

2000 Population: 14,048	VOC (tpy): 1,547	%drive to work: 13 Fort Wayne, IN MSA
1990-2000 growth: -0.1%	NOx (tpy): 917	Wind direction: not considered
2000-2010 growth: -0.5%	1999 Veh. mi. travelled (mln): 120	Topographical features: not considered

Boone County, Indiana

2004 Designation: Nonattainment		County design value: 90
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: This county contains a violating monitor. It is part of the Indianapolis MSA. Indiana recommended the county as nonattainment and we are including it as part of the designated nonattainment area.		
2000 Population: 46,107	VOC (tpy): 4,017	%drive to work: 94 Indianapolis, IN MSA
1990-2000 growth: 20.9%	NOx (tpy): 3,642	Wind direction: not considered
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 706	Topographical features: not considered

Brown County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county contains low population and emissions and thus would not be contributing to violations in other counties. There is no monitor in the county. This county is outside of the presumptive nonattainment area. EPA agrees with the State's recommendation that this county be designated nonattainment.		
2000 Population: 14,957	VOC (tpy): 1,340	%drive to work: 29 Indianapolis, IN MSA
1990-2000 growth: 6.2%	NOx (tpy): 924	Wind direction: not considered
2000-2010 growth: 19.2%	1999 Veh. mi. travelled (mln): 216	Topographical features: not considered

Clark County, Indiana

2004 Designation: Nonattainment		County design value: 92
Area: Louisville, KY-IN		
MSA or CMSA: Louisville, KY-IN		
Justification: Violating monitor. Part of the 1-hour ozone area. This county is included as part of the designated nonattainment area.		
2000 Population: 96,472	VOC (tpy): 7,310	%drive to work: 97 Louisville, KY--IN MSA
1990-2000 growth:	NOx (tpy): 5,286	Wind direction: not considered

9.9%		
2000-2010 growth: 5.8%	1999 Veh. mi. travelled (mln): 1,233	Topographical features: not considered

Clay County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Terre Haute, IN		
Justification: The Vigo County monitor in the Terre Haute MSA has 3 years of data showing nonattainment. Indiana deferred a recommendation in the July 15, 2003, letter and recommended just Vigo County in the October supplement. Vigo has 13,155 tpy of VOCs and 17,175 tpy of NOx and a population of 103,890. Clay and Vermillion Counties are in the MSA. Clay has only 2,649 tpy of VOC emissions from anthropogenic sources, 2,154 tpy of NOx from anthropogenic sources, and a population of 27,152. Clay is primarily rural with a population density of 52 persons per square mile. Vigo County contains the central city of Terre Haute.		
2000 Population: 26,556	VOC (tpy): 2,649	%drive to work: 1 Bloomington, IN MSA
1990-2000 growth: 7.5%	NOx (tpy): 2,154	Wind direction: not considered
2000-2010 growth: 5.8%	1999 Veh. mi. travelled (mln): 372	Topographical features: not considered

Clinton County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Lafayette, IN		
Justification: The county contains low population and emissions for this area. This county is outside of the presumptive nonattainment area. The predominant wind direction is from the south/southwest so we believe that emissions in this county do not contribute to the violations in this area. Therefore, EPA agrees with the State's recommendation that this county be designated attainment.		
2000 Population: 33,866	VOC (tpy): 3,180	%drive to work: 11 Indianapolis, IN MSA
1990-2000 growth: 9.3%	NOx (tpy): 2,726	Wind direction: not considered
2000-2010 growth: 7.7%	1999 Veh. mi. travelled (mln): 450	Topographical features: not considered

Crawford County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Crawford County is located outside, but adjacent to, the presumptive Louisville nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual VOC emissions for the Louisville C/MSA, 395,090 tons, and the annual NOx emissions for the Louisville area. The population is relatively low and minimal growth is		

expected during the 2000-2010 period. We do not believe that Crawford County is contributing to the violations in the Louisville area.

2000 Population: 10,743	VOC (tpy): 1,295	%drive to work: 38 Louisville, KY--IN MSA
1990-2000 growth: 8.4%	NOx (tpy): 3,906	Wind direction: not considered
2000-2010 growth: 0.6%	1999 Veh. mi. travelled (mln): 290	Topographical features: not considered

Daviess County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The county is located outside the presumptive Bloomington, IN, nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions. The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Daviess County is contributing to the violations in the Bloomington area.		
2000 Population: 29,820	VOC (tpy): 2,247	%drive to work: 1 Bloomington, IN MSA
1990-2000 growth: 8.3%	NOx (tpy): 1,629	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 279	Topographical features: not considered

Dearborn County, Indiana

2004 Designation: Nonattainment		County design value: N/A
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: EPA had originally recommended a full county nonattainment area. The final designation is a partial county nonattainment area to include the Lawrenceburg township. This township will cover the primary major sources within the county including the Tanners Creek Power plant. This area is also an outgrowth of the Cincinnati area and there is a high growth rate in the area. This county does not contain a monitor but EPA believes that the county contributes to the nonattainment area.		
2000 Population: 46,109	VOC (tpy): 3,754	%drive to work: 90 Cincinnati--Hamilton, OH-
1990-2000 growth: 18.7%	NOx (tpy): 39,275	Wind direction: not considered
2000-2010 growth: 22.9%	1999 Veh. mi. travelled (mln): 580	Topographical features: not considered

Decatur County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Decatur County is located outside, but adjacent to, the presumptive Indianapolis		

nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual VOC emissions for the Indianapolis MSA, 106,105 tons, and the annual NOx emissions for the Indianapolis MSA, 106,717 tons. The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Decatur County is contributing to the violations in the Indianapolis area.

2000 Population: 24,555	VOC (tpy): 4,114	%drive to work: 8 Indianapolis, IN MSA
1990-2000 growth: 3.8%	NOx (tpy): 2,651	Wind direction: not considered
2000-2010 growth: 14.3%	1999 Veh. mi. travelled (mln): 508	Topographical features: not considered

De Kalb County, Indiana

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: Fort Wayne, IN		
<p>Justification: IDEM submitted information to show that the Counties surrounding Allen County in the Fort Wayne MSA are very rural with low emissions. IDEM submitted population density maps and roadway maps and commuting information to support their contention that only Allen County be nonattainment. The maps clearly show the rural nature of the surrounding counties with little development even on the outskirts of Allen County.</p> <p>DeKalb is downwind of the City of Fort Wayne and the violating monitor and thus is not expected to contribute to the ozone violations in Allen County. See justification for Adams County for table of emissions and population. DeKalb County is relatively low in emissions and population compared to Allen County.</p>		
2000 Population: 40,285	VOC (tpy): 4,732	%drive to work: 85 Fort Wayne, IN MSA
1990-2000 growth: 14.0%	NOx (tpy): 4,978	Wind direction: not considered
2000-2010 growth: 8.9%	1999 Veh. mi. travelled (mln): 594	Topographical features: not considered

Delaware County, Indiana

2004 Designation: Nonattainment	County design value: 88	
Area: Muncie, IN		
MSA or CMSA: Muncie, IN		
Justification: This county contains a violating monitor. It is its own C/MSA. We are designating this		

county as nonattainment.		
2000 Population: 118,769	VOC (tpy): 10,442	%drive to work: 9 Indianapolis, IN MSA
1990-2000 growth: -0.7%	NOx (tpy): 6,675	Wind direction: not considered
2000-2010 growth: -1.1%	1999 Veh. mi. travelled (mln): 1,215	Topographical features: not considered

Dubois County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Dubois County is located outside, but adjacent to, the presumptive Evansville nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Evansville MSA of 28,364 tons (VOC) and 65,553 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Decatur County is contributing to the violations in the Evansville area.		
2000 Population: 39,674	VOC (tpy): 6,560	%drive to work: 1 Evansville--Henderson, IN
1990-2000 growth: 8.3%	NOx (tpy): 5,515	Wind direction: not considered
2000-2010 growth: 5.0%	1999 Veh. mi. travelled (mln): 467	Topographical features: not considered

Elkhart County, Indiana

2004 Designation: Nonattainment		County design value: N/A
Area: South Bend-Elkhart, IN		
MSA or CMSA: Elkhart-Goshen, IN		
Justification: This county contains a violating monitor. There are significant population and emissions for this area. We are designating this county as part of the 8-hour nonattainment area.		
2000 Population: 182,791	VOC (tpy): 22,101	%drive to work: 5 South Bend, IN MSA
1990-2000 growth: 17.0%	NOx (tpy): 12,911	Wind direction: not considered
2000-2010 growth: 3.8%	1999 Veh. mi. travelled (mln): 2,045	Topographical features: not considered

Floyd County, Indiana

2004 Designation: Nonattainment		County design value: 86
Area: Louisville, KY-IN		
MSA or CMSA: Louisville, KY-IN		
Justification: This county contains a violation with 2003 data. It was part of the 1-hour Louisville ozone area. We are designating this county as part of the nonattainment area.		
2000 Population: 70,823	VOC (tpy): 4,897	%drive to work: 98 Louisville, KY--IN MSA

1990-2000 growth: 10.0%	NOx (tpy): 10,765	Wind direction: not considered
2000-2010 growth: 12.8%	1999 Veh. mi. travelled (mln): 826	Topographical features: not considered

Franklin County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Franklin County is located outside, but adjacent to, the presumptive Cincinnati nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Cincinnati MSA of 119,677 tons (VOC) and 252,179 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Franklin County is contributing to the violations in the Cincinnati area.		
2000 Population: 22,151	VOC (tpy): 1,680	%drive to work: 29 Cincinnati-- Hamilton, OH-
1990-2000 growth: 13.1%	NOx (tpy): 1,446	Wind direction: not considered
2000-2010 growth: 8.8%	1999 Veh. mi. travelled (mln): 296	Topographical features: not considered

Gibson County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: 73
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Indiana deferred a decision on the Evansville area in the July 15, 2003, recommendation letter. In the October 7, 2003 letter, Indiana notes that only one County (Warrick) is violating the 8 hour ozone standard with 85 ppb. Indiana makes a case that the Evansville area is heavily impacted by regional transport and expected to meet the health standard when the State NOx regulations are fully implemented. There are 4 Counties in the MSA; Vanderburgh, Warrick, Posey Counties in Indiana and Henderson County which is in Kentucky. Henderson has a higher population than Posey County, IN and has comparable emissions.</p> <p>Kentucky has recommended Henderson County as attainment and has submitted wind back trajectories to show Henderson has minimal impacts on Posey County. Posey County was violating with 2000-2002 data but with the 2001-2003 data Posey is just below the standard and now Warrick County is violating.</p> <p>For 2001-2003 only Warrick County is monitoring nonattainment with an 85. For 2000-2002 Posey County was the only county violating with an 87. Indiana recommended that only Warrick County be nonattainment in the October 7, 2003, supplemental letter. However, Vanderburgh County clearly has the highest population and emissions of all the counties in the MSA and would be contributing to the nonattainment problem. A chart of the emissions and population for the counties in the MSA is provided below.</p>		

county 1999 VOC (tpy) 1999 NOx(tpy) 2000 Population

Posey, IN 4,701 15,927 27,061

Vanderburgh, IN 13,819 10,121 171,922

Warrick, IN 5,078 31,131 52,383

Henderson, KY 4,766 8,375 44,829

Adjacent to C/MSA

Gibson, IN 3,691 52,449 32,500

The Gibson County Monitor shows attainment. Gibson County is outside of the MSA. Gibson County is low in VOC emissions however it has high NOx emissions from one power plant. By including Vanderburgh and Warrick in the nonattainment area, we include the majority of the population and VOC emissions. Predominate wind directions is from the south/southwest.

2000 Population: 32,500	VOC (tpy): 3,691	%drive to work: 28 Evansville-- Henderson, IN
1990-2000 growth: 1.8%	NOx (tpy): 52,449	Wind direction: not considered
2000-2010 growth: 1.1%	1999 Veh. mi. travelled (mln): 417	Topographical features: not considered

Grant County, Indiana

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Grant County is located outside, but adjacent to, the presumptive Indianapolis nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Cincinnati MSA of 106,103 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Grant County is contributing to the violations in the Indianapolis area.		
2000 Population: 73,403	VOC (tpy): 6,386	%drive to work: 3 Indianapolis, IN MSA
1990-2000 growth: -1.0%	NOx (tpy): 5,457	Wind direction: not considered
2000-2010 growth: -1.4%	1999 Veh. mi. travelled (mln): 922	Topographical features: not considered

Greene County, Indiana

2004 Designation: Nonattainment	County design value: 88	
Area: Greene Co., IN		
MSA or CMSA: - outside -		
Justification: This county contains a violating monitor so EPA is designating it as nonattainment.		

2000 Population: 33,157	VOC (tpy): 3,055	%drive to work: 25 Bloomington, IN MSA
1990-2000 growth: 9.0%	NOx (tpy): 2,136	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 389	Topographical features: not considered

Hamilton County, Indiana

2004 Designation: Nonattainment		County design value: 96
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: The county contains a violating monitor based on data from 2001-2003 and is part of the Indianapolis MSA. Indiana recommended nonattainment and EPA agrees.		
2000 Population: 182,740	VOC (tpy): 9,969	%drive to work: 95 Indianapolis, IN MSA
1990-2000 growth: 67.7%	NOx (tpy): 10,302	Wind direction: not considered
2000-2010 growth: 14.0%	1999 Veh. mi. travelled (mln): 1,725	Topographical features: not considered

Hancock County, Indiana

2004 Designation: Nonattainment		County design value: 94
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: Contains a violating monitor based on data from 2001-2003 and is part of the Indianapolis MSA with significant commuting. Indiana recommended nonattainment and EPA agrees.		
2000 Population: 55,391	VOC (tpy): 4,232	%drive to work: 96 Indianapolis, IN MSA
1990-2000 growth: 21.7%	NOx (tpy): 4,105	Wind direction: not considered
2000-2010 growth: 12.6%	1999 Veh. mi. travelled (mln): 698	Topographical features: not considered

Harrison County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Louisville, KY-IN		
Justification: We agree with Indiana's recommendation of attainment for this county. Harrison County has 2,735 tpy of VOCs (3% of the MSA) and 3,817 tpy of NOx (3% of the MSA) and a population of 34,325 (3% of the MSA). Harrison County has a low percentage of the emissions and population for this area and is not part of the 1-hour ozone area. Indiana recommended attainment for Harrison County and we agree with the recommendation.		
2000 Population: 34,325	VOC (tpy): 2,735	%drive to work: 94 Louisville, KY--IN MSA

1990-2000 growth: 14.8%	NOx (tpy): 3,817	Wind direction: not considered
2000-2010 growth: 16.9%	1999 Veh. mi. travelled (mln): 502	Topographical features: not considered

Hendricks County, Indiana

2004 Designation: Nonattainment		County design value: 85
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: This county contains a violating monitor and is part of the Indianapolis MSA with significant population and commuting for this area. Indiana recommended nonattainment for this County and EPA agrees with the recommendation.		
2000 Population: 104,093	VOC (tpy): 5,774	%drive to work: 97 Indianapolis, IN MSA
1990-2000 growth: 37.5%	NOx (tpy): 6,134	Wind direction: not considered
2000-2010 growth: 10.8%	1999 Veh. mi. travelled (mln): 1,187	Topographical features: not considered

Henry County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Henry County is located outside, but adjacent to, the presumptive Indianapolis nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Cincinnati MSA of 106,103 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Grant County is contributing to the violations in the Indianapolis area.		
2000 Population: 48,508	VOC (tpy): 4,450	%drive to work: 27 Indianapolis, IN MSA
1990-2000 growth: 0.8%	NOx (tpy): 4,092	Wind direction: not considered
2000-2010 growth: 3.4%	1999 Veh. mi. travelled (mln): 743	Topographical features: not considered

Huntington County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: Fort Wayne, IN		
Justification: IDEM submitted information to show that the Counties surrounding Allen County in the Fort Wayne MSA are very rural with low emissions. IDEM submitted population density maps and roadway maps and commuting		

information to support their contention that only Allen County be nonattainment. The maps clearly show the rural nature of the surrounding counties with little development even on the outskirts of Allen County. A table of the emissions and population for all counties in the MSA is in the Adams County justification.

Indiana submitted additional information to support excluding Huntington County from the Fort Wayne designation. Huntington is monitoring attainment of the 8 hour ozone standard. It does not contain any portion of the Fort Wayne urbanized area. Huntington is primarily rural with a population density of 99.5 persons per square mile and is not expected to contribute significantly to the violation in Allen County. IDEM submitted additional information on Huntington County and growth restrictions in Allen County.

2000 Population: 38,075	VOC (tpy): 4,530	%drive to work: 93 Fort Wayne, IN MSA
1990-2000 growth: 7.5%	NOx (tpy): 3,812	Wind direction: not considered
2000-2010 growth: 4.6%	1999 Veh. mi. travelled (mln): 616	Topographical features: not considered

Jackson County, Indiana

2004 Designation: Nonattainment		County design value: 85
Area: Jackson Co., IN		
MSA or CMSA: - outside -		
Justification: The county contains a violating monitor and EPA is designating it as nonattainment.		
2000 Population: 41,335	VOC (tpy): 4,815	%drive to work: 0 Bloomington, IN MSA
1990-2000 growth: 9.6%	NOx (tpy): 3,598	Wind direction: not considered
2000-2010 growth: 9.5%	1999 Veh. mi. travelled (mln): 652	Topographical features: not considered

Jasper County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Jasper County is located outside, but adjacent to, the presumptive Chicago-Gary nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual VOC emissions for the Chicago C/MSA, 395,090 tons, and the annual NOx emissions for the Chicago C/MSA, 361,762 tons. The population is low and relatively low growth is expected during the 2000-2010 period. We do not believe that Jasper County is contributing to the violations in the Chicago-Gary area.		
2000 Population: 30,043	VOC (tpy): 4,186	%drive to work: 29 Chicago--Gary--

		Kenosha, I
1990-2000 growth: 20.4%	NOx (tpy): 33,027	Wind direction: not considered
2000-2010 growth: 9.0%	1999 Veh. mi. travelled (mln): 680	Topographical features: not considered

Jay County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Jay County is located outside, but adjacent to, the presumptive Fort Wayne nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Fort Wayne MSA of 43,154 tons (VOC) and 33,317 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Jay County is contributing to the violations in the Fort Wayne area.		
2000 Population: 21,806	VOC (tpy): 1,998	%drive to work: 17 Fort Wayne, IN MSA
1990-2000 growth: 1.4%	NOx (tpy): 1,756	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 235	Topographical features: not considered

Jefferson County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Jefferson County is located outside, but adjacent to, the presumptive Louisville nonattainment area. There is no monitor in the county. The county has low VOC emissions as compared with the annual emissions for the Louisville MSA of 84,411 tons (VOC), and NOx emissions are moderate compared to the annual emissions for the Louisville MSA of 118,922 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Jefferson County is contributing to the violations in the Louisville area.		
2000 Population: 31,705	VOC (tpy): 2,935	%drive to work: 7 Louisville, KY--IN MSA
1990-2000 growth: 6.4%	NOx (tpy): 35,958	Wind direction: not considered
2000-2010 growth: 8.1%	1999 Veh. mi. travelled (mln): 323	Topographical features: not considered

Jennings County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Jennings County is located outside, but adjacent to, the presumptive Louisville nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Louisville MSA of 84,411 tons (VOC) and 118,922		

tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Jefferson County is contributing to the violations in the Louisville area.

2000 Population: 27,554	VOC (tpy): 2,296	%drive to work: 1 Louisville, KY--IN MSA
1990-2000 growth: 16.4%	NOx (tpy): 1,705	Wind direction: not considered
2000-2010 growth: 15.3%	1999 Veh. mi. travelled (mln): 339	Topographical features: not considered

Johnson County, Indiana

2004 Designation: Nonattainment		County design value: 86
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: Johnson County is part of the Indianapolis MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating Johnson County as part of the Indianapolis nonattainment area.		
2000 Population: 115,209	VOC (tpy): 7,725	%drive to work: 95 Indianapolis, IN MSA
1990-2000 growth: 30.8%	NOx (tpy): 5,447	Wind direction: not considered
2000-2010 growth: 11.6%	1999 Veh. mi. travelled (mln): 1,293	Topographical features: not considered

Knox County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Knox County is not in or adjacent to any violating metropolitan area. There is no monitor in the county. The county has low VOC and NOx emissions as compared, for example, with the annual emissions for the Evansville MSA of 28,364 tons (VOC) and 65,553 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Jefferson County is contributing to the violations in any nonattainment area.		
2000 Population: 39,256	VOC (tpy): 3,646	%drive to work: 0 Bloomington, IN MSA
1990-2000 growth: -1.6%	NOx (tpy): 5,678	Wind direction: not considered
2000-2010 growth: 5.2%	1999 Veh. mi. travelled (mln): 407	Topographical features: not considered

Kosciusko County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Kosciusko County is located outside, but adjacent to, the presumptive Fort Wayne nonattainment area. A monitor in the county is showing attainment. The county has low VOC and		

NOx emissions as compared with the annual emissions for the Fort Wayne MSA of 43,154 tons (VOC) and 33,317 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Kosciusko County is contributing to the violations in the Fort Wayne area.

2000 Population: 74,057	VOC (tpy): 7,372	%drive to work: 4 Fort Wayne, IN MSA
1990-2000 growth: 13.4%	NOx (tpy): 5,624	Wind direction: not considered
2000-2010 growth: 4.1%	1999 Veh. mi. travelled (mln): 862	Topographical features: not considered

LaGrange County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Lagrange County is located outside, but adjacent to, the presumptive St. Joseph-Elkhart nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the South Bend-Elkhart MSAs of 41,701 tons (VOC) and 27,245 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Lagrange County is contributing to the violations in the South Bend-Elkhart area.		
2000 Population: 34,909	VOC (tpy): 4,423	%drive to work: 1 South Bend, IN MSA
1990-2000 growth: 18.4%	NOx (tpy): 3,423	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 592	Topographical features: not considered

Lake County, Indiana

2004 Designation: Nonattainment		County design value: 90
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: We are designating Lake County as part of the Chicago-Gary-Lake County nonattainment area. This county was included in the 1-hour nonattainment area. Lake County Indiana is violating the 8 hour ozone standard and is monitoring a design value of 90 with the 2001-2003 monitoring data. The State recommended Lake County as nonattainment and we agree with the State.		
2000 Population: 484,564	VOC (tpy): 36,195	%drive to work: 97 Chicago--Gary--Kenosha, I
1990-2000 growth: 1.9%	NOx (tpy): 71,834	Wind direction: not considered
2000-2010 growth: 2.5%	1999 Veh. mi. travelled (mln): 4,769	Topographical features: not considered

La Porte County, Indiana

2004 Designation: Nonattainment		County design value: 93
Area: La Porte Co., IN		

MSA or CMSA: - outside -		
Justification: We are designating La Porte County as part of the Chicago-Gary-Lake County nonattainment area. There is a violating monitor in the county.		
2000 Population: 110,106	VOC (tpy): 10,873	%drive to work: 15 Chicago--Gary--Kenosha, I
1990-2000 growth: 2.8%	NOx (tpy): 16,569	Wind direction: not considered
2000-2010 growth: 1.8%	1999 Veh. mi. travelled (mln): 1,465	Topographical features: not considered

Lawrence County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Lawrence County is located outside, but adjacent to, the presumptive Bloomington, IN, nonattainment area. A monitor in the county shows attainment. The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Lawrence County is contributing to the violations in the Bloomington area.		
2000 Population: 45,922	VOC (tpy): 3,379	%drive to work: 19 Bloomington, IN MSA
1990-2000 growth: 7.2%	NOx (tpy): 5,559	Wind direction: not considered
2000-2010 growth: 6.8%	1999 Veh. mi. travelled (mln): 514	Topographical features: not considered

Madison County, Indiana

2004 Designation: Nonattainment		County design value: 95
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: Madison County is part of the Indianapolis MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating Madison County as part of the Indianapolis nonattainment area.		
2000 Population: 133,358	VOC (tpy): 9,583	%drive to work: 91 Indianapolis, IN MSA
1990-2000 growth: 2.0%	NOx (tpy): 8,182	Wind direction: not considered
2000-2010 growth: 0.2%	1999 Veh. mi. travelled (mln): 1,479	Topographical features: not considered

Marion County, Indiana

2004 Designation: Nonattainment		County design value: 92
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: Marion County is part of the Indianapolis MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating Marion County as part		

of the Indianapolis nonattainment area.		
2000 Population: 860,454	VOC (tpy): 55,852	%drive to work: 98 Indianapolis, IN MSA
1990-2000 growth: 7.9%	NOx (tpy): 54,628	Wind direction: not considered
2000-2010 growth: -2.6%	1999 Veh. mi. travelled (mln): 9,263	Topographical features: not considered

Marshall County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Marshall County is located outside, but adjacent to, the presumptive South Bend-Elkhart nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the South Bend-Elkhart MSAa of 41,701 tons (VOC) and 27,245 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Marshall County is contributing to the violations in the South Bend-Elkhart area.		
2000 Population: 45,128	VOC (tpy): 6,066	%drive to work: 15 South Bend, IN MSA
1990-2000 growth: 7.0%	NOx (tpy): 3,717	Wind direction: not considered
2000-2010 growth: 7.4%	1999 Veh. mi. travelled (mln): 548	Topographical features: not considered

Martin County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Martin County is located outside and not adjacent to any presumptive nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared, for example, with the annual emissions for the Evansville MSA of 28,364 tons (VOC) and 65,553 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Martin County is contributing to the violations in any nonattainment area.		
2000 Population: 10,369	VOC (tpy): 927	%drive to work: 3 Bloomington, IN MSA
1990-2000 growth: 0.0%	NOx (tpy): 834	Wind direction: not considered
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 105	Topographical features: not considered

Monroe County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Bloomington, IN		

Justification: Monroe County is downwind of the violation in Greene County. Prevailing winds are from the south/southwest so the county does not contribute to the Greene county nonattainment area.

2000 Population: 120,563	VOC (tpy): 7,486	%drive to work: 89 Bloomington, IN MSA
1990-2000 growth: 10.6%	NOx (tpy): 5,047	Wind direction: not considered
2000-2010 growth: 4.6%	1999 Veh. mi. travelled (mln): 1,000	Topographical features: not considered

Montgomery County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Montgomery County is located outside, but adjacent to, the presumptive Indianapolis nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Indianapolis MSA of 106,105 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Montgomery County is contributing to the violations in the Indianapolis area.		
2000 Population: 37,629	VOC (tpy): 4,530	%drive to work: 9 Indianapolis, IN MSA
1990-2000 growth: 9.3%	NOx (tpy): 4,058	Wind direction: not considered
2000-2010 growth: 1.8%	1999 Veh. mi. travelled (mln): 644	Topographical features: not considered

Morgan County, Indiana

2004 Designation: Nonattainment		County design value: 85
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: Morgan County is part of the Indianapolis MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating Morgan County as part of the Indianapolis nonattainment area.		
2000 Population: 66,689	VOC (tpy): 4,399	%drive to work: 94 Indianapolis, IN MSA
1990-2000 growth: 19.3%	NOx (tpy): 7,909	Wind direction: not considered
2000-2010 growth: 15.8%	1999 Veh. mi. travelled (mln): 887	Topographical features: not considered

Newton County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Newton County is located outside, but adjacent to, the presumptive Chicago		

nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Chicago C/MSA. The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Newton County is contributing to the violations in the Chicago area.

2000 Population: 14,566	VOC (tpy): 2,319	%drive to work: 35 Chicago--Gary--Kenosha, I
1990-2000 growth: 7.5%	NOx (tpy): 1,405	Wind direction: not considered
2000-2010 growth: 10.7%	1999 Veh. mi. travelled (mln): 229	Topographical features: not considered

Noble County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Noble County is not part of the Fort Wayne C/MSA and has a low commuting percentage. The county does not contribute to the violation in Allen county. Prevailing winds are from the south/southwest.		
2000 Population: 46,275	VOC (tpy): 4,662	%drive to work: 21 Fort Wayne, IN MSA
1990-2000 growth: 22.2%	NOx (tpy): 3,862	Wind direction: not considered
2000-2010 growth: 0.7%	1999 Veh. mi. travelled (mln): 502	Topographical features: not considered

Ohio County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: Ohio County is located outside, but adjacent to, the presumptive Cincinnati nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Cincinnati MSA of 119,677 tons (VOC) and 252,179 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Ohio County is contributing to the violations in the Cincinnati area.		
2000 Population: 5,623	VOC (tpy): 394	%drive to work: 93 Cincinnati--Hamilton, OH-
1990-2000 growth: 5.8%	NOx (tpy): 703	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 55	Topographical features: not considered

Owen County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: Owen County is located outside, but adjacent to, the presumptive Indianapolis nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Indianapolis MSA of 106,105 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Owen County is contributing to the violations in the Indianapolis area.

2000 Population: 21,786	VOC (tpy): 1,453	%drive to work: 19 Indianapolis, IN MSA
1990-2000 growth: 26.1%	NOx (tpy): 1,151	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 242	Topographical features: not considered

Pike County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Pike County is located outside, but adjacent to, the presumptive Evansville nonattainment area. There is no monitor in the county. The county has low VOC and moderate NOx emissions as compared with the annual emissions for the Evansville MSA of 28,364 tons (VOC) and 65,553 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Pike County is contributing to the violations in the Evansville area.		
2000 Population: 12,837	VOC (tpy): 1,455	%drive to work: 9 Evansville--Henderson, IN
1990-2000 growth: 2.6%	NOx (tpy): 25,155	Wind direction: not considered
2000-2010 growth: 10.9%	1999 Veh. mi. travelled (mln): 176	Topographical features: not considered

Porter County, Indiana

2004 Designation: Nonattainment		County design value: 87
Area: Chicago-Gary-Lake County, IL-IN		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: Porter County is part of the Chicago-Gary C/MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating Porter County as part of the Chicago-Gary nonattainment area.		
2000 Population: 146,798	VOC (tpy): 11,959	%drive to work: 92 Chicago--Gary--Kenosha, I
1990-2000 growth: 13.9%	NOx (tpy): 46,408	Wind direction: not considered
2000-2010 growth: 10.9%	1999 Veh. mi. travelled (mln): 1,616	Topographical features: not considered

Posey County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		

MSA or CMSA: Evansville-Henderson, IN-KY		
Justification: Posey County when compared to the other Counties in the MSA is lower in population and lower in VOC emissions than the other counties. The much larger Vanderburgh County would be a more likely contributor to the violation in Warrick County. Prevailing winds are from the south/southwest so the county does not contribute to the violating monitor in the area.		
2000 Population: 27,061	VOC (tpy): 4,701	%drive to work: 96 Evansville--Henderson, IN
1990-2000 growth: 4.2%	NOx (tpy): 15,927	Wind direction: not considered
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 483	Topographical features: not considered

Putnam County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Putnam County is located outside, but adjacent to, the presumptive Indianapolis nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Indianapolis MSA of 106,105 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Putnam County is contributing to the violations in the Indianapolis area.		
2000 Population: 36,019	VOC (tpy): 3,335	%drive to work: 30 Indianapolis, IN MSA
1990-2000 growth: 18.8%	NOx (tpy): 5,942	Wind direction: not considered
2000-2010 growth: 3.3%	1999 Veh. mi. travelled (mln): 607	Topographical features: not considered

Ripley County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Ripley County is located outside, but adjacent to, the presumptive Cincinnati nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Cincinnati MSA of 119,677 tons (VOC) and 252,179 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Ripley County is contributing to the violations in the Cincinnati area.		
2000 Population: 26,523	VOC (tpy): 3,422	%drive to work: 20 Cincinnati--Hamilton, OH-
1990-2000 growth: 7.7%	NOx (tpy): 2,209	Wind direction: not considered
2000-2010 growth: 13.0%	1999 Veh. mi. travelled (mln): 405	Topographical features: not considered

Rush County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Rush County is located outside, but adjacent to, the presumptive Indianapolis nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Indianapolis MSA of 106,105 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Rush County is contributing to the violations in the Indianapolis area.		
2000 Population: 18,261	VOC (tpy): 1,820	%drive to work: 35 Indianapolis, IN MSA
1990-2000 growth: 0.7%	NOx (tpy): 1,347	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln): 210	Topographical features: not considered

St. Joseph County, Indiana

2004 Designation: Nonattainment		County design value: 93
Area: South Bend-Elkhart, IN		
MSA or CMSA: South Bend, IN		
Justification: St. Joseph County is part of the South Bend MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating St. Joseph County as part of the South Bend-Elkhart nonattainment area.		
2000 Population: 265,559	VOC (tpy): 19,600	%drive to work: 83 South Bend, IN MSA
1990-2000 growth: 7.5%	NOx (tpy): 14,334	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 2,293	Topographical features: not considered

Scott County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Louisville, KY-IN		
Justification: Indiana has recommended that Scott County be designated as attainment and we agree. Scott County is part of the Louisville MSA. There is no monitor in the county. The county has low VOC and NOx emissions and low population as compared with the emissions and population for the Louisville MSA: 2,444 tpy of VOCs (3% of the MSA); 1,610 tpy of NOx (1% of the MSA); and a population of 22,960 (2% of the MSA). We do not believe that these counties contribute to violations in the Louisville area.		
2000 Population: 22,960	VOC (tpy): 2,444	%drive to work: 75 Louisville, KY--IN MSA
1990-2000 growth: 9.4%	NOx (tpy): 1,610	Wind direction: not considered
2000-2010 growth: 8.7%	1999 Veh. mi. travelled (mln): 348	Topographical features: not considered

Shelby County, Indiana

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2004 Designation: Nonattainment		County design value: 94
Area: Indianapolis, IN		
MSA or CMSA: Indianapolis, IN		
Justification: Shelby County is part of the Indianapolis MSA and there is a violating monitor located in the county. Consistent with the State's recommendation, we are designating Shelby County as part of the Indianapolis nonattainment area.		
2000 Population: 43,445	VOC (tpy): 4,555	%drive to work: 94 Indianapolis, IN MSA
1990-2000 growth: 7.8%	NOx (tpy): 6,367	Wind direction: not considered
2000-2010 growth: 8.2%	1999 Veh. mi. travelled (mln): 608	Topographical features: not considered

Spencer County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Low population compared to the population of the Evansville MSA. Not part of the Evansville MSA. Prevailing winds are from the south-southwest so Spencer County, which is east of Warrick County, is not expected to contribute to the Warrick county monitor.		
2000 Population: 20,391	VOC (tpy): 2,661	%drive to work: 20 Evansville--Henderson, IN
1990-2000 growth: 4.6%	NOx (tpy): 41,590	Wind direction: not considered
2000-2010 growth: 10.8%	1999 Veh. mi. travelled (mln): 379	Topographical features: not considered

Starke County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Montgomery County is located outside the presumptive Chicago nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Chicago C/MSA. The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Starke County is contributing to the violations in the Chicago area.		
2000 Population: 23,556	VOC (tpy): 2,213	%drive to work: 12 Chicago--Gary--Kenosha, I
1990-2000 growth: 3.5%	NOx (tpy): 2,969	Wind direction: not considered
2000-2010 growth: 13.9%	1999 Veh. mi. travelled (mln): 273	Topographical features: not considered

Steuben County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Steuben County is located outside, but adjacent to, the presumptive Fort Wayne nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared with the annual emissions for the Fort Wayne MSA of 43,154 tons (VOC) and 33,317 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Steuben County is contributing to the violations in the Fort Wayne area.		
2000 Population: 33,214	VOC (tpy): 4,468	%drive to work: 17 Fort Wayne, IN MSA
1990-2000 growth: 21.0%	NOx (tpy): 3,717	Wind direction: not considered
2000-2010 growth: 4.5%	1999 Veh. mi. travelled (mln): 713	Topographical features: not considered

Sullivan County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Sullivan County is located outside any presumptive nonattainment area. There is no monitor in the county. The county has low VOC and NOx emissions as compared, for example, with the annual emissions for the Indianapolis MSA of 106,105 tons (VOC) and 106,717 tons (NOx). The population is relatively low and minimal growth is expected during the 2000-2010 period. We do not believe that Sullivan County is contributing to the violations in Greene County or any other nonattainment area.		
2000 Population: 21,751	VOC (tpy): 2,079	%drive to work: 0 Bloomington, IN MSA
1990-2000 growth: 14.5%	NOx (tpy): 17,762	Wind direction: not considered
2000-2010 growth: 1.6%	1999 Veh. mi. travelled (mln): 227	Topographical features: not considered

Switzerland County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Switzerland County is located outside but adjacent to the Cincinnati-Hamilton MSA. There is no monitor in the county. The population and emissions for this area are low when compared to those of the Cincinnati MSA. Switzerland County is also outside of the presumptive nonattainment area. Based on the data, we believe Switzerland County is not contributing to ozone violations in the Cincinnati area.		
2000 Population: 9,065	VOC (tpy): 790	%drive to work: 39 Cincinnati--Hamilton, OH-
1990-2000 growth: 17.1%	NOx (tpy): 1,580	Wind direction: not considered
2000-2010 growth: 14.6%	1999 Veh. mi. travelled (mln): 91	Topographical features: not considered

Tippecanoe County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Lafayette, IN		
Justification: Tippecanoe does not contribute to the violations in the Indianapolis area. The prevailing winds are from the south and south west and Tippecanoe is to the north west of the nonattainment monitors. The county is outside of the presumptive nonattainment area.		
2000 Population: 148,955	VOC (tpy): 14,201	%drive to work: 2 Indianapolis, IN MSA
1990-2000 growth: 14.1%	NOx (tpy): 9,969	Wind direction: not considered
2000-2010 growth: -2.3%	1999 Veh. mi. travelled (mln): 1,347	Topographical features: not considered

Tipton County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Kokomo, IN		
Justification: Tipton County is located outside the Indianapolis MSA. There is no monitor in the county. The population of 16,577 is small when compared to the over 1 million in the Indianapolis area. Likewise, emissions are relatively low when compared to the Indianapolis MSA (VOC: 1,365 tpy versus 106,105 tpy)(NOx: 1,109 tpy versus 106,717 tpy). Wind rose data suggests winds primarily from the southwest, placing Tipton county downwind from the Indianapolis area. Based on the data, we believe Tipton County is not contributing to ozone violations in Indianapolis.		
2000 Population: 16,577	VOC (tpy): 1,365	%drive to work: 24 Indianapolis, IN MSA
1990-2000 growth: 2.8%	NOx (tpy): 1,109	Wind direction: not considered
2000-2010 growth: 1.9%	1999 Veh. mi. travelled (mln): 184	Topographical features: not considered

Union County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Union County is located outside but adjacent to the Cincinnati C/MSA. Population and emissions are small when compared to the Cincinnati area. Moreover, the county will experience a 0.5% loss in population by 2010. Wind rose data suggests winds primarily from the southwest, which makes Union County downwind of the Cincinnati area. Based on this data, we believe Union County is not contributing to the ozone violations in the Cincinnati area.		
2000 Population: 7,349	VOC (tpy): 714	%drive to work: 22 Cincinnati--Hamilton, OH-
1990-2000 growth: 5.3%	NOx (tpy): 589	Wind direction: not considered
2000-2010 growth: -0.5%	1999 Veh. mi. travelled (mln): 99	Topographical features: not considered

Vanderburgh County, Indiana

2004 Designation: Nonattainment		County design value: 83
Area: Evansville, IN		
MSA or CMSA: Evansville-Henderson, IN-KY		
Justification: The primary population center for the MSA. Although Vanderburgh County ozone monitors are monitoring attainment, the adjacent County of Warrick has a violation of the 8-hour standard. Vanderburgh County has the highest population of the 4 Counties in the MSA and also the highest VOC emissions. This county also has a 2004 critical value of 79ppm. The State recommended Vanderburgh County be attainment, but we disagree. Based on the data, we believe Vanderburgh County is contributing to the ozone violations in the Evansville area. EPA also provided a technical response to comments and ozone analysis regarding comments on the Evansville area dated April 14, 2005.		
2000 Population: 171,922	VOC (tpy): 13,819	%drive to work: 96 Evansville--Henderson, IN
1990-2000 growth: 4.2%	NOx (tpy): 10,121	Wind direction: not considered
2000-2010 growth: -0.6%	1999 Veh. mi. travelled (mln): 1,757	Topographical features: not considered

Vermillion County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Terre Haute, IN		
Justification: Three counties comprise the Terre Haute MSA: Vigo, Vermillion and Clay. The Vigo County monitor is violating the 8-hour ozone standard. The Vigo County monitor has 3 years of data showing nonattainment. Indiana deferred a recommendation in the July 15, 2003, letter and recommended just Vigo County in the October supplement. Vigo has 13,155 tpy of VOCs and 17,175 tpy of NOx and a population of 103,890. Clay and Vermillion Counties are in the MSA. Clay has 4,262 tpy of VOCs, 3,394 of NOx, and a population of 27,152. Vermillion has 4,023 tpy of VOCs, 13,370 tpy of NOx and a population of 18,917. Clay and Vermillion Counties are primarily rural. Wind rose data suggests winds come primarily from the southwest, which puts Vermillion County downwind of the Terre Haute area. Based on this data, we believe Vermillion County is not contributing to violations in the Terre Haute area.		
2000 Population: 16,788	VOC (tpy): 4,023	%drive to work: 75 Terre Haute, IN MSA
1990-2000 growth: 0.1%	NOx (tpy): 12,912	Wind direction: not considered
2000-2010 growth: 9.7%	1999 Veh. mi. travelled (mln): 268	Topographical features: not considered

Vigo County, Indiana

2004 Designation: Nonattainment		County design value: 87
Area: Terre Haute, IN		
MSA or CMSA: Terre Haute, IN		
Justification: Three counties comprise the Terre Haute MSA: Vigo, Vermillion and Clay. The Vigo County monitor is violating the 8-hour ozone standard. The Vigo County monitor has 3 years of data		

showing nonattainment. Indiana deferred a recommendation in the July 15, 2003, letter and recommended just Vigo County in the October supplement. Vigo has 13,155 tpy of VOCs and 17,175 tpy of NOx and a population of 103,890. Clay and Vermillion Counties are in the MSA. Clay has 4,262 tpy of VOCs, 3,394 of NOx, and a population of 27,152. Vermillion has 4,023 tpy of VOCs, 13,370 tpy of NOx and a population of 18,917. Clay and Vermillion Counties are primarily rural. Wind rose data suggests that winds come primarily from the southwest, which places Vigo county upwind of the monitored violations. Based on the State recommendation and the data, we believe Vigo county is contributing to the ozone violations in the Terre Haute area and will be designated nonattainment.

2000 Population: 105,848	VOC (tpy): 11,072	%drive to work: 94 Terre Haute, IN MSA
1990-2000 growth: -0.2%	NOx (tpy): 16,918	Wind direction: not considered
2000-2010 growth: -3.4%	1999 Veh. mi. travelled (mln): 1,359	Topographical features: not considered

Wabash County, Indiana

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Wabash County is adjacent to the Fort Wayne MSA. There is not a monitor in the county. The population is low when compared to the population of the Fort Wayne MSA (34,960 versus 390,156). Similarly, VOC and NOx emissions are small when compared to the Fort Wayne MSA. (VOC: 3,617 tpy versus Fort Wayne's 43,154 tpy)(NOx: 3,024 tpy versus 33,317 tpy). Based on the data, we do not believe Wabash County is contributing to ozone violations in the Fort Wayne area.		
2000 Population: 34,960	VOC (tpy): 3,617	%drive to work: 10 Fort Wayne, IN MSA
1990-2000 growth: -0.3%	NOx (tpy): 3,024	Wind direction: not considered
2000-2010 growth: 0.2%	1999 Veh. mi. travelled (mln): 370	Topographical features: not considered

Warrick County, Indiana

2004 Designation: Unclassifiable/Attainment	County design value: 85	
Area: - attainment -		
MSA or CMSA: Evansville-Henderson, IN-KY		
Justification: Warrick County is part of the Evansville-Henderson C/MSA. There is a violating monitor located within the county. Consistent with the State's recommendation, we are designating Warrick County as part of the Evansville-Henderson nonattainment area.		
2000 Population: 52,383	VOC (tpy): 5,078	%drive to work: 93 Evansville--Henderson, IN
1990-2000 growth: 16.6%	NOx (tpy): 31,131	Wind direction: not considered
2000-2010 growth: 11.4%	1999 Veh. mi. travelled (mln): 797	Topographical features: not considered

Washington County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Washington County is located at the northeast corner of and adjacent to the Louisville C/MSA. Washington County does not have a monitor. The population is low when compared to the Louisville C/MSA (27,223 versus 1,161,975). Likewise, VOC emissions in Washington County are small when compared to VOC emissions from the Louisville C/MSA (2,504 tpy versus 84,411 tpy). NOx emissions in Washington County are also small when compared to the Louisville C/MSA (1,531 tpy versus 118,922 tpy). Based on this data, we believe Washington County does not contribute to ozone violations in the Louisville area.		
2000 Population: 27,223	VOC (tpy): 2,504	%drive to work: 38 Louisville, KY--IN MSA
1990-2000 growth: 14.8%	NOx (tpy): 1,531	Wind direction: not considered
2000-2010 growth: 15.7%	1999 Veh. mi. travelled (mln): 266	Topographical features: not considered

Wells County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Fort Wayne, IN		
Justification: IDEM submitted information to show that the Counties surrounding Allen County in the Fort Wayne MSA are very rural with low emissions. IDEM submitted population density maps and roadway maps and commuting information to support their contention that only Allen County be nonattainment. The maps clearly show the rural nature of the surrounding counties with little development even on the outskirts of Allen County. Wells County has low population and emissions compared to Allen County.		
2000 Population: 27,600	VOC (tpy): 2,314	%drive to work: 96 Fort Wayne, IN MSA
1990-2000 growth: 6.4%	NOx (tpy): 1,781	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 254	Topographical features: not considered

Whitley County, Indiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Fort Wayne, IN		
Justification: All of the Counties in the MSA were considered for inclusion in the nonattainment designation in the USEPA review. IDEM submitted information to show that the Counties surrounding Allen County in the Fort Wayne MSA are rural with low emissions. IDEM submitted population density maps and roadway maps and commuting		

information to support their contention that only Allen County be nonattainment. The maps clearly show the rural nature of the surrounding counties with little development even on the outskirts of Allen County. Whitley County has low population and emissions compared to Allen County. Prevailing winds are from the south/southwest so the county does not contribute to the violation in the area.

2000 Population: 30,707	VOC (tpy): 2,826	%drive to work: 87 Fort Wayne, IN MSA
1990-2000 growth: 11.1%	NOx (tpy): 2,331	Wind direction: not considered
2000-2010 growth: 5.6%	1999 Veh. mi. travelled (mln): 352	Topographical features: not considered

Allen County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 17,800	VOC (tpy): 1,212	%drive to work: 10 Nashville, TN MSA
1990-2000 growth: 21.7%	NOx (tpy): 922	Wind direction: not considered
2000-2010 growth: 24.5%	1999 Veh. mi. travelled (mln): 151	Topographical features: not considered

Boone County, Kentucky

2004 Designation: Nonattainment		County design value: 85
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: Boone County has a monitor showing nonattainment. We are designating Boone County as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 85,991	VOC (tpy): 6,975	%drive to work: 98 Cincinnati--Hamilton, OH-
1990-2000 growth: 49.3%	NOx (tpy): 18,349	Wind direction: not considered
2000-2010 growth: 46.6%	1999 Veh. mi. travelled (mln): 852	Topographical features: not considered

Boyd County, Kentucky

2004 Designation: Nonattainment		County design value: 91
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Area: Huntington-Ashland, WV-KY		
MSA or CMSA: Huntington-Ashland, WV-KY-OH		
Justification: See response letter to State recommendations for justification. Boyd County has a monitor showing nonattainment. We are designating Boyd County as part of the Huntington-Ashland nonattainment area.		
2000 Population: 49,752	VOC (tpy): 9,520	%drive to work: 93 Huntington--Ashland, WV--
1990-2000 growth: -2.7%	NOx (tpy): 13,732	Wind direction: not considered
2000-2010 growth: -3.2%	1999 Veh. mi. travelled (mln): 545	Topographical features: not considered

Bracken County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 8,279	VOC (tpy): 543	%drive to work: 46 Cincinnati--Hamilton, OH-
1990-2000 growth: 6.6%	NOx (tpy): 617	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 90	Topographical features: not considered

Bullitt County, Kentucky

2004 Designation: Nonattainment		County design value: 81
Area: Louisville, KY-IN		
MSA or CMSA: Louisville, KY-IN		
Justification: EPA agrees with State recommendation to designate Bullitt County as part of the Louisville nonattainment area.		
2000 Population: 61,236	VOC (tpy): 6,025	%drive to work: 95 Louisville, KY--IN MSA
1990-2000 growth: 28.7%	NOx (tpy): 3,883	Wind direction: not considered
2000-2010 growth: 27.3%	1999 Veh. mi. travelled (mln): 850	Topographical features: not considered

Caldwell County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 13,060	VOC (tpy): 1,363	%drive to work: 7 Clarksville--

		Hopkinsville
1990-2000 growth: - 1.3%	NOx (tpy): 1,233	Wind direction: not considered
2000-2010 growth: - 0.6%	1999 Veh. mi. travelled (mln): 163	Topographical features: not considered

Campbell County, Kentucky

2004 Designation: Nonattainment		County design value: 91
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: EPA agrees with State recommendation to include Campbell County as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 88,616	VOC (tpy): 4,789	%drive to work: 98 Cincinnati--Hamilton, OH-
1990-2000 growth: 5.7%	NOx (tpy): 5,714	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 1,108	Topographical features: not considered

Carroll County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 10,155	VOC (tpy): 3,259	%drive to work: 7 Cincinnati--Hamilton, OH-
1990-2000 growth: 9.3%	NOx (tpy): 34,845	Wind direction: not considered
2000-2010 growth: 12.7%	1999 Veh. mi. travelled (mln): 209	Topographical features: not considered

Carter County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: Huntington-Ashland, WV-KY-OH		
Justification: See response letter to State recommendations for justification.		
2000 Population: 26,889	VOC (tpy): 2,301	%drive to work: 75 Huntington--Ashland, WV--
1990-2000 growth: 10.5%	NOx (tpy): 2,957	Wind direction: not considered
2000-2010 growth: 9.4%	1999 Veh. mi. travelled (mln): 658	Topographical features: not considered

Christian County, Kentucky

2004 Designation: Nonattainment		County design value: 85
Area: Clarkesville-Hopkinsville, TN-KY		
MSA or CMSA: Clarksville-Hopkinsville, TN-KY		
Justification: State recommends that county be designated nonattainment.		
2000 Population: 72,265	VOC (tpy): 6,371	%drive to work: 94 Clarksville--Hopkinsville
1990-2000 growth: 4.8%	NOx (tpy): 5,856	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 942	Topographical features: not considered

Elliott County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 6,748	VOC (tpy): 418	%drive to work: 21 Huntington--Ashland, WV--
1990-2000 growth: 4.5%	NOx (tpy): 429	Wind direction: not considered
2000-2010 growth: 5.5%	1999 Veh. mi. travelled (mln): 53	Topographical features: not considered

Gallatin County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: See response letter to State recommendations for justification.		
2000 Population: 7,870	VOC (tpy): 976	%drive to work: 87 Cincinnati--Hamilton, OH-
1990-2000 growth: 45.9%	NOx (tpy): 2,460	Wind direction: not considered
2000-2010 growth: 47.9%	1999 Veh. mi. travelled (mln): 249	Topographical features: not considered

Grant County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: See response letter to State recommendations for justification.		

2000 Population: 22,384	VOC (tpy): 1,493	%drive to work: 92 Cincinnati--Hamilton, OH-
1990-2000 growth: 42.2%	NOx (tpy): 2,846	Wind direction: not considered
2000-2010 growth: 44.5%	1999 Veh. mi. travelled (mln): 376	Topographical features: not considered

Greenup County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: Huntington-Ashland, WV-KY-OH		
Justification: See response letter to State recommendations for justification.		
2000 Population: 36,891	VOC (tpy): 2,157	%drive to work: 83 Huntington--Ashland, WV--
1990-2000 growth: 0.4%	NOx (tpy): 4,644	Wind direction: not considered
2000-2010 growth: 0.3%	1999 Veh. mi. travelled (mln): 334	Topographical features: not considered

Hardin County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: 79
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 94,174	VOC (tpy): 7,009	%drive to work: 14 Louisville, KY--IN MSA
1990-2000 growth: 5.5%	NOx (tpy): 8,062	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 1,280	Topographical features: not considered

Harrison County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 17,983	VOC (tpy): 1,231	%drive to work: 4 Cincinnati--Hamilton, OH-
1990-2000 growth: 10.7%	NOx (tpy): 1,825	Wind direction: not considered
2000-2010 growth: 13.3%	1999 Veh. mi. travelled (mln): 142	Topographical features: not considered

Henderson County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: Evansville-Henderson, IN-KY		
Justification: See response letter to State recommendations for justification.		
2000 Population: 44,829	VOC (tpy): 4,766	%drive to work: 92 Evansville--Henderson, IN
1990-2000 growth: 4.1%	NOx (tpy): 8,375	Wind direction: not considered
2000-2010 growth: 3.3%	1999 Veh. mi. travelled (mln): 563	Topographical features: not considered

Henry County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,060	VOC (tpy): 1,333	%drive to work: 36 Louisville, KY--IN MSA
1990-2000 growth: 17.4%	NOx (tpy): 1,604	Wind direction: not considered
2000-2010 growth: 18.9%	1999 Veh. mi. travelled (mln): 276	Topographical features: not considered

Hopkins County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 46,519	VOC (tpy): 3,733	%drive to work: 5 Clarksville-- Hopkinsville
1990-2000 growth: 0.8%	NOx (tpy): 4,855	Wind direction: not considered
2000-2010 growth: 0.3%	1999 Veh. mi. travelled (mln): 502	Topographical features: not considered

Jefferson County, Kentucky

2004 Designation: Nonattainment		County design value: 84
Area: Louisville, KY-IN		
MSA or CMSA: Louisville, KY-IN		
Justification: EPA agrees with the State's recommendation to include Jefferson County as part of the		

Louisville nonattainment area.		
2000 Population: 693,604	VOC (tpy): 58,631	%drive to work: 97 Louisville, KY--IN MSA
1990-2000 growth: 4.3%	NOx (tpy): 89,587	Wind direction: not considered
2000-2010 growth: 3.4%	1999 Veh. mi. travelled (mln): 7,772	Topographical features: not considered

Kenton County, Kentucky

2004 Designation: Nonattainment		County design value: 85
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: EPA agrees with State recommendation to include Kenton County as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 151,464	VOC (tpy): 8,150	%drive to work: 98 Cincinnati--Hamilton, OH-
1990-2000 growth: 6.6%	NOx (tpy): 9,092	Wind direction: not considered
2000-2010 growth: 5.5%	1999 Veh. mi. travelled (mln): 1,835	Topographical features: not considered

Lawrence County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: See response letter to State recommendations for justification.		
2000 Population: 15,569	VOC (tpy): 1,115	%drive to work: 25 Huntington--Ashland, WV--
1990-2000 growth: 11.2%	NOx (tpy): 22,164	Wind direction: not considered
2000-2010 growth: 13.7%	1999 Veh. mi. travelled (mln): 168	Topographical features: not considered

Lewis County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 14,092	VOC (tpy): 1,198	%drive to work: 5 Huntington--Ashland, WV--
1990-2000 growth: 8.2%	NOx (tpy): 2,940	Wind direction: not considered

2000-2010 growth: 10.5%	1999 Veh. mi. travelled (mln): 143	Topographical features: not considered
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Logan County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 26,573	VOC (tpy): 2,966	%drive to work: 7 Nashville, TN MSA
1990-2000 growth: 8.8%	NOx (tpy): 3,181	Wind direction: not considered
2000-2010 growth: 10.5%	1999 Veh. mi. travelled (mln): 288	Topographical features: not considered

Martin County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,578	VOC (tpy): 833	%drive to work: 3 Huntington--Ashland, WV--
1990-2000 growth: 0.4%	NOx (tpy): 1,346	Wind direction: not considered
2000-2010 growth: 0.1%	1999 Veh. mi. travelled (mln): 147	Topographical features: not considered

Mason County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 16,800	VOC (tpy): 1,730	%drive to work: 10 Cincinnati--Hamilton, OH-
1990-2000 growth: 0.8%	NOx (tpy): 20,326	Wind direction: not considered
2000-2010 growth: 1.0%	1999 Veh. mi. travelled (mln): 175	Topographical features: not considered

Meade County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		

2000 Population: 26,349	VOC (tpy): 2,369	%drive to work: 35 Louisville, KY--IN MSA
1990-2000 growth: 9.0%	NOx (tpy): 4,672	Wind direction: not considered
2000-2010 growth: 9.9%	1999 Veh. mi. travelled (mln): 327	Topographical features: not considered

Muhlenberg County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: SCR have been installed on all three units at the Paradise power plant. The most recent SCR was started up in 2003. All 3 SCRs will be operating in 2004 and beyond, achieving significant NOx reductions.		
2000 Population: 31,839	VOC (tpy): 1,985	%drive to work: 2 Clarksville-- Hopkinsville
1990-2000 growth: 1.7%	NOx (tpy): 109,850	Wind direction: not considered
2000-2010 growth: 0.9%	1999 Veh. mi. travelled (mln): 281	Topographical features: not considered

Nelson County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 37,477	VOC (tpy): 7,864	%drive to work: 25 Louisville, KY--IN MSA
1990-2000 growth: 26.1%	NOx (tpy): 2,314	Wind direction: not considered
2000-2010 growth: 24.9%	1999 Veh. mi. travelled (mln): 426	Topographical features: not considered

Oldham County, Kentucky

2004 Designation: Nonattainment		County design value: 86
Area: Louisville, KY-IN		
MSA or CMSA: Louisville, KY-IN		
Justification: Oldham County has a monitor showing nonattainment and EPA is designating it as part of the Louisville nonattainment area.		
2000 Population: 46,178	VOC (tpy): 2,368	%drive to work: 94 Louisville, KY--IN MSA
1990-2000 growth: 38.8%	NOx (tpy): 3,973	Wind direction: not considered

2000-2010 growth: 36.0%	1999 Veh. mi. travelled (mln): 509	Topographical features: not considered
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Owen County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 10,547	VOC (tpy): 667	%drive to work: 24 Cincinnati--Hamilton, OH-
1990-2000 growth: 16.7%	NOx (tpy): 621	Wind direction: not considered
2000-2010 growth: 19.6%	1999 Veh. mi. travelled (mln): 85	Topographical features: not considered

Pendleton County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: See response letter to State recommendations for justification.		
2000 Population: 14,390	VOC (tpy): 998	%drive to work: 96 Cincinnati--Hamilton, OH-
1990-2000 growth: 19.6%	NOx (tpy): 3,466	Wind direction: not considered
2000-2010 growth: 22.9%	1999 Veh. mi. travelled (mln): 172	Topographical features: not considered

Rowan County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 22,094	VOC (tpy): 1,713	%drive to work: 2 Huntington--Ashland, WV--
1990-2000 growth: 8.6%	NOx (tpy): 1,862	Wind direction: not considered
2000-2010 growth: 3.4%	1999 Veh. mi. travelled (mln): 408	Topographical features: not considered

Shelby County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A

Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 33,337	VOC (tpy): 2,891	%drive to work: 29 Louisville, KY--IN MSA
1990-2000 growth: 34.3%	NOx (tpy): 3,131	Wind direction: not considered
2000-2010 growth: 34.1%	1999 Veh. mi. travelled (mln): 503	Topographical features: not considered

Spencer County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 11,766	VOC (tpy): 618	%drive to work: 59 Louisville, KY--IN MSA
1990-2000 growth: 73.0%	NOx (tpy): 439	Wind direction: not considered
2000-2010 growth: 73.5%	1999 Veh. mi. travelled (mln): 85	Topographical features: not considered

Todd County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 11,971	VOC (tpy): 1,368	%drive to work: 24 Clarksville--Hopkinsville
1990-2000 growth: 9.4%	NOx (tpy): 1,299	Wind direction: not considered
2000-2010 growth: 11.6%	1999 Veh. mi. travelled (mln): 139	Topographical features: not considered

Trigg County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: 73
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,597	VOC (tpy): 2,067	%drive to work: 30 Clarksville--Hopkinsville
1990-2000 growth:	NOx (tpy): 1,765	Wind direction: not considered

21.6%		
2000-2010 growth: 24.9%	1999 Veh. mi. travelled (mln): 276	Topographical features: not considered

Trimble County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 8,125	VOC (tpy): 606	%drive to work: 28 Louisville, KY--IN MSA
1990-2000 growth: 33.4%	NOx (tpy): 9,581	Wind direction: not considered
2000-2010 growth: 37.0%	1999 Veh. mi. travelled (mln): 73	Topographical features: not considered

Union County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,637	VOC (tpy): 1,643	%drive to work: 21 Evansville--Henderson, IN
1990-2000 growth: - 5.5%	NOx (tpy): 1,959	Wind direction: not considered
2000-2010 growth: - 3.6%	1999 Veh. mi. travelled (mln): 160	Topographical features: not considered

Webster County, Kentucky

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 14,120	VOC (tpy): 995	%drive to work: 27 Evansville--Henderson, IN
1990-2000 growth: 1.2%	NOx (tpy): 16,393	Wind direction: not considered
2000-2010 growth: 3.2%	1999 Veh. mi. travelled (mln): 120	Topographical features: not considered

Ascension Parish, Louisiana

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2004 Designation: Nonattainment		County design value: 77
Area: Baton Rouge, LA		
MSA or CMSA: Baton Rouge, LA		
Justification: The U.S. Environmental Protection Agency agrees with the State of Louisiana in their July 15, 2003 recommendation of Ascension Parish as part of the Baton Rouge nonattainment area.		
2000 Population: 76,627	VOC (tpy): 9,227	%drive to work: 87 Baton Rouge, LA MSA
1990-2000 growth: 31.6%	NOx (tpy): 22,443	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 805	Topographical features: not considered

Assumption Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Assumption Parish is not in the presumptive nonattainment boundary, but is located adjacent to the Baton Rouge C/MSA. This Parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Assumption Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 23,388	VOC (tpy): 1,742	%drive to work: 23 Baton Rouge, LA MSA
1990-2000 growth: 2.8%	NOx (tpy): 2,158	Wind direction: not considered
2000-2010 growth: 0.1%	1999 Veh. mi. travelled (mln): 266	Topographical features: not considered

Calcasieu Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: Lake Charles, LA		
Justification: Calcasieu Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Calcasieu Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 183,577	VOC (tpy): 22,011	%drive to work: 2 Beaumont--Port Arthur, TX
1990-2000 growth: 9.2%	NOx (tpy): 68,362	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 1,894	Topographical features: not considered

Cameron Parish, Louisiana

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cameron Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Cameron Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 9,991	VOC (tpy): 4,550	%drive to work: 2 Beaumont--Port Arthur, TX
1990-2000 growth: 7.9%	NOx (tpy): 5,793	Wind direction: not considered
2000-2010 growth: -15.1%	1999 Veh. mi. travelled (mln): 89	Topographical features: not considered

East Baton Rouge Parish, Louisiana

2004 Designation: Nonattainment		County design value: 86
Area: Baton Rouge, LA		
MSA or CMSA: Baton Rouge, LA		
Justification: The U.S. Environmental Protection Agency agrees with the State of Louisiana in their July 15, 2003 recommendation of East Baton Rouge Parish as part of the Baton Rouge nonattainment area.		
2000 Population: 412,852	VOC (tpy): 29,046	%drive to work: 94 Baton Rouge, LA MSA
1990-2000 growth: 8.6%	NOx (tpy): 47,783	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 3,284	Topographical features: not considered

East Feliciana Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: East Feliciana Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for East Feliciana Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 21,360	VOC (tpy): 1,619	%drive to work: 45 Baton Rouge, LA MSA
1990-2000 growth: 11.2%	NOx (tpy): 6,210	Wind direction: not considered
2000-2010 growth: 12.9%	1999 Veh. mi. travelled (mln): 224	Topographical features: not considered

Iberia Parish, Louisiana

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Iberia Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Iberia Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 73,266	VOC (tpy): 5,680	%drive to work: 0 Baton Rouge, LA MSA
1990-2000 growth: 7.3%	NOx (tpy): 5,552	Wind direction: not considered
2000-2010 growth: 6.9%	1999 Veh. mi. travelled (mln): 571	Topographical features: not considered

Iberville Parish, Louisiana

2004 Designation: Nonattainment		County design value: 84
Area: Baton Rouge, LA		
MSA or CMSA: - outside -		
Justification: The U.S. Environmental Protection Agency agrees with the State of Louisiana in their July 15, 2003 recommendation of Iberville Parish as part of the Baton Rouge nonattainment area.		
2000 Population: 33,320	VOC (tpy): 6,744	%drive to work: 41 Baton Rouge, LA MSA
1990-2000 growth: 7.3%	NOx (tpy): 40,763	Wind direction: not considered
2000-2010 growth: -2.5%	1999 Veh. mi. travelled (mln): 417	Topographical features: not considered

Livingston Parish, Louisiana

2004 Designation: Nonattainment		County design value: 78
Area: Baton Rouge, LA		
MSA or CMSA: Baton Rouge, LA		
Justification: The U.S. Environmental Protection Agency agrees with the State of Louisiana in their July 15, 2003 recommendation of Livingston Parish as part of the Baton Rouge nonattainment area.		
2000 Population: 91,814	VOC (tpy): 6,221	%drive to work: 86 Baton Rouge, LA MSA
1990-2000 growth: 30.2%	NOx (tpy): 4,438	Wind direction: not considered
2000-2010 growth: 2.6%	1999 Veh. mi. travelled (mln): 1,005	Topographical features: not considered

Pointe Coupee Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: 73
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: Pointe Coupee Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Pointe Coupee Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.

2000 Population: 22,763	VOC (tpy): 2,334	%drive to work: 36 Baton Rouge, LA MSA
1990-2000 growth: 1.0%	NOx (tpy): 29,562	Wind direction: not considered
2000-2010 growth: 9.9%	1999 Veh. mi. travelled (mln): 249	Topographical features: not considered

St. Helena Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: St. Helena Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for St. Helena Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 10,525	VOC (tpy): 739	%drive to work: 28 Baton Rouge, LA MSA
1990-2000 growth: 6.6%	NOx (tpy): 4,061	Wind direction: not considered
2000-2010 growth: -1.6%	1999 Veh. mi. travelled (mln): 95	Topographical features: not considered

St. Martin Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Lafayette, LA		
Justification: St. Martin Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for St. Martin Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 48,583	VOC (tpy): 3,247	%drive to work: 2 Baton Rouge, LA MSA
1990-2000 growth: 10.5%	NOx (tpy): 4,578	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 664	Topographical features: not considered

Tangipahoa Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Tangipahoa Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Tangipahoa Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 100,588	VOC (tpy): 6,097	%drive to work: 8 Baton Rouge, LA MSA
1990-2000 growth: 17.4%	NOx (tpy): 6,753	Wind direction: not considered
2000-2010 growth: 5.4%	1999 Veh. mi. travelled (mln): 1,425	Topographical features: not considered

West Baton Rouge Parish, Louisiana

2004 Designation: Nonattainment		County design value: 84
Area: Baton Rouge, LA		
MSA or CMSA: Baton Rouge, LA		
Justification: The U.S. Environmental Protection Agency agrees with the State of Louisiana in their July 15, 2003 recommendation of West Baton Rouge Parish as part of the Baton Rouge nonattainment area.		
2000 Population: 21,601	VOC (tpy): 4,541	%drive to work: 86 Baton Rouge, LA MSA
1990-2000 growth: 11.2%	NOx (tpy): 5,611	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 302	Topographical features: not considered

West Feliciana Parish, Louisiana

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: West Feliciana Parish is not in the presumptive nonattainment boundary. This parish does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for West Feliciana Parish indicates that this parish is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 15,111	VOC (tpy): 1,486	%drive to work: 29 Baton Rouge, LA MSA
1990-2000 growth: 17.0%	NOx (tpy): 5,599	Wind direction: not considered
2000-2010 growth: -3.3%	1999 Veh. mi. travelled (mln): 183	Topographical features: not considered

Androscoggin County, Maine

2004 Designation: Nonattainment		County design value: N/A
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Area: Portland, ME		
MSA or CMSA: Lewiston-Auburn, ME		
Justification: The Southwest Maine Coast (Portland, Maine) area covers all MSA cities and towns, and additional areas. New England MSAs are defined town-by-town. MSA areas are the presumptive boundary, and this meets our guidance on MSA areas. In this county only one town is included in the Portland area. RACT and NSR are required throughout the county. Maine provided evidence following our 11 factors showing that the other areas do not contribute.		
2000 Population: 103,793	VOC (tpy): 5,775	%drive to work: 0
1990-2000 growth: -1.4%	NOx (tpy): 4,198	Wind direction: not considered
2000-2010 growth: -0.0%	1999 Veh. mi. travelled (mln): 876	Topographical features: not considered

Cumberland County, Maine

2004 Designation: Nonattainment		County design value: 88
Area: Portland, ME		
MSA or CMSA: Portland, ME		
Justification: Southwest Maine Coast (Portland, Maine) area covers all MSA cities and towns, and additional areas, outside the MSA, which Maine requested be included. We agree with Maine's recommendation. Only New England MSAs are defined town-by-town. All MSA towns are covered and 2 towns outside the MSA. Therefore the area is bigger than our presumptive MSA boundary. Does not cover previous 1-hour NA boundary. RACT and NSR required throughout the county. Maine provided evidence following our 11 factors showing that the areas in the county not included do not contribute, to downwind exceedances.		
2000 Population: 265,612	VOC (tpy): 20,799	%drive to work: 0
1990-2000 growth: 9.2%	NOx (tpy): 23,888	Wind direction: not considered
2000-2010 growth: 7.7%	1999 Veh. mi. travelled (mln): 2,639	Topographical features: not considered

Franklin County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Not adjacent to recommended NA area. Population density is 17 person per square mile. This county is listed here because it is adjacent to a county with a nonattainment area. We have examined data and conclude that it is not violating or contributing to a violation.		
2000 Population: 29,467	VOC (tpy): 3,732	%drive to work: 0
1990-2000 growth: 1.6%	NOx (tpy): 4,465	Wind direction: not considered
2000-2010 growth: 2.8%	1999 Veh. mi. travelled (mln): 341	Topographical features: not considered

Hancock County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: 94
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Central Maine Coast is non-MSA area. Town boundaries, which are important in New England, define the nonattainment area - not counties. Area includes violating monitors and is clearly bounded by monitors which attain the standard. Rural non-MSA area. Covers coastal towns and NA area is bounded by attaining monitors. Violating monitors in Acadia National Park. Factors that were analyzed by Maine include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources.		
2000 Population: 51,791	VOC (tpy): 5,201	%drive to work: 0
1990-2000 growth: 10.3%	NOx (tpy): 4,279	Wind direction: not considered
2000-2010 growth: 9.3%	1999 Veh. mi. travelled (mln): 666	Topographical features: not considered

Kennebec County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Population density is 42 person per square mile. RACT and NSR required throughout county. This county is listed here because it is adjacent to a county with a nonattainment area. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the State's recommendation.		
2000 Population: 117,114	VOC (tpy): 7,378	%drive to work: 0
1990-2000 growth: 1.0%	NOx (tpy): 5,964	Wind direction: not considered
2000-2010 growth: 2.1%	1999 Veh. mi. travelled (mln): 1,400	Topographical features: not considered

Knox County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: 87
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Central Maine Coast is non-MSA area. Town boundaries, which are important in New England, define the nonattainment area - not counties. Area includes violating monitors and is clearly bounded by monitors which attain the standard. Rural non-MSA area. Covers coastal towns and NA area is bounded by attaining monitors. RACT and NSR required throughout county. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the recommendation.		

2000 Population: 39,618	VOC (tpy): 4,440	%drive to work: 0
1990-2000 growth: 9.1%	NOx (tpy): 3,272	Wind direction: not considered
2000-2010 growth: 8.0%	1999 Veh. mi. travelled (mln): 364	Topographical features: not considered

Lincoln County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Central Maine Coast in non-MSA area. Town boundaries, which are important in New England, define the nonattainment area - not counties. Area includes violating monitors and is clearly bounded by monitors which attain the standard. Rural non-MSA area. Covers coastal towns and NA area is bounded by attaining monitors. RACT and NSR required throughout county. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the recommendation.		
2000 Population: 33,616	VOC (tpy): 6,862	%drive to work:
1990-2000 growth: 10.7%	NOx (tpy): 1,405	Wind direction: not considered
2000-2010 growth: 8.6%	1999 Veh. mi. travelled (mln): 377	Topographical features: not considered

Oxford County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: 62
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Population density is 26 person per square mile. This county is listed here because it is adjacent to a county with a nonattainment area. We have examined data and conclude that it is not violating or contributing to a violation. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the State's recommendation.		
2000 Population: 54,755	VOC (tpy): 4,432	%drive to work: 0
1990-2000 growth: 4.1%	NOx (tpy): 4,307	Wind direction: not considered
2000-2010 growth: 3.9%	1999 Veh. mi. travelled (mln): 545	Topographical features: not considered

Penobscot County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: 83

Area: - attainment -		
MSA or CMSA: Bangor, ME		
Justification: County not adjacent to recommended NA area. Population density is 42 person per square mile in whole county.		
This county is listed here because it is adjacent to a county with a nonattainment area. We have examined data and conclude that it is not violating or contributing to a violation. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the recommendation.		
2000 Population: 144,919	VOC (tpy): 10,266	%drive to work: 0
1990-2000 growth: -1.1%	NOx (tpy): 10,000	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 1,619	Topographical features: not considered

Sagadahoc County, Maine

2004 Designation: Nonattainment		County design value: N/A
Area: Portland, ME		
MSA or CMSA: - outside -		
Justification: EPA agrees with the State recommendation to include Sagadahoc County as part of the Southwest Maine Coast (Portland, Maine) nonattainment area.		
2000 Population: 35,214	VOC (tpy): 3,184	%drive to work: 0
1990-2000 growth: 5.0%	NOx (tpy): 1,810	Wind direction: not considered
2000-2010 growth: 5.1%	1999 Veh. mi. travelled (mln): 441	Topographical features: not considered

Waldo County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Bangor, ME		
Justification: Central Maine Coast in non-MSA area. Town boundaries, which are important in New England, define the nonattainment area - not counties. Area includes violating monitors and is clearly bounded by monitors which attain the standard. Rural non-MSA area. Covers coastal towns and NA area is bounded by attaining monitors. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the State's recommendation.		
2000 Population: 36,280	VOC (tpy): 3,257	%drive to work: 0
1990-2000 growth: 9.9%	NOx (tpy): 2,011	Wind direction: not considered

2000-2010 growth: 9.0%	1999 Veh. mi. travelled (mln): 405	Topographical features: not considered
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Washington County, Maine

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: County not adjacent to recommended NA area. Factors that were analyzed by Maine to determine if an area should be attainment or nonattainment include: Monitored 8-hour average ozone concentration data, Geography/topography, Meteorology and pollution transport, Population density and projected population change, Degree of urbanization (commercial and industrial development), Traffic congestion and commuting patterns, and Location and magnitude of emission sources. We agree with the recommendation.		
2000 Population: 33,941	VOC (tpy): 4,690	%drive to work: 0
1990-2000 growth: -3.9%	NOx (tpy): 3,180	Wind direction: not considered
2000-2010 growth: -1.1%	1999 Veh. mi. travelled (mln): 427	Topographical features: not considered

York County, Maine

2004 Designation: Nonattainment		County design value: 91
Area: Portland, ME		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: Southwest Maine Coast (Portland, Maine) area covers all MSA cities and towns, and additional areas, outside the MSA, which Maine requested be included. The area also includes 5 cities and towns from Boston C/MSA. We agree with Maine's recommendation. Only New England MSAs are defined town-by-town. All MSA towns are covered in this nonattainment area. RACT and NSR are required throughout the county. Maine provided evidence following our 11 factors showing that the areas in the county not included do not contribute to downwind exceedances of the ozone standard.		
2000 Population: 186,742	VOC (tpy): 11,053	%drive to work: 0
1990-2000 growth: 13.5%	NOx (tpy): 9,506	Wind direction: not considered
2000-2010 growth: 10.5%	1999 Veh. mi. travelled (mln): 2,093	Topographical features: not considered

Allegany County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Cumberland, MD-WV		
Justification: EPA is designating this Allegany County as unclassifiable/attainment. This area does not monitoring a violation of the 8-hour ozone standard and EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 74,930	VOC (tpy): 9,119	%drive to work: 5 Washington-- Baltimore, DC

1990-2000 growth: -0.0%	NOx (tpy): 12,248	Wind direction: not considered
2000-2010 growth: -0.8%	1999 Veh. mi. travelled (mln): 1,200	Topographical features: not considered

Anne Arundel County, Maryland

2004 Designation: Nonattainment		County design value: 98
Area: Baltimore, MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: We are including Anne Arundel County as part of the Baltimore 8-hour ozone nonattainment area, which consists of Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. The Maryland portion of the Washington Area consists of Calvert County, Charles County, Frederick County, Montgomery County, and Prince Georges County. The separation of these areas is consistent with the 1-hour boundaries. The Baltimore and the Washington Areas are currently separate 1-hour ozone nonattainment areas classified as severe. Based on the 1999 Office of Management & Budget (OMB) definition of metropolitan areas, the Baltimore and the Washington Areas are Primary Metropolitan Statistical Areas (PMSA) within the Washington-Baltimore C/MSA. In the November 6, 1991 Air Quality Designations and Classifications Final Rule (56 FR 56694), EPA established Baltimore and Washington as separate 1-hour ozone nonattainment areas. These boundaries were based on the PMSA grouping. The Baltimore and Washington Areas are two fairly large metropolitan areas on their own and to combine them would disrupt the current air quality planning processes and, instead, create a new and very cumbersome air quality planning process for the states involved. For years, these areas have worked separately and effectively within their own Metropolitan Planning Organizations (MPOs). Maryland and Virginia, who are part of the Washington-Baltimore C/MSA strongly recommend EPA to recognize and maintain the current planning processes that have cooperatively undertaken the necessary air quality planning and transportation conformity processes. The complexity of the planning for attainment of the 8-hour ozone standard requires that, where feasible and reasonable, successful existing air quality planning processes be preserved.</p>		
2000 Population: 489,656	VOC (tpy): 21,996	%drive to work: 99 Washington-- Baltimore, DC
1990-2000 growth: 14.6%	NOx (tpy): 48,091	Wind direction: not considered
2000-2010 growth: 8.7%	1999 Veh. mi. travelled (mln): 4,039	Topographical features: not considered

Baltimore County, Maryland

2004 Designation: Nonattainment		County design value: 93
Area: Baltimore, MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: We are including Baltimore County as part of the Baltimore 8-hour ozone nonattainment area, which consists of Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. The Maryland portion of the Washington Area consists of Calvert County, Charles County, Frederick County, Montgomery County, and Prince Georges County. The separation of these areas is consistent with the 1-hour boundaries. The Baltimore and the Washington Areas are currently separate 1-hour ozone nonattainment areas classified as severe. Based on the 1999 Office of Management & Budget (OMB) definition of metropolitan areas, the Baltimore and the Washington Areas are Primary Metropolitan Statistical Areas (PMSA) within the Washington-</p>		

Baltimore C/MSA. In the November 6, 1991 Air Quality Designations and Classifications Final Rule (56 FR 56694), EPA established Baltimore and Washington as separate 1-hour ozone nonattainment areas. These boundaries were based on the PMSA grouping. The Baltimore and Washington Areas are two fairly large metropolitan areas on their own and to combine them would disrupt the current air quality planning processes and, instead, create a new and very cumbersome air quality planning process for the states involved. For years, these areas have worked separately and effectively within their own Metropolitan Planning Organizations (MPOs). Maryland and Virginia, who are part of the Washington-Baltimore C/MSA strongly recommend EPA to recognize and maintain the current planning processes that have cooperatively undertaken the necessary air quality planning and transportation conformity processes. The complexity of the planning for attainment of the 8-hour ozone standard requires that, where feasible and reasonable, successful existing air quality planning processes be preserved.

2000 Population: 754,292	VOC (tpy): 28,804	%drive to work: 99 Washington-- Baltimore, DC
1990-2000 growth: 9.0%	NOx (tpy): 45,274	Wind direction: not considered
2000-2010 growth: 3.0%	1999 Veh. mi. travelled (mln): 6,437	Topographical features: not considered

Calvert County, Maryland

2004 Designation: Nonattainment		County design value: N/A
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: We are designating Calvert County as part of the Washington, D.C.-MD-VA nonattainment area. The Washington D.C. nonattainment area includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 74,563	VOC (tpy): 5,430	%drive to work: 89 Washington-- Baltimore, DC
1990-2000 growth: 45.1%	NOx (tpy): 3,263	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 775	Topographical features: not considered

Caroline County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 29,772	VOC (tpy): 2,922	%drive to work: 16 Washington-- Baltimore, DC
1990-2000 growth: 10.1%	NOx (tpy): 1,513	Wind direction: not considered

2000-2010 growth: 7.7%	1999 Veh. mi. travelled (mln): 306	Topographical features: not considered
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Carroll County, Maryland

2004 Designation: Nonattainment		County design value: 89
Area: Baltimore, MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: The Baltimore 8-hour ozone nonattainment area consists of Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. The Maryland portion of the Washington Area consists of Calvert County, Charles County, Frederick County, Montgomery County, and Prince Georges County. The separation of these areas is consistent with the 1-hour boundaries. The Baltimore and the Washington Areas are currently separate 1-hour ozone nonattainment areas classified as severe. Based on the 1999 Office of Management & Budget (OMB) definition of metropolitan areas, the Baltimore and the Washington Areas are Primary Metropolitan Statistical Areas (PMSA) within the Washington-Baltimore C/MSA. In the November 6, 1991 Air Quality Designations and Classifications Final Rule (56 FR 56694), EPA established Baltimore and Washington as separate 1-hour ozone nonattainment areas. These boundaries were based on the PMSA grouping. The Baltimore and Washington Areas are two fairly large metropolitan areas on their own and to combine them would disrupt the current air quality planning processes and, instead, create a new and very cumbersome air quality planning process for the states involved. For years, these areas have worked separately and effectively within their own Metropolitan Planning Organizations (MPOs). Maryland and Virginia, which are part of the Washington-Baltimore C/MSA strongly recommend EPA to recognize and maintain the current planning processes because these areas have cooperatively undertaken the necessary air quality planning and transportation conformity processes. The complexity of the planning for attainment of the 8-hour ozone standard requires that, where feasible and reasonable, successful existing air quality planning processes be preserved.</p>		
2000 Population: 150,897	VOC (tpy): 12,945	%drive to work: 98 Washington-- Baltimore, DC
1990-2000 growth: 22.3%	NOx (tpy): 11,819	Wind direction: not considered
2000-2010 growth: 15.1%	1999 Veh. mi. travelled (mln): 1,479	Topographical features: not considered

Cecil County, Maryland

2004 Designation: Nonattainment		County design value: 98
Area: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Maryland portion of the Philadelphia nonattainment area consists of Cecil County.		
2000 Population: 85,951	VOC (tpy): 6,746	%drive to work: 82 Philadelphia-- Wilmington-
1990-2000 growth: 20.5%	NOx (tpy): 5,704	Wind direction: not considered
2000-2010 growth: 11.0%	1999 Veh. mi. travelled (mln): 1,220	Topographical features: not considered

Charles County, Maryland

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2004 Designation: Nonattainment		County design value: 94
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: We are designating Charles County as part of the Washington, D.C. nonattainment area, which includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 120,546	VOC (tpy): 8,187	%drive to work: 96 Washington--Baltimore, DC
1990-2000 growth: 19.2%	NOx (tpy): 26,527	Wind direction: not considered
2000-2010 growth: 22.3%	1999 Veh. mi. travelled (mln): 929	Topographical features: not considered

Dorchester County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this Dorchester County as attainment/unclassifiable. This county does not have a violating monitor and EPA's analysis of the 11 factors indicates that this county does not contribute to a violation in a nearby area. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 30,674	VOC (tpy): 5,359	%drive to work: 0 Philadelphia--Wilmington-
1990-2000 growth: 1.4%	NOx (tpy): 2,426	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 270	Topographical features: not considered

Frederick County, Maryland

2004 Designation: Nonattainment		County design value: 88
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is designating Frederick County as part of the Washington D.C. nonattainment area, which includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 195,277	VOC (tpy): 16,114	%drive to work: 98 Washington--Baltimore, DC
1990-2000 growth: 30.0%	NOx (tpy): 12,985	Wind direction: not considered
2000-2010 growth: 22.2%	1999 Veh. mi. travelled (mln): 2,352	Topographical features: not considered

Garrett County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating Garrett county as unclassifiable/attainment. This county does not have a monitor violating the standard and EPA's analysis of the 11 factors indicates that this county does not contribute to violations at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 29,846	VOC (tpy): 7,917	%drive to work: 2 Johnstown, PA MSA
1990-2000 growth: 6.1%	NOx (tpy): 4,506	Wind direction: not considered
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 853	Topographical features: not considered

Harford County, Maryland

2004 Designation: Nonattainment		County design value: 103
Area: Baltimore, MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is including Harford County as part of the Baltimore 8-hour ozone nonattainment area, which consists of Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. The Maryland portion of the Washington Area consists of Calvert County, Charles County, Frederick County, Montgomery County, and Prince Georges County. The separation of these areas is consistent with the 1-hour boundaries. The Baltimore and the Washington Areas are currently separate 1-hour ozone nonattainment areas classified as severe. Based on the 1999 Office of Management & Budget (OMB) definition of metropolitan areas, the Baltimore and the Washington Areas are Primary Metropolitan Statistical Areas (PMSA) within the Washington-Baltimore C/MSA. In the November 6, 1991 Air Quality Designations and Classifications Final Rule (56 FR 56694), EPA established Baltimore and Washington as separate 1-hour ozone nonattainment areas. These boundaries were based on the PMSA grouping. The Baltimore and Washington Areas are two fairly large metropolitan areas on their own and to combine them would disrupt the current air quality planning processes and, instead, create a new and very cumbersome air quality planning process for the states involved. For years, these areas have worked separately and effectively within their own Metropolitan Planning Organizations (MPOs). Maryland and Virginia, who are part of the Washington-Baltimore C/MSA strongly recommend EPA to recognize and maintain the current planning processes that have cooperatively undertaken the necessary air quality planning and transportation conformity processes. The complexity of the planning for attainment of the 8-hour ozone standard requires that, where feasible and reasonable, successful existing air quality planning processes be preserved.		
2000 Population: 218,590	VOC (tpy): 11,630	%drive to work: 96 Washington-- Baltimore, DC
1990-2000 growth: 20.0%	NOx (tpy): 8,948	Wind direction: not considered
2000-2010 growth: 8.6%	1999 Veh. mi. travelled (mln): 2,028	Topographical features: not considered

Howard County, Maryland

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2004 Designation: Nonattainment		County design value: N/A
Area: Baltimore, MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: EPA is including Howard County as part of the Baltimore 8-hour ozone nonattainment area, which consists of Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. The Maryland portion of the Washington Area consists of Calvert County, Charles County, Frederick County, Montgomery County, and Prince Georges County. The separation of these areas is consistent with the 1-hour boundaries. The Baltimore and the Washington Areas are currently separate 1-hour ozone nonattainment areas classified as severe. Based on the 1999 Office of Management & Budget (OMB) definition of metropolitan areas, the Baltimore and the Washington Areas are Primary Metropolitan Statistical Areas (PMSA) within the Washington-Baltimore C/MSA. In the November 6, 1991 Air Quality Designations and Classifications Final Rule (56 FR 56694), EPA established Baltimore and Washington as separate 1-hour ozone nonattainment areas. These boundaries were based on the PMSA grouping. The Baltimore and Washington Areas are two fairly large metropolitan areas on their own and to combine them would disrupt the current air quality planning processes and, instead, create a new and very cumbersome air quality planning process for the states involved. For years, these areas have worked separately and effectively within their own Metropolitan Planning Organizations (MPOs). Maryland and Virginia, who are part of the Washington-Baltimore C/MSA strongly recommend EPA to recognize and maintain the current planning processes that have cooperatively undertaken the necessary air quality planning and transportation conformity processes. The complexity of the planning for attainment of the 8-hour ozone standard requires that, where feasible and reasonable, successful existing air quality planning processes be preserved.</p>		
2000 Population: 247,842	VOC (tpy): 13,181	%drive to work: 99 Washington-- Baltimore, DC
1990-2000 growth: 32.3%	NOx (tpy): 10,282	Wind direction: not considered
2000-2010 growth: 10.6%	1999 Veh. mi. travelled (mln): 2,019	Topographical features: not considered

Kent County, Maryland

2004 Designation: Nonattainment		County design value: 95
Area: Kent and Queen Anne's Cos., MD		
MSA or CMSA: - outside -		
<p>Justification: The Kent & Queen Anne's 8-hour ozone nonattainment area consists of Kent, MD and Queen Anne's, MD. Queen Anne's County is part of the 1999 Baltimore MSA. Kent County is not part of any 1999 MSA or C/MSA. Kent and Queen Anne's Counties were a separate 1-hour ozone nonattainment area and Maryland requested that EPA preserve this arrangement under the 8-hour ozone nonattainment designations. EPA is granting this request on the basis that the separation of Kent & Queen Anne's Counties from the Baltimore nonattainment area will not jeopardize attainment of the ozone standard in either of these areas and will provide some flexibility for these areas. The separation of these areas is not to avoid implementing appropriate control measures but rather for ease of air quality planning.</p> <p>Maryland provided the following rationale to separate the Kent & Queen Anne's Area from the Baltimore, MD or Washington D.C. ozone nonattainment areas. The Kent & Queen Anne's area is located on the Eastern Shore of Maryland across the Chesapeake Bay from the rest of the MSA. Queen Anne's County is part of the Washington-Baltimore C/MSA. Kent County is not part of any</p>		

metropolitan statistical area. The Kent & Queen Anne's Area is a 1-hour ozone nonattainment area classified as marginal in 1991. Both Kent and Queen Anne's county are part of the Ozone Transport Region and have applied New Source Review, Enhanced Vehicle Emissions Inspection Program, VOC and NOx RACT, and many other control programs. In addition, Maryland adopted many of their control strategies statewide. They do not see that any additional control strategies would apply as the result of Kent and Queen Anne's counties being included in the Baltimore/Washington nonattainment area, and therefore, do not believe that there would be any environmental benefit to grouping Kent and Queen Anne with the rest of the C/MSA. The EPA analysis used all 11 criteria in our guidance to determine the appropriateness of separating Kent and Queen Anne's counties from Baltimore, which still designating these counties nonattainment. There are no utilities in the Kent & Queen Anne's area and the population density of these two counties is more than an order of magnitude lower than that of the Washington D.C. area. In addition, less than 0.1% of the commuting population into Washington D.C. comes from Kent and Queen Anne's counties.

2000 Population: 19,197	VOC (tpy): 2,478	%drive to work: 11 Washington-- Baltimore, DC
1990-2000 growth: 7.6%	NOx (tpy): 1,034	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 172	Topographical features: not considered

Montgomery County, Maryland

2004 Designation: Nonattainment		County design value: 88
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is including Montgomery County as part of the Washington D.C. nonattainment, which includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 873,341	VOC (tpy): 31,308	%drive to work: 99 Washington-- Baltimore, DC
1990-2000 growth: 15.4%	NOx (tpy): 37,402	Wind direction: not considered
2000-2010 growth: 11.6%	1999 Veh. mi. travelled (mln): 6,959	Topographical features: not considered

Prince George's County, Maryland

2004 Designation: Nonattainment		County design value: 93
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is including Prince George's County as part of the Washington D.C. nonattainment, which includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 801,515	VOC (tpy): 26,533	%drive to work: 99 Washington-- Baltimore, DC

1990-2000 growth: 9.9%	NOx (tpy): 49,430	Wind direction: not considered
2000-2010 growth: 8.4%	1999 Veh. mi. travelled (mln): 6,698	Topographical features: not considered

Queen Anne's County, Maryland

2004 Designation: Nonattainment		County design value: N/A
Area: Kent and Queen Anne's Cos., MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: The Kent & Queen Anne's 8-hour ozone nonattainment area consists of Kent, MD and Queen Anne's, MD. Queen Anne's County is part of the 1999 Baltimore MSA. Kent County is not part of any 1999 MSA or C/MSA. Kent and Queen Anne's Counties were a separate 1-hour ozone nonattainment area and Maryland requested that EPA preserve this arrangement under the 8-hour ozone nonattainment designations. EPA is granting this request on the basis that the separation of Kent & Queen Anne's Counties from the Baltimore nonattainment area will not jeopardize attainment of the ozone standard in either of these areas and will provide some flexibility for these areas. The separation of these areas is not to avoid implementing appropriate control measures but rather for ease of air quality planning.</p> <p>Maryland provided the following rationale to separate the Kent & Queen Anne's Area from the Baltimore, MD or Washington D.C. ozone nonattainment areas. The Kent & Queen Anne's area is located on the Eastern Shore of Maryland across the Chesapeake Bay from the rest of the MSA. Queen Anne's County is part of the Washington-Baltimore C/MSA. Kent County is not part of any metropolitan statistical area. The Kent & Queen Anne's Area is a 1-hour ozone nonattainment area classified as marginal in 1991. Both Kent and Queen Anne's county are part of the Ozone Transport Region and have applied New Source Review, Enhance Vehicle Emissions Inspection Program, VOC and NOx RACT, and many other control programs. In addition, Maryland adopted many of their control strategies statewide. They do not see that any additional control strategies would apply as the result of Kent and Queen Anne's counties being included in the Baltimore/Washington nonattainment area, and therefore, do not believe that there would be any environmental benefit to grouping Kent and Queen Anne with the rest of the C/MSA. The EPA analysis used all 11 criteria to determine the appropriateness of separating Kent and Queen Anne's counties from Baltimore, which still designating these counties nonattainment. There are no utilities in the Kent & Queen Anne's area and the population density of these two counties is more than an order of magnitude lower than that of the Washington D.C. area. In addition, less than 0.1% of the commuting population into Washington D.C. comes from Kent and Queen Anne's counties.</p>		
2000 Population: 40,563	VOC (tpy): 4,871	%drive to work: 82 Washington--Baltimore, DC
1990-2000 growth: 19.5%	NOx (tpy): 2,259	Wind direction: not considered
2000-2010 growth: 19.6%	1999 Veh. mi. travelled (mln): 469	Topographical features: not considered

St. Mary's County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating St Mary's county as unclassifiable/attainment. This county does not		

have a monitored violation of the 8-hour ozone standard and EPA's analysis of the 11 factors indicates that this county does not contribute to a violation in a nearby area. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 86,211	VOC (tpy): 9,304	%drive to work: 25 Washington--Baltimore, DC
1990-2000 growth: 13.5%	NOx (tpy): 3,909	Wind direction: not considered
2000-2010 growth: 16.9%	1999 Veh. mi. travelled (mln): 869	Topographical features: not considered

Talbot County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this Talbot County as unclassifiable/attainment. This county does not have a monitored violation of the 8-hour ozone standard and EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 33,812	VOC (tpy): 3,854	%drive to work: 13 Washington--Baltimore, DC
1990-2000 growth: 10.7%	NOx (tpy): 2,423	Wind direction: not considered
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 321	Topographical features: not considered

Washington County, Maryland

2004 Designation: Nonattainment		County design value: 86
Area: Washington Co. (Hagerstown), MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: Washington County is located in West-Central Maryland, bounded by Pennsylvania, Virginia and West Virginia and approximately 75 miles west of Washington, DC and Baltimore. This county has been approved by EPA as an Early Action Compact Area (EAC) (December 31, 2002). Since Maryland is part of the Ozone Transport Region (OTR), Washington County is already subject to New Source Review, Enhanced Vehicle Emissions Inspection Program, VOC and NOx RACT, and many other control programs. As an approved EAC area, Washington County's nonattainment designation will be deferred. If EAC milestones or requirements are not met and the nonattainment designation is made effective, Washington County would be classified based on the design value of the area. Although Washington County is a part of the Washington D.C. C/MSA, based on EPA's analysis of the 11 criteria, Washington County is characteristically distinct from that core metropolitan area. For example, VOC and NOx emission densities for Washington county are 12 and 11 tons/year-km², respectively, compared to the core Washington D.C. area's VOC and NOx emission densities of 17 and 24 tons/year-km², respectively. The percentage of the total NOx emissions in Washington County coming from utilities is only 6% compared to the Washington and Baltimore areas that have a 41 and 29 %, respectively.</p> <p>The greatest percentage of commuters into Washington D.C. come from the Baltimore area but even that percentage is less than 5% of the population. For Hagerstown, the percentage is 0.4%. The data</p>		

used for the EPA's analysis include 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, 1999 C/MSA boundaries (OMB), and the NOx SIP Call.

2000 Population: 131,923	VOC (tpy): 14,984	%drive to work: 95 Washington-- Baltimore, DC
1990-2000 growth: 8.7%	NOx (tpy): 12,469	Wind direction: not considered
2000-2010 growth: 5.4%	1999 Veh. mi. travelled (mln): 2,039	Topographical features: not considered

Wicomico County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating Wicomico County as unclassifiable/attainment. This county does not have a monitored violation of the 8-hour ozone standard and EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 84,644	VOC (tpy): 6,681	%drive to work: 0 Philadelphia-- Wilmington-
1990-2000 growth: 13.9%	NOx (tpy): 3,607	Wind direction: not considered
2000-2010 growth: 10.2%	1999 Veh. mi. travelled (mln): 767	Topographical features: not considered

Worcester County, Maryland

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating Worcester County as unclassifiable/attainment. This county does not have a monitored violation of the 8-hour ozone standard and EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 46,543	VOC (tpy): 4,886	%drive to work: 0 Philadelphia-- Wilmington-
1990-2000 growth: 32.9%	NOx (tpy): 1,953	Wind direction: not considered
2000-2010 growth: 11.4%	1999 Veh. mi. travelled (mln): 388	Topographical features: not considered

Baltimore City, Maryland

2004 Designation: Nonattainment		County design value: 82
Area: Baltimore, MD		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is including Baltimore City as part of the Baltimore 8-hour ozone nonattainment		

area, which consists of Anne Arundel County, Baltimore City, Baltimore County, Carroll County, Harford County, and Howard County. The Maryland portion of the Washington Area consists of Calvert County, Charles County, Frederick County, Montgomery County, and Prince Georges County. The separation of these areas is consistent with the 1-hour boundaries. The Baltimore and the Washington Areas are currently separate 1-hour ozone nonattainment areas classified as severe. Based on the 1999 Office of Management & Budget (OMB) definition of metropolitan areas, the Baltimore and the Washington Areas are Primary Metropolitan Statistical Areas (PMSA) within the Washington-Baltimore C/MSA. In the November 6, 1991 Air Quality Designations and Classifications Final Rule (56 FR 56694), EPA established Baltimore and Washington as separate 1-hour ozone nonattainment areas. These boundaries were based on the PMSA grouping. The Baltimore and Washington Areas are two fairly large metropolitan areas on their own and to combine them would disrupt the current air quality planning processes and, instead, create a new and very cumbersome air quality planning process for the states involved. For years, these areas have worked separately and effectively within their own Metropolitan Planning Organizations (MPOs). Maryland and Virginia, who are part of the Washington-Baltimore C/MSA strongly recommend EPA to recognize and maintain the current planning processes that have cooperatively undertaken the necessary air quality planning and transportation conformity processes. The complexity of the planning for attainment of the 8-hour ozone standard requires that, where feasible and reasonable, successful existing air quality planning processes be preserved.

2000 Population: 651,154	VOC (tpy): 22,878	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: -11.5%	NOx (tpy): 35,393	Wind direction: not considered
2000-2010 growth: 0.8%	1999 Veh. mi. travelled (mln): 6,290	Topographical features: not considered

Barnstable County, Massachusetts

2004 Designation: Nonattainment		County design value: 95
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Barnstable-Yarmouth, MA		
Justification: Includes the Truro monitor, which is violating the 8-hour ozone standard. It is a violating county, outside the Boston C/MSA. Massachusetts requested its inclusion as part of the Boston C/MSA nonattainment area. We agree with the recommendation.		
2000 Population: 222,230	VOC (tpy): 19,674	%drive to work: 3 Boston--Worcester--Lawren
1990-2000 growth: 19.1%	NOx (tpy): 17,208	Wind direction: not considered
2000-2010 growth: 23.3%	1999 Veh. mi. travelled (mln): 2,228	Topographical features: not considered

Berkshire County, Massachusetts

2004 Designation: Nonattainment		County design value: 87
Area: Springfield (W. Mass), MA		
MSA or CMSA: Pittsfield, MA		
Justification: EPA agrees with the State recommendation to include Berkshire County as part of the Springfield (Western MA) nonattainment area.		
2000 Population: 134,953	VOC (tpy): 10,359	%drive to work: 0

1990-2000 growth: -3.1%	NOx (tpy): 7,964	Wind direction: not considered
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 1,763	Topographical features: not considered

Bristol County, Massachusetts

2004 Designation: Nonattainment		County design value: 95
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: Bristol County is split between the Providence C/MSA, and the Boston C/MSA. The entire county is recommended to be nonattainment and part of the Boston MA area. We agree with the State's recommendation.		
2000 Population: 534,678	VOC (tpy): 26,570	%drive to work: 4 Boston--Worcester--Lawren
1990-2000 growth: 5.6%	NOx (tpy): 36,132	Wind direction: not considered
2000-2010 growth: 3.9%	1999 Veh. mi. travelled (mln): 4,222	Topographical features: not considered

Dukes County, Massachusetts

2004 Designation: Nonattainment		County design value: N/A
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: - outside -		
Justification: EPA agrees with the State's recommendation to include Dukes County as part of the Boston-Lawrence-Worcester nonattainment area.		
2000 Population: 14,987	VOC (tpy): 3,512	%drive to work: 1 Boston--Worcester--Lawren
1990-2000 growth: 28.8%	NOx (tpy): 604	Wind direction: not considered
2000-2010 growth: 44.5%	1999 Veh. mi. travelled (mln): 80	Topographical features: not considered

Essex County, Massachusetts

2004 Designation: Nonattainment		County design value: 93
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: EPA agrees with the State's recommendation to include Essex County as part of the Boston-Lawrence-Worcester nonattainment area.		
2000 Population: 723,419	VOC (tpy): 37,069	%drive to work: 11 Boston--Worcester--Lawren
1990-2000 growth: 8.0%	NOx (tpy): 35,556	Wind direction: not considered
2000-2010 growth: 4.5%	1999 Veh. mi. travelled (mln): 5,763	Topographical features: not considered

Franklin County, Massachusetts

2004 Designation: Nonattainment		County design value: N/A
Area: Springfield (W. Mass), MA		
MSA or CMSA: Springfield, MA		
Justification: EPA agrees with the State's recommendation to include Franklin County as part of the Springfield (Western MA) nonattainment area.		
2000 Population: 71,535	VOC (tpy): 7,288	%drive to work: 0
1990-2000 growth: 2.0%	NOx (tpy): 4,774	Wind direction: not considered
2000-2010 growth: 10.6%	1999 Veh. mi. travelled (mln): 1,269	Topographical features: not considered

Hampden County, Massachusetts

2004 Designation: Nonattainment		County design value: 94
Area: Springfield (W. Mass), MA		
MSA or CMSA: Springfield, MA		
Justification: EPA agrees with the State's recommendation to include Hampden County as part of the Springfield (Western MA) nonattainment area.		
2000 Population: 456,228	VOC (tpy): 22,032	%drive to work: 0
1990-2000 growth: -0.0%	NOx (tpy): 20,107	Wind direction: not considered
2000-2010 growth: 2.5%	1999 Veh. mi. travelled (mln): 3,781	Topographical features: not considered

Hampshire County, Massachusetts

2004 Designation: Nonattainment		County design value: 87
Area: Springfield (W. Mass), MA		
MSA or CMSA: Springfield, MA		
Justification: EPA agrees with the State's recommendation to include Hampshire County as part of the Springfield (Western MA) nonattainment area.		
2000 Population: 152,251	VOC (tpy): 9,365	%drive to work: 0
1990-2000 growth: 3.9%	NOx (tpy): 6,724	Wind direction: not considered
2000-2010 growth: 24.1%	1999 Veh. mi. travelled (mln): 1,606	Topographical features: not considered

Middlesex County, Massachusetts

2004 Designation: Nonattainment		County design value: 89
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: EPA agrees with the State's recommendation to include Middlesex County as part of the Boston-Worcester-Lawrence nonattainment area.		
2000 Population: 1,465,396	VOC (tpy): 72,358	%drive to work: 17 Boston--Worcester--Lawren

1990-2000 growth: 4.8%	NOx (tpy): 56,827	Wind direction: not considered
2000-2010 growth: 1.6%	1999 Veh. mi. travelled (mln): 11,155	Topographical features: not considered

Nantucket County, Massachusetts

2004 Designation: Nonattainment		County design value: N/A
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: - outside -		
Justification: EPA agrees with the State's recommended to include Nantucket County as part of the Boston-Lawrence-Worcester nonattainment area.		
2000 Population: 9,520	VOC (tpy): 2,324	%drive to work: 0 Boston--Worcester--Lawren
1990-2000 growth: 58.3%	NOx (tpy): 392	Wind direction: not considered
2000-2010 growth: 10.6%	1999 Veh. mi. travelled (mln): 39	Topographical features: not considered

Norfolk County, Massachusetts

2004 Designation: Nonattainment		County design value: N/A
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: We agree with the State's recommendation to designate Norfolk County as part of the Boston-Lawrence-Worcester nonattainment area.		
2000 Population: 650,308	VOC (tpy): 35,483	%drive to work: 26 Boston--Worcester--Lawren
1990-2000 growth: 5.5%	NOx (tpy): 27,661	Wind direction: not considered
2000-2010 growth: 4.1%	1999 Veh. mi. travelled (mln): 6,230	Topographical features: not considered

Plymouth County, Massachusetts

2004 Designation: Nonattainment		County design value: N/A
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: We agree with the State's recommendation to designate Plymouth County as part of the Boston-Lawrence-Worcester nonattainment area.		
2000 Population: 472,822	VOC (tpy): 27,550	%drive to work: 13 Boston--Worcester--Lawren
1990-2000 growth: 8.6%	NOx (tpy): 16,608	Wind direction: not considered
2000-2010 growth: 7.4%	1999 Veh. mi. travelled (mln): 3,505	Topographical features: not considered

Suffolk County, Massachusetts

2004 Designation: Nonattainment		County design value: 91
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: We agree with the State's recommendation to designate Suffolk County as part of the Boston-Lawrence-Worcester nonattainment area.		
2000 Population: 689,807	VOC (tpy): 28,868	%drive to work: 67 Boston--Worcester--Lawren
1990-2000 growth: 3.9%	NOx (tpy): 51,715	Wind direction: not considered
2000-2010 growth: 0.9%	1999 Veh. mi. travelled (mln): 2,706	Topographical features: not considered

Worcester County, Massachusetts

2004 Designation: Nonattainment		County design value: 86
Area: Boston-Lawrence-Worcester (E. Mass), MA		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
Justification: The full county is nonattainment. We agree with the State's recommendation.		
2000 Population: 750,963	VOC (tpy): 41,049	%drive to work: 2 Boston--Worcester--Lawren
1990-2000 growth: 5.8%	NOx (tpy): 33,044	Wind direction: not considered
2000-2010 growth: 9.8%	1999 Veh. mi. travelled (mln): 7,163	Topographical features: not considered

Allegan County, Michigan

2004 Designation: Nonattainment		County design value: 97
Area: Allegan Co., MI		
MSA or CMSA: Grand Rapids-Muskegon-Holland, MI		
<p>Justification: This area is part of a four county area in Western Michigan that the State has requested be separated into three distinct nonattainment areas, the Allegan County area (1 county), the Muskegon County area (1 county), and the Grand Rapids area (Kent and Ottawa Counties). The separation of this area into three nonattainment areas is consistent with metropolitan planning area jurisdictions, and also mirrors nonattainment boundaries for the 1-hour ozone standard. In addition to these arguments, the State contends that the area should be split to allow flexibility to address the overwhelming transport problem in this part of the state.</p> <p>The EPA agrees with the State of Michigan's assertion that the Grand Rapids-Holland-Allegan area is impacted by a unique ozone transport situation caused by the unique meteorology above and around Lake Michigan. This transport phenomenon is responsible for significantly higher ozone levels at the Lake Michigan shore, the site of the ozone monitors in both Allegan and Muskegon Counties. Ozone levels drop significantly as the pollutants travel over land, despite the influx of emissions from Michigan sources. As a result of this phenomenon, described in more detail below, the EPA believes that it is appropriate to split this area into three separate nonattainment areas, two of which reflect the</p>		

unique ozone transport situation that exists near the lakefront (Allegan and Muskegon), and the other that better reflects the impact of sources within Michigan (Grand Rapids). The EPA believes that the overwhelming ozone transport problem that has been documented in the area provides sufficient technical justification for splitting the area. In addition, EPA believes that dividing the area along 1-hour ozone nonattainment and metropolitan area jurisdiction lines will allow the areas to best address the transport problem, as they were able to do under the 1-hour ozone standard.

For some time, EPA has recognized the ozone transport problem in Western Michigan. At the time the EPA classified areas for ozone in 1991, the ozone air quality data that had been collected in Muskegon County would have placed the area in the severe ozone classification along with cities such as New York, Chicago, Milwaukee, and Baltimore. Recognizing that such high ozone levels could only occur in an area like Muskegon as the result of transport from upwind areas and with new air quality data in hand, the EPA utilized its authority under section 181(a)(4) of the Clean Air Act (CAA) to downgrade the Muskegon area to the serious nonattainment classification. On November 30, 1992 (57 FR 56762), the area's classification was further downgraded to the moderate nonattainment classification, based on new information on air quality data.

Since that time, EPA has worked closely on the regional Lake Michigan Ozone Study. The Lake Michigan Ozone Study is a four State effort designed to better understand the ozone problem in the Lake Michigan Area. Begun in 1990, the Lake Michigan Ozone Study undertook an extensive ozone field study during the summer of 1991 to compile a comprehensive database on air quality levels, meteorological data, and emissions information in Michigan, Wisconsin, Indiana, and Illinois. The primary purpose of this study was to develop a state of the art computerized photochemical grid model capable of simulating the complex series of chemical reactions associated with ozone formation specific to the Lake Michigan area. This model was first used to assess the sources of the ozone problem in this region and has been used to assess the effectiveness of future control strategies in reducing ozone in the Lake Michigan area.

Originally, the goal of the four State effort was to develop appropriate control strategies in each of the States sufficient to achieve attainment of the 1-hour ozone standard across the region. The photochemical grid model developed by the Lake Michigan Air Directors' Consortium (LADCO) was designed to give these States the most advanced tool available to make air quality pollution control decisions based on sound science. Ultimately, EPA approved 1-hour ozone attainment demonstrations based on this modeling.

Information collected as part of the Lake Michigan Ozone Study has indicated that, under the proper conditions, ozone can be transported hundreds of miles and cause exceedances of the ozone standard in extremely remote parts of the Lake Michigan area. This study confirmed the EPA's suspicion that transport was a major component in the ozone problem in the Lake Michigan area and provided the sound technical analysis to gauge the extent of the problem for the first time. From the beginning, the Lake Michigan Ozone Study has indicated that areas upwind of the Western Michigan areas, such as the northwest Indiana (Gary), Northeast Illinois (Chicago), and southeast Wisconsin (Milwaukee) areas must control their emissions to ensure that Western Michigan can attain the ozone standard. While there was always an awareness that the ozone problem in Western Michigan was largely due to the transport of ozone from urban areas across Lake Michigan, the information demonstrating the extent of these areas' contribution to the regional problem was not available.

Over the last several years, the release of data by LADCO, and other information that has been collected throughout the Lake Michigan area, has enabled the EPA to better identify the specific contribution of some of the areas to the transport situation in the region. In particular, modeling

analyses of Muskegon County emissions to 1-hour ozone levels in the area demonstrate the dramatic ozone transport problem.

While many areas around the country are subject to some level of transported ozone, information submitted by Michigan in 1994 regarding the impacts of Muskegon County demonstrates the magnitude of the transport problem in West Michigan. At that time, State submitted modeling showed that emissions from Muskegon County had no impact on its own, or downwind nonattainment problems, even under 100% control scenarios.

Additionally, meteorological analyses submitted by the State at that time clearly documented the transport problem in the Lake Michigan area. By tracking ozone levels across the Lake using ferry mounted monitoring equipment, as well as aircraft data, this meteorological analysis identified ozone levels well in excess of what would be expected in an area with the population and emission densities of Muskegon. This data supports the conclusion that the Muskegon area is severely affected by transport and does not have the ability to control its ozone problem.

More recent data looking at wind roses developed for Western Michigan indicates that there have not been significant changes to meteorological conditions in the area in recent years. Given the similar geography, monitor locations, and even lower emissions in Allegan County, EPA believes that this argument holds for that county as well.

Based on the above factors, the EPA believes that overwhelming ozone transport has been adequately demonstrated in Western Michigan, and EPA believes that air monitors located close to the Lake Michigan shore are measuring an air quality problem that is originating entirely from upwind areas. As a result, the lakefront in Western Michigan is experiencing a unique air quality phenomenon that is significantly different from the ozone situation monitored further inland. As a result, the EPA believes that it is appropriate to split the Grand Rapids-Holland-Muskegon area into three separate nonattainment areas in recognition of the ozone transport problem and the difference in the ozone situation between the lakefront and inland areas.

2000 Population: 105,665	VOC (tpy): 9,850	%drive to work: 86 Grand Rapids--Muskegon--H
1990-2000 growth: 16.7%	NOx (tpy): 7,500	Wind direction: Lake Michigan Transport Area
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 1,255	Topographical features: not considered

Barry County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county does not contain a violating monitor and it is not part of a C/MSA/MSA with a violating monitor. It is outside of the presumptive area and contains low emissions for this area.		
2000 Population: 56,755	VOC (tpy): 3,339	%drive to work: 31 Grand Rapids--Muskegon--H
1990-2000 growth: 13.4%	NOx (tpy): 2,047	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

Benzie County, Michigan

2004 Designation: Nonattainment		County design value: 88
Area: Benzie Co., MI		
MSA or CMSA: - outside -		
Justification: The county contains a monitor in violation of the standard. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 15,998	VOC (tpy): 2,697	%drive to work: 0
1990-2000 growth: 31.1%	NOx (tpy): 981	Wind direction: not considered
2000-2010 growth: 1.3%	1999 Veh. mi. travelled (mln): 159	Topographical features: not considered

Berrien County, Michigan

2004 Designation: Nonattainment		County design value: 91
Area: Benton Harbor, MI		
MSA or CMSA: Benton Harbor, MI		
Justification: The county contains a monitor in violation of the standard. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 162,453	VOC (tpy): 12,157	%drive to work: 81 Benton Harbor, MI MSA
1990-2000 growth: 0.7%	NOx (tpy): 10,819	Wind direction: not considered
2000-2010 growth: - 1.0%	1999 Veh. mi. travelled (mln): 1,994	Topographical features: not considered

Branch County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county does not contain a violating monitor and it is not part of a C/MSA/MSA with a violating monitor. It contains low population, emissions, and growth for this area.		
2000 Population: 45,787	VOC (tpy): 3,536	%drive to work:
1990-2000 growth: 10.3%	NOx (tpy): 3,389	Wind direction: not considered
2000-2010 growth: 0.7%	1999 Veh. mi. travelled (mln): 619	Topographical features: not considered

Calhoun County, Michigan

2004 Designation: Nonattainment		County design value: N/A
Area: Kalamazoo-Battle Creek, MI		
MSA or CMSA: Kalamazoo-Battle Creek, MI		
Justification: The county does not contain a violating monitor, but it is part of the Kalamazoo-Battle		

Creek MSA. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 137,985	VOC (tpy): 8,612	%drive to work:
1990-2000 growth: 1.5%	NOx (tpy): 8,472	Wind direction: not considered
2000-2010 growth: 5.4%	1999 Veh. mi. travelled (mln): 1,646	Topographical features: not considered

Cass County, Michigan

2004 Designation: Nonattainment		County design value: 93
Area: Cass County, MI		
MSA or CMSA: - outside -		
Justification: The county contains a monitor in violation of the standard. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 51,104	VOC (tpy): 3,324	%drive to work: 13 Benton Harbor, MI MSA
1990-2000 growth: 3.3%	NOx (tpy): 2,176	Wind direction: not considered
2000-2010 growth: -1.4%	1999 Veh. mi. travelled (mln): 353	Topographical features: not considered

Clinton County, Michigan

2004 Designation: Nonattainment		County design value: 86
Area: Lansing-East Lansing, MI		
MSA or CMSA: Lansing-East Lansing, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Lansing-East Lansing MSA. Michigan recommended that the county be designated nonattainment along with the rest of the MSA and EPA agrees.		
2000 Population: 64,753	VOC (tpy): 4,300	%drive to work:
1990-2000 growth: 11.9%	NOx (tpy): 4,251	Wind direction: not considered
2000-2010 growth: 1.3%	1999 Veh. mi. travelled (mln): 811	Topographical features: not considered

Eaton County, Michigan

2004 Designation: Nonattainment		County design value: N/A
Area: Lansing-East Lansing, MI		
MSA or CMSA: Lansing-East Lansing, MI		
Justification: The county does not contain a violating monitor, but it is part of the Lansing-East Lansing MSA. Michigan recommended that the county be designated nonattainment along with the rest of the MSA and EPA agrees.		
2000 Population: 103,655	VOC (tpy): 5,534	%drive to work:
1990-2000 growth: 11.6%	NOx (tpy): 8,088	Wind direction: not considered
2000-2010 growth: 5.7%	1999 Veh. mi. travelled (mln): 1,101	Topographical features: not considered

Genesee County, Michigan

2004 Designation: Nonattainment		County design value: 90
Area: Flint, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
<p>Justification: Michigan has requested that Flint (Genesee and Lapeer Counties) be designated as a separate nonattainment area from the Detroit-Ann Arbor area. Genesee County is monitoring nonattainment; Lapeer County has no monitor. When EPA designated 1-hour ozone areas in 1990, the Flint area (Genesee County) and the Detroit-Ann Arbor area (Wayne, Oakland, Macomb, Monroe, Washtenaw, Livingston, and St. Clair Counties) were designated separately. The areas have established planning organizations which successfully brought their respective areas into attainment of the 1-hour ozone standard. The state would prefer not to disrupt the successful planning structures already in place.</p> <p>The ozone season wind rose provided by Michigan for Flint shows that prevailing winds are primarily from the southwest quadrant. This southwesterly wind flow is similar to the wind patterns for Detroit. Since Genesee and Lapeer Counties are on the extreme northwest edge of the Detroit-Ann Arbor-Flint C/MSA, this southwesterly flow would tend to minimize the impact of each area on the other. The Detroit-Ann Arbor area consistently monitors higher ozone levels than the Flint area, and will be required to implement control measures to bring their own area into attainment. These emission reductions will benefit Flint in these circumstances.</p> <p>For these reasons, EPA believes it is appropriate to designate Flint and Detroit-Ann Arbor as separate areas.</p>		
2000 Population: 436,141	VOC (tpy): 24,077	%drive to work: 95 Detroit--Ann Arbor--Flint
1990-2000 growth: 1.3%	NOx (tpy): 21,582	Wind direction: not considered
2000-2010 growth: -1.1%	1999 Veh. mi. travelled (mln): 4,687	Topographical features: not considered

Grand Traverse County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Grand Traverse County does not contain a violating monitor and it is not part of a C/MSA/MSA with a violating monitor.		
2000 Population: 77,654	VOC (tpy): 5,344	%drive to work: 0
1990-2000 growth: 20.8%	NOx (tpy): 3,974	Wind direction: not considered
2000-2010 growth: 12.6%	1999 Veh. mi. travelled (mln): 712	Topographical features: not considered

Hillsdale County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: Hillsdale County does not contain a violating monitor. Is not part of a C/MSA/MSA with a violating monitor. For the area, the county has low population, low emissions, and low growth.

2000 Population: 46,527	VOC (tpy): 3,224	%drive to work: 10 Detroit--Ann Arbor--Flint
1990-2000 growth: 7.1%	NOx (tpy): 3,598	Wind direction: not considered
2000-2010 growth: 5.7%	1999 Veh. mi. travelled (mln): 438	Topographical features: not considered

Huron County, Michigan

2004 Designation: Nonattainment		County design value: 87
Area: Huron Co., MI		
MSA or CMSA: - outside -		
Justification: The county contains a monitor in violation of the standard. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 36,079	VOC (tpy): 4,491	%drive to work:
1990-2000 growth: 3.2%	NOx (tpy): 3,881	Wind direction: not considered
2000-2010 growth: -4.4%	1999 Veh. mi. travelled (mln): 334	Topographical features: not considered

Ingham County, Michigan

2004 Designation: Nonattainment		County design value: 85
Area: Lansing-East Lansing, MI		
MSA or CMSA: Lansing-East Lansing, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Lansing-East Lansing MSA. Michigan recommended that the county be designated nonattainment along with the rest of the MSA and EPA agrees.		
2000 Population: 279,320	VOC (tpy): 14,866	%drive to work: 6 Detroit--Ann Arbor--Flint
1990-2000 growth: -0.9%	NOx (tpy): 18,126	Wind direction: not considered
2000-2010 growth: 0.3%	1999 Veh. mi. travelled (mln): 2,687	Topographical features: not considered

Ionia County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Ionia County does not contain a violating monitor. Is not part of a C/MSA/MSA with a violating monitor. The county has low emissions and growth for this area.		
2000 Population: 61,518	VOC (tpy): 3,919	%drive to work: 28 Grand Rapids--Muskegon--H
1990-2000 growth: 7.9%	NOx (tpy): 3,486	Wind direction: not considered

2000-2010 growth: 3.7%	1999 Veh. mi. travelled (mln): 678	Topographical features: not considered
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Jackson County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Jackson, MI		
Justification: Jackson County does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor. The county has low emissions and growth for the area.		
2000 Population: 158,422	VOC (tpy): 9,586	%drive to work: 15 Detroit--Ann Arbor--Flint
1990-2000 growth: 5.8%	NOx (tpy): 8,321	Wind direction: not considered
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 1,797	Topographical features: not considered

Kalamazoo County, Michigan

2004 Designation: Nonattainment		County design value: 86
Area: Kalamazoo-Battle Creek, MI		
MSA or CMSA: Kalamazoo-Battle Creek, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Kalamazoo-Battle Creek MSA. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 238,603	VOC (tpy): 13,919	%drive to work: 4 Grand Rapids--Muskegon--H
1990-2000 growth: 6.8%	NOx (tpy): 13,022	Wind direction: not considered
2000-2010 growth: 1.1%	1999 Veh. mi. travelled (mln): 2,351	Topographical features: not considered

Kent County, Michigan

2004 Designation: Nonattainment		County design value: 88
Area: Grand Rapids, MI		
MSA or CMSA: Grand Rapids-Muskegon-Holland, MI		
<p>Justification: This area is part of a four county area in Western Michigan that the State has requested be separated into three distinct nonattainment areas, the Allegan County area (1 county), the Muskegon County area (1 county), and the Grand Rapids area (Kent and Ottawa Counties). The separation of this area into three nonattainment areas is consistent with metropolitan planning area jurisdictions, and also mirrors nonattainment boundaries for the 1-hour ozone standard. In addition to these arguments, the State contends that the area should be split to allow flexibility to address the overwhelming transport problem in this part of the state.</p> <p>The EPA agrees with the State of Michigan's assertion that the Grand Rapids-Holland-Allegan area is impacted by a unique ozone transport situation caused by the unique meteorology above and around Lake Michigan. This transport phenomenon is responsible for significantly higher ozone levels at the</p>		

Lake Michigan shore, the site of the ozone monitors in both Allegan and Muskegon Counties. Ozone levels drop significantly as the pollutants travel over land, despite the influx of emissions from Michigan sources. As a result of this phenomenon, described in more detail below, the EPA believes that it is appropriate to split this area into three separate nonattainment areas, two of which reflect the unique ozone transport situation that exists near the lakefront (Allegan and Muskegon), and the other that better reflects the impact of sources within Michigan (Grand Rapids). The EPA believes that the overwhelming ozone transport problem that has been documented in the area provides sufficient technical justification for splitting the area. In addition, EPA believes that dividing the area along 1-hour ozone nonattainment and metropolitan area jurisdiction lines will allow the areas to best address the transport problem, as they were able to do under the 1-hour ozone standard.

For some time, EPA has recognized the ozone transport problem in Western Michigan. At the time the EPA classified areas for ozone in 1991, the ozone air quality data that had been collected in Muskegon County would have placed the area in the severe ozone classification along with cities such as New York, Chicago, Milwaukee, and Baltimore. Recognizing that such high ozone levels could only occur in an area like Muskegon as the result of transport from upwind areas and with new air quality data in hand, the EPA utilized its authority under section 181(a)(4) of the Clean Air Act (CAA) to downgrade the Muskegon area to the serious nonattainment classification. On November 30, 1992 (57 FR 56762), the area's classification was further downgraded to the moderate nonattainment classification, based on new information on air quality data.

Since that time, EPA has worked closely on the regional Lake Michigan Ozone Study. The Lake Michigan Ozone Study is a four State effort designed to better understand the ozone problem in the Lake Michigan Area. Begun in 1990, the Lake Michigan Ozone Study undertook an extensive ozone field study during the summer of 1991 to compile a comprehensive database on air quality levels, meteorological data, and emissions information in Michigan, Wisconsin, Indiana, and Illinois. The primary purpose of this study was to develop a state of the art computerized photochemical grid model capable of simulating the complex series of chemical reactions associated with ozone formation specific to the Lake Michigan area. This model was first used to assess the sources of the ozone problem in this region and has been used to assess the effectiveness of future control strategies in reducing ozone in the Lake Michigan area.

Originally, the goal of the four State effort was to develop appropriate control strategies in each of the States sufficient to achieve attainment of the 1-hour ozone standard across the region. The photochemical grid model developed by the Lake Michigan Air Directors' Consortium (LADCO) was designed to give these States the most advanced tool available to make air quality pollution control decisions based on sound science. Ultimately, EPA approved 1-hour ozone attainment demonstrations based on this modeling.

Information collected as part of the Lake Michigan Ozone Study has indicated that, under the proper conditions, ozone can be transported hundreds of miles and cause exceedances of the ozone standard in extremely remote parts of the Lake Michigan area. This study confirmed the EPA's suspicion that transport was a major component in the ozone problem in the Lake Michigan area and provided the sound technical analysis to gauge the extent of the problem for the first time. From the beginning, the Lake Michigan Ozone Study has indicated that areas upwind of the Western Michigan areas, such as the northwest Indiana (Gary), Northeast Illinois (Chicago), and southeast Wisconsin (Milwaukee) areas must control their emissions to ensure that Western Michigan can attain the ozone standard. While there was always an awareness that the ozone problem in Western Michigan was largely due to the transport of ozone from urban areas across Lake Michigan, the information demonstrating the extent of these areas' contribution to the regional problem was not available.

Over the last several years, the release of data by LADCO, and other information that has been collected throughout the Lake Michigan area, has enabled the EPA to better identify the specific contribution of some of the areas to the transport situation in the region. In particular, modeling analyses of Muskegon County emissions to 1-hour ozone levels in the area demonstrate the dramatic ozone transport problem.

While many areas around the country are subject to some level of transported ozone, information submitted by Michigan in 1994 regarding the impacts of Muskegon County demonstrates the magnitude of the transport problem in West Michigan. At that time, State submitted modeling showed that emissions from Muskegon County had no impact on its own, or downwind nonattainment problems, even under 100% control scenarios.

Additionally, meteorological analyses submitted by the State at that time clearly documented the transport problem in the Lake Michigan area. By tracking ozone levels across the Lake using ferry mounted monitoring equipment, as well as aircraft data, this meteorological analysis identified ozone levels well in excess of what would be expected in an area with the population and emission densities of Muskegon. This data supports the conclusion that the Muskegon area is severely affected by transport and does not have the ability to control its ozone problem.

More recent data looking at wind roses developed for Western Michigan indicates that there have not been significant changes to meteorological conditions in the area in recent years. Given the similar geography, monitor locations, and even lower emissions in Allegan County, EPA believes that this argument holds for that county as well.

Based on the above factors, the EPA believes that overwhelming ozone transport has been adequately demonstrated in Western Michigan, and EPA believes that air monitors located close to the Lake Michigan shore are measuring an air quality problem that is originating entirely from upwind areas. As a result, the lakefront in Western Michigan is experiencing a unique air quality phenomenon that is significantly different from the ozone situation monitored further inland. As a result, the EPA believes that it is appropriate to split the Grand Rapids-Holland-Muskegon area into three separate nonattainment areas in recognition of the ozone transport problem and the difference in the ozone situation between the lakefront and inland areas.

2000 Population: 574,335	VOC (tpy): 35,737	%drive to work: 97 Grand Rapids--Muskegon--H
1990-2000 growth: 14.7%	NOx (tpy): 24,676	Wind direction: Lake Michigan Transport Area
2000-2010 growth: 5.7%	1999 Veh. mi. travelled (mln): 5,227	Topographical features: not considered

Lake County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county does not contain a violating monitor and it is not part of a C/MSA/MSA with a violating monitor. It has low population, emissions, and growth for this area.		
2000 Population: 11,333	VOC (tpy): 2,164	%drive to work: 0
1990-2000 growth: 32.0%	NOx (tpy): 558	Wind direction: not considered

2000-2010 growth: -0.3%	1999 Veh. mi. travelled (mln): 111	Topographical features: not considered
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Lapeer County, Michigan

2004 Designation: Nonattainment		County design value: N/A
Area: Flint, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
<p>Justification: Michigan has requested that Flint (Genesee and Lapeer Counties) be designated as a separate nonattainment area from the Detroit-Ann Arbor area. Genesee County is monitoring nonattainment; Lapeer County has no monitor. When EPA designated 1-hour ozone areas in 1990, the Flint area (Genesee County) and the Detroit-Ann Arbor area (Wayne, Oakland, Macomb, Monroe, Washtenaw, Livingston, and St. Clair Counties) were designated separately. The areas have established planning organizations which successfully brought their respective areas into attainment of the 1-hour ozone standard. The state would prefer not to disrupt the successful planning structures already in place.</p> <p>The ozone season wind rose provided by Michigan for Flint shows that prevailing winds are primarily from the southwest quadrant. This southwesterly wind flow is similar to the wind patterns for Detroit. Since Genesee and Lapeer Counties are on the extreme northwest edge of the Detroit-Ann Arbor-Flint C/MSA, this southwesterly flow would tend to minimize the impact of each area on the other. On occasion, the Genesee County monitors have measured elevated ozone levels when winds are from the southeast. On these occasions, the monitors are likely being impacted by Detroit. However, the Detroit-Ann Arbor area consistently monitors higher ozone levels than the Flint area, and will be required to implement control measures to bring their own area into attainment. These emission reductions will benefit Flint in these circumstances.</p> <p>For these reasons, EPA believes it is appropriate to designate Flint and Detroit-Ann Arbor as separate areas.</p>		
2000 Population: 87,904	VOC (tpy): 5,844	%drive to work: 96 Detroit--Ann Arbor--Flint
1990-2000 growth: 17.6%	NOx (tpy): 5,567	Wind direction: not considered
2000-2010 growth: 15.0%	1999 Veh. mi. travelled (mln): 1,098	Topographical features: not considered

Leelanau County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Leelanau County does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor. The county has low population, emissions, and growth.</p>		
2000 Population: 21,119	VOC (tpy): 4,258	%drive to work: 0
1990-2000 growth: 27.8%	NOx (tpy): 1,135	Wind direction: not considered
2000-2010 growth: -2.5%	1999 Veh. mi. travelled (mln): 139	Topographical features: not considered

Lenawee County, Michigan

2004 Designation: Nonattainment		County design value: 87
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: Michigan requested that Lenawee be split from the Detroit-Ann Arbor Area, and designated as a separate nonattainment area. Lenawee County has a violating monitor and is part of the 1999 Detroit-Ann Arbor C/MSA. Michigan notes that "Lenawee County has relatively low emissions and population density." Nevertheless, wind roses submitted by the state indicate that Lenawee is on the upwind edge of the C/MSA, so any emissions, however small, would be expected to contribute to increased ozone levels monitored within the county as well as in downwind areas. There is no clear and compelling reason to separate Lenawee from Detroit.		
2000 Population: 98,890	VOC (tpy): 5,755	%drive to work: 90 Detroit--Ann Arbor--Flint
1990-2000 growth: 8.1%	NOx (tpy): 4,728	Wind direction: upwind
2000-2010 growth: 5.8%	1999 Veh. mi. travelled (mln): 880	Topographical features: not considered

Livingston County, Michigan

2004 Designation: Nonattainment		County design value: N/A
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county does not contain a violating monitor, but it is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		
2000 Population: 156,951	VOC (tpy): 8,060	%drive to work: 96 Detroit--Ann Arbor--Flint
1990-2000 growth: 35.7%	NOx (tpy): 8,492	Wind direction: not considered
2000-2010 growth: 13.9%	1999 Veh. mi. travelled (mln): 1,742	Topographical features: not considered

Macomb County, Michigan

2004 Designation: Nonattainment		County design value: 97
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		
2000 Population: 788,149	VOC (tpy): 36,353	%drive to work: 99 Detroit--Ann Arbor--Flint
1990-2000 growth: 9.9%	NOx (tpy): 34,152	Wind direction: not considered
2000-2010 growth: -1.8%	1999 Veh. mi. travelled (mln): 6,500	Topographical features: not considered

Manistee County, Michigan

2004 Designation: Unclassifiable/Attainment	County design value: N/A
Area: - attainment -	
MSA or CMSA: - outside -	
<p>Justification: Manistee County is likely experiencing the same long range transport phenomena experienced by the surrounding counties on the Lake Michigan shoreline. However, Manistee County does not contain a violating monitor. In this case it would be appropriate to examine the eleven factors to determine if Manistee County should be included in the nonattainment boundaries of one of the surrounding areas.</p> <p>1) Emissions and Air Quality</p> <p>Manistee County has relatively low VOC and NOx emissions for this area at 4,679 and 4,738 tons per year, respectively.</p> <p>2) Population density and degree of urbanization</p> <p>Manistee County is quite rural, with a population density of 45 persons per square mile. Manistee has a total population of 24,527.</p> <p>3) Monitoring Data</p> <p>Since Manistee County does not have an ozone monitor, there are no monitored violations of the ozone standard.</p> <p>4) Location of Emission Sources</p> <p>No information available. A commenter provided information that a proposed power plant could increase emissions in Manistee County by 1,777 tons per year for NOx and 72 tons per year for VOC. Even should this source be built and add these emissions to those noted above, total VOC and NOx emissions would 4,751 and 6,515 tons per year, respectively which is still relatively minimal for this area. Also, it is unclear if this new source will actually be constructed in this area.</p> <p>5) Traffic and Commuting Patterns</p> <p>No information available on commuting patterns. Vehicle Miles Traveled for Manistee County is 216 million miles per year, which is low.</p> <p>6) Expected Growth</p> <p>While the growth for Manistee County for 1990-2000 was 15.3%, population is projected to decline 5.8% for 2000-2010.</p> <p>7) Meteorology</p> <p>Information from historical UAM modeling indicate that this area is likely the recipient of long range transport.</p>	

8) Geography/Topography

Manistee County is located on the eastern shore of Lake Michigan, which has been shown to be a recipient area for transported ozone.

9) Jurisdictional Boundaries

Manistee County is not part of a C/MSA or MSA.

10) Level of Control of Emission Sources

No information available.

11) Regional Emission Reductions

Since the area along the Lake Michigan shoreline is impacted by transport, the implementation of NOx SIP call controls in upwind areas is expected to reduce ozone along the shoreline.

Summary

On balance, the eleven factors do not support the designation of Manistee County as nonattainment.

2000 Population: 24,527	VOC (tpy): 4,679	%drive to work: 0
1990-2000 growth: 15.3%	NOx (tpy): 4,738	Wind direction: not considered
2000-2010 growth: -5.8%	1999 Veh. mi. travelled (mln): 216	Topographical features: not considered

Mason County, Michigan

2004 Designation: Nonattainment	County design value: 89	
Area: Mason Co., MI		
MSA or CMSA: - outside -		
Justification: The county contains a monitor in violation of the standard. Michigan recommended that the county be designated nonattainment and EPA agrees.		
2000 Population: 28,274	VOC (tpy): 3,245	%drive to work: 0
1990-2000 growth: 10.7%	NOx (tpy): 2,109	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 253	Topographical features: not considered

Monroe County, Michigan

2004 Designation: Nonattainment	County design value: N/A	
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county does not contain a violating monitor, but it is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		

2000 Population: 145,945	VOC (tpy): 13,500	%drive to work: 79 Detroit--Ann Arbor--Flint
1990-2000 growth: 9.2%	NOx (tpy): 68,158	Wind direction: not considered
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 1,583	Topographical features: not considered

Montcalm County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Montcalm County does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor. The county has low population, emissions, and growth for this area. Prevailing winds are from the south/southwest. The county does not contribute to the Grand Rapids nonattainment area.		
2000 Population: 61,266	VOC (tpy): 5,927	%drive to work: 26 Grand Rapids--Muskegon--H
1990-2000 growth: 15.5%	NOx (tpy): 3,631	Wind direction: not considered
2000-2010 growth: 6.9%	1999 Veh. mi. travelled (mln): 585	Topographical features: not considered

Muskegon County, Michigan

2004 Designation: Nonattainment		County design value: 95
Area: Muskegon, MI		
MSA or CMSA: Grand Rapids-Muskegon-Holland, MI		
<p>Justification: This area is part of a four county area in Western Michigan that the State has requested be separated into three distinct nonattainment areas, the Allegan County area (1 county), the Muskegon County area (1 county), and the Grand Rapids area (Kent and Ottawa Counties). The separation of this area into three nonattainment areas is consistent with metropolitan planning area jurisdictions, and also mirrors nonattainment boundaries for the 1-hour ozone standard. In addition to these arguments, the State contends that the area should be split to allow flexibility to address the overwhelming transport problem in this part of the state.</p> <p>The EPA agrees with the State of Michigan's assertion that the Grand Rapids-Holland-Allegan area is impacted by a unique ozone transport situation caused by the unique meteorology above and around Lake Michigan. This transport phenomenon is responsible for significantly higher ozone levels at the Lake Michigan shore, the site of the ozone monitors in both Allegan and Muskegon Counties. Ozone levels drop significantly as the pollutants travel over land, despite the influx of emissions from Michigan sources. As a result of this phenomenon, described in more detail below, the EPA believes that it is appropriate to split this area into three separate nonattainment areas, two of which reflect the unique ozone transport situation that exists near the lakefront (Allegan and Muskegon), and the other that better reflects the impact of sources within Michigan (Grand Rapids). The EPA believes that the overwhelming ozone transport problem that has been documented in the area provides sufficient technical justification for splitting the area. In addition, EPA believes that dividing the area along 1-hour ozone nonattainment and metropolitan area jurisdiction lines will allow the areas to best address the transport problem, as they were able to do under the 1-hour ozone standard.</p>		

For some time, EPA has recognized the ozone transport problem in Western Michigan. At the time the EPA classified areas for ozone in 1991, the ozone air quality data that had been collected in Muskegon County would have placed the area in the severe ozone classification along with cities such as New York, Chicago, Milwaukee, and Baltimore. Recognizing that such high ozone levels could only occur in an area like Muskegon as the result of transport from upwind areas and with new air quality data in hand, the EPA utilized its authority under section 181(a)(4) of the Clean Air Act (CAA) to downgrade the Muskegon area to the serious nonattainment classification. On November 30, 1992 (57 FR 56762), the area's classification was further downgraded to the moderate nonattainment classification, based on new information on air quality data.

Since that time, EPA has worked closely on the regional Lake Michigan Ozone Study. The Lake Michigan Ozone Study is a four State effort designed to better understand the ozone problem in the Lake Michigan Area. Begun in 1990, the Lake Michigan Ozone Study undertook an extensive ozone field study during the summer of 1991 to compile a comprehensive database on air quality levels, meteorological data, and emissions information in Michigan, Wisconsin, Indiana, and Illinois. The primary purpose of this study was to develop a state of the art computerized photochemical grid model capable of simulating the complex series of chemical reactions associated with ozone formation specific to the Lake Michigan area. This model was first used to assess the sources of the ozone problem in this region and has been used to assess the effectiveness of future control strategies in reducing ozone in the Lake Michigan area.

Originally, the goal of the four State effort was to develop appropriate control strategies in each of the States sufficient to achieve attainment of the 1-hour ozone standard across the region. The photochemical grid model developed by the Lake Michigan Air Directors' Consortium (LADCO) was designed to give these States the most advanced tool available to make air quality pollution control decisions based on sound science. Ultimately, EPA approved 1-hour ozone attainment demonstrations based on this modeling.

Information collected as part of the Lake Michigan Ozone Study has indicated that, under the proper conditions, ozone can be transported hundreds of miles and cause exceedances of the ozone standard in extremely remote parts of the Lake Michigan area. This study confirmed the EPA's suspicion that transport was a major component in the ozone problem in the Lake Michigan area and provided the sound technical analysis to gauge the extent of the problem for the first time. From the beginning, the Lake Michigan Ozone Study has indicated that areas upwind of the Western Michigan areas, such as the northwest Indiana (Gary), Northeast Illinois (Chicago), and southeast Wisconsin (Milwaukee) areas must control their emissions to ensure that Western Michigan can attain the ozone standard. While there was always an awareness that the ozone problem in Western Michigan was largely due to the transport of ozone from urban areas across Lake Michigan, the information demonstrating the extent of these areas' contribution to the regional problem was not available.

Over the last several years, the release of data by LADCO, and other information that has been collected throughout the Lake Michigan area, has enabled the EPA to better identify the specific contribution of some of the areas to the transport situation in the region. In particular, modeling analyses of Muskegon County emissions to 1-hour ozone levels in the area demonstrate the dramatic ozone transport problem.

While many areas around the country are subject to some level of transported ozone, information submitted by Michigan in 1994 regarding the impacts of Muskegon County demonstrates the magnitude of the transport problem in West Michigan. At that time, State submitted modeling showed that emissions from Muskegon County had no impact on its own, or downwind nonattainment

problems, even under 100% control scenarios.

Additionally, meteorological analyses submitted by the State at that time clearly documented the transport problem in the Lake Michigan area. By tracking ozone levels across the Lake using ferry mounted monitoring equipment, as well as aircraft data, this meteorological analysis identified ozone levels well in excess of what would be expected in an area with the population and emission densities of Muskegon. This data supports the conclusion that the Muskegon area is severely affected by transport and does not have the ability to control its ozone problem.

More recent data looking at wind roses developed for Western Michigan indicates that there have not been significant changes to meteorological conditions in the area in recent years. Given the similar geography, monitor locations, and even lower emissions in Allegan County, EPA believes that this argument holds for that county as well.

Based on the above factors, the EPA believes that overwhelming ozone transport has been adequately demonstrated in Western Michigan, and EPA believes that air monitors located close to the Lake Michigan shore are measuring an air quality problem that is originating entirely from upwind areas. As a result, the lakefront in Western Michigan is experiencing a unique air quality phenomenon that is significantly different from the ozone situation monitored further inland. As a result, the EPA believes that it is appropriate to split the Grand Rapids-Holland-Muskegon area into three separate nonattainment areas in recognition of the ozone transport problem and the difference in the ozone situation between the lakefront and inland areas.

2000 Population: 170,200	VOC (tpy): 9,996	%drive to work: 97 Grand Rapids-- Muskegon--H
1990-2000 growth: 7.0%	NOx (tpy): 14,011	Wind direction: Lake Michigan Transport Area
2000-2010 growth: -0.8%	1999 Veh. mi. travelled (mln): 1,457	Topographical features: not considered

Newaygo County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Newaygo County does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor. The county has low population and emissions. This county does not contribute to violations in the Grand Rapids area.		
2000 Population: 47,874	VOC (tpy): 2,887	%drive to work: 37 Grand Rapids-- Muskegon--H
1990-2000 growth: 25.3%	NOx (tpy): 1,741	Wind direction: not considered
2000-2010 growth: 11.1%	1999 Veh. mi. travelled (mln): 301	Topographical features: not considered

Oakland County, Michigan

2004 Designation: Nonattainment		County design value: 91
Area: Detroit-Ann Arbor, MI		

MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		
2000 Population: 1,194,156	VOC (tpy): 56,298	%drive to work: 99 Detroit--Ann Arbor--Flint
1990-2000 growth: 10.2%	NOx (tpy): 45,407	Wind direction: not considered
2000-2010 growth: 11.3%	1999 Veh. mi. travelled (mln): 10,076	Topographical features: not considered

Oceana County, Michigan

2004 Designation: Unclassifiable/Attainment	County design value: N/A
Area: - attainment -	
MSA or CMSA: - outside -	
<p>Justification: Oceana County is likely experiencing the same long range transport phenomena experienced by the surrounding counties on the Lake Michigan shoreline. However, Oceana County does not contain a violating monitor. In this case it would be appropriate to examine the eleven factors to determine if Oceana County should be included in the nonattainment boundaries of one of the surrounding areas.</p> <p>1) Emissions and Air Quality</p> <p>Oceana County has relatively low VOC and NOx emissions at 3,802 and 1,692 tons per year, respectively.</p> <p>2) Population density and degree of urbanization</p> <p>Oceana County is quite rural, with a population density 50 persons per square mile. Oceana has a total population of 26,873.</p> <p>3) Monitoring Data</p> <p>Since Oceana County does not have an ozone monitor, there are no monitored violations of the ozone standard.</p> <p>4) Location of Emission Sources</p> <p>No information available.</p> <p>5) Traffic and Commuting Patterns</p> <p>No information available on commuting patterns. Vehicle Miles Traveled for Oceana County is 260 million miles per year, which is low.</p> <p>6) Expected Growth</p> <p>While the growth for Oceana County for 1990-2000 was 19.7%, population is projected to decline</p>	

6.6% for 2000-2010.

7) Meteorology

Information from historical UAM modeling indicate that these areas are likely the recipients of long range transport.

8) Geography/Topography

Oceana County is located on the eastern shore of Lake Michigan, which has been shown to be a recipient area for transported ozone.

9) Jurisdictional Boundaries

Oceana County is not part of a C/MSA or MSA.

10) Level of Control of Emission Sources

No information available.

11) Regional Emission Reductions

Summary

On balance, the eleven factors do not support the designation of Oceana County as nonattainment.

2000 Population: 26,873	VOC (tpy): 3,802	%drive to work: 29 Grand Rapids-- Muskegon--H
1990-2000 growth: 19.7%	NOx (tpy): 1,692	Wind direction: not considered
2000-2010 growth: -6.6%	1999 Veh. mi. travelled (mln): 260	Topographical features: not considered

Ottawa County, Michigan

2004 Designation: Nonattainment	County design value: 89
Area: Grand Rapids, MI	
MSA or CMSA: Grand Rapids-Muskegon-Holland, MI	
Justification: This area is part of a four county area in Western Michigan that the State has requested be separated into three distinct nonattainment areas, the Allegan County area (1 county), the Muskegon County area (1 county), and the Grand Rapids area (Kent and Ottawa Counties). The separation of this area into three nonattainment areas is consistent with metropolitan planning area jurisdictions, and also mirrors nonattainment boundaries for the 1-hour ozone standard. In addition to these arguments, the State contends that the area should be split to allow flexibility to address the overwhelming transport problem in this part of the state.	
The EPA agrees with the State of Michigan's assertion that the Grand Rapids-Holland-Allegan area is impacted by a unique ozone transport situation caused by the unique meteorology above and around Lake Michigan. This transport phenomenon is responsible for significantly higher ozone levels at the Lake Michigan shore, the site of the ozone monitors in both Allegan and Muskegon Counties. Ozone	

levels drop significantly as the pollutants travel over land, despite the influx of emissions from Michigan sources. As a result of this phenomenon, described in more detail below, the EPA believes that it is appropriate to split this area into three separate nonattainment areas, two of which reflect the unique ozone transport situation that exists near the lakefront (Allegan and Muskegon), and the other that better reflects the impact of sources within Michigan (Grand Rapids). The EPA believes that the overwhelming ozone transport problem that has been documented in the area provides sufficient technical justification for splitting the area. In addition, EPA believes that dividing the area along 1-hour ozone nonattainment and metropolitan area jurisdiction lines will allow the areas to best address the transport problem, as they were able to do under the 1-hour ozone standard.

For some time, EPA has recognized the ozone transport problem in Western Michigan. At the time the EPA classified areas for ozone in 1991, the ozone air quality data that had been collected in Muskegon County would have placed the area in the severe ozone classification along with cities such as New York, Chicago, Milwaukee, and Baltimore. Recognizing that such high ozone levels could only occur in an area like Muskegon as the result of transport from upwind areas and with new air quality data in hand, the EPA utilized its authority under section 181(a)(4) of the Clean Air Act (CAA) to downgrade the Muskegon area to the serious nonattainment classification. On November 30, 1992 (57 FR 56762), the area's classification was further downgraded to the moderate nonattainment classification, based on new information on air quality data.

Since that time, EPA has worked closely on the regional Lake Michigan Ozone Study. The Lake Michigan Ozone Study is a four State effort designed to better understand the ozone problem in the Lake Michigan Area. Begun in 1990, the Lake Michigan Ozone Study undertook an extensive ozone field study during the summer of 1991 to compile a comprehensive database on air quality levels, meteorological data, and emissions information in Michigan, Wisconsin, Indiana, and Illinois. The primary purpose of this study was to develop a state of the art computerized photochemical grid model capable of simulating the complex series of chemical reactions associated with ozone formation specific to the Lake Michigan area. This model was first used to assess the sources of the ozone problem in this region and has been used to assess the effectiveness of future control strategies in reducing ozone in the Lake Michigan area.

Originally, the goal of the four State effort was to develop appropriate control strategies in each of the States sufficient to achieve attainment of the 1-hour ozone standard across the region. The photochemical grid model developed by the Lake Michigan Air Directors' Consortium (LADCO) was designed to give these States the most advanced tool available to make air quality pollution control decisions based on sound science. Ultimately, EPA approved 1-hour ozone attainment demonstrations based on this modeling.

Information collected as part of the Lake Michigan Ozone Study has indicated that, under the proper conditions, ozone can be transported hundreds of miles and cause exceedances of the ozone standard in extremely remote parts of the Lake Michigan area. This study confirmed the EPA's suspicion that transport was a major component in the ozone problem in the Lake Michigan area and provided the sound technical analysis to gauge the extent of the problem for the first time. From the beginning, the Lake Michigan Ozone Study has indicated that areas upwind of the Western Michigan areas, such as the northwest Indiana (Gary), Northeast Illinois (Chicago), and southeast Wisconsin (Milwaukee) areas must control their emissions to ensure that Western Michigan can attain the ozone standard. While there was always an awareness that the ozone problem in Western Michigan was largely due to the transport of ozone from urban areas across Lake Michigan, the information demonstrating the extent of these areas' contribution to the regional problem was not available.

Over the last several years, the release of data by LADCO, and other information that has been collected throughout the Lake Michigan area, has enabled the EPA to better identify the specific contribution of some of the areas to the transport situation in the region. In particular, modeling analyses of Muskegon County emissions to 1-hour ozone levels in the area demonstrate the dramatic ozone transport problem.

While many areas around the country are subject to some level of transported ozone, information submitted by Michigan in 1994 regarding the impacts of Muskegon County demonstrates the magnitude of the transport problem in West Michigan. At that time, State submitted modeling showed that emissions from Muskegon County had no impact on its own, or downwind nonattainment problems, even under 100% control scenarios.

Additionally, meteorological analyses submitted by the State at that time clearly documented the transport problem in the Lake Michigan area. By tracking ozone levels across the Lake using ferry mounted monitoring equipment, as well as aircraft data, this meteorological analysis identified ozone levels well in excess of what would be expected in an area with the population and emission densities of Muskegon. This data supports the conclusion that the Muskegon area is severely affected by transport and does not have the ability to control its ozone problem.

More recent data looking at wind roses developed for Western Michigan indicates that there have not been significant changes to meteorological conditions in the area in recent years. Given the similar geography, monitor locations, and even lower emissions in Allegan County, EPA believes that this argument holds for that county as well.

Based on the above factors, the EPA believes that overwhelming ozone transport has been adequately demonstrated in Western Michigan, and EPA believes that air monitors located close to the Lake Michigan shore are measuring an air quality problem that is originating entirely from upwind areas. As a result, the lakefront in Western Michigan is experiencing a unique air quality phenomenon that is significantly different from the ozone situation monitored further inland. As a result, the EPA believes that it is appropriate to split the Grand Rapids-Holland-Muskegon area into three separate nonattainment areas in recognition of the ozone transport problem and the difference in the ozone situation between the lakefront and inland areas.

2000 Population: 238,314	VOC (tpy): 14,996	%drive to work: 98 Grand Rapids--Muskegon--H
1990-2000 growth: 26.9%	NOx (tpy): 48,593	Wind direction: Lake Michigan Transport Area
2000-2010 growth: 13.0%	1999 Veh. mi. travelled (mln): 2,299	Topographical features: not considered

Saginaw County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Saginaw-Bay City-Midland, MI		
Justification: Saginaw County does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor.		
2000 Population: 210,039	VOC (tpy): 13,170	%drive to work: 6 Detroit--Ann Arbor--Flint

1990-2000 growth: -0.9%	NOx (tpy): 11,335	Wind direction: not considered
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 1,972	Topographical features: not considered

St. Clair County, Michigan

2004 Designation: Nonattainment		County design value: 90
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		
2000 Population: 164,235	VOC (tpy): 9,994	%drive to work: 99 Detroit--Ann Arbor--Flint
1990-2000 growth: 12.8%	NOx (tpy): 51,657	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 1,954	Topographical features: not considered

St. Joseph County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county does not contain a violating monitor and it is not part of a C/MSA/MSA with a violating monitor.		
2000 Population: 62,422	VOC (tpy): 5,470	%drive to work: 0 Benton Harbor, MI MSA
1990-2000 growth: 6.0%	NOx (tpy): 4,329	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 565	Topographical features: not considered

Sanilac County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The county does not contain a violating monitor and it is not part of a C/MSA/MSA with a violating monitor. Prevailing winds are from the south/southwest so the county does not contribute to the Detroit nonattainment area.		
2000 Population: 44,547	VOC (tpy): 4,070	%drive to work: 28 Detroit--Ann Arbor--Flint
1990-2000 growth: 11.6%	NOx (tpy): 3,033	Wind direction: not considered
2000-2010 growth: -0.6%	1999 Veh. mi. travelled (mln): 454	Topographical features: not considered

Shiawassee County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The county does not contain a violating monitor and is not part of a C/MSA/MSA with a violating monitor.		
2000 Population: 71,687	VOC (tpy): 4,301	%drive to work: 25 Detroit--Ann Arbor--Flint
1990-2000 growth: 2.7%	NOx (tpy): 3,954	Wind direction: not considered
2000-2010 growth: 2.3%	1999 Veh. mi. travelled (mln): 699	Topographical features: not considered

Tuscola County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The county does not contain a violating monitor and is not part of a C/MSA/MSA with a violating monitor.		
2000 Population: 58,266	VOC (tpy): 3,752	%drive to work: 20 Detroit--Ann Arbor--Flint
1990-2000 growth: 5.0%	NOx (tpy): 3,241	Wind direction: not considered
2000-2010 growth: 2.8%	1999 Veh. mi. travelled (mln): 539	Topographical features: not considered

Van Buren County, Michigan

2004 Designation: Nonattainment		County design value: N/A
Area: Kalamazoo-Battle Creek, MI		
MSA or CMSA: Kalamazoo-Battle Creek, MI		
Justification: The county does not contain a monitor, but it is part of the Kalamazoo-Battle Creek MSA, which has a violating monitor. The county is part of the MSA, is surrounded by Allegan, Kalamazoo, Cass, and Berrien Counties, all of which are monitoring violations of the standard, and has 14.2% projected growth from 2000-2010. We are designating Van Buren County as part of the Kalamazoo-Battle Creek nonattainment area.		
2000 Population: 76,263	VOC (tpy): 5,556	%drive to work: 8 Benton Harbor, MI MSA
1990-2000 growth: 8.8%	NOx (tpy): 4,816	Wind direction: not considered
2000-2010 growth: 14.2%	1999 Veh. mi. travelled (mln): 900	Topographical features: not considered

Washtenaw County, Michigan

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2004 Designation: Nonattainment		County design value: 91
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		
2000 Population: 322,895	VOC (tpy): 17,037	%drive to work: 98 Detroit--Ann Arbor--Flint
1990-2000 growth: 14.1%	NOx (tpy): 15,342	Wind direction: not considered
2000-2010 growth: 2.1%	1999 Veh. mi. travelled (mln): 3,271	Topographical features: not considered

Wayne County, Michigan

2004 Designation: Nonattainment		County design value: 91
Area: Detroit-Ann Arbor, MI		
MSA or CMSA: Detroit-Ann Arbor-Flint, MI		
Justification: The county contains a monitor in violation of the standard and is part of the Detroit-Ann Arbor C/MSA. Michigan recommended that the county be designated nonattainment along with the rest of the area and EPA agrees.		
2000 Population: 2,061,162	VOC (tpy): 95,173	%drive to work: 99 Detroit--Ann Arbor--Flint
1990-2000 growth: -2.4%	NOx (tpy): 118,771	Wind direction: not considered
2000-2010 growth: -7.1%	1999 Veh. mi. travelled (mln): 18,779	Topographical features: not considered

Wexford County, Michigan

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Wexford County does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor. The county has low population, emissions, and growth for this area.		
2000 Population: 30,484	VOC (tpy): 3,055	%drive to work: 0
1990-2000 growth: 15.6%	NOx (tpy): 1,419	Wind direction: not considered
2000-2010 growth: -2.2%	1999 Veh. mi. travelled (mln): 261	Topographical features: not considered

Benton County, Mississippi

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		

2000 Population: 8,026	VOC (tpy): 860	%drive to work: 22 Memphis, TN--AR--MS MSA
1990-2000 growth: -0.2%	NOx (tpy): 1,010	Wind direction: not considered
2000-2010 growth: 2.9%	1999 Veh. mi. travelled (mln): 180	Topographical features: not considered

DeSoto County, Mississippi

2004 Designation: Unclassifiable/Attainment		County design value: 81
Area: - attainment -		
MSA or CMSA: Memphis, TN-AR-MS		
Justification: The monitor in DeSoto County is showing attainment. Indications are that the county is not contributing to nonattainment in the area. See the 11 factor analysis for the Memphis area which is included in chapter 6 of this technical support document.		
2000 Population: 107,199	VOC (tpy): 8,091	%drive to work: 90 Memphis, TN--AR--MS MSA
1990-2000 growth: 57.9%	NOx (tpy): 8,847	Wind direction: not considered
2000-2010 growth: 34.4%	1999 Veh. mi. travelled (mln): 1,119	Topographical features: not considered

Marshall County, Mississippi

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 34,993	VOC (tpy): 2,867	%drive to work: 53 Memphis, TN--AR--MS MSA
1990-2000 growth: 15.3%	NOx (tpy): 2,692	Wind direction: not considered
2000-2010 growth: 5.2%	1999 Veh. mi. travelled (mln): 600	Topographical features: not considered

Tate County, Mississippi

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 25,370	VOC (tpy): 2,505	%drive to work: 38 Memphis, TN--AR--MS MSA
1990-2000 growth: 18.4%	NOx (tpy): 6,764	Wind direction: not considered
2000-2010 growth:	1999 Veh. mi. travelled (mln):	

13.1%	305	Topographical features: not considered
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Tunica County, Mississippi

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 9,227	VOC (tpy): 1,966	%drive to work: 8 Memphis, TN--AR--MS MSA
1990-2000 growth: 13.0%	NOx (tpy): 3,008	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 280	Topographical features: not considered

Crawford County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Crawford County is adjacent to the St. Louis C/MSA. We are designating this county as attainment/unclassifiable as it is rural in nature (31 people per square mile, has a small population (22,804), small workforce (9,509), and low annual VMT (459 M). In addition, emissions are less than 2.0% of the area's VOC emissions and 0.6% of the area's NOx emissions.		
2000 Population: 22,804	VOC (tpy): 3,962	%drive to work: 30 St. Louis, MO--IL MSA
1990-2000 growth: 18.9%	NOx (tpy): 2,330	Wind direction: not considered
2000-2010 growth: 17.8%	1999 Veh. mi. travelled (mln): 459	Topographical features: not considered

Franklin County, Missouri

2004 Designation: Nonattainment		County design value: N/A
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: Franklin County is in the C/MSA and is a part of the 1-hour ozone maintenance area. It is designated as a nonattainment area due to the amount of emissions (4.2% VOC and 5.0% NOx within the C/MSA and adjacent counties), population (93,807), work force (45,363), and annual VMT (1,318 M). The meteorology supports including the County in the nonattainment area as the county is upwind. The application of any future emission controls in this county would have an impact on the success of the state implementation plan (SIP) for attaining the 8-hour ozone NAAQS.		
2000 Population: 93,807	VOC (tpy): 8,512	%drive to work: 96 St. Louis, MO--IL MSA
1990-2000 growth: 16.4%	NOx (tpy): 17,812	Wind direction: not considered
2000-2010 growth: 14.3%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

	1,318	
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Gasconade County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Gasconade County is adjacent to the C/MSA. This county was designated as an attainment area as it is rural in nature (29 people per square mile) having a small population (15,634), small workforce (6,960), and small annual VMT (173 M). In addition, emissions are less than 1.2% of the areas VOC emissions and 0.5% of the areas NOx emissions.		
2000 Population: 15,342	VOC (tpy): 2,330	%drive to work: 26 St. Louis, MO--IL MSA
1990-2000 growth: 9.5%	NOx (tpy): 1,752	Wind direction: not considered
2000-2010 growth: 6.0%	1999 Veh. mi. travelled (mln): 173	Topographical features: not considered

Jefferson County, Missouri

2004 Designation: Nonattainment		County design value: 87
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: This county contains a monitor that is violating the standard. The Clean Air Act requires EPA to designate it as nonattainment.		
2000 Population: 198,099	VOC (tpy): 11,498	%drive to work: 98 St. Louis, MO--IL MSA
1990-2000 growth: 15.6%	NOx (tpy): 16,121	Wind direction: not considered
2000-2010 growth: 14.9%	1999 Veh. mi. travelled (mln): 2,423	Topographical features: not considered

Lincoln County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: St Louis, MO-IL		
Justification: Although Lincoln County is in the C/MSA, it is designated as an attainment area due to the low amount of emissions (1.8% VOC and 0.8% NOx within the C/MSA and adjacent counties), low population (38,944), small work force (18,386), low annual VMT (463M), and small population density (62 people per square mile). The meteorology does not support including the County in the nonattainment area as the county is downwind.		
2000 Population: 38,944	VOC (tpy): 3,567	%drive to work: 98 St. Louis, MO--IL MSA
1990-2000 growth: 34.8%	NOx (tpy): 3,041	Wind direction: not considered
2000-2010 growth: 18.7%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

Montgomery County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Montgomery County is adjacent to the C/MSA. This county was designated as an attainment area as it is rural in nature (22 people per square mile) having a small population (12,136), small workforce (5,419), and small annual VMT (284 M). In addition, emissions are small being less than 0.9% of the areas VOC emissions and 0.5% of the areas NOx emissions.		
2000 Population: 12,136	VOC (tpy): 1,887	%drive to work: 26 St. Louis, MO--IL MSA
1990-2000 growth: 6.9%	NOx (tpy): 1,825	Wind direction: not considered
2000-2010 growth: 3.8%	1999 Veh. mi. travelled (mln): 284	Topographical features: not considered

Perry County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Perry County is adjacent to the C/MSA. This county was designated as an attainment area as it is rural in nature (38 people per square mile), has a small population (18,132), small workforce (8,985), and low annual VMT (291 M). In addition, emissions are less than 1.4% of the areas VOC emissions and 0.8% of the areas NOx emissions.		
2000 Population: 18,132	VOC (tpy): 2,843	%drive to work: 4 St. Louis, MO--IL MSA
1990-2000 growth: 8.9%	NOx (tpy): 2,858	Wind direction: not considered
2000-2010 growth: 3.6%	1999 Veh. mi. travelled (mln): 291	Topographical features: not considered

Pike County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Pike County is adjacent to the C/MSA. It was designated as an attainment area as it is rural in nature (27 people per square mile) and has a small population (18,351), a small workforce (7,457), and low annual VMT (145 M). In addition, emissions are low being 2.5% of the areas VOC emissions and 2.8% of the areas NOx emissions. The meteorology does not support including the County in the nonattainment area.		
2000 Population: 18,351	VOC (tpy): 4,966	%drive to work: 15 St. Louis, MO--IL MSA
1990-2000 growth: 14.9%	NOx (tpy): 9,932	Wind direction: not considered

2000-2010 growth: -8.3%	1999 Veh. mi. travelled (mln): 145	Topographical features: not considered
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St. Charles County, Missouri

2004 Designation: Nonattainment		County design value: 92
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: This county contains a monitor that is violating the standard. The state recommended nonattainment and EPA agree.		
2000 Population: 283,883	VOC (tpy): 14,460	%drive to work: 99 St. Louis, MO--IL MSA
1990-2000 growth: 33.3%	NOx (tpy): 35,872	Wind direction: not considered
2000-2010 growth: 22.8%	1999 Veh. mi. travelled (mln): 2,709	Topographical features: not considered

Ste. Genevieve County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Ste. Genevieve County is adjacent to the C/MSA. The County has a small population (17,842), workforce (8,343), population density (36 people per square mile), and annual VMT (589 M). Ste. Genevieve County has VOC emissions of 2,464 tpy and NOx emissions of 6,857 tpy. This amounts to 1.3% of the total VOC emissions and 1.2% of the total NOx emissions within the area made up of the C/SMA and adjacent counties. An ozone monitoring station is located in the County at Bonne Terre. A design value of 0.083 ppm was calculated for 2001-2003 ozone season, which is below the NAAQS of 0.085 ppm for the 8-hour standard. EPA's concern with respect to the state's recommendation for Ste. Genevieve County, due to the anticipated growth in NOx emissions, was that these emissions may be carried by the prevailing winds from the County into the St. Louis area and contribute to the area's air quality problem, thus, making it more difficult to attain the 8-hour ozone standard. Missouri responded that the amount of current emissions and stringency of controls on newly permitted sources in the county, do not support designating the county as nonattainment. Based upon information provided by Missouri and our analysis of the degree of control of existing sources in the area, we agree that current emissions do not support designating the county as nonattainment.		
2000 Population: 17,842	VOC (tpy): 2,465	%drive to work: 21 St. Louis, MO--IL MSA
1990-2000 growth: 11.3%	NOx (tpy): 6,857	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln): 400	Topographical features: not considered

St. Francois County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: St. Francois County is adjacent to the C/MSA. This county was designated as an attainment area as the county has low emissions (2.4% of the areas VOC and 1.2% of the NOx emissions), a small population of 55, 641, a small workforce of 21,908 of which 71% work in the County, lower population density of 124 people per square mile, and low annual VMT (589 M).

2000 Population: 55,641	VOC (tpy): 4,806	%drive to work: 19 St. Louis, MO--IL MSA
1990-2000 growth: 13.8%	NOx (tpy): 4,361	Wind direction: not considered
2000-2010 growth: 12.8%	1999 Veh. mi. travelled (mln): 589	Topographical features: not considered

St. Louis County, Missouri

2004 Designation: Nonattainment		County design value: 91
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: This county contains a monitor that is violating the standard. The state recommended nonattainment and EPA agrees.		
2000 Population: 1,016,315	VOC (tpy): 54,376	%drive to work: 99 St. Louis, MO--IL MSA
1990-2000 growth: 2.3%	NOx (tpy): 56,742	Wind direction: not considered
2000-2010 growth: -3.0%	1999 Veh. mi. travelled (mln): 11,596	Topographical features: not considered

Warren County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: St Louis, MO-IL		
Justification: Although Warren County is in the C/MSA, it was designated as an attainment area due to the low amount of emissions (1.5% VOC and 0.5% NOx within the C/MSA and adjacent counties), small population (24,525) and small work force (11,987), low annual VMT (334M), and small population density of 57 people per square mile. The meteorology does not support including the County in the nonattainment area as the county is downwind.		
2000 Population: 24,525	VOC (tpy): 2,948	%drive to work: 97 St. Louis, MO--IL MSA
1990-2000 growth: 25.6%	NOx (tpy): 1,926	Wind direction: not considered
2000-2010 growth: 25.8%	1999 Veh. mi. travelled (mln): 334	Topographical features: not considered

Washington County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Washington County is adjacent to the C/MSA. This county was designated as an		

attainment area as it is rural in nature (31 people per square mile) having a small population (23,344), small workforce (8,526), and low annual VMT (287 M). In addition, emissions are less than 1.7% of the areas VOC emissions and 0.4% of the areas NOx emissions.

2000 Population: 23,344	VOC (tpy): 3,386	%drive to work: 32 St. Louis, MO--IL MSA
1990-2000 growth: 14.5%	NOx (tpy): 1,262	Wind direction: not considered
2000-2010 growth: 9.7%	1999 Veh. mi. travelled (mln): 287	Topographical features: not considered

St. Louis City County, Missouri

2004 Designation: Nonattainment		County design value: 89
Area: St. Louis, MO-IL		
MSA or CMSA: St Louis, MO-IL		
Justification: This county contains a monitor that is violating the standard. The state recommended nonattainment and EPA agrees.		
2000 Population: 348,189	VOC (tpy): 21,303	%drive to work: 99 St. Louis, MO--IL MSA
1990-2000 growth: -12.2%	NOx (tpy): 29,300	Wind direction: not considered
2000-2010 growth: -27.7%	1999 Veh. mi. travelled (mln): 4,244	Topographical features: not considered

Clark County, Nevada

2004 Designation: Nonattainment		County design value: 86
Area: Las Vegas, NV		
MSA or CMSA: Las Vegas, NV-AZ		
Justification: There were violations of the 8-hour ozone standard in Las Vegas in 2003. The presumptive nonattainment area includes the Las Vegas Metropolitan Statistical Area. The State of Nevada recommended Clark county as the nonattainment area. Based on an 11-factor analyses, EPA is satisfied that Nye County, Nevada and Mojave County, Arizona should be excluded from the Las Vegas nonattainment area. EPA agrees with both Nevada's and Arizona's recommendations and designates Clark County nonattainment for 8-hour ozone.		
2000 Population: 1,375,765	VOC (tpy): 55,034	%drive to work:
1990-2000 growth: 85.5%	NOx (tpy): 78,793	Wind direction: not considered
2000-2010 growth: 43.1%	1999 Veh. mi. travelled (mln): 9,776	Topographical features: not considered

Nye County, Nevada

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -

MSA or CMSA: Las Vegas, NV-AZ

Justification: Nye County is sparsely populated, having only 34,075 persons spread over 18,147 square miles for an extremely low 1.8 persons per square mile.

Emissions in Nye County are low and adjacent areas in Clark County do not violate the standard. Also, populated portions of Nye County in Pahrump, are separated 50 miles from Las Vegas and separated from it by mountain ranges with some peaks above 11,000 feet. The mountain pass linking Pahrump in Nye county with Las Vegas is at 5500 feet elevation.

The area between Las Vegas and Pahrump as well as Las Vegas and the rest of Nye County is sparsely populated or unpopulated. These areas mostly consist of federally-controlled lands (BLM, USFS, DOD, US FWS and others) that are not candidates for development and growth.

The combination of distance, separation by geographic features and meteorology of Nye County and Las Vegas indicates that the violations in Las Vegas are not affected by Nye county. These differences also indicate that violations in Las Vegas do not impact Nye county.

There were violations of the 8-hour ozone standard in Las Vegas in 2003. The presumptive nonattainment area includes the Las Vegas Metropolitan Statistical Area which includes Nye county.

The State of Nevada recommended Clark county as the nonattainment area.

Based on an 11-factor analyses, demonstrating to EPA's satisfaction that Nye County, Nevada should be excluded from the Las Vegas nonattainment area.

EPA agrees with Nevada's recommendation and designates Nye county attainment/unclassifiable for 8-hour ozone.

2000 Population: 32,485	VOC (tpy): 13,932	%drive to work:
1990-2000 growth: 82.7%	NOx (tpy): 4,035	Wind direction: not considered
2000-2010 growth: 38.5%	1999 Veh. mi. travelled (mln): 301	Topographical features: mountain barrier

Belknap County, New Hampshire

2004 Designation: Unclassifiable/Attainment	County design value: 78	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Belknap County, NH is included for a detailed justification, because Belknap County is adjacent to two counties in NH that have nonattainment areas. The county does not contain an MSA and is not adjacent to an MSA. The county has an ozone monitor which has air quality below the 8-hour NAAQS. Population density is 139 persons per square mile. RACT and NSR required throughout the county. EPA reviewed data pertaining to the factors in our guidance and concludes that Belknap County does not contribute to any nearby violation. The state requested attainment and we agree with the recommendation.		
2000 Population: 56,325	VOC (tpy): 5,576	%drive to work: 1 Boston--Worcester--Lawren

1990-2000 growth: 14.4%	NOx (tpy): 3,531	Wind direction: not considered
2000-2010 growth: 13.2%	1999 Veh. mi. travelled (mln): 583	Topographical features: not considered

Carroll County, New Hampshire

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Carroll County, NH is included for a detailed justification, because Carroll County is adjacent to a county in NH that has a nonattainment area. The county does not contain an MSA and is not adjacent to an MSA. The county has an ozone monitor which has air quality below the 8-hour NAAQS. Population density is 47 persons per square mile. RACT and NSR required throughout the county. EPA reviewed data pertaining to the factors in our guidance and concludes that Carroll County does not contribute to any nearby violation. The state requested attainment and we agree with the recommendation.		
2000 Population: 43,666	VOC (tpy): 4,966	%drive to work: 1 Boston--Worcester--Lawren
1990-2000 growth: 23.3%	NOx (tpy): 2,518	Wind direction: not considered
2000-2010 growth: 17.4%	1999 Veh. mi. travelled (mln): 336	Topographical features: not considered

Cheshire County, New Hampshire

2004 Designation: Unclassifiable/Attainment		County design value: 76
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cheshire County, NH is included for a detailed justification, because Cheshire County is adjacent to a nonattainment area. The county does not contain an MSA. The county has an ozone monitor which has air quality below the 8-hour NAAQS. Population density is 103 persons per square mile. RACT and NSR required throughout the county. EPA reviewed data pertaining to the factors in our guidance and concludes that Cheshire County does not contribute to any nearby violation. The state requested attainment and we agree with the recommendation.		
2000 Population: 73,825	VOC (tpy): 5,593	%drive to work: 0 Boston--Worcester--Lawren
1990-2000 growth: 5.3%	NOx (tpy): 3,567	Wind direction: not considered
2000-2010 growth: 8.9%	1999 Veh. mi. travelled (mln): 555	Topographical features: not considered

Grafton County, New Hampshire

2004 Designation: Unclassifiable/Attainment		County design value: 72
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Grafton County, NH is included for a detailed justification, because Grafton County is adjacent to a nonattainment area. The county does not contain an MSA, nor is it adjacent to an MSA.		

The county has an ozone monitor which has air quality below the 8-hour NAAQS. Population density is 47 persons per square mile. RACT and NSR required throughout the county. EPA reviewed data pertaining to the factors in our guidance and concludes that Grafton County does not contribute to any nearby violation. The state requested attainment and we agree with the recommendation.

2000 Population: 81,743	VOC (tpy): 7,423	%drive to work: 0 Boston--Worcester--Lawren
1990-2000 growth: 9.1%	NOx (tpy): 7,586	Wind direction: not considered
2000-2010 growth: 11.9%	1999 Veh. mi. travelled (mln): 1,285	Topographical features: not considered

Hillsborough County, New Hampshire

2004 Designation: Nonattainment	County design value: 87
Area: Boston-Manchester-Portsmouth (SE), NH	
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT	
<p>Justification: New Hampshire portion of Boston C/MSA is defined town-by-town, as is the case for the rest of New England. The C/MSA includes 19 of 32 towns in Hillsborough Co. Total population in NH portion of C/MSA is 739,003. NH recommendation covers 695,043. Six towns from C/MSA in this county not included in NH recommended area, with an average of 152 persons per square mile. Total population in the 6 excluded towns is 18,584. No major sources in towns in the MSA not included in recommendation. RACT and NSR are required throughout county.</p> <p>EPA agrees with NH's recommendations, including their desire to be split from the Eastern Massachusetts area. These areas in NH are part of the Boston C/MSA. Massachusetts has historically and continues to recommend including Cape Cod and other non MSA areas as part of the Eastern Massachusetts nonattainment area, significantly expanding this area beyond the C/MSA. NH wants to split from the Eastern Massachusetts area because of concern over high ozone levels in southeastern Massachusetts, including Cape Cod. NH does not contribute to these elevated levels, and EPA agrees. The ozone monitor at Truro, MA, outside the Boston C/MSA has measured some of the highest ozone concentrations in the existing 1-hr Eastern Massachusetts nonattainment area. The monitor also has high 8-hour averages, mostly a result of transport from the New York City region.</p> <p>In order to help ensure consistent control requirements, however, New Hampshire will be classified based on the highest design value of any monitor in this C/MSA. This will result in the same ozone classification as the Eastern Massachusetts area. That classification is moderate.</p> <p>Splitting C/MSAs is rare, and we believe in light of the unique circumstances presented here, it is appropriate. Massachusetts has expanded the geographic boundaries of their portion of the nonattainment area beyond the C/MSA boundaries- which includes a monitor on Cape Cod, outside the C/MSA. This monitor in Truro currently and historically measures among the highest ozone values in the area. We do not believe that New Hampshire's air quality planning should also be forced to include this area. Massachusetts also agrees with this split.</p> <p>Although it might appear superficially inconsistent to link SW CT with the NYC C/MSA while splitting S. NH from the Boston C/MSA, we can distinguish them based on the facts. In the NY-NJ-CT area, we are simply using the boundaries of the C/MSA, which include both Ocean County NJ and SW CT. In Boston, we wanted to accommodate MA DEP's desire to expand that area beyond the C/MSA into Cape Cod without holding NH responsible for monitors beyond the Boston C/MSA.</p>	

2000 Population: 380,841	VOC (tpy): 20,022	%drive to work: 2 Boston--Worcester--Lawren
1990-2000 growth: 13.3%	NOx (tpy): 18,203	Wind direction: not considered
2000-2010 growth: 12.8%	1999 Veh. mi. travelled (mln): 3,265	Topographical features: not considered

Merrimack County, New Hampshire

2004 Designation: Nonattainment	County design value: 75	
Area: Boston-Manchester-Portsmouth (SE), NH		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
<p>Justification: New Hampshire portion of Boston C/MSA is defined town-by-town, as is the case for the rest of New England. The C/MSA includes only 2 towns in Merrimack Co. Total population in NH portion of C/MSA is 739,003. NH recommendation covers 695,043. One town from C/MSA in this county not included in State's recommendation, with an average of 152 persons per square mile. Total population in the one excluded town is 4,649. No major sources in towns in the MSA not included in recommendation. RACT and NSR are required throughout county. The Town of Bow, not inside but adjacent to the C/MSA has a large Power Plant that is fully controlled with SCR, which has a federally approved permit. NH does have a trading program but is not part of the NOx SIP call.</p> <p>EPA agrees with NH's recommendations, including their desire to be split from the Eastern Massachusetts area. These areas in NH are part of the Boston C/MSA. Massachusetts has historically and continues to recommend including Cape Cod and other non MSA areas as part of the Eastern Massachusetts nonattainment area, significantly expanding this area beyond the C/MSA. NH wants to split from the Eastern Massachusetts area because of concern over high ozone levels in southeastern Massachusetts, including Cape Cod. NH does not contribute to these elevated levels, and EPA agrees. The ozone monitor at Truro, MA, outside the Boston C/MSA has measured some of the highest ozone concentrations in the existing 1-hr Eastern Massachusetts nonattainment area. The monitor also has high 8-hour averages, mostly a result of transport from the New York City region.</p> <p>In order to help ensure consistent control requirements, however, New Hampshire will be classified based on the highest design value of any monitor in this C/MSA. This will result in the same ozone classification as the Eastern Massachusetts area. That classification is moderate.</p> <p>Splitting C/MSAs is rare, and we believe in light of the unique circumstances presented here, it is appropriate. Massachusetts has expanded the geographic boundaries of their portion of the nonattainment area beyond the C/MSA boundaries- which includes a monitor on Cape Cod, outside the C/MSA. This monitor in Truro currently and historically measures among the highest ozone values in the area. We do not believe that New Hampshire's air quality planning should also be forced to include this area. Massachusetts also agrees with this split.</p> <p>Although it might appear superficially inconsistent to link SW CT with the NYC C/MSA while splitting S. NH from the Boston C/MSA, EPA can distinguish them based on the facts. In the NY-NJ-CT area, we are simply using the boundaries of the C/MSA, which include both Ocean County NJ and SW CT. In Boston, we wanted to accommodate MA DEP's desire to expand that area beyond the C/MSA into Cape Cod without holding NH responsible for monitors beyond the Boston C/MSA.</p>		
2000 Population: 136,225	VOC (tpy): 8,526	%drive to work: 1 Boston--Worcester--Lawren

1990-2000 growth: 13.5%	NOx (tpy): 17,218	Wind direction: not considered
2000-2010 growth: 13.9%	1999 Veh. mi. travelled (mln): 1,624	Topographical features: not considered

Rockingham County, New Hampshire

2004 Designation: Unclassifiable/Attainment	County design value: 84	
Area: - attainment -		
MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT		
<p>Justification: New Hampshire portion of Boston C/MSA is defined town-by-town, as is the case for the rest of New England. The C/MSA includes all but 3 towns in Rockingham Co. All the towns in the C/MSA are covered in this county. Total population in NH portion of C/MSA is 739,003. NH recommendation covers 695,043. New Hampshire's 8-hour recommendation includes all towns that are in the C/MSA.</p> <p>EPA agrees with NH's recommendations, including their desire to be split from the Eastern Massachusetts area. These areas in NH are part of the Boston C/MSA. Massachusetts has historically and continues to recommend including Cape Cod and other non MSA areas as part of the Eastern Massachusetts nonattainment area, significantly expanding this area beyond the C/MSA. NH wants to split from the Eastern Massachusetts area because of concern over high ozone levels in southeastern Massachusetts, including Cape Cod. NH does not contribute to these elevated levels, and EPA agrees. The ozone monitor at Truro, MA, outside the Boston C/MSA has measured some of the highest ozone concentrations in the existing 1-hr Eastern Massachusetts nonattainment area. The monitor also has high 8-hour averages, mostly a result of transport from the New York City region.</p> <p>In order to help ensure consistent control requirements, however, New Hampshire will be classified based on the highest design value of any monitor in this C/MSA. Splitting C/MSAs is rare, and we believe in light of the unique circumstances presented here, it is appropriate. Massachusetts has expanded the geographic boundaries of their portion of the nonattainment area beyond the C/MSA boundaries- which includes a monitor on Cape Cod, outside the C/MSA. This monitor in Truro currently and historically measures among the highest ozone values in the area. We do not believe that New Hampshire's air quality planning should also be forced to include this area. Massachusetts also agrees with this split.</p> <p>Although it might appear superficially inconsistent to link SW CT with the NYC C/MSA while splitting S. NH from the Boston C/MSA, EPA can distinguish them based on the facts. In the NY-NJ-CT area, we are simply using the boundaries of the C/MSA, which include both Ocean County NJ and SW CT. In Boston, we wanted to accommodate MA DEP's desire to expand that area beyond the C/MSA into Cape Cod without holding NH responsible for monitors beyond the Boston C/MSA.</p>		
2000 Population: 277,359	VOC (tpy): 16,745	%drive to work: 3 Boston--Worcester--Lawren
1990-2000 growth: 12.8%	NOx (tpy): 20,323	Wind direction: not considered
2000-2010 growth: 12.9%	1999 Veh. mi. travelled (mln): 2,630	Topographical features: not considered

Strafford County, New Hampshire

2004 Designation: Nonattainment	County design value: 80
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Area: Boston-Manchester-Portsmouth (SE), NH

MSA or CMSA: Boston-Worcester-Lawrence, MA-NH-ME-CT

Justification: New Hampshire portion of Boston C/MSA is defined town-by-town, as is the case for the rest of New England. The C/MSA includes all but 2 towns in Strafford Co. Total population in NH portion of C/MSA is 739,003. NH recommendation covers 695,043. Five towns from C/MSA not included in this county, with an average of 152 persons per square mile. Total population in the five excluded towns is 20,727. No major sources in towns in the MSA not included in recommendation. RACT and NSR are required throughout county.

EPA agrees with NH's recommendations, including their desire to be split from the Eastern Massachusetts area. These areas in NH are part of the Boston C/MSA. Massachusetts has historically and continues to recommend including Cape Cod and other non MSA areas as part of the Eastern Massachusetts nonattainment area, significantly expanding this area beyond the C/MSA. NH wants to split from the Eastern Massachusetts area because of concern over high ozone levels in southeastern Massachusetts, including Cape Cod. NH does not contribute to these elevated levels, and EPA agrees. The ozone monitor at Truro, MA, outside the Boston C/MSA has measured some of the highest ozone concentrations in the existing 1-hr Eastern Massachusetts nonattainment area. The monitor also has high 8-hour averages, mostly a result of transport from the New York City region.

In order to help ensure consistent control requirements, however, New Hampshire will be classified based on the highest design value of any monitor in this C/MSA. Splitting C/MSAs is rare, and we believe in light of the unique circumstances presented here, it is appropriate. Massachusetts has expanded the geographic boundaries of their portion of the nonattainment area beyond the C/MSA boundaries- which includes a monitor on Cape Cod, outside the C/MSA. This monitor in Truro currently and historically measures among the highest ozone values in the area. We do not believe that New Hampshire's air quality planning should also be forced to include this area. Massachusetts also agrees with this split.

Although it might appear superficially inconsistent to link SW CT with the NYC C/MSA while splitting S. NH from the Boston C/MSA, EPA can distinguish them based on the facts. In the NY-NJ-CT area, we are simply using the boundaries of the C/MSA, which include both Ocean County NJ and SW CT. In Boston, we wanted to accommodate MA DEP's desire to expand that area beyond the C/MSA into Cape Cod without holding NH responsible for monitors beyond the Boston C/MSA.

2000 Population: 112,233	VOC (tpy): 5,773	%drive to work: 1 Boston--Worcester--Lawren
1990-2000 growth: 7.7%	NOx (tpy): 5,136	Wind direction: not considered
2000-2010 growth: 11.1%	1999 Veh. mi. travelled (mln): 957	Topographical features: not considered

Sullivan County, New Hampshire

2004 Designation: Unclassifiable/Attainment | County design value: 75

Area: - attainment -

MSA or CMSA: - outside -

Justification: Sullivan County, NH is included for a detailed justification, because Sullivan County is adjacent to two counties that contain a nonattainment area. The county does not contain an MSA, nor is it adjacent to an MSA. The county has an ozone monitor which has air quality below the 8-hour NAAQS. Population density is 74 persons per square mile. RACT and NSR required throughout the

county. EPA reviewed data pertaining to the factors in our guidance and concludes that Sullivan County does not contribute to any nearby violation. The state requested attainment and we agree with the recommendation.

2000 Population: 40,458	VOC (tpy): 3,777	%drive to work: 0 Boston--Worcester--Lawren
1990-2000 growth: 4.8%	NOx (tpy): 2,762	Wind direction: not considered
2000-2010 growth: 9.6%	1999 Veh. mi. travelled (mln): 403	Topographical features: not considered

Atlantic County, New Jersey

2004 Designation: Nonattainment		County design value: 91
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: Atlantic County is part of the Philadelphia C/MSA, the County has a monitor violating the standard, and EPA agrees with the State's recommendation of nonattainment as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		
2000 Population: 252,552	VOC (tpy): 12,414	%drive to work: 98 Philadelphia--Wilmington-
1990-2000 growth: 12.6%	NOx (tpy): 9,028	Wind direction: not considered
2000-2010 growth: 8.7%	1999 Veh. mi. travelled (mln): 2,063	Topographical features: not considered

Bergen County, New Jersey

2004 Designation: Nonattainment		County design value: 94
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: NJ recommended that EPA designate the whole state as nonattainment. Bergen County is in the NYC C/MSA. EPA agrees with the State's recommendation and is designating Bergen County as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 884,118	VOC (tpy): 39,234	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 7.1%	NOx (tpy): 29,042	Wind direction: not considered
2000-2010 growth: 5.0%	1999 Veh. mi. travelled (mln): 6,374	Topographical features: not considered

Burlington County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: NJ requested statewide nonattainment. EPA agrees with the State's recommendation. This county is in the Philadelphia C/MSA and EPA is designating it as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		

2000 Population: 423,394	VOC (tpy): 18,946	%drive to work: 85 Philadelphia-- Wilmington-
1990-2000 growth: 7.2%	NOx (tpy): 16,015	Wind direction: not considered
2000-2010 growth: 9.8%	1999 Veh. mi. travelled (mln): 3,568	Topographical features: not considered

Camden County, New Jersey

2004 Designation: Nonattainment		County design value: 101
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: NJ requested statewide nonattainment. EPA agrees with the State's recommendation. This county is in the Philadelphia C/MSA and EPA is designating it as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		
2000 Population: 508,932	VOC (tpy): 21,758	%drive to work: 96 Philadelphia-- Wilmington-
1990-2000 growth: 1.2%	NOx (tpy): 18,382	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 4,199	Topographical features: not considered

Cape May County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: Cape May County is in the Philadelphia 1999 C/MSA. NJ requested that EPA designate the county with the Philadelphia area. EPA agrees with the State's recommendation and is designating the county as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		
2000 Population: 102,326	VOC (tpy): 12,148	%drive to work: 98 Philadelphia-- Wilmington-
1990-2000 growth: 7.6%	NOx (tpy): 8,502	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln): 687	Topographical features: not considered

Cumberland County, New Jersey

2004 Designation: Nonattainment		County design value: 95
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: Cumberland County is in the Philadelphia C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		
2000 Population: 146,438	VOC (tpy): 9,632	%drive to work: 99 Philadelphia-- Wilmington-
1990-2000 growth: 6.1%	NOx (tpy): 7,106	Wind direction: not considered

2000-2010 growth: 1.7%	1999 Veh. mi. travelled (mln): 1,094	Topographical features: not considered
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Essex County, New Jersey

2004 Designation: Nonattainment		County design value: 68
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island, NY-NJ-CT-PA		
Justification: Essex County is in the NYC C/MSA. NJ requested nonattainment for this county. EPA agrees with the State and is designating the county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 793,633	VOC (tpy): 32,095	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 2.0%	NOx (tpy): 28,638	Wind direction: not considered
2000-2010 growth: - 0.8%	1999 Veh. mi. travelled (mln): 6,019	Topographical features: not considered

Gloucester County, New Jersey

2004 Designation: Nonattainment		County design value: 99
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
Justification: Gloucester County is in the Philadelphia C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		
2000 Population: 254,673	VOC (tpy): 15,486	%drive to work: 97 Philadelphia--Wilmington-
1990-2000 growth: 10.7%	NOx (tpy): 22,900	Wind direction: not considered
2000-2010 growth: 9.2%	1999 Veh. mi. travelled (mln): 2,196	Topographical features: not considered

Hudson County, New Jersey

2004 Designation: Nonattainment		County design value: 87
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island, NY-NJ-CT-PA		
Justification: Hudson County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 608,975	VOC (tpy): 22,625	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 10.1%	NOx (tpy): 26,029	Wind direction: not considered
2000-2010 growth: -0.5%	1999 Veh. mi. travelled (mln): 4,279	Topographical features: not considered

Hunterdon County, New Jersey

2004 Designation: Nonattainment		County design value: 97
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Hunterdon County is part of the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 121,989	VOC (tpy): 6,397	%drive to work: 96 New York--Northern New Je
1990-2000 growth: 13.2%	NOx (tpy): 8,716	Wind direction: not considered
2000-2010 growth: 14.7%	1999 Veh. mi. travelled (mln): 1,694	Topographical features: not considered

Mercer County, New Jersey

2004 Designation: Nonattainment		County design value: 100
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Mercer County is part of the Philadelphia 1-hour ozone nonattainment area and transportation planning area. In our December 3, 2003, letter to the Governor of NJ, EPA agreed with NJ's recommendation to designate this county as nonattainment in the Philadelphia nonattainment area for the 8-hour ozone standard. The monitor in Mercer County is one of the peak downwind ozone monitors for Philadelphia. EPA is agreeing with New Jersey's recommendation to designate Mercer County as part of the Philadelphia-Wilmington-Atlantic City 8-hour ozone nonattainment area.		
2000 Population: 350,761	VOC (tpy): 16,481	%drive to work: 7 Philadelphia--Wilmington-
1990-2000 growth: 7.7%	NOx (tpy): 28,759	Wind direction: Wind rose, trajectories show upwind of NYC metro area
2000-2010 growth: 3.4%	1999 Veh. mi. travelled (mln): 3,556	Topographical features: not considered

Middlesex County, New Jersey

2004 Designation: Nonattainment		County design value: 98
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Middlesex County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 750,162	VOC (tpy): 35,330	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 11.7%	NOx (tpy): 27,117	Wind direction: not considered
2000-2010 growth: 7.2%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

	5,462	
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Monmouth County, New Jersey

2004 Designation: Nonattainment		County design value: 97
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Monmouth County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 615,301	VOC (tpy): 27,126	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 11.2%	NOx (tpy): 19,976	Wind direction: not considered
2000-2010 growth: 11.4%	1999 Veh. mi. travelled (mln): 4,822	Topographical features: not considered

Morris County, New Jersey

2004 Designation: Nonattainment		County design value: 98
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Morris County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the new York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 470,212	VOC (tpy): 21,194	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 11.6%	NOx (tpy): 16,906	Wind direction: not considered
2000-2010 growth: 10.7%	1999 Veh. mi. travelled (mln): 3,672	Topographical features: not considered

Ocean County, New Jersey

2004 Designation: Nonattainment		County design value: 106
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
<p>Justification: On December 3, 2003, EPA wrote to the Governor of New Jersey, indicating that EPA intended to modify the State's recommendation with respect to Ocean County and, instead, include the county with the New York City (NYC) nonattainment area for purposes of the 8-hour ozone standard because it is located in the NYC C/MSA and the current designated 1-hour ozone nonattainment area.</p> <p>New Jersey's January 30, 2004 letter makes a strong 11-factor technical argument for including Ocean County with the Philadelphia nonattainment area. Supporting New Jersey's recommendation are meteorology, monitoring data, and 3 years of trajectory analysis for all high ozone days. The Ocean County monitor was sited to be the peak downwind monitor for Philadelphia. Most commuting stays</p>		

within the county. Ocean County's population and emissions density is less than most NYC C/MSA counties.

EPA's recent Interstate Air Quality Rule (IAQR) modeling predicts that states upwind of Ocean County outside of New Jersey contribute 59 % of Ocean County's ozone (69 FR 4566). New York commented that emissions from New York have little effect on Ocean County's prospects for attainment. IAQR modeling shows New York has less than 1% impact, previous CAMx modeling using OTAG supports this, predicting less than 2% impact. The IAQR modeled maximum 8-hr ozone contributions to Ocean County include 49 ppb from PA, 26 ppb from Maryland, 3 ppb from NY and 1 ppb from CT.

Pennsylvania and Delaware oppose moving Ocean County to the Philadelphia 8-hour ozone nonattainment area. Pennsylvania estimates that only 15.8% of Ocean County's ozone is from the Philadelphia C/MSA. However, using the same methodology, the impact of the entire states of New York and Connecticut and New England states is less than 2%, a lot less than Philadelphia's impact. Also, New Jersey recommended that Pennsylvania expand the Philadelphia area to include more counties west of Philadelphia. This would bring into the Philadelphia area more of the counties in Pennsylvania that impact Ocean County. Pennsylvania did not agree.

Pennsylvania believes the CAA does not support moving counties out of the C/MSA. The CAA does not mandate any specific result and EPA has established 11 factors States and EPA should evaluate to determine if the boundaries of a presumptive nonattainment area should be modified (either expanded or decreased). New Jersey used these factors to provide a technical justification in support of its request. Pennsylvania suggested that planning boundaries should be used to avoid disrupting planning. Planning areas is one of the 11 factors, and must be considered along with the other factors.

Pennsylvania and Delaware noted that following New Jersey's analysis would place Cecil County, Maryland in the Baltimore nonattainment area and could result in all of Delaware, as well as parts of Pennsylvania and New Jersey being included in the Baltimore area.

However, we note that no states made such recommendations and New Jersey limited its request to the counties in New Jersey that were most directly affected by the Philadelphia area and were furthest from the New York City urban area. New Jersey did suggest that Maryland consider moving Cecil County into the Baltimore area, but Maryland did not make such a request. EPA believes that in considering which of two nonattainment areas a county should be placed in, significant weight should be given to the State's request. Thus, EPA sees no reason to reevaluate Maryland's choice with respect to Cecil County. New Jersey also recommended that Connecticut move the eastern half of Middlesex County, located in the Greater Connecticut MSA, into the New York City nonattainment area (which includes the western portion of Middlesex County). Connecticut did make such a request and EPA is including all of Middlesex County as part of the New York City nonattainment areas.

Trajectory analysis, by Region 3, for the 12 highest ozone days from 2001 to 2003 showed air primarily moves from the SW, W and NW on such days, not through New York City. Alternative trajectories by New Jersey for those days with an ending time nearer to the time of peak ozone were more westerly. New Jersey's complete analysis of 72 trajectories for all ozone days over 0.08 ppm at Ocean County shows only 6 days with the trajectory passing through northern New Jersey or southeast New York. While trajectory analysis can be helpful it has significant limitations as it does not take into consideration atmospheric chemical processes, the injection of emissions, or the deposition of material along the trajectory path. Nevertheless, the trajectory analyses complement the IAQR analysis that shows little impact from New York or Connecticut.

Therefore, based on the 11 factors and information described above, EPA is agreeing with New Jersey's recommendation to include Ocean County as part of the Philadelphia 8-hour ozone nonattainment area.

2000 Population: 510,916	VOC (tpy): 22,822	%drive to work: 94 New York--Northern New Je
1990-2000 growth: 17.9%	NOx (tpy): 14,421	Wind direction: Wind rose, trajectories show upwind of NYC metro area
2000-2010 growth: 12.7%	1999 Veh. mi. travelled (mln): 3,370	Topographical features: not considered

Passaic County, New Jersey

2004 Designation: Nonattainment		County design value: 88
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L. Island, NY-NJ-CT-PA		
Justification: Passaic County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 489,049	VOC (tpy): 18,142	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 7.9%	NOx (tpy): 14,333	Wind direction: not considered
2000-2010 growth: 3.0%	1999 Veh. mi. travelled (mln): 3,382	Topographical features: not considered

Salem County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
Justification: Salem County is in the Philadelphia C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the Philadelphia-Wilmington-Atlantic City nonattainment area.		
2000 Population: 64,285	VOC (tpy): 8,184	%drive to work: 98 Philadelphia--Wilmington-
1990-2000 growth: -1.5%	NOx (tpy): 5,240	Wind direction: not considered
2000-2010 growth: 3.0%	1999 Veh. mi. travelled (mln): 681	Topographical features: not considered

Somerset County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L. Island, NY-NJ-CT-PA		
Justification: Somerset County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N.		

New Jersey-Long Island nonattainment area.		
2000 Population: 297,490	VOC (tpy): 11,870	%drive to work: 98 New York--Northern New Je
1990-2000 growth: 23.8%	NOx (tpy): 10,142	Wind direction: not considered
2000-2010 growth: 17.2%	1999 Veh. mi. travelled (mln): 2,044	Topographical features: not considered

Sussex County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Sussex County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 144,166	VOC (tpy): 6,331	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 10.1%	NOx (tpy): 5,290	Wind direction: not considered
2000-2010 growth: 12.4%	1999 Veh. mi. travelled (mln): 1,182	Topographical features: not considered

Union County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Union County is in the NYC C/MSA. NJ requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 522,541	VOC (tpy): 29,741	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 5.8%	NOx (tpy): 21,820	Wind direction: not considered
2000-2010 growth: 1.6%	1999 Veh. mi. travelled (mln): 3,821	Topographical features: not considered

Warren County, New Jersey

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Warren County was designated as part of the Allentown nonattainment area for the 1-hour standard. It is located in the NYC 1999 C/MSA. NJ requested that the county be designated as nonattainment as part of the New York-N. New Jersey-Long Island nonattainment area for the 8-hour		

standard. EPA agrees with the State's recommendation.

2000 Population: 102,437	VOC (tpy): 6,985	%drive to work: 94 New York--Northern New Je
1990-2000 growth: 11.8%	NOx (tpy): 6,700	Wind direction: not considered
2000-2010 growth: 9.2%	1999 Veh. mi. travelled (mln): 1,376	Topographical features: not considered

Albany County, New York

2004 Designation: Nonattainment		County design value: 86
Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: Albany-Schenectady-Troy, NY		
Justification: The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations in the Albany MSA. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the whole Albany MSA, including Albany County, as nonattainment.		
2000 Population: 294,565	VOC (tpy): 16,641	%drive to work:
1990-2000 growth: 0.7%	NOx (tpy): 23,131	Wind direction: not considered
2000-2010 growth: 0.3%	1999 Veh. mi. travelled (mln): 3,008	Topographical features: not considered

Allegany County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Allegany County does not have a violating monitor. It is not located in the Rochester presumed nonattainment area. Using the 11 factors, EPA has evaluated data for the county and concludes that it is not contributing to a violation in a nearby area. EPA is designating the county as attainment/unclassifiable.		
2000 Population: 49,927	VOC (tpy): 3,368	%drive to work: 4 Rochester, NY MSA
1990-2000 growth: -1.1%	NOx (tpy): 3,205	Wind direction: not considered
2000-2010 growth: 7.3%	1999 Veh. mi. travelled (mln): 651	Topographical features: not considered

Bronx County, New York

2004 Designation: Nonattainment		County design value: 84
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Bronx County is in the NYC C/MSA. NY requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as part of the New York-N. New Jersey-Long Island nonattainment area.		

2000 Population: 1,332,650	VOC (tpy): 27,125	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 10.7%	NOx (tpy): 22,144	Wind direction: not considered
2000-2010 growth: 6.9%	1999 Veh. mi. travelled (mln): 6,121	Topographical features: not considered

Cattaraugus County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cattaraugus County is located outside, but adjacent to, the Jamestown MSA. It does not have a monitored violation of the 8-hour standard. It is downwind of the Jamestown nonattainment area, small, and not linked to Jamestown area. Based on the 11 factors, EPA believes the County should be designated attainment/unclassifiable.		
2000 Population: 83,955	VOC (tpy): 5,844	%drive to work: 6 Jamestown, NY MSA
1990-2000 growth: -0.3%	NOx (tpy): 5,198	Wind direction: not considered
2000-2010 growth: -0.3%	1999 Veh. mi. travelled (mln): 1,052	Topographical features: not considered

Cayuga County, New York

2004 Designation: Unclassifiable		County design value: N/A
Area: Syracuse, NY		
MSA or CMSA: Syracuse, NY		
<p>Justification: EPA is designating the Syracuse, NY area counties Onondaga, Oswego, Madison and Cayuga as unclassifiable.</p> <p>On July 15, 2003, the state of New York recommended the Syracuse area as attainment due to the area having 2000-2002 monitored values below the standard. On December 3, 2003 the EPA stated that air quality from 2003 has produced a violation of the ozone standard and recommended including the counties in the Syracuse Metropolitan Statistical Area (Onondaga, Oswego, Madison and Cayuga Counties) as the Syracuse nonattainment area. EPA further stated that it was important for New York to submit 2003 data to accurately reflect the air quality in the area because it was critical to the designations and classification process. New York has provided this monitoring data to EPA.</p> <p>In reviewing the air quality data from areas across the country supporting designations, EPA found several areas with levels just exceeding the standard. Twenty-two counties had monitors with design values of 85 ppb given 2001 - 2003 monitoring data. The EPA is aware that air quality in some areas varies from year to year and as a result looked into these counties in more detail. In reviewing these counties, three had not exceeded the level of the standard for at least 5 consecutive years. For these three counties, 2 are associated with other counties within the C/MSA with air quality exceeding the level of the standard. Douglas County, Colorado, is located in the Denver Colorado MSA which also includes Jefferson County which has two monitors that exceeded the level of the standard. Ingram County, Michigan, is located within the Lansing-East Lansing MSA which includes Clinton County which has a monitor that exceeded the level of the standard. The remaining county is Onondaga</p>		

County, New York, which is located within the Syracuse MSA which includes a monitor in Madison County which is attaining the standard.

There are two monitors within this C/MSA that were used to evaluate the monitored air quality in this C/MSA. There is one in Madison county that monitored 82 ppb which is below the standard and one in Onondaga county that monitored 85 ppb. Because one is at the standard and the other monitor is below the standard, EPA wanted to closely review the data to make the correct technical decision. The monitors are properly sited and no quality assurance issues have been identified. This area has never violated the 1-hour ozone standard.

Given the unique circumstances for the Syracuse area, EPA has determined that the area should be designated as unclassifiable. EPA will work with New York to evaluate the upcoming 2004 ozone season monitoring data. The decision to designate the area as unclassifiable will allow EPA to evaluate the data more fully, along with additional data from 2004, to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 81,963	VOC (tpy): 5,200	%drive to work: 87 Syracuse, NY MSA
1990-2000 growth: -0.4%	NOx (tpy): 5,123	Wind direction: not considered
2000-2010 growth: -2.5%	1999 Veh. mi. travelled (mln): 785	Topographical features: not considered

Chautauqua County, New York

2004 Designation: Nonattainment	County design value: 94	
Area: Jamestown, NY		
MSA or CMSA: Jamestown, NY		
Justification: Chautauqua County is the only county in the Jamestown MSA. The ozone monitor in the county is violating the standard. NY recommended the county as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 139,750	VOC (tpy): 12,003	%drive to work: 89 Jamestown, NY MSA
1990-2000 growth: -1.5%	NOx (tpy): 16,542	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 1,571	Topographical features: not considered

Chenango County, New York

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Chenango County is not part of the Syracuse MSA and does not have an ozone monitor. Monitors in Madison County, adjoining to its north and Chemung County to its south are attaining. Based on the 11 factors, EPA believes the County should be designated attainment/unclassifiable.		
2000 Population: 51,401	VOC (tpy): 3,313	%drive to work: 5 Syracuse, NY MSA
1990-2000 growth: -0.7%	NOx (tpy): 3,311	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	Topographical features: not

2000-2010 growth: -2.7%	592	considered
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Columbia County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Columbia County does not have a monitor. It is not located in an MSA. Nearby Ulster County has a monitor in attainment, which is representative Columbia County. Columbia County does not have strong links to either of the two nearby MSAs, has low growth and population, and low emissions compared with the nearby MSAs. Based on the 11 factors, EPA believes the County should be designated attainment/unclassifiable.		
2000 Population: 63,094	VOC (tpy): 4,426	%drive to work: 11 New York--Northern New Je
1990-2000 growth: 0.2%	NOx (tpy): 3,710	Wind direction: not considered
2000-2010 growth: -2.9%	1999 Veh. mi. travelled (mln): 724	Topographical features: not considered

Cortland County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cortland County is not part of an MSA and does not have an ozone monitor. Monitors in nearby Monroe and Chemung Counties show attainment. Based on the 11 factors, EPA believes the County should be designated attainment/unclassifiable.		
2000 Population: 48,599	VOC (tpy): 3,174	%drive to work: 11 Syracuse, NY MSA
1990-2000 growth: -0.7%	NOx (tpy): 2,670	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 575	Topographical features: not considered

Dutchess County, New York

2004 Designation: Nonattainment		County design value: 94
Area: Poughkeepsie, NY		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: The State of New York recommended a nonattainment designation for Orange, Putnam and Dutchess Counties as a separate area from the NYC nonattainment area. In a letter to the Commissioner dated December 3, 2003, EPA indicated that it intended to modify the State's recommendation to include these three counties as part of the New York City designated nonattainment area, because New York did not submit sufficient information to allow EPA to approve a separation from the rest of the C/MSA. In response, the State submitted additional information on the matter. EPA has reviewed the information and is changing its decision. EPA is designating the counties of Dutchess, Orange and Putnam as the Poughkeepsie nonattainment area separate from the NYC nonattainment area.		

In its submittal, New York provides an 11 factor analysis that shows there is a major difference between the counties in the Mid-Hudson Region and the rest of the New York City (NYC) C/MSA. There is a sharp decrease in population density, VOC and NOx emission density compared to nearby counties in the C/MSA. Population density is 1/4 of the nearby C/MSA, VOC density 1/3 of the nearby C/MSA, NOx density is 3/5 of the nearby counties and emissions are 1/6 of the NYC core counties. Two-thirds of workers living in these counties work in the Mid-Hudson region. One-quarter commute into the rest of the NYC C/MSA. New York includes a trajectory analysis showing that the counties may not be affected by the NYC area. The information is located in the docket for this action. Dutchess County is included in the separate 1-hour nonattainment area and in a transportation planning area along with Orange and Putnam Counties. The design value for these counties results in the same classification as NYC and surrounding areas.

2000 Population: 280,150	VOC (tpy): 15,637	%drive to work: 93 New York--Northern New Je
1990-2000 growth: 8.0%	NOx (tpy): 12,283	Wind direction: Downwind / crosswind of NYC area upwind of Mass.
2000-2010 growth: 4.8%	1999 Veh. mi. travelled (mln): 2,785	Topographical features: Hudson Highlands

Erie County, New York

2004 Designation: Nonattainment		County design value: 99
Area: Buffalo-Niagara Falls, NY		
MSA or CMSA: Buffalo-Niagara Falls, NY		
Justification: There are two counties in the Buffalo-Niagara Falls MSA. Both counties have a monitor that is violating the standard. NY recommended the counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 950,265	VOC (tpy): 51,862	%drive to work: 97 Buffalo--Niagara Falls, N
1990-2000 growth: -1.9%	NOx (tpy): 47,958	Wind direction: not considered
2000-2010 growth: -4.6%	1999 Veh. mi. travelled (mln): 8,207	Topographical features: not considered

Essex County, New York

2004 Designation: Nonattainment		County design value: 91
Area: Essex County (Whiteface Mtn), NY		
MSA or CMSA: - outside -		
Justification: This area is located in the Adirondack Mountains. The ozone monitors in the remainder of the Adirondack Mountains and the monitors nearer to sea level are attaining the standard. However, there are two monitors at very high elevation on Whiteface Mountain that are violating the standard. There are no violations of the standard at monitors sited at intermediate elevations in this portion of the State. This shows that the ozone problem at Whiteface Mountain is related to its extreme elevation and is affected by long range transport. EPA believes that the ozone concentrations recorded here are not a problem caused by local urban ozone plumes and that this is an unusual situation where mountain top monitors are measuring ozone transported above the surface layer.		
Of all the monitors at more than 1,000 feet elevation above sea level in New York State, only the two		

on Whiteface Mountain are violating the standard. These monitors are located at the highest elevation in the state. Because the monitors at elevations up to 1722 feet above sea level are in attainment, EPA believes that the violations recorded by the monitors on Whiteface Mountain are due to long range transport of ozone at high altitudes. EPA concludes that the elevations with violating monitors should be designated nonattainment. The nonattainment area is described as those portions of Whiteface Mountain in Essex County that are over 1900 feet above sea level.

Because of these unique factors, EPA is designating only a portion of the County as nonattainment. The reader should note that statistics provided in this document pertain to the entire county and are not limited to Whiteface Mountain.

2000 Population: 38,851	VOC (tpy): 4,517	%drive to work: 0
1990-2000 growth: 4.6%	NOx (tpy): 4,185	Wind direction: not considered
2000-2010 growth: 3.3%	1999 Veh. mi. travelled (mln): 741	Topographical features: not considered

Genesee County, New York

2004 Designation: Nonattainment	County design value: N/A	
Area: Rochester, NY		
MSA or CMSA: Rochester, NY		
<p>Justification: Genesee County is located in the Rochester MSA. There are two monitors in the MSA that are violating the standard. They are located in Monroe and Wayne Counties. When Jefferson County had days that violated the ozone standard in 2002, trajectories performed by NYSDEC showed that the air passed through the Rochester MSA on half of the high ozone days in Jefferson County. Therefore, Rochester is also a contributor to the violating of the ozone standard in Jefferson County. Based on these facts, EPA is designating the MSA as nonattainment.</p> <p>Monitor siting issue - NY plans to relocate the monitor in downtown Rochester to another site because it is obstructed by trees. EPA has examined the ozone data and concludes that data collected at the monitor are valid. Ozone values without the presence of the trees would be higher. Data collected at the downwind monitor in the Rochester MSA also are violating the standard. The downwind monitor may not be located in the area of highest ozone downwind of Rochester. Therefore, actual peak ozone values in the Rochester area are likely to be higher. NY sited a new downwind monitor in 2003 that recorded more violations in 2003 than the present downwind site, which strengthens our conclusion that the Rochester MSA is not attaining the ozone standard.</p> <p>NYSDEC requested that EPA exclude Genesee County from the Rochester nonattainment area. Since the State did not provide information that the county should be separate from the rest of the MSA, and because it is between two MSAs that violate the standard, it will remain nonattainment with the rest of the Rochester MSA.</p>		
2000 Population: 60,370	VOC (tpy): 4,222	%drive to work: 86 Rochester, NY MSA
1990-2000 growth: 0.5%	NOx (tpy): 4,632	Wind direction: not considered
2000-2010 growth: -2.7%	1999 Veh. mi. travelled (mln): 753	Topographical features: not considered

Greene County, New York

2004 Designation: Nonattainment	County design value: N/A
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Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: - outside -		
Justification: Greene County was part of the Albany ozone nonattainment area for the 1-hour standard and will be included with the Albany 8-hour ozone nonattainment area, even though it is outside the Albany MSA. It is part of the presumptive nonattainment area because EPA guidance specifies using the C/MSA or the previous one-hour nonattainment area, whichever is larger.		
The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the Albany area, including Greene County, as nonattainment.		
2000 Population: 48,195	VOC (tpy): 3,448	%drive to work:
1990-2000 growth: 7.7%	NOx (tpy): 7,143	Wind direction: not considered
2000-2010 growth: 5.4%	1999 Veh. mi. travelled (mln): 614	Topographical features: not considered

Jefferson County, New York

2004 Designation: Nonattainment		County design value: 97
Area: Jefferson County, NY		
MSA or CMSA: - outside -		
Justification: Jefferson County is not in an MSA. The ozone monitor located in Jefferson County is violating the standard. New York recommended the county as nonattainment and EPA agrees with the State's recommendation.		
2000 Population: 111,738	VOC (tpy): 10,527	%drive to work: 2 Syracuse, NY MSA
1990-2000 growth: 0.7%	NOx (tpy): 8,074	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 1,309	Topographical features: not considered

Kings County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Kings County is in the New York City C/MSA. New York recommended a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as nonattainment as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 2,465,326	VOC (tpy): 54,829	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 7.2%	NOx (tpy): 45,706	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 11,703	Topographical features: not considered

Lewis County, New York

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Lewis County is not in an MSA. It does not have an ozone monitor, but nearby monitors are showing attainment. Based on a consideration of the 11 factors, EPA concludes that Lewis County is not contributing to a violation in a nearby area. EPA is designating Lewis County as attainment/unclassifiable.		
2000 Population: 26,944	VOC (tpy): 2,395	%drive to work: 1 Syracuse, NY MSA
1990-2000 growth: 0.6%	NOx (tpy): 1,544	Wind direction: not considered
2000-2010 growth: -1.3%	1999 Veh. mi. travelled (mln): 252	Topographical features: not considered

Livingston County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: Rochester, NY		
MSA or CMSA: Rochester, NY		
Justification: Livingston County is located in the Rochester MSA. There are two monitors in the MSA that are violating the standard. They are located in Monroe and Wayne Counties. Trajectories based on violations occurring in Jefferson County in 2002 pass through the MSA about half the time. Therefore, Rochester is also a contributor to violating air quality in Jefferson County. Based on these facts, EPA is designating the MSA as nonattainment.		
Monitor siting issue - NY plans to relocate the monitor in downtown Rochester to another site because it is obstructed by trees. EPA has examined the ozone data and concludes that data collected at the monitor are valid. Ozone values without the presence of the trees would be higher. Data collected at the downwind monitor also are violating the standard. The downwind monitor is not located in the area of highest ozone downwind of Rochester. Therefore, actual peak ozone values in the Rochester area are likely to be higher. NY sited a new downwind monitor that recorded more violations in 2003 than the present downwind site. The data collected at this monitor support a nonattainment designation but there are not yet three years of ozone data collected at the site for use in the designation.		
2000 Population: 64,328	VOC (tpy): 4,191	%drive to work: 94 Rochester, NY MSA
1990-2000 growth: 3.1%	NOx (tpy): 3,998	Wind direction: not considered
2000-2010 growth: 3.2%	1999 Veh. mi. travelled (mln): 838	Topographical features: not considered

Madison County, New York

2004 Designation: Unclassifiable		County design value: 82
Area: Syracuse, NY		
MSA or CMSA: Syracuse, NY		
Justification:		
EPA is designating the Syracuse, NY area counties Onondaga, Oswego, Madison and Cayuga as unclassifiable.		

On July 15, 2003, the state of New York recommended the Syracuse area as attainment due to the area having 2000-2002 monitored values below the standard. On December 3, 2003 the EPA stated that air quality from 2003 has produced a violation of the ozone standard and recommended including the counties in the Syracuse Metropolitan Statistical Area (Onondaga, Oswego, Madison and Cayuga Counties) as the Syracuse nonattainment area. EPA further stated that it was important for New York to submit 2003 data to accurately reflect the air quality in the area because it was critical to the designations and classification process. New York has provided this monitoring data to EPA.

In reviewing the air quality data from areas across the country supporting designations, EPA found several areas with levels just exceeding the standard. Twenty-two counties had monitors with design values of 85 ppb given 2001 - 2003 monitoring data. The EPA is aware that air quality in some areas varies from year to year and as a result looked into these counties in more detail. In reviewing these counties, three had not exceeded the level of the standard for at least 5 consecutive years. For these three counties, 2 are associated with other counties within the C/MSA with air quality exceeding the level of the standard. Douglas County, Colorado, is located in the Denver Colorado MSA which also includes Jefferson County which has two monitors that exceeded the level of the standard. Ingram County, Michigan, is located within the Lansing-East Lansing MSA which includes Clinton County which has a monitor that exceeded the level of the standard. The remaining county is Onondaga County, New York, which is located within the Syracuse MSA which includes a monitor in Madison County which is attaining the standard.

There are two monitors within this C/MSA that were used to evaluate the monitored air quality in this C/MSA. There is one in Madison county that monitored 82 ppb which is below the standard and one in Onondaga county that monitored 85 ppb. Because one is at the standard and the other monitor is below the standard, EPA wanted to closely review the data to make the correct technical decision. The monitors are properly sited and no quality assurance issues have been identified. This area has never violated the 1-hour ozone standard.

Given the unique circumstances for the Syracuse area, EPA has determined that the area should be designated as unclassifiable. EPA will work with New York to evaluate the upcoming 2004 ozone season monitoring data. The decision to designate the area as unclassifiable will allow EPA to evaluate the data more fully, along with additional data from 2004, to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 69,441	VOC (tpy): 3,822	%drive to work: 83 Syracuse, NY MSA
1990-2000 growth: 0.5%	NOx (tpy): 3,738	Wind direction: not considered
2000-2010 growth: -0.1%	1999 Veh. mi. travelled (mln): 691	Topographical features: not considered

Monroe County, New York

2004 Designation: Nonattainment	County design value: 88
Area: Rochester, NY	
MSA or CMSA: Rochester, NY	
Justification: Monroe County is located in the Rochester MSA. There are two monitors in the MSA that are violating the standard. They are located in Monroe and Wayne Counties. Trajectories based on violations occurring in Jefferson County in 2002 pass through the MSA about half the time. Therefore, Rochester is also a contributor to violating air quality in Jefferson County. Based on these facts, EPA is designating the MSA as nonattainment.	

Monitor siting issue - NY plans to relocate the monitor in downtown Rochester to another site because it is obstructed by trees. EPA has examined the ozone data and concludes that data collected at the monitor are valid. Ozone values without the presence of the trees would be higher. Data collected at the downwind monitor also are violating the standard. The downwind monitor is not located in the area of highest ozone downwind of Rochester. Therefore, actual peak ozone values in the Rochester area are likely to be higher. NY sited a new downwind monitor that recorded more violations in 2003 than the present downwind site. The data collected at this monitor support a nonattainment designation but there are not yet three years of ozone data collected at the site for use in the designation.

2000 Population: 735,343	VOC (tpy): 46,786	%drive to work: 99 Rochester, NY MSA
1990-2000 growth: 3.0%	NOx (tpy): 38,961	Wind direction: not considered
2000-2010 growth: -0.3%	1999 Veh. mi. travelled (mln): 6,549	Topographical features: not considered

Montgomery County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: Albany-Schenectady-Troy, NY		
Justification: The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the MSA, including Montgomery County, as nonattainment. This county was included in the previous 1-hour ozone nonattainment area.		
2000 Population: 49,708	VOC (tpy): 3,551	%drive to work:
1990-2000 growth: -4.4%	NOx (tpy): 4,235	Wind direction: not considered
2000-2010 growth: -7.3%	1999 Veh. mi. travelled (mln): 664	Topographical features: not considered

Nassau County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Nassau County is in the New York City C/MSA. New York requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as nonattainment as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 1,334,544	VOC (tpy): 52,239	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 3.7%	NOx (tpy): 31,698	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 6,534	Topographical features: not considered

New York County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L. Island, NY-NJ-CT-PA		
Justification: This area is in the New York City C/MSA. New York requested a nonattainment designation. EPA agrees with the State's recommendation and is designating the New York County as nonattainment as part of the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 1,537,195	VOC (tpy): 53,916	%drive to work: 98 New York--Northern New Je
1990-2000 growth: 3.3%	NOx (tpy): 47,593	Wind direction: not considered
2000-2010 growth: 3.2%	1999 Veh. mi. travelled (mln): 7,567	Topographical features: not considered

Niagara County, New York

2004 Designation: Nonattainment		County design value: 95
Area: Buffalo-Niagara Falls, NY		
MSA or CMSA: Buffalo-Niagara Falls, NY		
Justification: There are two counties in the Buffalo-Niagara Falls MSA. Both counties have a monitor that is violating the standard. NY recommended the counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 219,846	VOC (tpy): 16,160	%drive to work: 97 Buffalo--Niagara Falls, N
1990-2000 growth: -0.4%	NOx (tpy): 19,374	Wind direction: not considered
2000-2010 growth: -2.8%	1999 Veh. mi. travelled (mln): 1,861	Topographical features: not considered

Oneida County, New York

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: Utica-Rome, NY		
Justification: Has monitor in attainment. Not part of any violating MSAs.		
2000 Population: 235,469	VOC (tpy): 14,845	%drive to work: 8 Syracuse, NY MSA
1990-2000 growth: - 6.1%	NOx (tpy): 52,058	Wind direction: not considered
2000-2010 growth: - 0.7%	1999 Veh. mi. travelled (mln): 2,445	Topographical features: not considered

Onondaga County, New York

2004 Designation: Unclassifiable		County design value: 85
Area: Syracuse, NY		
MSA or CMSA: Syracuse, NY		

Justification: EPA is designating the Syracuse, NY area counties Onondaga, Oswego, Madison and Cayuga as unclassifiable.

On July 15, 2003, the state of New York recommended the Syracuse area as attainment due to the area having 2000-2002 monitored values below the standard. On December 3, 2003 the EPA stated that air quality from 2003 has produced a violation of the ozone standard and recommended including the counties in the Syracuse Metropolitan Statistical Area (Onondaga, Oswego, Madison and Cayuga Counties) as the Syracuse nonattainment area. EPA further stated that it was important for New York to submit 2003 data to accurately reflect the air quality in the area because it was critical to the designations and classification process. New York has provided this monitoring data to EPA.

In reviewing the air quality data from areas across the country supporting designations, EPA found several areas with levels just exceeding the standard. Twenty-two counties had monitors with design values of 85 ppb given 2001 - 2003 monitoring data. The EPA is aware that air quality in some areas varies from year to year and as a result looked into these counties in more detail. In reviewing these counties, three had not exceeded the level of the standard for at least 5 consecutive years. For these three counties, 2 are associated with other counties within the C/MSA with air quality exceeding the level of the standard. Douglas County, Colorado, is located in the Denver Colorado MSA which also includes Jefferson County which has two monitors that exceeded the level of the standard. Ingram County, Michigan, is located within the Lansing-East Lansing MSA which includes Clinton County which has a monitor that exceeded the level of the standard. The remaining county is Onondaga County, New York, which is located within the Syracuse MSA which includes a monitor in Madison County which is attaining the standard.

There are two monitors within this C/MSA that were used to evaluate the monitored air quality in this C/MSA. There is one in Madison county that monitored 82 ppb which is below the standard and one in Onondaga county that monitored 85 ppb. Because one is at the standard and the other monitor is below the standard, EPA wanted to closely review the data to make the correct technical decision. The monitors are properly sited and no quality assurance issues have been identified. This area has never violated the 1-hour ozone standard.

Given the unique circumstances for the Syracuse area, EPA has determined that the area should be designated as unclassifiable. EPA will work with New York to evaluate the upcoming 2004 ozone season monitoring data. The decision to designate the area as unclassifiable will allow EPA to evaluate the data more fully, along with additional data from 2004, to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 458,336	VOC (tpy): 26,146	%drive to work: 97 Syracuse, NY MSA
1990-2000 growth: -2.3%	NOx (tpy): 21,070	Wind direction: not considered
2000-2010 growth: -3.4%	1999 Veh. mi. travelled (mln): 4,323	Topographical features: not considered

Ontario County, New York

2004 Designation: Nonattainment	County design value: N/A
Area: Rochester, NY	
MSA or CMSA: Rochester, NY	

Justification: Ontario County is located in the Rochester MSA. There are two monitors in the MSA

that are violating the standard. They are located in Monroe and Wayne Counties. Trajectories based on violations occurring in Jefferson County in 2002 pass through the MSA about half the time. Therefore, Rochester is also a contributor to violating air quality in Jefferson County. Based on these facts, EPA is designating the MSA as nonattainment.

Monitor siting issue - NY plans to relocate the monitor in downtown Rochester to another site because it is obstructed by trees. EPA has examined the ozone data and concludes that data collected at the monitor are valid. Ozone values without the presence of the trees would be higher. Data collected at the downwind monitor also are violating the standard. The downwind monitor is not located in the area of highest ozone downwind of Rochester. Therefore, actual peak ozone values in the Rochester area are likely to be higher. NY sited a new downwind monitor that recorded more violations in 2003 than the present downwind site. The data collected at this monitor support a nonattainment designation but there are not yet three years of ozone data collected at the site for use in the designation.

NY asked EPA to remove Ontario County from Rochester nonattainment area. EPA examined the data and concludes that it does not meet the factor test in our guidance for removal. Furthermore, the county is located between the two counties with monitors that violate the 8-hour standard.

2000 Population: 100,224	VOC (tpy): 6,155	%drive to work: 95 Rochester, NY MSA
1990-2000 growth: 5.4%	NOx (tpy): 6,093	Wind direction: not considered
2000-2010 growth: 2.9%	1999 Veh. mi. travelled (mln): 1,119	Topographical features: not considered

Orange County, New York

2004 Designation: Nonattainment	County design value: 87	
Area: Poughkeepsie, NY		
MSA or CMSA: New York-N. New Jersey-L. Island, NY-NJ-CT-PA		
<p>Justification: The State of New York recommended a nonattainment designation for Orange, Putnam and Dutchess Counties as a separate area from the New York City nonattainment area. In a letter to the Commissioner dated December 3, 2003, EPA modified the State's recommendation and included the counties with the NYC designated area. In response, the State submitted additional information on the matter. EPA has reviewed the information and is changing its decision. EPA is designating the counties of Dutchess, Orange and Putnam along the lines of the 1-hour ozone nonattainment area as the Poughkeepsie nonattainment area separate from the NYC nonattainment area.</p> <p>In its submittal, New York provides an 11 factor analysis that shows there is a major difference between the counties in the Mid-Hudson Region and the rest of the New York City (NYC) C/MSA. There is a sharp decrease in population density, VOC and NOx emission density compared to nearby counties in the C/MSA. Population density is 1/4 of the nearby C/MSA, VOC density 1/3 of the nearby C/MSA, NOx density is 3/5 of the nearby counties and emissions are 1/6 of the NYC core counties. Two-thirds of workers living in these counties work in the Mid-Hudson region. One-quarter commute into the rest of the NYC C/MSA. NY includes a trajectory analysis showing that the counties may not be affected by the NYC area. The information is located in the docket for this action. Dutchess County is included in the separate 1-hour nonattainment area and in a transportation planning area along with Orange and Putnam Counties. The design value for these counties results in the same classification as NYC and surrounding areas.</p>		
2000 Population:	VOC (tpy): 17,580	%drive to work: 97 New York--Northern New Je

341,367		
1990-2000 growth: 11.0%	NOx (tpy): 24,718	Wind direction: Downwind / crosswind of NYC area upwind of Mass.
2000-2010 growth: 8.5%	1999 Veh. mi. travelled (mln): 3,534	Topographical features: Hudson Highlands

Orleans County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: Rochester, NY		
MSA or CMSA: Rochester, NY		
<p>Justification: Orleans County is located in the Rochester MSA. There are two monitors in the MSA that are violating the standard. They are located in Monroe and Wayne Counties. Trajectories based on violations occurring in Jefferson County in 2002 pass through the MSA about half the time. Therefore, Rochester is also a contributor to violating air quality in Jefferson County. Based on these facts, EPA is designating the MSA as nonattainment.</p> <p>Monitor siting issue - NY plans to relocate the monitor in downtown Rochester to another site because it is obstructed by trees. EPA has examined the ozone data and concludes that data collected at the monitor are valid. Ozone values without the presence of the trees would be higher. Data collected at the downwind monitor also are violating the standard. The downwind monitor is not located in the area of highest ozone downwind of Rochester. Therefore, actual peak ozone values in the Rochester area are likely to be higher. NY sited a new downwind monitor that recorded more violations in 2003 than the present downwind site. The data collected at this monitor support a nonattainment designation but there are not yet three years of ozone data collected at the site for use in the designation.</p> <p>NY asked EPA to remove Orleans County from Rochester nonattainment area. EPA examined the data and concludes that it does not meet the factor test in our guidance for removal. Furthermore, the county is located between the two counties with monitors that violate the 8-hour standard.</p>		
2000 Population: 44,171	VOC (tpy): 5,455	%drive to work: 91 Rochester, NY MSA
1990-2000 growth: 5.5%	NOx (tpy): 2,047	Wind direction: not considered
2000-2010 growth: 5.2%	1999 Veh. mi. travelled (mln): 394	Topographical features: not considered

Oswego County, New York

2004 Designation: Unclassifiable		County design value: N/A
Area: Syracuse, NY		
MSA or CMSA: Syracuse, NY		
<p>Justification: EPA is designating the Syracuse, NY area counties Onondaga, Oswego, Madison and Cayuga as unclassifiable.</p> <p>On July 15, 2003, the state of New York recommended the Syracuse area as attainment due to the area having 2000-2002 monitored values below the standard. On December 3, 2003 the EPA stated that air quality from 2003 has produced a violation of the ozone standard and recommended including the counties in the Syracuse Metropolitan Statistical Area (Onondaga, Oswego, Madison and Cayuga Counties) as the Syracuse nonattainment area. EPA further stated that it was important for New York</p>		

to submit 2003 data to accurately reflect the air quality in the area because it was critical to the designations and classification process. New York has provided this monitoring data to EPA.

In reviewing the air quality data from areas across the country supporting designations, EPA found several areas with levels just exceeding the standard. Twenty-two counties had monitors with design values of 85 ppb given 2001 - 2003 monitoring data. The EPA is aware that air quality in some areas varies from year to year and as a result looked into these counties in more detail. In reviewing these counties, three had not exceeded the level of the standard for at least 5 consecutive years. For these three counties, 2 are associated with other counties within the C/MSA with air quality exceeding the level of the standard. Douglas County, Colorado, is located in the Denver Colorado MSA which also includes Jefferson County which has two monitors that exceeded the level of the standard. Ingram County, Michigan, is located within the Lansing-East Lansing MSA which includes Clinton County which has a monitor that exceeded the level of the standard. The remaining county is Onondaga County, New York, which is located within the Syracuse MSA which includes a monitor in Madison County which is attaining the standard.

There are two monitors within this C/MSA that were used to evaluate the monitored air quality in this C/MSA. There is one in Madison county that monitored 82 ppb which is below the standard and one in Onondaga county that monitored 85 ppb. Because one is at the standard and the other monitor is below the standard, EPA wanted to closely review the data to make the correct technical decision. The monitors are properly sited and no quality assurance issues have been identified. This area has never violated the 1-hour ozone standard.

Given the unique circumstances for the Syracuse area, EPA has determined that the area should be designated as unclassifiable. EPA will work with New York to evaluate the upcoming 2004 ozone season monitoring data. The decision to designate the area as unclassifiable will allow EPA to evaluate the data more fully, along with additional data from 2004, to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 122,377	VOC (tpy): 9,424	%drive to work: 95 Syracuse, NY MSA
1990-2000 growth: 0.5%	NOx (tpy): 9,141	Wind direction: not considered
2000-2010 growth: 0.8%	1999 Veh. mi. travelled (mln): 1,312	Topographical features: not considered

Otsego County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Otsego County is not in an MSA and does not have an ozone monitor. Monitors in nearby areas are showing attainment. Based on our evaluation of the 11 factors, we believe Otsego is not contributing to a violation in a nearby area and we are designating Otsego County attainment/unclassifiable.		
2000 Population: 61,676	VOC (tpy): 3,905	%drive to work: 1 Syracuse, NY MSA
1990-2000 growth: 1.9%	NOx (tpy): 3,775	Wind direction: not considered
2000-2010 growth: 3.1%	1999 Veh. mi. travelled (mln): 808	Topographical features: not considered

Putnam County, New York

2004 Designation: Nonattainment		County design value: 93
Area: Poughkeepsie, NY		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
<p>Justification: The State of New York recommended a nonattainment designation for Orange, Putnam and Dutchess Counties as a separate area from the New York City nonattainment area. In a letter to the Commissioner dated December 3, 2003, EPA modified the State's recommendation and included the counties with the NYC designated area. In response, the State submitted additional information on the matter. EPA has reviewed the information and is changing its decision. EPA is designating the counties of Dutchess, Orange and Putnam along the lines of the 1-hour ozone nonattainment area as the Poughkeepsie nonattainment area separate from the NYC nonattainment area.</p> <p>In its submittal, New York provides an 11 factor analysis that shows there is a major difference between the counties in the Mid-Hudson Region and the rest of the New York City (NYC) C/MSA. There is a sharp decrease in population density, VOC and NOx emission density compared to nearby counties in the C/MSA. Population density is 1/4 of the nearby C/MSA, VOC density 1/3 of the nearby C/MSA, NOx density is 3/5 of the nearby counties and emissions are 1/6 of the NYC core counties. Two-thirds of workers living in these counties work in the Mid-Hudson region. One-quarter commute into the rest of the NYC C/MSA. NY includes a trajectory analysis showing that the counties may not be affected by the NYC area. The information is located in the docket for this action. Dutchess County is included in the separate 1-hour nonattainment area and in a transportation planning area along with Orange and Putnam Counties. The design value for these counties results in the same classification as NYC and surrounding areas.</p>		
2000 Population: 95,745	VOC (tpy): 4,632	%drive to work: 91 New York--Northern New Je
1990-2000 growth: 14.1%	NOx (tpy): 3,332	Wind direction: Downwind / crosswind of NYC area upwind of Mass.
2000-2010 growth: 8.4%	1999 Veh. mi. travelled (mln): 745	Topographical features: Hudson Highlands

Queens County, New York

2004 Designation: Nonattainment		County design value: 85
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
<p>Justification: Queens County is in the NYC C/MSA. NY requested a nonattainment designation. EPA agrees with the State's recommendation and is designating Queens County as nonattainment as part of the New York-N. New Jersey-Long Island nonattainment area.</p>		
2000 Population: 2,229,379	VOC (tpy): 53,171	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 14.2%	NOx (tpy): 60,330	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 9,924	Topographical features: not considered

Rensselaer County, New York

2004 Designation: Nonattainment		County design value: N/A
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Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: Albany-Schenectady-Troy, NY		
Justification: The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the MSA, including Rensselaer County, as nonattainment.		
2000 Population: 152,538	VOC (tpy): 8,284	%drive to work: 0
1990-2000 growth: -1.2%	NOx (tpy): 6,770	Wind direction: not considered
2000-2010 growth: -3.0%	1999 Veh. mi. travelled (mln): 1,617	Topographical features: not considered

Richmond County, New York

2004 Designation: Nonattainment		County design value: 94
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Richmond County is in the NYC C/MSA. NY requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as nonattainment in the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 443,728	VOC (tpy): 16,358	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 17.1%	NOx (tpy): 9,160	Wind direction: not considered
2000-2010 growth: 14.0%	1999 Veh. mi. travelled (mln): 1,929	Topographical features: not considered

Rockland County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Rockland County is in the NYC C/MSA. NY requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as nonattainment in the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 286,753	VOC (tpy): 10,051	%drive to work: 98 New York--Northern New Je
1990-2000 growth: 8.0%	NOx (tpy): 14,266	Wind direction: not considered
2000-2010 growth: 1.7%	1999 Veh. mi. travelled (mln): 1,343	Topographical features: not considered

St. Lawrence County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification: Nearby monitors are attainment. Not in a violating MSA.		
2000 Population: 111,931	VOC (tpy): 6,694	%drive to work: 0 Syracuse, NY MSA
1990-2000 growth: -0.0%	NOx (tpy): 5,367	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 908	Topographical features: not considered

Saratoga County, New York

2004 Designation: Nonattainment		County design value: 87
Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: Albany-Schenectady-Troy, NY		
Justification: The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the MSA, including Saratoga County, as nonattainment.		
2000 Population: 200,635	VOC (tpy): 10,179	%drive to work:
1990-2000 growth: 10.7%	NOx (tpy): 8,606	Wind direction: not considered
2000-2010 growth: 6.3%	1999 Veh. mi. travelled (mln): 1,947	Topographical features: not considered

Schenectady County, New York

2004 Designation: Nonattainment		County design value: 81
Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: Albany-Schenectady-Troy, NY		
Justification: The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the MSA, including Schenectady, as nonattainment.		
2000 Population: 146,555	VOC (tpy): 8,175	%drive to work:
1990-2000 growth: -1.8%	NOx (tpy): 6,947	Wind direction: not considered
2000-2010 growth: -4.4%	1999 Veh. mi. travelled (mln): 1,622	Topographical features: not considered

Schoharie County, New York

2004 Designation: Nonattainment		County design value: N/A
Area: Albany-Schenectady-Troy, NY		
MSA or CMSA: Albany-Schenectady-Troy, NY		
Justification: The Albany area did not violate the standard based on ozone data for the period 2000-2002. Based on that data, the State recommended the area as attainment. However, ozone data for the period 2001-2003 show that the area is in violation of the standard at two locations. Air quality designations are based on the most recent 3-years of data. Therefore, EPA is designating the MSA,		

including Schoharie County, as nonattainment.		
2000 Population: 31,582	VOC (tpy): 2,299	%drive to work:
1990-2000 growth: -0.9%	NOx (tpy): 1,927	Wind direction: not considered
2000-2010 growth: -3.0%	1999 Veh. mi. travelled (mln): 379	Topographical features: not considered

Seneca County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Not in a violating MSA.		
Nearby monitors are attainment.		
2000 Population: 33,342	VOC (tpy): 2,888	%drive to work: 6 Syracuse, NY MSA
1990-2000 growth: -1.0%	NOx (tpy): 1,908	Wind direction: not considered
2000-2010 growth: -3.7%	1999 Veh. mi. travelled (mln): 364	Topographical features: not considered

Suffolk County, New York

2004 Designation: Nonattainment		County design value: 100
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Suffolk County is in the NYC C/MSA. NY requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as nonattainment in the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 1,419,369	VOC (tpy): 65,921	%drive to work: 99 New York--Northern New Je
1990-2000 growth: 7.4%	NOx (tpy): 42,185	Wind direction: not considered
2000-2010 growth: 2.6%	1999 Veh. mi. travelled (mln): 7,094	Topographical features: not considered

Sullivan County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Sullivan County does not have a violating monitor. It is not located in a presumed nonattainment area. EPA has evaluated data for the county and concludes that it is not contributing to a violation in a nearby area. EPA is designating Sullivan County as attainment/unclassifiable.		
2000 Population: 73,966	VOC (tpy): 5,037	%drive to work: 27 New York--Northern New Je
1990-2000 growth: 6.8%	NOx (tpy): 3,056	Wind direction: not considered
2000-2010 growth: 7.5%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

Tompkins County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Tompkins County does not have a violating monitor. It is not located in a presumed nonattainment area. EPA has evaluated data for the county and concludes that it is not contributing to a violation in a nearby area. EPA is designating Tompkins county as attainment.		
2000 Population: 96,501	VOC (tpy): 4,780	%drive to work: 1 Syracuse, NY MSA
1990-2000 growth: 2.5%	NOx (tpy): 7,436	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 748	Topographical features: not considered

Ulster County, New York

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Ulster county has a monitor that shows attainment of the standard. It is not located in a presumptive nonattainment area. EPA has evaluated data for the county and concludes that it is not contributing to a violation in a nearby area. EPA is designating the Ulster County as attainment.		
2000 Population: 177,749	VOC (tpy): 10,260	%drive to work: 29 New York--Northern New Je
1990-2000 growth: 7.5%	NOx (tpy): 8,946	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 1,799	Topographical features: not considered

Wayne County, New York

2004 Designation: Nonattainment		County design value: 88
Area: Rochester, NY		
MSA or CMSA: Rochester, NY		
Justification: Wayne County is located in the Rochester MSA. There are two monitors in the MSA that are violating the standard. They are located in Monroe and Wayne Counties. Trajectories based on violations occurring in Jefferson County in 2002 pass through the MSA about half the time. Therefore, Rochester is also a contributor to violating air quality in Jefferson County. Based on these facts, EPA is designating the MSA as nonattainment.		
Monitor siting issue - NY plans to relocate the monitor in downtown Rochester to another site because it is obstructed by trees. EPA has examined the ozone data and concludes that data collected at the monitor are valid. Ozone values without the presence of the trees would be higher. Data collected at the downwind monitor also are violating the standard. The downwind monitor is not located in the area of highest ozone downwind of Rochester. Therefore, actual peak ozone values in the Rochester area are likely to be higher. NY sited a new downwind monitor that recorded more violations in 2003		

than the present downwind site. The data collected at this monitor support a nonattainment designation but there are not yet three years of ozone data collected at the site for use in the designation.

2000 Population: 93,765	VOC (tpy): 10,812	%drive to work: 96 Rochester, NY MSA
1990-2000 growth: 5.2%	NOx (tpy): 5,811	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 895	Topographical features: not considered

Westchester County, New York

2004 Designation: Nonattainment		County design value: 94
Area: New York-N. New Jersey-Long Island, NY-NJ-CT		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: Westchester County is in the NYC C/MSA. NY requested a nonattainment designation. EPA agrees with the State's recommendation and is designating this county as nonattainment in the New York-N. New Jersey-Long Island nonattainment area.		
2000 Population: 923,459	VOC (tpy): 33,788	%drive to work: 95 New York--Northern New Je
1990-2000 growth: 5.5%	NOx (tpy): 21,082	Wind direction: not considered
2000-2010 growth: 0.4%	1999 Veh. mi. travelled (mln): 4,274	Topographical features: not considered

Wyoming County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Wyoming County does not have a violating monitor. It is not located in a C/MSA presumed nonattainment areas. EPA has evaluated data for the county and concludes that it is not contributing to a violation in a nearby area. The county is downwind of Buffalo but is not linked to the Buffalo area. EPA is designating Wyoming county as attainment/unclassifiable.		
2000 Population: 43,424	VOC (tpy): 2,674	%drive to work: 20 Buffalo--Niagara Falls, N
1990-2000 growth: 2.1%	NOx (tpy): 2,401	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 358	Topographical features: not considered

Yates County, New York

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Yates County does not have a violating monitor. It is not located in a presumptive nonattainment area. EPA has evaluated data for the county and concludes that it is not contributing to a violation in a nearby area. EPA is designating Yates County as attainment/unclassifiable.		
2000 Population: 24,621	VOC (tpy): 2,298	%drive to work: 31 Rochester, NY

		MSA
1990-2000 growth: 7.9%	NOx (tpy): 3,574	Wind direction: not considered
2000-2010 growth: 6.6%	1999 Veh. mi. travelled (mln): 219	Topographical features: not considered

Alamance County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: EPA agrees with state recommendation and is designating Alamance County as part of the Greensboro nonattainment area. The effective date for the Greensboro nonattainment designation is being deferred because the counties are participating in an Early Action Compact.		
2000 Population: 130,800	VOC (tpy): 9,154	%drive to work: 86 Greensboro--Winston-Salem
1990-2000 growth: 20.9%	NOx (tpy): 5,880	Wind direction: not considered
2000-2010 growth: 18.9%	1999 Veh. mi. travelled (mln): 1,499	Topographical features: not considered

Alexander County, North Carolina

2004 Designation: Nonattainment		County design value: 88
Area: Hickory-Morganton-Lenoir, NC		
MSA or CMSA: Hickory-Morganton-Lenoir, NC		
Justification: Alexander county has a violating monitor and is being designated as part of the Hickory nonattainment area. The effective date of the nonattainment designation for this area will be deferred because the counties are participating in an early action compact.		
2000 Population: 33,603	VOC (tpy): 3,147	%drive to work: 86 Hickory--Morganton--Lenoir
1990-2000 growth: 22.0%	NOx (tpy): 1,028	Wind direction: not considered
2000-2010 growth: 18.8%	1999 Veh. mi. travelled (mln): 217	Topographical features: not considered

Anson County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 25,275	VOC (tpy): 3,453	%drive to work: 27 Charlotte--Gastonia--Rock
1990-2000 growth: 7.7%	NOx (tpy): 1,786	Wind direction: not considered
2000-2010 growth:	1999 Veh. mi. travelled (mln):	

6.3%	207	Topographical features: not considered
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Avery County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 17,167	VOC (tpy): 973	%drive to work: 2 Hickory--Morganton--Lenoir
1990-2000 growth: 15.5%	NOx (tpy): 755	Wind direction: not considered
2000-2010 growth: 10.3%	1999 Veh. mi. travelled (mln): 153	Topographical features: not considered

Bladen County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 32,278	VOC (tpy): 2,770	%drive to work: 8 Fayetteville, NC MSA
1990-2000 growth: 12.6%	NOx (tpy): 1,835	Wind direction: not considered
2000-2010 growth: 11.6%	1999 Veh. mi. travelled (mln): 199	Topographical features: not considered

Buncombe County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: Asheville, NC		
Justification: Blue Ridge, Black and Great Craggy Mountain Range, NC—Buncombe, McDowell and Yancey Counties		
<p>In its original recommendation dated July 15 2003, the State requested these high-elevation areas (above 4000 feet) be designated nonattainment based on monitoring data from 2000-2002 at sites in Buncombe County and Yancey County. However, the most recent (quality-assured) monitoring data for the period 2001-2003 show that these areas are not violating the 8-hour ozone standard. (The Buncombe County and Yancey County monitors are both measuring attainment. There is no monitor located in McDowell County). In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, the entirety of Buncombe, McDowell and Yancey Counties located in the Blue Ridge, Black and Great Craggy Mountain Range are designated unclassifiable/attainment.</p>		
2000 Population: 206,330	VOC (tpy): 15,500	%drive to work: 90 Asheville, NC MSA

1990-2000 growth: 18.0%	NOx (tpy): 18,083	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 2,932	Topographical features: not considered

Buncombe County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: Asheville, NC		
Justification: See response letter to State recommendations for justification.		
2000 Population: 206,330	VOC (tpy): 15,500	%drive to work: 90 Asheville, NC MSA
1990-2000 growth: 18.0%	NOx (tpy): 18,083	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 2,932	Topographical features: not considered

Burke County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Hickory-Morganton-Lenoir, NC		
MSA or CMSA: Hickory-Morganton-Lenoir, NC		
Justification: EPA agrees with the State's recommendation to designate a portion of this county as part of the Hickory nonattainment area. We believe the 11 factors indicate that the remaining portions of the county do not contribute to a violation in a nearby area because that portion of the county contains few emission sources. The county does not have a monitor. The effective date of the nonattainment designation for the Hickory area will be deferred because that area is participating in an early action compact.		
2000 Population: 89,148	VOC (tpy): 7,864	%drive to work: 95 Hickory--Morganton--Lenoir
1990-2000 growth: 17.7%	NOx (tpy): 4,825	Wind direction: not considered
2000-2010 growth: 14.5%	1999 Veh. mi. travelled (mln): 1,061	Topographical features: not considered

Cabarrus County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: EPA is designating Cabarrus County as part of the Charlotte nonattainment area. We believe the county, as a whole, contributes to violations in a nearby area.		
2000 Population: 131,063	VOC (tpy): 8,472	%drive to work: 96 Charlotte--Gastonia--Rock
1990-2000 growth: 32.5%	NOx (tpy): 7,014	Wind direction: not considered

2000-2010 growth: 28.0%	1999 Veh. mi. travelled (mln): 1,404	Topographical features: not considered
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Caldwell County, North Carolina

2004 Designation: Nonattainment		County design value: 84
Area: Hickory-Morganton-Lenoir, NC		
MSA or CMSA: Hickory-Morganton-Lenoir, NC		
Justification: Caldwell county has a monitor which is showing attainment. However part of the county is urbanized enough to contribute to nonattainment in a nearby area. Consistent with the State's recommendation, EPA is including that portion of the county as part of the Hickory nonattainment area. The effective date of the nonattainment designation for the Hickory area will be deferred since that area is participating in an early action compact.		
2000 Population: 77,415	VOC (tpy): 11,743	%drive to work: 97 Hickory--Morganton--Lenoir
1990-2000 growth: 9.5%	NOx (tpy): 3,610	Wind direction: not considered
2000-2010 growth: 7.4%	1999 Veh. mi. travelled (mln): 701	Topographical features: not considered

Camden County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 6,885	VOC (tpy): 1,036	%drive to work: 28 Norfolk--Virginia Beach--
1990-2000 growth: 16.6%	NOx (tpy): 393	Wind direction: not considered
2000-2010 growth: 15.1%	1999 Veh. mi. travelled (mln): 66	Topographical features: not considered

Caswell County, North Carolina

2004 Designation: Nonattainment		County design value: 88
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: - outside -		
Justification: We are designating Caswell County as part of the Greensboro nonattainment area. We are including the entire county, which has a monitor showing nonattainment. The effective date of the nonattainment designation for the Greensboro nonattainment area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 23,501	VOC (tpy): 1,619	%drive to work: 33 Greensboro--Winston-Salem
1990-2000 growth: 13.6%	NOx (tpy): 1,103	Wind direction: not considered
2000-2010 growth: 12.2%	1999 Veh. mi. travelled	Topographical features: not considered

(mln): 216

Catawba County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Hickory-Morganton-Lenoir, NC		
MSA or CMSA: Hickory-Morganton-Lenoir, NC		
Justification: Catawba County has no monitor, but it is between two counties which have violating monitors. Therefore, EPA is designating the entire county, rather than only a partial county as the State recommended, as part of the Hickory nonattainment area. The effective date of the nonattainment designation for the Hickory area will be deferred because the area is participating in an early action compact.		
2000 Population: 141,685	VOC (tpy): 19,962	%drive to work: 90 Hickory--Morganton--Lenoir
1990-2000 growth: 19.6%	NOx (tpy): 34,840	Wind direction: not considered
2000-2010 growth: 17.1%	1999 Veh. mi. travelled (mln): 1,956	Topographical features: not considered

Chatham County, North Carolina

2004 Designation: Nonattainment		County design value: 82
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: Raleigh-Durham-Chapel Hill, NC		
Justification: EPA agrees with the State's recommendation to designate only a portion of Chatham County as part of the Raleigh nonattainment area. There is no violating monitor in the county.		
2000 Population: 49,329	VOC (tpy): 4,734	%drive to work: 84 Raleigh--Durham--Chapel H
1990-2000 growth: 27.3%	NOx (tpy): 8,171	Wind direction: not considered
2000-2010 growth: 21.8%	1999 Veh. mi. travelled (mln): 408	Topographical features: not considered

Cleveland County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 96,287	VOC (tpy): 6,665	%drive to work: 24 Charlotte--Gastonia--Rock
1990-2000 growth: 13.7%	NOx (tpy): 5,235	Wind direction: not considered
2000-2010 growth: 10.8%	1999 Veh. mi. travelled (mln): 1,068	Topographical features: not considered

Cumberland County, North Carolina

2004 Designation: Nonattainment		County design value: 87
Area: Fayetteville, NC		
MSA or CMSA: Fayetteville, NC		
Justification: EPA agrees with State's recommendation to designate Cumberland County as part of the Fayetteville nonattainment area. Cumberland County has a monitor showing nonattainment. The effective date of the nonattainment designation for the Fayetteville area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 302,963	VOC (tpy): 18,907	%drive to work: 91 Fayetteville, NC MSA
1990-2000 growth: 10.3%	NOx (tpy): 12,844	Wind direction: not considered
2000-2010 growth: 10.5%	1999 Veh. mi. travelled (mln): 3,086	Topographical features: not considered

Currituck County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
Justification:		
2000 Population: 18,190	VOC (tpy): 2,519	%drive to work: 72 Norfolk--Virginia Beach--
1990-2000 growth: 32.4%	NOx (tpy): 763	Wind direction: not considered
2000-2010 growth: 25.0%	1999 Veh. mi. travelled (mln): 128	Topographical features: not considered

Davidson County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: EPA agrees with state recommendation to designate Davidson County as part of the Greensboro nonattainment area. The effective date of the nonattainment designation for the Greensboro area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 147,246	VOC (tpy): 15,209	%drive to work: 96 Greensboro--Winston-Salem
1990-2000 growth: 16.2%	NOx (tpy): 11,756	Wind direction: not considered
2000-2010 growth: 13.6%	1999 Veh. mi. travelled (mln): 1,669	Topographical features: not considered

Davie County, North Carolina

2004 Designation: Nonattainment		County design value: 93
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Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: We are designating Davie County as part of the Greensboro nonattainment area. The entire county is included in the nonattainment area. Davie County has a monitor showing nonattainment. The effective date of the nonattainment designation for Greensboro County will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 34,835	VOC (tpy): 3,265	%drive to work: 86 Greensboro--Winston-Salem
1990-2000 growth: 25.0%	NOx (tpy): 2,123	Wind direction: not considered
2000-2010 growth: 20.8%	1999 Veh. mi. travelled (mln): 455	Topographical features: not considered

Durham County, North Carolina

2004 Designation: Nonattainment		County design value: 89
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: Raleigh-Durham-Chapel Hill, NC		
Justification: EPA agrees with State recommendation to include Durham County as part of the Raleigh-Raleigh-Durham-Chapel Hill, NC nonattainment area. Durham County has a monitor showing nonattainment.		
2000 Population: 223,314	VOC (tpy): 12,653	%drive to work: 96 Raleigh--Durham--Chapel H
1990-2000 growth: 22.8%	NOx (tpy): 10,607	Wind direction: not considered
2000-2010 growth: 15.6%	1999 Veh. mi. travelled (mln): 2,439	Topographical features: not considered

Edgecombe County, North Carolina

2004 Designation: Nonattainment		County design value: 89
Area: Rocky Mount, NC		
MSA or CMSA: Rocky Mount, NC		
Justification: This county has a violating monitor and is therefore designated nonattainment.		
2000 Population: 55,606	VOC (tpy): 4,783	%drive to work: 87 Rocky Mount, NC MSA
1990-2000 growth: -1.7%	NOx (tpy): 4,981	Wind direction: not considered
2000-2010 growth: -3.0%	1999 Veh. mi. travelled (mln): 534	Topographical features: not considered

Forsyth County, North Carolina

2004 Designation: Nonattainment		County design value: 93
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		

Justification: EPA agrees with the state's recommendation to designate Forsyth County as part of the Greensboro nonattainment area. Forsyth County has a monitor indicating nonattainment. The effective date of the nonattainment designation for Greensboro is being deferred because the area is participating in an Early Action Compact.

2000 Population: 306,067	VOC (tpy): 21,616	%drive to work: 97 Greensboro--Winston-Salem
1990-2000 growth: 15.1%	NOx (tpy): 15,563	Wind direction: not considered
2000-2010 growth: 13.7%	1999 Veh. mi. travelled (mln): 3,651	Topographical features: not considered

Franklin County, North Carolina

2004 Designation: Nonattainment		County design value: 90
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: Raleigh-Durham-Chapel Hill, NC		
Justification: We are designating Franklin County as part of the Raleigh nonattainment area. Franklin County has a monitor showing nonattainment, and we are including the whole county as part of the nonattainment area.		
2000 Population: 47,260	VOC (tpy): 3,081	%drive to work: 87 Raleigh--Durham--Chapel H
1990-2000 growth: 29.8%	NOx (tpy): 1,933	Wind direction: not considered
2000-2010 growth: 24.8%	1999 Veh. mi. travelled (mln): 412	Topographical features: not considered

Gaston County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: EPA agrees with State recommendation to include Gaston County as part of the Charlotte nonattainment area.		
2000 Population: 190,365	VOC (tpy): 15,405	%drive to work: 95 Charlotte--Gastonia--Rock
1990-2000 growth: 8.7%	NOx (tpy): 24,901	Wind direction: not considered
2000-2010 growth: 7.4%	1999 Veh. mi. travelled (mln): 2,253	Topographical features: not considered

Gates County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 10,516	VOC (tpy): 1,140	%drive to work: 36 Norfolk--Virginia

		Beach--
1990-2000 growth: 13.0%	NOx (tpy): 603	Wind direction: not considered
2000-2010 growth: 9.7%	1999 Veh. mi. travelled (mln): 98	Topographical features: not considered

Granville County, North Carolina

2004 Designation: Nonattainment		County design value: 94
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: - outside -		
Justification: We are designating Granville County as part of the Raleigh nonattainment area. The county has a monitor showing nonattainment and we are including the entire county as part of the nonattainment area.		
2000 Population: 48,498	VOC (tpy): 3,499	%drive to work: 37 Raleigh--Durham--Chapel H
1990-2000 growth: 26.5%	NOx (tpy): 3,215	Wind direction: not considered
2000-2010 growth: 20.3%	1999 Veh. mi. travelled (mln): 707	Topographical features: not considered

Guilford County, North Carolina

2004 Designation: Nonattainment		County design value: 89
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: EPA agrees with state recommendation to include Guilford County as part of the Greensboro nonattainment area. The County has a monitor showing nonattainment. The effective date for the Greensboro nonattainment designation will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 421,048	VOC (tpy): 35,295	%drive to work: 97 Greensboro--Winston-Salem
1990-2000 growth: 21.2%	NOx (tpy): 20,509	Wind direction: not considered
2000-2010 growth: 18.5%	1999 Veh. mi. travelled (mln): 4,947	Topographical features: not considered

Halifax County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 57,370	VOC (tpy): 9,473	%drive to work: 14 Rocky Mount, NC MSA
1990-2000 growth:	NOx (tpy): 8,489	Wind direction: not considered

3.3%		
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 820	Topographical features: not considered

Harnett County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 91,025	VOC (tpy): 5,029	%drive to work: 18 Fayetteville, NC MSA
1990-2000 growth: 34.2%	NOx (tpy): 4,472	Wind direction: not considered
2000-2010 growth: 28.7%	1999 Veh. mi. travelled (mln): 925	Topographical features: not considered

Haywood County, North Carolina

2004 Designation: Nonattainment		County design value: 85
Area: Haywood and Swain Cos. (Great Smoky NP), NC		
MSA or CMSA: - outside -		
<p>Justification: The North Carolina portion of the Great Smoky Mountain National Park, including portions of Haywood and Swain Counties, was recommended by the State, in its entirety, as nonattainment. This is due to the violations that occur at ozone monitors located at high elevations in the park. The park area is adjacent to an attaining urban area (Asheville, NC). The U.S. National Park Service supported this nonattainment boundary recommendation in a letter to the State of North Carolina on May 25, 2000, and, again, in a letter to the Environmental Protection Agency, Region 4, in February, 2004.</p> <p>The area within the Park represents the area observing 8-hour violations, and the nearby valley sites are attaining the standard. Additionally, the exceedances are occurring in the middle of the night, rather than in the afternoon. This timing of the exceedances is indicative of transport and not local generation of ozone, since the ozone chemistry stops once the sun goes down. Figure 1 (titled "Comparison of diurnal ozone profile for Purchase Knob (High Elevation Site), Bent Creek (Valley Site in Buncombe County), and one of the Charlotte area sites."), presented in chapter 6 of this technical support document, shows the difference in the timing of the ozone exceedances. The red line shows the ozone peak occurs at the Purchase Knob site in the nighttime, which is at the high elevation, when the valley or low elevation sites observe lower ozone levels. The areas where the violations are occurring are very sparsely populated and the emissions densities are low compared to urban areas of North Carolina. The trajectories of air parcels suggest most pollution is being transported to the mountain sites from Georgia, Tennessee, and the Ohio Valley. North Carolina will carefully analyze strategies expected to be implemented in these areas and work closely with these states to define any additional controls to reduce the pollution in the mountains. EPA agrees with the State and the National Parks Service that the entirety of the GSMNP, which includes portions of Haywood and Swain Counties, should be designated nonattainment.</p>		
2000 Population: 54,033	VOC (tpy): 5,719	%drive to work: 17 Asheville, NC MSA

1990-2000 growth: 15.1%	NOx (tpy): 8,766	Wind direction: not considered
2000-2010 growth: 11.7%	1999 Veh. mi. travelled (mln): 968	Topographical features: high elevation areas

Haywood County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 85
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This justification pertains to the portion of Haywood County above 4000 feet and in the Plott Balsam Mountain Range.		
<p>Haywood County has three monitors: one located in the Great Smoky Mountains National Park; a second monitor located in Waynesville, NC; and a third monitor located at the Town Blue Ridge Parkway (Marker 410). The State's original recommendation dated July 15, 2003 was that the portion of Haywood County located in the Plott Balsam Mountains that is above 4000 feet be designated nonattainment based on 2000-2002 monitoring data from the Town Blue Ridge Parkway monitor at Marker 410. However, EPA reviewed more recent air quality data based on 2001-2003 at that site, which shows this area is not violating the 8-hour ozone standard. In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, EPA is designating the portion of Haywood County located in the Plott Balsam Mountain Range as unclassifiable/attainment.</p>		
2000 Population: 54,033	VOC (tpy): 5,719	%drive to work: 17 Asheville, NC MSA
1990-2000 growth: 15.1%	NOx (tpy): 8,766	Wind direction: not considered
2000-2010 growth: 11.7%	1999 Veh. mi. travelled (mln): 968	Topographical features: high elevation area

Haywood County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 85
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This justification pertains to the Great Balsam Mountain Range, NC—portion of Haywood above 4000 feet and all of Jackson and Transylvania Counties.		
<p>Justification: Haywood County has three monitors: one located in the Great Smoky Mountains National Park; a second monitor located in Waynesville, NC; and a third monitor located at the Town Blue Ridge Parkway (Marker 410). In its original recommendation dated July 15, 2003, the State requested these high-elevation areas above 4000 feet in the Great Balsam Mountain be designated nonattainment based on monitoring data from 2000-2002 at the Waynesville monitor. However, the most recent (quality-assured) monitoring data from this site for the period 2001-2003 show that these areas above 4000 feet are not violating the 8-hour ozone standard. In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, the portion of Haywood County that is above 4000 feet and the entirety of Jackson and Transylvania Counties (all of Jackson and Transylvania Counties are above 4000 feet) that are located in the Great Balsam Mountain Range are designated unclassifiable/attainment.</p>		
2000 Population: 54,033	VOC (tpy): 5,719	%drive to work: 17 Asheville, NC

		MSA
1990-2000 growth: 15.1%	NOx (tpy): 8,766	Wind direction: not considered
2000-2010 growth: 11.7%	1999 Veh. mi. travelled (mln): 968	Topographical features: high elevation area

Henderson County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 89,173	VOC (tpy): 7,096	%drive to work: 2 Greenville--Spartanburg--
1990-2000 growth: 28.7%	NOx (tpy): 4,321	Wind direction: not considered
2000-2010 growth: 21.6%	1999 Veh. mi. travelled (mln): 954	Topographical features: not considered

Hoke County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 33,646	VOC (tpy): 5,413	%drive to work: 36 Fayetteville, NC MSA
1990-2000 growth: 47.2%	NOx (tpy): 1,913	Wind direction: not considered
2000-2010 growth: 38.2%	1999 Veh. mi. travelled (mln): 269	Topographical features: not considered

Iredell County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: - outside -		
Justification: The EPA agrees with the State's recommendation to include a part of Iredell County as part of the Charlotte-Gastonia-Rock Hill MSA nonattainment area. The remaining portion of Iredell County will be designated attainment/unclassifiable.		
2000 Population: 122,660	VOC (tpy): 16,454	%drive to work: 22 Charlotte--Gastonia--Rock
1990-2000 growth: 32.0%	NOx (tpy): 11,719	Wind direction: not considered
2000-2010 growth: 26.0%	1999 Veh. mi. travelled (mln): 1,817	Topographical features: not considered

Jackson County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This justification pertains to the Great Balsam Mountain Range, NC—portion of Haywood above 4000 feet and all of Jackson and Transylvania Counties		
Justification: Haywood County has three monitors: one located in the Great Smoky Mountains National Park; a second monitor located in Waynesville, NC; and a third monitor located at the Town Blue Ridge Parkway (Marker 410). In its original recommendation dated July 15, 2003, the State requested these high-elevation areas above 4000 feet in the Great Balsam Mountain be designated nonattainment based on monitoring data from 2000-2002 at the Waynesville monitor. However, the most recent (quality-assured) monitoring data from this site for the period 2001-2003 show that these areas above 4000 feet are not violating the 8-hour ozone standard. In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, the portion of Haywood County that is above 4000 feet and the entirety of Jackson and Transylvania Counties (all of Jackson and Transylvania Counties are above 4000 feet) that are located in the Great Balsam Mountain Range are designated unclassifiable/attainment.		
2000 Population: 33,121	VOC (tpy): 1,799	%drive to work: 2 Asheville, NC MSA
1990-2000 growth: 23.4%	NOx (tpy): 1,366	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 260	Topographical features: high elevation areas

Johnston County, North Carolina

2004 Designation: Nonattainment		County design value: 85
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: Raleigh-Durham-Chapel Hill, NC		
Justification: We are designating Johnston County as part of the Raleigh nonattainment area. The county has monitor showing nonattainment and we are including the whole county as part of the nonattainment area.		
2000 Population: 121,965	VOC (tpy): 8,617	%drive to work: 90 Raleigh--Durham--Chapel H
1990-2000 growth: 50.0%	NOx (tpy): 8,427	Wind direction: not considered
2000-2010 growth: 38.0%	1999 Veh. mi. travelled (mln): 1,760	Topographical features: not considered

Lee County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 49,040	VOC (tpy): 3,854	%drive to work: 18 Raleigh--Durham--Chapel H

1990-2000 growth: 18.5%	NOx (tpy): 2,539	Wind direction: not considered
2000-2010 growth: 17.6%	1999 Veh. mi. travelled (mln): 477	Topographical features: not considered

Lincoln County, North Carolina

2004 Designation: Nonattainment		County design value: 92
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: Lincoln County has a violating monitor and therefore is included in the rest of the Charlotte nonattainment area.		
2000 Population: 63,780	VOC (tpy): 4,423	%drive to work: 81 Charlotte--Gastonia--Rock
1990-2000 growth: 26.8%	NOx (tpy): 2,973	Wind direction: not considered
2000-2010 growth: 22.1%	1999 Veh. mi. travelled (mln): 558	Topographical features: not considered

McDowell County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Blue Ridge, Black and Great Craggy Mountain Range, NC—Buncombe, McDowell and Yancey Counties		
<p>In its original recommendation dated July 15 2003, the State requested these high-elevation areas (above 4000 feet) be designated nonattainment based on monitoring data from 2000-2002 at sites in Buncombe County and Yancey County. However, the most recent (quality-assured) monitoring data for the period 2001-2003 show that these areas are not violating the 8-hour ozone standard. (The Buncombe County and Yancey County monitors are both measuring attainment. There is no monitor located in McDowell County). In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, the entirety of Buncombe, McDowell and Yancey Counties located in the Blue Ridge, Black and Great Craggy Mountain Range are designated unclassifiable/attainment.</p>		
2000 Population: 42,151	VOC (tpy): 4,336	%drive to work: 9 Asheville, NC MSA
1990-2000 growth: 18.1%	NOx (tpy): 3,852	Wind direction: not considered
2000-2010 growth: 15.8%	1999 Veh. mi. travelled (mln): 681	Topographical features: not considered

Macon County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification:		
2000 Population: 29,811	VOC (tpy): 1,780	%drive to work: 1 Asheville, NC MSA
1990-2000 growth: 26.9%	NOx (tpy): 1,200	Wind direction: not considered
2000-2010 growth: 20.9%	1999 Veh. mi. travelled (mln): 254	Topographical features: not considered

Madison County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Asheville, NC		
Justification: See response letter to State recommendations for justification.		
2000 Population: 19,635	VOC (tpy): 936	%drive to work: 92 Asheville, NC MSA
1990-2000 growth: 15.8%	NOx (tpy): 962	Wind direction: not considered
2000-2010 growth: 12.9%	1999 Veh. mi. travelled (mln): 182	Topographical features: not considered

Martin County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 81
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 25,593	VOC (tpy): 3,604	%drive to work: 5 Rocky Mount, NC MSA
1990-2000 growth: 2.0%	NOx (tpy): 5,065	Wind direction: not considered
2000-2010 growth: 0.8%	1999 Veh. mi. travelled (mln): 245	Topographical features: not considered

Mecklenburg County, North Carolina

2004 Designation: Nonattainment		County design value: 98
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: EPA agrees with State recommendation to include Mecklenburg County as part of the Charlotte nonattainment area. The County has a monitor showing nonattainment.		
2000 Population: 695,454	VOC (tpy): 35,341	%drive to work: 97 Charlotte--Gastonia--Rock
1990-2000 growth: 36.0%	NOx (tpy): 30,404	Wind direction: not considered
2000-2010 growth: 29.3%	1999 Veh. mi. travelled (mln): 7,619	Topographical features: not considered

Mitchell County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,687	VOC (tpy): 1,992	%drive to work: 2 Asheville, NC MSA
1990-2000 growth: 8.7%	NOx (tpy): 1,260	Wind direction: not considered
2000-2010 growth: 5.6%	1999 Veh. mi. travelled (mln): 142	Topographical features: not considered

Montgomery County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 26,822	VOC (tpy): 4,160	%drive to work: 11 Greensboro--Winston-Salem
1990-2000 growth: 14.9%	NOx (tpy): 1,679	Wind direction: not considered
2000-2010 growth: 13.4%	1999 Veh. mi. travelled (mln): 262	Topographical features: not considered

Moore County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 74,769	VOC (tpy): 6,416	%drive to work: 3 Raleigh--Durham--Chapel H
1990-2000 growth: 26.7%	NOx (tpy): 3,336	Wind direction: not considered
2000-2010 growth: 20.2%	1999 Veh. mi. travelled (mln): 704	Topographical features: not considered

Nash County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Rocky Mount, NC		
MSA or CMSA: Rocky Mount, NC		
Justification: Although it has no monitor, Nash County is between two counties which have violating monitors, and Nash county contains the major population center in the MSA.		
2000 Population: 87,420	VOC (tpy): 8,372	%drive to work: 78 Rocky Mount, NC MSA

1990-2000 growth: 14.0%	NOx (tpy): 5,750	Wind direction: not considered
2000-2010 growth: 11.8%	1999 Veh. mi. travelled (mln): 1,158	Topographical features: not considered

Orange County, North Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: Raleigh-Durham-Chapel Hill, NC		
Justification: EPA agrees with state's recommendation to include Orange County as part of the Raleigh nonattainment area.		
2000 Population: 118,227	VOC (tpy): 6,878	%drive to work: 93 Raleigh--Durham--Chapel H
1990-2000 growth: 26.0%	NOx (tpy): 6,624	Wind direction: not considered
2000-2010 growth: 19.1%	1999 Veh. mi. travelled (mln): 1,423	Topographical features: not considered

Person County, North Carolina

2004 Designation: Nonattainment		County design value: 91
Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: - outside -		
Justification: Person County contains a violating monitor and has two large point sources of NOx, the Roxboro and Mayo Power plants. The State provided information related to the 11 factors, including that the large sources are installing SRC controls on all units to meet the NOx SIP Call and the Clean Smokestacks Legislation which will reduce their combined emissions. The County has low population and population density. However, there was not a compelling argument that the state's recommended partial boundary for Person County is the appropriate one for the nonattainment area. We are designating Person County as part of the Raleigh-Durham-Chapel Hill nonattainment area. The monitor in Person County is violating, and we are including the whole county as part of the nonattainment area.		
2000 Population: 35,623	VOC (tpy): 2,812	%drive to work: 32 Raleigh--Durham--Chapel H
1990-2000 growth: 18.0%	NOx (tpy): 50,425	Wind direction: not considered
2000-2010 growth: 14.8%	1999 Veh. mi. travelled (mln): 316	Topographical features: not considered

Pitt County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 82
Area: - attainment -		
MSA or CMSA: Greenville, NC		
Justification:		
2000 Population: 133,798	VOC (tpy): 8,062	%drive to work: 2 Rocky Mount, NC MSA

1990-2000 growth: 24.0%	NOx (tpy): 5,192	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 1,087	Topographical features: not considered

Polk County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 18,324	VOC (tpy): 1,179	%drive to work: 25 Greenville--Spartanburg--
1990-2000 growth: 27.1%	NOx (tpy): 1,403	Wind direction: not considered
2000-2010 growth: 20.1%	1999 Veh. mi. travelled (mln): 298	Topographical features: not considered

Randolph County, North Carolina

2004 Designation: Nonattainment		County design value: 85
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: We are designating Randolph County as part of the Greensboro nonattainment area. A monitor in the county shows nonattainment and we are including the whole county as part of the nonattainment area. The effective date of the nonattainment designation for Greensboro will be deferred because Greensboro is participating in an Early Action Compact.		
2000 Population: 130,454	VOC (tpy): 10,316	%drive to work: 95 Greensboro--Winston-Salem
1990-2000 growth: 22.4%	NOx (tpy): 6,168	Wind direction: not considered
2000-2010 growth: 19.7%	1999 Veh. mi. travelled (mln): 1,406	Topographical features: not considered

Robeson County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 123,339	VOC (tpy): 11,809	%drive to work: 8 Fayetteville, NC MSA
1990-2000 growth: 17.3%	NOx (tpy): 11,363	Wind direction: not considered
2000-2010 growth: 14.6%	1999 Veh. mi. travelled (mln): 1,522	Topographical features: not considered

Rockingham County, North Carolina

2004 Designation: Nonattainment		County design value: 91
Area: Greensboro-Winston-Salem-High Point, NC		
MSA or CMSA: - outside -		
Justification: Rockingham County is being designated as part of the Greensboro nonattainment area. The effective date of the nonattainment designation for Greensboro will be deferred because it is participating in an Early Action Compact.		
2000 Population: 91,928	VOC (tpy): 12,737	%drive to work: 34 Greensboro--Winston-Salem
1990-2000 growth: 6.8%	NOx (tpy): 13,086	Wind direction: not considered
2000-2010 growth: 5.6%	1999 Veh. mi. travelled (mln): 872	Topographical features: not considered

Rowan County, North Carolina

2004 Designation: Nonattainment		County design value: 100
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: We are designating Rowan County as part of the Charlotte nonattainment area. There is a monitor showing nonattainment in the county and we are including the entire county in the nonattainment area.		
2000 Population: 130,340	VOC (tpy): 11,295	%drive to work: 90 Charlotte--Gastonia--Rock
1990-2000 growth: 17.8%	NOx (tpy): 12,246	Wind direction: not considered
2000-2010 growth: 16.2%	1999 Veh. mi. travelled (mln): 1,555	Topographical features: not considered

Rutherford County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 62,899	VOC (tpy): 4,951	%drive to work: 1 Hickory--Morganton--Lenoir
1990-2000 growth: 10.5%	NOx (tpy): 11,676	Wind direction: not considered
2000-2010 growth: 8.7%	1999 Veh. mi. travelled (mln): 573	Topographical features: not considered

Sampson County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification:		
2000 Population: 60,161	VOC (tpy): 5,092	%drive to work: 9 Fayetteville, NC MSA
1990-2000 growth: 27.2%	NOx (tpy): 3,751	Wind direction: not considered
2000-2010 growth: 24.0%	1999 Veh. mi. travelled (mln): 765	Topographical features: not considered

Stanly County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 58,100	VOC (tpy): 4,561	%drive to work: 27 Charlotte--Gastonia--Rock
1990-2000 growth: 12.2%	NOx (tpy): 2,974	Wind direction: not considered
2000-2010 growth: 10.9%	1999 Veh. mi. travelled (mln): 526	Topographical features: not considered

Stokes County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: Stokes County does not have a monitor. While the county does have a power plant, the facility is well controlled with SCR. Population and VOC emissions are relatively small. This county is not considered to be contributing to nonattainment in the Greensboro-Winston Salem-High Point MSA. We are designating Stokes County as attainment/unclassifiable.		
2000 Population: 44,711	VOC (tpy): 2,575	%drive to work: 86 Greensboro--Winston-Salem
1990-2000 growth: 20.1%	NOx (tpy): 70,054	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 390	Topographical features: not considered

Surry County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 71,219	VOC (tpy): 7,554	%drive to work: 20 Greensboro--Winston-Salem

1990-2000 growth: 15.4%	NOx (tpy): 5,264	Wind direction: not considered
2000-2010 growth: 13.0%	1999 Veh. mi. travelled (mln): 1,083	Topographical features: not considered

Swain County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 74
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: The North Carolina portion of the Great Smoky Mountain National Park, including portions of Haywood and Swain Counties, was recommended by the State, in its entirety, as nonattainment. This is due to the violations that occur at ozone monitors located at high elevations in the park. The Park area is adjacent to an attaining urban area (Asheville, NC). The U.S. National Park Service supported this nonattainment boundary recommendation in a letter to the State of North Carolina on May 25, 2000, and, again, in a letter to the Environmental Protection Agency, Region 4, in February 2004.</p> <p>The area within the Park represents the area observing 8-hour violations, and the nearby valley sites are attaining the standard. Additionally, the exceedances are occurring in the middle of the night, rather than in the afternoon. This timing of the exceedances is indicative of transport and not local generation of ozone, since the ozone chemistry stops once the sun goes down. Figure 1 (titled "Comparison of diurnal ozone profile for Purchase Knob (High Elevation Site), Bent Creek (Valley Site in Buncombe County), and one of the Charlotte area sites."), presented in chapter 6 of this technical support document, shows the difference in the timing of the ozone exceedances. The red line shows the ozone peak occurs at the Purchase Knob site in the nighttime, which is at the high elevation, when the valley or low elevation sites observe lower ozone levels. The areas where the violations are occurring are very sparsely populated and the emissions densities are low compared to urban areas of North Carolina. The trajectories of air parcels suggest most pollution is being transported to the mountain sites from Georgia, Tennessee, and the Ohio Valley. North Carolina will carefully analyze strategies expected to be implemented in these areas and work closely with these states to define any additional controls to reduce the pollution in the mountains. EPA agrees with the State and the National Parks Service that the entirety of the GSMNP, which includes portions of Haywood and Swain Counties, should be designated nonattainment.</p>		
2000 Population: 12,968	VOC (tpy): 1,132	%drive to work: 1 Asheville, NC MSA
1990-2000 growth: 15.1%	NOx (tpy): 567	Wind direction: not considered
2000-2010 growth: 13.1%	1999 Veh. mi. travelled (mln): 119	Topographical features: high elevation areas

Transylvania County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: This justification pertains to the Great Balsam Mountain Range, NC—portion of Haywood above 4000 feet and all of Jackson and Transylvania Counties</p> <p>Justification: Haywood County has three monitors: one located in the Great Smoky Mountains</p>		

National Park; a second monitor located in Waynesville, NC; and a third monitor located at the Town Blue Ridge Parkway (Marker 410). In its original recommendation dated July 15, 2003, the State requested these high-elevation areas above 4000 feet in the Great Balsam Mountain be designated nonattainment based on monitoring data from 2000-2002 at the Waynesville monitor. However, the most recent (quality-assured) monitoring data from this site for the period 2001-2003 show that these areas above 4000 feet are not violating the 8-hour ozone standard. In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, the portion of Haywood County that is above 4000 feet and the entirety of Jackson and Transylvania Counties (all of Jackson and Transylvania Counties are above 4000 feet) that are located in the Great Balsam Mountain Range are designated unclassifiable/attainment.

2000 Population: 29,334	VOC (tpy): 3,262	%drive to work: 1 Greenville--Spartanburg--
1990-2000 growth: 14.9%	NOx (tpy): 2,849	Wind direction: not considered
2000-2010 growth: 10.7%	1999 Veh. mi. travelled (mln): 211	Topographical features: high elevation

Union County, North Carolina

2004 Designation: Nonattainment	County design value: 88	
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: We are designating Union County as part of the Charlotte nonattainment area. There is a monitor showing nonattainment in the County and we are including the entire County as part of the nonattainment area.		
2000 Population: 123,677	VOC (tpy): 7,998	%drive to work: 96 Charlotte--Gastonia--Rock
1990-2000 growth: 46.9%	NOx (tpy): 5,120	Wind direction: not considered
2000-2010 growth: 35.7%	1999 Veh. mi. travelled (mln): 1,049	Topographical features: not considered

Vance County, North Carolina

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 42,954	VOC (tpy): 3,838	%drive to work: 12 Raleigh--Durham--Chapel H
1990-2000 growth: 10.4%	NOx (tpy): 3,087	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 584	Topographical features: not considered

Wake County, North Carolina

2004 Designation: Nonattainment	County design value: 92	
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Area: Raleigh-Durham-Chapel Hill, NC		
MSA or CMSA: Raleigh-Durham-Chapel Hill, NC		
Justification: EPA agrees with state recommendation to include Wake County as part of the Raleigh nonattainment area. The County has a monitor showing nonattainment.		
2000 Population: 627,846	VOC (tpy): 31,534	%drive to work: 96 Raleigh--Durham--Chapel H
1990-2000 growth: 48.3%	NOx (tpy): 26,992	Wind direction: not considered
2000-2010 growth: 36.5%	1999 Veh. mi. travelled (mln): 6,763	Topographical features: not considered

Warren County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 19,972	VOC (tpy): 4,905	%drive to work: 10 Raleigh--Durham--Chapel H
1990-2000 growth: 15.7%	NOx (tpy): 1,996	Wind direction: not considered
2000-2010 growth: 12.6%	1999 Veh. mi. travelled (mln): 282	Topographical features: not considered

Watauga County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 42,695	VOC (tpy): 2,367	%drive to work: 3 Hickory--Morganton--Lenoir
1990-2000 growth: 15.5%	NOx (tpy): 1,587	Wind direction: not considered
2000-2010 growth: 9.8%	1999 Veh. mi. travelled (mln): 382	Topographical features: not considered

Wayne County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Goldsboro, NC		
Justification:		
2000 Population:	VOC (tpy): 9,030	%drive to work: 7 Raleigh--Durham--

113,329		Chapel H
1990-2000 growth: 8.3%	NOx (tpy): 10,306	Wind direction: not considered
2000-2010 growth: 7.7%	1999 Veh. mi. travelled (mln): 1,119	Topographical features: not considered

Wilkes County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 65,632	VOC (tpy): 5,249	%drive to work: 4 Hickory--Morganton--Lenoir
1990-2000 growth: 10.5%	NOx (tpy): 2,963	Wind direction: not considered
2000-2010 growth: 9.1%	1999 Veh. mi. travelled (mln): 582	Topographical features: not considered

Wilson County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 73,814	VOC (tpy): 7,445	%drive to work: 9 Rocky Mount, NC MSA
1990-2000 growth: 11.7%	NOx (tpy): 5,051	Wind direction: not considered
2000-2010 growth: 10.5%	1999 Veh. mi. travelled (mln): 951	Topographical features: not considered

Yadkin County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Greensboro-Winston Salem-High Point, NC		
Justification: EPA agrees with the State's recommendation since this a relatively rural county with small population and small emissions.		
2000 Population: 36,348	VOC (tpy): 2,283	%drive to work: 82 Greensboro--Winston-Salem
1990-2000 growth: 19.2%	NOx (tpy): 2,207	Wind direction: not considered
2000-2010 growth: 17.7%	1999 Veh. mi. travelled (mln): 493	Topographical features: not considered

Yancey County, North Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Blue Ridge, Black and Great Craggy Mountain Range, NC—Buncombe, McDowell and Yancey Counties		
<p>In its original recommendation dated July 15 2003, the State requested these high-elevation areas (above 4000 feet) be designated nonattainment based on monitoring data from 2000-2002 at sites in Buncombe County and Yancey County. However, the most recent (quality-assured) monitoring data for the period 2001-2003 show that these areas are not violating the 8-hour ozone standard. (The Buncombe County and Yancey County monitors are both measuring attainment. There is no monitor located in McDowell County). In addition, we believe these areas are not contributing to any violation in a nearby area. Therefore, the entirety of Buncombe, McDowell and Yancey Counties located in the Blue Ridge, Black and Great Craggy Mountain Range are designated unclassifiable/attainment.</p>		
2000 Population: 17,774	VOC (tpy): 1,155	%drive to work: 11 Asheville, NC MSA
1990-2000 growth: 15.3%	NOx (tpy): 974	Wind direction: not considered
2000-2010 growth: 11.8%	1999 Veh. mi. travelled (mln): 163	Topographical features: not considered

Adams County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the EPA presumptive nonattainment area. While higher in terms of NOx emissions, the county is low for the remaining factors. Some reductions in NOx have occurred at the two power plants that make up the majority of the emissions. The Ohio EPA recommended attainment for this county and EPA agrees. Prevailing winds are from the south/southwest. Adams county is located east of the nonattainment area and does not contribute to the violations.		
2000 Population: 27,330	VOC (tpy): 1,582	%drive to work: 23 Cincinnati--Hamilton, OH-
1990-2000 growth: 7.7%	NOx (tpy): 67,854	Wind direction: not considered
2000-2010 growth: 15.0%	1999 Veh. mi. travelled (mln): 276	Topographical features: not considered

Allen County, Ohio

2004 Designation: Nonattainment		County design value: 89
Area: Lima, OH		
MSA or CMSA: Lima, OH		
Justification: County contains a monitor that is violating the standard. This county also contains the population center for the C/MSA. The Ohio EPA recommended nonattainment and EPA agrees.		
2000 Population: 108,473	VOC (tpy): 12,698	%drive to work: 88 Lima, OH MSA

1990-2000 growth: -1.2%	NOx (tpy): 10,090	Wind direction: not considered
2000-2010 growth: -1.9%	1999 Veh. mi. travelled (mln): 1,144	Topographical features: not considered

Ashland County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the EPA presumptive nonattainment area. The county is low in terms of the 11 factors for this area. The nonattainment area includes 178,852 ton VOC and 220,274 ton NOx. The Ohio EPA recommended attainment and EPA agrees.		
2000 Population: 52,523	VOC (tpy): 3,850	%drive to work: 8 Cleveland--Akron, OH C/MSA
1990-2000 growth: 10.6%	NOx (tpy): 3,649	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 578	Topographical features: not considered

Ashtabula County, Ohio

2004 Designation: Nonattainment		County design value: 99
Area: Cleveland-Akron-Lorain, OH		
MSA or CMSA: Cleveland-Akron, OH		
Justification: County contains a monitor that is violating the standard. The Ohio EPA recommended nonattainment and EPA agrees.		
2000 Population: 102,728	VOC (tpy): 11,387	%drive to work: 96 Cleveland--Akron, OH C/MSA
1990-2000 growth: 2.9%	NOx (tpy): 15,055	Wind direction: not considered
2000-2010 growth: 6.8%	1999 Veh. mi. travelled (mln): 1,078	Topographical features: not considered

Athens County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the EPA presumptive nonattainment area. This county is low for the 11 factors for this area. Ohio EPA recommended attainment and EPA agrees.		
2000 Population: 62,223	VOC (tpy): 2,517	%drive to work: 4 Parkersburg--Marietta, WV
1990-2000 growth: 4.5%	NOx (tpy): 3,341	Wind direction: not considered
2000-2010 growth: 0.6%	1999 Veh. mi. travelled (mln): 476	Topographical features: not considered

Auglaize County, Ohio

2004 Designation: Unclassifiable/Attainment	County design value: N/A
Area: - attainment -	
MSA or CMSA: Lima, OH	
<p>Justification: The Ohio EPA recommended attainment for this county.</p> <p>Technical Analysis:</p> <p>This is a summary of how the 11 factors are addressed for this county that is within the presumptive area.</p> <p>1) Emissions and Air Quality</p> <p>Auglaize County VOC and NOx emissions are less than 4,000 tons/year while Allen County has 12,500 and 14,600 tons per year of NOx and VOC. Auglaize county is 20-24% of the emission in the C/MSA, it is a small county in terms of mass emissions.</p> <p>1999 NEI emissions: Auglaize % of C/MSA</p> <p>VOC 3,115 20%</p> <p>NOX 3,224 24%</p> <p>2) Population Density and degree of Urbanization</p> <p>The population density is 116 people per square mile for Auglaize and 268 people per square mile for Allen.</p> <p>Auglaize county is over 95% wooded or agriculture. There are no significant urban areas in this county. Allen county is 84% wooded pr agriculture. Auglaize county's population is less than 50,000 while Allen is over 100,000. This is very small in terms of county population. The majority of the population is in Allen county.</p> <p>Auglaize % of C/MSA</p> <p>2000 population 46,611 30%</p> <p>3) Monitoring Data</p> <p>Allen County has a monitor that is violating the 8 hour standard. There is no monitor in Auglaize County.</p> <p>4) Location of Emissions Sources</p> <p>There are few point sources in Auglaize county. Source listings from 1999 NEI are available in the docket. This inventory shows that there are 0 VOC sources and 1 NOx source over 100 tons/year. Over one third of the VOC and over two thirds of the NOx are from mobile sources.</p>	

5) Traffic and Commuting Patterns

There are 12,000-13,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Auglaize County from 2000-2010 is expected to be 7.7%.

7) Meteorology

Ohio EPA indicated that Auglaize is located upwind (to the south) of Lima on summer ozone days and would not be expected to significantly contribute to the nonattainment problem, nor would Auglaize County be expected to be impacted by emissions from, nor should it be considered a receptor for, the Lima urban industrial area.

8) Geography - Ohio EPA did not rely on geography to support its recommendation.

9) Jurisdictional Boundaries - Ohio EPA did not rely on jurisdictional boundaries to support its recommendation.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. In our analysis of the 11 factors, we agree with Ohio EPA to designate Auglaize county as attainment. The majority of emissions and population is located within Allen county. Auglaize county is rural. It also contains a small amount of mass emissions.

2000 Population: 46,611	VOC (tpy): 3,115	%drive to work: 78 Lima, OH MSA
1990-2000 growth: 4.5%	NOx (tpy): 3,224	Wind direction: not considered
2000-2010 growth: 7.7%	1999 Veh. mi. travelled (mln): 454	Topographical features: not considered

Belmont County, Ohio

2004 Designation: Nonattainment	County design value: N/A
Area: Wheeling, WV-OH	
MSA or CMSA: Wheeling, WV-OH	
Justification: Ohio EPA recommended this county as attainment. It is within the presumptive area.	
Technical Analysis:	
This is a summary of how the 11 factors are addressed for this county that is within the presumptive area.	
1) Emissions	

Ohio EPA noted that Belmont county VOC emissions are 4,750 t/yr and NOx emissions are 14,342 tons per year. Ohio EPA also indicated that the MSA VOC and NOx emissions are 11,572 and 72,905 tons per year.

1999 NEI emissions: Belmont % of C/MSA

VOC 4,419 36%

NOX 11,314 16%

2) Population Density and degree of Urbanization

The population density of Belmont County is 131 people per square mile. Belmont county is over 95% wooded or agriculture. Belmont county's population is just over 70,000 while the MSA total is 153,172.

Belmont % of C/MSA

2000 population 70,226 46%

3) Monitoring Data

There are no monitors in Belmont county. There are violating monitors in Ohio and Marshall West Virginia.

4) Location of Emissions Sources

There are few significant point sources in Belmont county. Source listings from 1999 NEI are available in the docket. For NOx, there is one major source which is the R.E. Burger power plant (5,885 t/y). For VOC, there are no sources over 100 tons/year. The majority of the rest of the emissions are from highway mobile sources. The larger NOx sources are in West Virginia.

5) Traffic and Commuting Patterns

There are 11,000-12,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Belmont County from 2000-2010 is expected to be -10.4%. Ohio EPA indicated that the population in both Belmont and the MSA is decreasing (-3.8% 1990-2000).

7) Meteorology

Ohio EPA stated that Belmont county is located west of the Wheeling urban/industrial area. The area would not expect to be impacted by, nor should it be considered a receptor for, the Wheeling area.

8) Geography - Ohio EPA did not rely on geography to support its recommendation.

9) Jurisdictional Boundaries - Ohio EPA did not rely on jurisdictional boundaries to support its recommendation.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. In our analysis of the 11 factors we believe this county should be nonattainment.

2000 Population: 70,226	VOC (tpy): 4,419	%drive to work: 84 Wheeling, WV--OH MSA
1990-2000 growth: -1.2%	NOx (tpy): 11,314	Wind direction: not considered
2000-2010 growth: -10.4%	1999 Veh. mi. travelled (mln): 1,027	Topographical features: not considered

Brown County, Ohio

2004 Designation: Unclassifiable/Attainment	County design value: N/A
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Area: - attainment -

MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN

Justification: Brown County is a very small portion of the overall C/MSA in terms of population and emissions. The majority of emissions and population are located within the rest of the C/MSA. Brown county is rural, with a low population density, population and mass emissions.

Technical Analysis:

This is a summary of how the 11 factors are addressed for this county that is within the presumptive area.

1) Emissions

Ohio EPA noted that Brown county VOC and NOx emissions are less than 2,500 tons/year of each pollutant. C/MSA emissions of the remaining Ohio counties are over 90,000 tons per year VOC and over 150,000 tons per year NOx. Brown County is considered a small county in terms of the mass emissions and population as well as very small in terms of percentage of the overall C/MSA

1999 NEI emissions: Brown % of C/MSA

VOC 2,054

NOX 3,067

2) Population Density and degree of Urbanization

The population density of Brown County is 86 people per square mile. The majority of the population is in the central part of the C/MSA in Hamilton County. There are no large urbanized areas within Brown county. Brown county is over 97% wooded or agriculture. Brown county's population is less

than 45,000 while the total population for the C/MSA is 1,979,202.

Brown % of C/MSA

2000 population 40,770 2%

3) Monitoring Data

In the Ohio portion of the C/MSA, Hamilton, Clermont, Butler and Warren counties contain monitors that are violating the 8 hour standard. There is no monitor in Brown County.

4) Location of Emissions Sources

There are few significant sources in Brown county. Source listings from 1999 NEI are available in the docket. There are no major sources (100t/y) of VOC or NOx.

5) Traffic and Commuting Patterns

There are 11,000-12,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Brown County from 2000-2010 is expected to be 8.3%. Since the 2000 population is 40,770, this growth rate is not going to significantly increase the population in comparison to the population for the C/MSA.

7) Meteorology

Ohio EPA stated that the majority of Brown county is located south/southwest of the Cincinnati urban/industrial area which would not be expected to be significantly impacted by, nor should it be considered a receptor for, the Cincinnati area. Prevailing winds are from the south/southwest so Brown county is not expected to contribute to the monitors in the Cincinnati C/MSA.

8) Geography - Ohio EPA did not rely on geography to support its recommendation.

9) Jurisdictional Boundaries - The old 1 hour ozone boundary did not include Brown county.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. In our analysis of the 11 factors we agree with Ohio EPA to designate Brown county as attainment. Brown County is a very small portion of the overall C/MSA in terms of population and emissions. The majority of emissions and population are located within the rest of the C/MSA. Brown county is rural, with a low population density, population and mass emissions.

2000 Population: 42,285	VOC (tpy): 2,054	%drive to work: 89 Cincinnati-- Hamilton, OH-
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1990-2000 growth: 20.9%	NOx (tpy): 3,067	Wind direction: not considered
2000-2010 growth: 8.3%	1999 Veh. mi. travelled (mln): 408	Topographical features: not considered

Butler County, Ohio

2004 Designation: Nonattainment		County design value: 92
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: The Ohio EPA recommended this county as nonattainment. The EPA agrees. It contains a monitor that is violating the standard.		
2000 Population: 332,807	VOC (tpy): 14,386	%drive to work: 95 Cincinnati--Hamilton, OH-
1990-2000 growth: 14.2%	NOx (tpy): 19,643	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 2,464	Topographical features: not considered

Carroll County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Canton-Massillon, OH		
<p>Justification: The Ohio EPA recommended Carroll county as attainment. Although this county is within the presumptive area, EPA agrees that this county is small in terms of population and emissions for the C/MSA.</p> <p>Technical Analysis:</p> <p>This is a summary of how the 11 factors are addressed for this county that is within the presumptive area.</p> <p>1) Emissions and Air Quality</p> <p>Carroll County VOC and NOx emissions are less than 2000 tons/year while Stark County is over 20,000 tons/year of each pollutant. This is a small county in terms of mass emissions.</p> <p>1999 NEI emissions: Carroll % of C/MSA Stark</p> <p>VOC 1,435 6% 22,840</p> <p>NOX 1,963 11% 15,755</p> <p>2) Population Density and degree of Urbanization</p> <p>The population density is 73 people per square mile.</p>		

Carroll county is over 96% wooded or agriculture. There are no significant urban areas in this county. Carroll county's population is less than 30,000 while Stark is over 375,000. This is very small in terms of county population. The majority of the population is in Stark county.

Carroll % of C/MSA Stark

2000 population 27,400 7% 374,700

3) Monitoring Data

Stark County has a monitor that is violating the 8 hour standard. There is no monitor in Carroll County.

4) Location of Emissions Sources

There are few point sources in Carroll county. Source listings from 1999 NEI are available in the docket. This data indicates 1 source over 100 t/y of NOx and zero VOC sources of this size.

5) Traffic and Commuting Patterns

There are 7,000-8,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Carroll County from 2000-2010 is expected to be -1.9%. The population in the county is small with projected negative growth.

7) Meteorology

Ohio EPA indicated that Carroll County should be attainment due to its location south of the Canton urban/industrial area which would not be expected to be impacted by, nor should it be considered a receptor for, the Canton area. Prevailing winds are from the south/southwest and do not contribute to the Starks county monitor.

8) Geography - Ohio EPA did not rely on geography to support its recommendation.

9) Jurisdictional Boundaries - Ohio EPA did not rely on jurisdictional boundaries to support its recommendation. Stark county was nonattainment for the 1 hour standard.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. Based on our analysis of the 11 factors we agree with Ohio EPA to designate Carroll county as attainment. The majority of emissions and population is located within Stark county. Carroll county is not a high growth area or an area with significant commuters and traffic. Carroll county is rural, with a low population density and does not significantly contribute to the C/MSA.

2000 Population: 28,836	VOC (tpy): 1,435	%drive to work: 83 Canton--Massillon, OH MSA
1990-2000 growth: 8.7%	NOx (tpy): 1,963	Wind direction: not considered
2000-2010 growth: -1.9%	1999 Veh. mi. travelled (mln): 190	Topographical features: not considered

Champaign County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside the presumptive area. Upon review of the 11 factors, this county is low in emissions and population as well as the other factors. The Ohio EPA recommended attainment and EPA agrees. Prevailing winds are from the south/southwest so the county does not contribute to the Dayton nonattainment area.		
2000 Population: 38,890	VOC (tpy): 2,133	%drive to work: 28 Dayton--Springfield, OH M
1990-2000 growth: 8.0%	NOx (tpy): 1,873	Wind direction: not considered
2000-2010 growth: 2.9%	1999 Veh. mi. travelled (mln): 331	Topographical features: not considered

Clark County, Ohio

2004 Designation: Nonattainment		County design value: 88
Area: Dayton-Springfield, OH		
MSA or CMSA: Dayton-Springfield, OH		
Justification: The Ohio EPA recommended this county as nonattainment. The county contains a monitor that is violating the standard and EPA is including it as part of the Dayton-Springfield nonattainment area.		
2000 Population: 144,742	VOC (tpy): 8,052	%drive to work: 91 Dayton--Springfield, OH M
1990-2000 growth: -1.9%	NOx (tpy): 6,142	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 1,424	Topographical features: not considered

Clermont County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: The Ohio EPA recommended this county as nonattainment. It contains a monitor that is violating the standard. EPA is designating Clermont County as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 177,977	VOC (tpy): 7,851	%drive to work: 98 Cincinnati--Hamilton,

		OH-
1990-2000 growth: 18.5%	NOx (tpy): 53,375	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 1,602	Topographical features: not considered

Clinton County, Ohio

2004 Designation: Nonattainment		County design value: 96
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended this county as nonattainment. It contains a monitor that is violating the standard and this monitor appears to be an indicator of air quality in the Cincinnati C/MSA. EPA is including Clinton county as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 40,543	VOC (tpy): 2,606	%drive to work: 18 Cincinnati--Hamilton, OH-
1990-2000 growth: 14.5%	NOx (tpy): 2,649	Wind direction: not considered
2000-2010 growth: 15.7%	1999 Veh. mi. travelled (mln): 417	Topographical features: not considered

Columbiana County, Ohio

2004 Designation: Nonattainment		County design value: N/A
Area: Youngstown-Warren-Sharon, PA-OH		
MSA or CMSA: Youngstown-Warren, OH		
Justification: The Ohio EPA recommended this county as nonattainment. While this county does not contain a monitor, it is within a C/MSA with a violating monitor. This county will be nonattainment in combination with Mahoning, Trumbull and Mercer county, PA as a part of the Youngstown-Warren nonattainment area.		
2000 Population: 112,075	VOC (tpy): 5,968	%drive to work: 79 Youngstown--Warren, OH MS
1990-2000 growth: 3.5%	NOx (tpy): 6,073	Wind direction: not considered
2000-2010 growth: 1.7%	1999 Veh. mi. travelled (mln): 915	Topographical features: not considered

Coshocton County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the presumptive area. While the county is higher in terms of NOx emissions, it is low in terms of the other factors for this area. There have been some reductions in NOx at the power plant (Conesville) that make up the majority of emissions. This county is adjacent to the Columbus nonattainment area, and, due to prevailing winds from the south/southwest, the county does not contribute to the Columbus C/MSA.		

2000 Population: 36,655	VOC (tpy): 2,936	%drive to work: 5 Columbus, OH MSA
1990-2000 growth: 3.5%	NOx (tpy): 26,304	Wind direction: not considered
2000-2010 growth: -3.1%	1999 Veh. mi. travelled (mln): 303	Topographical features: not considered

Cuyahoga County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Cleveland-Akron-Lorain, OH		
MSA or CMSA: Cleveland-Akron, OH		
Justification: The Ohio EPA recommended this county as nonattainment. The EPA agrees. It contains a monitor that is violating the standard.		
2000 Population: 1,393,978	VOC (tpy): 71,092	%drive to work: 99 Cleveland--Akron, OH C/MSA
1990-2000 growth: -1.3%	NOx (tpy): 57,573	Wind direction: not considered
2000-2010 growth: -2.0%	1999 Veh. mi. travelled (mln): 11,885	Topographical features: not considered

Darke County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the presumptive area. It is lower in terms of the 11 factors and does not contribute to the Dayton nonattainment area. The Ohio EPA recommended attainment and EPA agrees.		
2000 Population: 53,309	VOC (tpy): 3,665	%drive to work: 21 Dayton--Springfield, OH M
1990-2000 growth: -0.6%	NOx (tpy): 3,326	Wind direction: not considered
2000-2010 growth: 0.9%	1999 Veh. mi. travelled (mln): 502	Topographical features: not considered

Defiance County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the presumptive area. It is on the lower end for the 11 factors. This county does not contribute to the Fort Wayne nonattainment area since prevailing winds are from the south/southwest and the county is east of Fort Wayne. The Ohio EPA recommended attainment and EPA agrees.		
2000 Population: 39,500	VOC (tpy): 3,752	%drive to work: 6 Fort Wayne, IN MSA

1990-2000 growth: 0.4%	NOx (tpy): 3,950	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 281	Topographical features: not considered

Delaware County, Ohio

2004 Designation: Nonattainment		County design value: 91
Area: Columbus, OH		
MSA or CMSA: Columbus, OH		
Justification: Delaware county contains a monitor that is violating the standard. The Ohio EPA recommended the county as part of the Columbus nonattainment area and EPA agrees.		
2000 Population: 109,989	VOC (tpy): 5,614	%drive to work: 92 Columbus, OH MSA
1990-2000 growth: 64.3%	NOx (tpy): 6,396	Wind direction: not considered
2000-2010 growth: -3.4%	1999 Veh. mi. travelled (mln): 1,063	Topographical features: not considered

Erie County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the presumptive area and the Ohio EPA recommended attainment. The county has little growth and a projected decline in growth. This county is adjacent to a very large C/MSA that will be nonattainment covering the majority of emissions and population in the part of the state. The county does not contribute to the nonattainment area.		
2000 Population: 79,551	VOC (tpy): 8,202	%drive to work: 14 Cleveland--Akron, OH C/MSA
1990-2000 growth: 3.6%	NOx (tpy): 7,982	Wind direction: not considered
2000-2010 growth: -0.1%	1999 Veh. mi. travelled (mln): 846	Topographical features: not considered

Fairfield County, Ohio

2004 Designation: Nonattainment		County design value: N/A
Area: Columbus, OH		
MSA or CMSA: Columbus, OH		
Justification: Fairfield County is part of the presumptive Columbus nonattainment area. While there is no monitor in this county, the Ohio EPA recommended this county as nonattainment. We are designating Fairfield county as part of the Columbus nonattainment area.		
2000 Population: 122,759	VOC (tpy): 5,842	%drive to work: 96 Columbus, OH MSA
1990-2000 growth: 18.6%	NOx (tpy): 6,821	Wind direction: not considered
2000-2010 growth: 17.0%	1999 Veh. mi. travelled (mln): 1,041	Topographical features: not considered

Fayette County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended this county as attainment. This county is outside of the presumptive area and is small in terms of emissions and population.		
2000 Population: 28,433	VOC (tpy): 2,149	%drive to work: 16 Columbus, OH MSA
1990-2000 growth: 3.5%	NOx (tpy): 2,281	Wind direction: not considered
2000-2010 growth: 9.0%	1999 Veh. mi. travelled (mln): 398	Topographical features: not considered

Franklin County, Ohio

2004 Designation: Nonattainment		County design value: 95
Area: Columbus, OH		
MSA or CMSA: Columbus, OH		
Justification: Franklin County contains a monitor violating the standard. The Ohio EPA recommended it as nonattainment and we agree that it should be included as part of the Columbus nonattainment area.		
2000 Population: 1,068,978	VOC (tpy): 49,922	%drive to work: 97 Columbus, OH MSA
1990-2000 growth: 11.2%	NOx (tpy): 42,293	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 9,181	Topographical features: not considered

Fulton County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Toledo, OH		
<p>Justification: Ohio recommended this county as attainment.</p> <p>This is a summary of the 11 factors because the county is within the presumptive area.</p> <p>Technical Analysis:</p> <p>Ohio EPA noted that Fulton county VOC and NOx emissions are less than 5,000 tons/year of each pollutant while Lucas and Wood counties combine for nearly 50,000 tons per year of each.</p> <p>Fulton county:</p> <p>1999 NEI emissions: % of C/MSA</p> <p>VOC 4,559 11%</p>		

NOX 5,240 10%

2) Population Density and degree of Urbanization

The population density of Fulton County is 103.5 people per square mile. The majority of the population density is in Lucas (1,337) and Wood (196). Fulton county is over 96% wooded or agriculture. Fulton county's population is 42,084.

Fulton % of C/MSA

2000 population 42,084 7 %

3) Monitoring Data

In the C/MSA, Lucas and Wood contain monitors that are violating the 8 hour standard. There is no monitor in Fulton County.

4) Location of Emissions Sources

There are few significant sources in Fulton county. Source listings from 1999 NEI are available in the docket. This inventory shows that there are 2 VOC sources and 1 NOx source over 100 tons/year.

5) Traffic and Commuting Patterns

There are 12,000-13,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Fulton County from 2000-2010 is expected to be 1%.

7) Meteorology

Ohio EPA stated that Fulton county is located upwind (to the west) of the Toledo urban/industrial area on summer ozone days and would not be expected to significantly contribute to the nonattainment problem, nor would Fulton county be expected to be impacted by, nor should it be considered a receptor for, the Toledo population.

8) Geography - Ohio EPA did not rely on jurisdictional boundaries to support its recommendation.

9) Jurisdictional Boundaries - The old 1 hour ozone boundary included only Lucas and Wood counties.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. In

our analysis of the 11 factors, we agree with Ohio EPA to designate Fulton county as attainment. Fulton County is a small portion of the overall C/MSA in terms of population and emissions. The majority of emissions and population are located within the rest of the C/MSA. Fulton county is rural, with a low population density, population and mass emissions.

2000 Population: 42,084	VOC (tpy): 4,559	%drive to work: 89 Toledo, OH MSA
1990-2000 growth: 9.3%	NOx (tpy): 5,240	Wind direction: not considered
2000-2010 growth: 1.0%	1999 Veh. mi. travelled (mln): 647	Topographical features: not considered

Gallia County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or C/MSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. There have been some reductions in NOx from the Gavin power plant. They have installed SCR on both units. Prevailing winds are from the south/southwest so the county does not contribute to the Huntington nonattainment area. The monitor southwest of the county is attainment.		
2000 Population: 31,069	VOC (tpy): 1,908	%drive to work: 3 Huntington--Ashland, WV--
1990-2000 growth: 0.4%	NOx (tpy): 84,449	Wind direction: not considered
2000-2010 growth: 7.5%	1999 Veh. mi. travelled (mln): 262	Topographical features: not considered

Geauga County, Ohio

2004 Designation: Nonattainment		County design value: 103
Area: Cleveland-Akron-Lorain, OH		
MSA or C/MSA: Cleveland-Akron, OH		
Justification: Geauga County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Geauga County as part of the Cleveland-Akron-Lorain nonattainment area.		
2000 Population: 90,895	VOC (tpy): 4,974	%drive to work: 98 Cleveland--Akron, OH C/MSA
1990-2000 growth: 12.0%	NOx (tpy): 4,317	Wind direction: not considered
2000-2010 growth: 5.3%	1999 Veh. mi. travelled (mln): 884	Topographical features: not considered

Greene County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Dayton-Springfield, OH		
MSA or C/MSA: Dayton-Springfield, OH		
Justification: Greene County contains a monitor that is violating the standard. The Ohio EPA		

recommended this county as nonattainment and we agree. We are designating Greene County as part of the Dayton-Springfield nonattainment area.

2000 Population: 147,886	VOC (tpy): 6,100	%drive to work: 94 Dayton--Springfield, OH M
1990-2000 growth: 8.2%	NOx (tpy): 8,842	Wind direction: not considered
2000-2010 growth: 5.0%	1999 Veh. mi. travelled (mln): 1,283	Topographical features: not considered

Guernsey County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. Prevailing winds are from the south/southwest so the county does not contribute to the Wheeling nonattainment area.		
2000 Population: 40,792	VOC (tpy): 3,757	%drive to work: 2 Wheeling, WV--OH MSA
1990-2000 growth: 4.5%	NOx (tpy): 6,027	Wind direction: not considered
2000-2010 growth: -3.6%	1999 Veh. mi. travelled (mln): 980	Topographical features: not considered

Hamilton County, Ohio

2004 Designation: Nonattainment		County design value: 93
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: Hamilton County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Hamilton County as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 845,303	VOC (tpy): 48,403	%drive to work: 98 Cincinnati--Hamilton, OH-
1990-2000 growth: -2.4%	NOx (tpy): 69,698	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 8,108	Topographical features: not considered

Hancock County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is north of the nonattainment area. Due to prevailing winds from the south/southwest, the		

county does not contribute to the nonattainment area.		
2000 Population: 71,295	VOC (tpy): 6,203	%drive to work: 6 Toledo, OH MSA
1990-2000 growth: 8.8%	NOx (tpy): 4,593	Wind direction: not considered
2000-2010 growth: -2.2%	1999 Veh. mi. travelled (mln): 727	Topographical features: not considered

Hardin County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. The county does not contribute to the nonattainment area. It is downwind of the area.		
2000 Population: 31,945	VOC (tpy): 1,685	%drive to work: 11 Lima, OH MSA
1990-2000 growth: 2.7%	NOx (tpy): 1,643	Wind direction: not considered
2000-2010 growth: -3.9%	1999 Veh. mi. travelled (mln): 189	Topographical features: not considered

Harrison County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area.		
2000 Population: 15,856	VOC (tpy): 818	%drive to work: 7 Canton--Massillon, OH MSA
1990-2000 growth: -1.4%	NOx (tpy): 760	Wind direction: not considered
2000-2010 growth: -6.7%	1999 Veh. mi. travelled (mln): 140	Topographical features: not considered

Henry County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area.		
2000 Population: 29,210	VOC (tpy): 3,065	%drive to work: 27 Toledo, OH MSA
1990-2000 growth: 0.3%	NOx (tpy): 2,615	Wind direction: not considered
2000-2010 growth: 8.9%	1999 Veh. mi. travelled (mln): 258	Topographical features: not considered

Highland County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. The C/MSA contains 119,677 ton VOC and 252,179 ton NOX so this county is not significant. It is downwind of the nonattainment area and does not contribute to the nonattainment area.		
2000 Population: 40,875	VOC (tpy): 2,125	%drive to work: 10 Cincinnati--Hamilton, OH-
1990-2000 growth: 14.4%	NOx (tpy): 1,883	Wind direction: not considered
2000-2010 growth: 12.8%	1999 Veh. mi. travelled (mln): 351	Topographical features: not considered

Hocking County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. The county does not contribute to the nonattainment area.		
2000 Population: 28,241	VOC (tpy): 1,466	%drive to work: 39 Columbus, OH MSA
1990-2000 growth: 10.6%	NOx (tpy): 2,134	Wind direction: not considered
2000-2010 growth: 13.8%	1999 Veh. mi. travelled (mln): 255	Topographical features: not considered

Holmes County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area.		
2000 Population: 38,943	VOC (tpy): 1,949	%drive to work: 2 Canton--Massillon, OH MSA
1990-2000 growth: 18.6%	NOx (tpy): 1,789	Wind direction: not considered
2000-2010 growth: 13.2%	1999 Veh. mi. travelled (mln): 274	Topographical features: not considered

Huron County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. Prevailing winds are in the south/southwest direction so the county does not contribute to the violations in the nonattainment area.		
2000 Population: 59,487	VOC (tpy): 5,818	%drive to work: 8 Cleveland--Akron, OH C/MSA
1990-2000 growth: 5.8%	NOx (tpy): 3,953	Wind direction: not considered
2000-2010 growth: 6.1%	1999 Veh. mi. travelled (mln): 443	Topographical features: not considered

Jackson County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is downwind of the nonattainment area. The monitors nearest this adjacent county are attaining the standard.		
2000 Population: 32,641	VOC (tpy): 1,749	%drive to work: 0 Huntington--Ashland, WV--
1990-2000 growth: 8.0%	NOx (tpy): 1,408	Wind direction: not considered
2000-2010 growth: 7.2%	1999 Veh. mi. travelled (mln): 268	Topographical features: not considered

Jefferson County, Ohio

2004 Designation: Nonattainment		County design value: 86
Area: Steubenville-Weirton, OH-WV		
MSA or CMSA: Steubenville-Weirton, OH-WV		
Justification: Jefferson County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Jefferson County as part of the Steubenville-Weirton nonattainment area. This is an interstate nonattainment area including counties in Ohio and West Virginia.		
2000 Population: 73,894	VOC (tpy): 4,237	%drive to work: 80 Steubenville--Weirton, OH
1990-2000 growth: -8.0%	NOx (tpy): 98,387	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 722	Topographical features: not considered

Knox County, Ohio

2004 Designation: Nonattainment		County design value: 88
Area: Columbus, OH		

MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended this county as nonattainment. It contains a monitor that is violating the standard. EPA believes that Knox county should be included as a part of the Columbus nonattainment area. Ohio EPA then indicated that they believe that only part of this county should be nonattainment. This county is a receptor for the Columbus area.		
2000 Population: 54,500	VOC (tpy): 2,780	%drive to work: 21 Columbus, OH MSA
1990-2000 growth: 14.8%	NOx (tpy): 2,393	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 465	Topographical features: not considered

Lake County, Ohio

2004 Designation: Nonattainment		County design value: 95
Area: Cleveland-Akron-Lorain, OH		
MSA or CMSA: Cleveland-Akron, OH		
Justification: Lake County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Lake County as part of the Cleveland-Akron-Lorain nonattainment area.		
2000 Population: 227,511	VOC (tpy): 15,984	%drive to work: 99 Cleveland--Akron, OH C/MSA
1990-2000 growth: 5.6%	NOx (tpy): 28,524	Wind direction: not considered
2000-2010 growth: - 2.5%	1999 Veh. mi. travelled (mln): 1,880	Topographical features: not considered

Lawrence County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: Huntington-Ashland, WV-KY-OH		
<p>Justification: Given 2001-2003 monitoring data, this county is attaining the standard. The Ohio EPA recommended attainment for this county given the more current monitoring data.</p> <p>Technical Analysis of the 11 factors since this county is within a C/MSA with a violating monitor:</p> <p>This is a summary of how the 11 factors are addressed.</p> <p>1) Emissions</p> <p>Ohio EPA noted that Lawrence county VOC and NOx emissions are less than 5,000 tons/year of each pollutant. C/MSA emissions are 30,157 tons per year VOC and 44,800 tons per year NOx.</p> <p>1999 NEI emissions: Lawrence % of C/MSA</p> <p>VOC 4,087 14%</p>		

NOX 4,133 9%

1999 v 2002 EIS point source inventory in tons per year. Point source emissions have decreased.

Lawrence 1999 2002

VOC 699.62 28.57

NOx 128.25 4.91

2) Population Density and degree of Urbanization

The population density of Lawrence County is 133 people per square mile. Lawrence county is over 93% wooded or agriculture. Lawrence county's population is less than 65,000 while the total C/MSA is 315,000.

Lawrence % of C/MSA

2000 population 62,319 20 %

3) Monitoring Data

There is a monitor in Lawrence county. Given 2000-2002 monitoring data, there was a violation. Given 2001-2003 monitoring data the county is now attaining the standard.

4) Location of Emissions Sources

There are few significant sources in Lawrence county. Source listings from 1999 NEI are available in the docket. This data indicates that Lawrence county has 3 major VOC source and 0 major NOx sources (i.e. sources greater than 100 t/y).

5) Traffic and Commuting Patterns

There are less than 14,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Lawrence County from 2000-2010 is expected to be 1.4%. Since the 2000 population is 62,319, this growth rate is not significant given the population of the C/MSA.

7) Meteorology - Ohio EPA did not rely on meteorology to support its recommendation.

8) Geography - Ohio EPA did not rely on geography to support its recommendation.

9) Jurisdictional Boundaries - Ohio EPA did not rely on jurisdictional boundaries to support its recommendation.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission

controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. In our analysis of the 11 factors, we agree with Ohio EPA to designate Lawrence county as attainment. Lawrence County is a small portion of the overall C/MSA in terms of population and emissions. The majority of emissions and population are located within the rest of the C/MSA. Lawrence county is rural, with a low population density, population and mass emissions and does not significantly contribute to the C/MSA.

2000 Population: 62,319	VOC (tpy): 4,087	%drive to work: 91 Huntington--Ashland, WV--
1990-2000 growth: 0.8%	NOx (tpy): 4,133	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 620	Topographical features: not considered

Licking County, Ohio

2004 Designation: Nonattainment		County design value: 89
Area: Columbus, OH		
MSA or C/MSA: Columbus, OH		
Justification: Licking County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Licking County as part of the Columbus nonattainment area.		
2000 Population: 145,491	VOC (tpy): 7,231	%drive to work: 96 Columbus, OH MSA
1990-2000 growth: 13.4%	NOx (tpy): 8,062	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln): 1,407	Topographical features: not considered

Logan County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or C/MSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. Due to prevailing south/southwest winds the county does not contribute to the nonattainment area.		
2000 Population: 46,005	VOC (tpy): 3,138	%drive to work: 3 Lima, OH MSA
1990-2000 growth: 8.7%	NOx (tpy): 2,546	Wind direction: not considered
2000-2010 growth: 14.0%	1999 Veh. mi. travelled (mln): 420	Topographical features: not considered

Lorain County, Ohio

2004 Designation: Nonattainment		County design value: 90
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Area: Cleveland-Akron-Lorain, OH		
MSA or CMSA: Cleveland-Akron, OH		
Justification: Lorain County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Lorain County as part of the Cleveland-Akron-Lorain nonattainment area.		
2000 Population: 284,664	VOC (tpy): 17,287	%drive to work: 97 Cleveland--Akron, OH C/MSA
1990-2000 growth: 5.0%	NOx (tpy): 35,972	Wind direction: not considered
2000-2010 growth: 6.6%	1999 Veh. mi. travelled (mln): 2,447	Topographical features: not considered

Lucas County, Ohio

2004 Designation: Nonattainment		County design value: 93
Area: Toledo, OH		
MSA or CMSA: Toledo, OH		
Justification: Lucas County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Lucas County as part of the Toledo nonattainment area.		
2000 Population: 455,054	VOC (tpy): 29,232	%drive to work: 94 Toledo, OH MSA
1990-2000 growth: -1.6%	NOx (tpy): 39,085	Wind direction: not considered
2000-2010 growth: 0.4%	1999 Veh. mi. travelled (mln): 4,138	Topographical features: not considered

Madison County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Columbus, OH		
MSA or CMSA: Columbus, OH		
Justification: Madison County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Madison County as part of the Columbus nonattainment area.		
2000 Population: 40,213	VOC (tpy): 2,700	%drive to work: 89 Columbus, OH MSA
1990-2000 growth: 8.5%	NOx (tpy): 3,334	Wind direction: not considered
2000-2010 growth: 14.5%	1999 Veh. mi. travelled (mln): 596	Topographical features: not considered

Mahoning County, Ohio

2004 Designation: Nonattainment		County design value: 89
Area: Youngstown-Warren-Sharon, PA-OH		
MSA or CMSA: Youngstown-Warren, OH		
Justification: Mahoning County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Mahoning County as		

part of the Youngstown-Warren nonattainment area. This is an interstate nonattainment that includes counties in Ohio and Pennsylvania.

2000 Population: 257,555	VOC (tpy): 15,562	%drive to work: 91 Youngstown--Warren, OH MS
1990-2000 growth: -2.7%	NOx (tpy): 12,853	Wind direction: not considered
2000-2010 growth: 7.3%	1999 Veh. mi. travelled (mln): 2,507	Topographical features: not considered

Marion County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is north of the nonattainment area and due to prevailing south/southwest winds the county does not contribute to the nonattainment area.		
2000 Population: 66,217	VOC (tpy): 4,170	%drive to work: 10 Columbus, OH MSA
1990-2000 growth: 3.0%	NOx (tpy): 4,014	Wind direction: not considered
2000-2010 growth: -10.3%	1999 Veh. mi. travelled (mln): 469	Topographical features: not considered

Medina County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Cleveland-Akron-Lorain, OH		
MSA or CMSA: Cleveland-Akron, OH		
Justification: Medina County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Medina County as part of the Cleveland-Akron-Lorain nonattainment area.		
2000 Population: 151,095	VOC (tpy): 6,940	%drive to work: 95 Cleveland--Akron, OH C/MSA
1990-2000 growth: 23.5%	NOx (tpy): 7,669	Wind direction: not considered
2000-2010 growth: 8.0%	1999 Veh. mi. travelled (mln): 1,587	Topographical features: not considered

Meigs County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area.		

2000 Population: 23,072	VOC (tpy): 1,102	%drive to work: 7 Parkersburg--Marietta, WV
1990-2000 growth: 0.4%	NOx (tpy): 2,312	Wind direction: not considered
2000-2010 growth: 9.7%	1999 Veh. mi. travelled (mln): 196	Topographical features: not considered

Mercer County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area.		
2000 Population: 40,924	VOC (tpy): 2,506	%drive to work: 18 Lima, OH MSA
1990-2000 growth: 3.8%	NOx (tpy): 2,007	Wind direction: not considered
2000-2010 growth: -1.8%	1999 Veh. mi. travelled (mln): 350	Topographical features: not considered

Miami County, Ohio

2004 Designation: Nonattainment		County design value: 88
Area: Dayton-Springfield, OH		
MSA or CMSA: Dayton-Springfield, OH		
Justification: Miami County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Miami County as part of the Dayton-Springfield nonattainment area.		
2000 Population: 98,868	VOC (tpy): 5,608	%drive to work: 90 Dayton--Springfield, OH M
1990-2000 growth: 6.1%	NOx (tpy): 4,402	Wind direction: not considered
2000-2010 growth: 7.3%	1999 Veh. mi. travelled (mln): 835	Topographical features: not considered

Monroe County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county does not contribute to violations in the nonattainment area.		
2000 Population: 15,180	VOC (tpy): 1,160	%drive to work: 5 Parkersburg--Marietta, WV
1990-2000 growth: -2.0%	NOx (tpy): 2,818	Wind direction: not considered
2000-2010 growth: -9.7%	1999 Veh. mi. travelled (mln): 139	Topographical features: not considered

Montgomery County, Ohio

2004 Designation: Nonattainment		County design value: 87
Area: Dayton-Springfield, OH		
MSA or CMSA: Dayton-Springfield, OH		
Justification: Montgomery County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Montgomery County as part of the Dayton-Springfield nonattainment area.		
2000 Population: 559,062	VOC (tpy): 29,711	%drive to work: 94 Dayton--Springfield, OH M
1990-2000 growth: -2.6%	NOx (tpy): 24,848	Wind direction: not considered
2000-2010 growth: 6.8%	1999 Veh. mi. travelled (mln): 5,610	Topographical features: not considered

Morgan County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. Due to prevailing south/southwest winds, the county does not contribute to the nonattainment area.		
2000 Population: 14,897	VOC (tpy): 906	%drive to work: 9 Parkersburg--Marietta, WV
1990-2000 growth: 5.0%	NOx (tpy): 602	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 114	Topographical features: not considered

Morrow County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is north of the nonattainment area and does not contribute to violations in the area due to prevailing south/southwest winds.		
2000 Population: 31,628	VOC (tpy): 2,049	%drive to work: 35 Columbus, OH MSA
1990-2000 growth: 14.0%	NOx (tpy): 2,611	Wind direction: not considered
2000-2010 growth: 10.3%	1999 Veh. mi. travelled (mln): 469	Topographical features: not considered

Muskingum County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions for this area and is projected to have declining growth. This county is downwind of the nonattainment area so it does not contribute to the nonattainment area.		
2000 Population: 84,585	VOC (tpy): 5,368	%drive to work: 13 Columbus, OH MSA
1990-2000 growth: 3.1%	NOx (tpy): 5,884	Wind direction: not considered
2000-2010 growth: -3.0%	1999 Veh. mi. travelled (mln): 1,039	Topographical features: not considered

Noble County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is north of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 14,058	VOC (tpy): 1,409	%drive to work: 10 Parkersburg--Marietta, WV
1990-2000 growth: 24.0%	NOx (tpy): 1,757	Wind direction: not considered
2000-2010 growth: 0.8%	1999 Veh. mi. travelled (mln): 345	Topographical features: not considered

Ottawa County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is east of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 40,985	VOC (tpy): 5,815	%drive to work: 26 Toledo, OH MSA
1990-2000 growth: 2.4%	NOx (tpy): 4,974	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 438	Topographical features: not considered

Paulding County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is east of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 20,293	VOC (tpy): 2,025	%drive to work: 18 Fort Wayne, IN MSA
1990-2000 growth: -0.9%	NOx (tpy): 1,936	Wind direction: not considered
2000-2010 growth: 1.0%	1999 Veh. mi. travelled (mln): 192	Topographical features: not considered

Perry County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is east of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 34,078	VOC (tpy): 1,654	%drive to work: 43 Columbus, OH MSA
1990-2000 growth: 8.0%	NOx (tpy): 2,174	Wind direction: not considered
2000-2010 growth: 4.5%	1999 Veh. mi. travelled (mln): 233	Topographical features: not considered

Pickaway County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Columbus, OH		
<p>Justification: The Ohio EPA recommended this county as attainment.</p> <p>Technical Analysis:</p> <p>This is a summary of how the 11 factors are addressed for this county that is within a presumptive area with a violating monitor.</p> <p>1) Emissions</p> <p>Ohio EPA noted that Pickaway county VOC and NOx emissions are 3,736 and 5,914 tons/year of each pollutant. C/MSA emissions are 90,632 tons per year VOC and 109,802 tons per year NOx. Pickaway is considered a small county in terms of the mass emissions.</p> <p>1999 NEI emissions: Pickaway % of C/MSA</p>		

VOC 3,736 5%

NOX 5,914 8%

2) Population Density and degree of Urbanization

The population density of Pickaway County is 105 people per square mile. The majority of the population is in the central part of the C/MSA is in Franklin County. Circleville is the largest city in Pickaway county at less than 14,000 people. Pickaway county is over 97% wooded or agriculture. Pickaway county's population is just over 52,000 while the total C/MSA is 1,540,157.

Pickaway % of C/MSA

2000 population 52,727 3 %

3) Monitoring Data

In the C/MSA, Madison, Delaware, Franklin, and Licking counties contain monitors that are violating the 8 hour standard. There is also a violating monitor in Knox county, adjacent to the C/MSA. There is no monitor in Pickaway County.

4) Location of Emissions Sources

There are few significant sources in Pickaway county. Source listings from 1999 NEI are available in the docket. This data indicates that Pickaway county has 1 major VOC source and 3 major NOx sources (i.e. sources greater than 100 t/y).

5) Traffic and Commuting Patterns

There are 14,000-15,000 workers commuting in or out of the county.

6) Expected Growth

According to the US Census the expected growth of Pickaway County from 2000-2010 is expected to be 11.8%. Since the 2000 population is 52,727, this growth rate is not significant given the population of the C/MSA. Pickaway grew by less than 5,000 people since 1990.

7) Meteorology

Ohio EPA stated that Pickaway county is not expected to be impacted by, nor should it be considered a receptor for, the Columbus area. Pickaway is upwind from the C/MSA.

8) Geography - Ohio EPA did not rely on geography to support its recommendation.

9) Jurisdictional Boundaries - Ohio EPA did not rely on jurisdictional boundaries to support its recommendation.

10) Level of Emission Controls - Ohio EPA did not provide information regarding level of emission controls. Some RACT rules implemented by Ohio EPA have been statewide.

11) Regional Emission Reductions - Ohio is part of the NOx SIP call

No one factor is the basis for the designation decision. All of the 11 factors were analyzed together. In our analysis of the 11 factors, we agree with Ohio EPA to designate Pickaway county as attainment. Pickaway County is a small portion of the overall C/MSA in terms of population and emissions. The majority of emissions and population are located within the rest of the C/MSA. Pickaway county is rural, with a low population density, population and mass emissions and does not significantly contribute to the C/MSA.

2000 Population: 52,727	VOC (tpy): 3,736	%drive to work: 92 Columbus, OH MSA
1990-2000 growth: 9.3%	NOx (tpy): 5,914	Wind direction: not considered
2000-2010 growth: 11.8%	1999 Veh. mi. travelled (mln): 533	Topographical features: not considered

Portage County, Ohio

2004 Designation: Nonattainment		County design value: 93
Area: Cleveland-Akron-Lorain, OH		
MSA or C/MSA: Cleveland-Akron, OH		
Justification: Portage County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Portage County as part of the Cleveland-Akron-Lorain nonattainment area.		
2000 Population: 152,061	VOC (tpy): 8,563	%drive to work: 94 Cleveland--Akron, OH C/MSA
1990-2000 growth: 6.6%	NOx (tpy): 9,655	Wind direction: not considered
2000-2010 growth: 3.6%	1999 Veh. mi. travelled (mln): 1,741	Topographical features: not considered

Preble County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: 81
Area: - attainment -		
MSA or C/MSA: - outside -		
Justification: This county is outside of the presumptive area and the Ohio EPA recommended attainment. This county contains a monitor that is below the standard. The county is smaller in terms of the 11 factors for this area.		
2000 Population: 42,337	VOC (tpy): 2,711	%drive to work: 27 Dayton--Springfield, OH M
1990-2000 growth: 5.5%	NOx (tpy): 2,960	Wind direction: not considered
2000-2010 growth: 8.2%	1999 Veh. mi. travelled (mln): 521	Topographical features: not considered

Putnam County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is north of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 34,726	VOC (tpy): 2,268	%drive to work: 19 Lima, OH MSA
1990-2000 growth: 2.7%	NOx (tpy): 2,857	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 340	Topographical features: not considered

Richland County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Mansfield, OH		
Justification: The Ohio EPA recommended this county as attainment. There are no monitors within this C/MSA. This county is outside of the presumptive area for C/MSAs with violating monitors. While the county is higher in terms of population, it has projected declining growth. There is not much commuting into the Columbus area.		
2000 Population: 128,852	VOC (tpy): 8,168	%drive to work: 2 Columbus, OH MSA
1990-2000 growth: 2.1%	NOx (tpy): 8,221	Wind direction: not considered
2000-2010 growth: -5.3%	1999 Veh. mi. travelled (mln): 1,228	Topographical features: not considered

Ross County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in the majority of the factors for this area. This county is south of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 73,345	VOC (tpy): 4,752	%drive to work: 18 Columbus, OH MSA
1990-2000 growth: 5.8%	NOx (tpy): 8,058	Wind direction: not considered
2000-2010 growth: 11.4%	1999 Veh. mi. travelled (mln): 665	Topographical features: not considered

Sandusky County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of the majority of factors for this area. This county is east of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.

2000 Population: 61,792	VOC (tpy): 6,401	%drive to work: 10 Toledo, OH MSA
1990-2000 growth: -0.3%	NOx (tpy): 8,125	Wind direction: not considered
2000-2010 growth: 12.3%	1999 Veh. mi. travelled (mln): 783	Topographical features: not considered

Scioto County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of most of the 11 factors for this area. The county is downwind of clean monitors. This county is northwest of the nonattainment area and not contributing to the area due to prevailing south/southwest winds. Closest monitors are attaining the standard.		
2000 Population: 79,195	VOC (tpy): 4,737	%drive to work: 5 Huntington--Ashland, WV--
1990-2000 growth: -1.4%	NOx (tpy): 5,685	Wind direction: not considered
2000-2010 growth: 7.0%	1999 Veh. mi. travelled (mln): 625	Topographical features: not considered

Seneca County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is southeast of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 58,683	VOC (tpy): 3,840	%drive to work: 5 Toledo, OH MSA
1990-2000 growth: -1.8%	NOx (tpy): 4,673	Wind direction: not considered
2000-2010 growth: -8.5%	1999 Veh. mi. travelled (mln): 435	Topographical features: not considered

Shelby County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area.		

Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is north of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.

2000 Population: 47,910	VOC (tpy): 3,956	%drive to work: 11 Dayton--Springfield, OH M
1990-2000 growth: 6.7%	NOx (tpy): 3,605	Wind direction: not considered
2000-2010 growth: 6.4%	1999 Veh. mi. travelled (mln): 447	Topographical features: not considered

Stark County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Canton-Massillon, OH		
MSA or CMSA: Canton-Massillon, OH		
Justification: Stark County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Stark County as part of the Canton-Massillon nonattainment area.		
2000 Population: 378,098	VOC (tpy): 22,840	%drive to work: 80 Canton--Massillon, OH MSA
1990-2000 growth: 2.9%	NOx (tpy): 15,755	Wind direction: not considered
2000-2010 growth: - 0.2%	1999 Veh. mi. travelled (mln): 3,076	Topographical features: not considered

Summit County, Ohio

2004 Designation: Nonattainment		County design value: 96
Area: Cleveland-Akron-Lorain, OH		
MSA or CMSA: Cleveland-Akron, OH		
Justification: Summit County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Summit County as part of the Cleveland-Akron-Lorain nonattainment area.		
2000 Population: 542,899	VOC (tpy): 25,639	%drive to work: 95 Cleveland--Akron, OH C/MSA
1990-2000 growth: 5.4%	NOx (tpy): 28,747	Wind direction: not considered
2000-2010 growth: 0.5%	1999 Veh. mi. travelled (mln): 4,989	Topographical features: not considered

Trumbull County, Ohio

2004 Designation: Nonattainment		County design value: 95
Area: Youngstown-Warren-Sharon, PA-OH		
MSA or CMSA: Youngstown-Warren, OH		
Justification: Trumbull County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Trumbull County as part of the Youngstown-Warren nonattainment area. This is an interstate nonattainment area including		

counties in Ohio and Pennsylvania.		
2000 Population: 225,116	VOC (tpy): 17,352	%drive to work: 86 Youngstown--Warren, OH MS
1990-2000 growth: -1.2%	NOx (tpy): 18,878	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 2,056	Topographical features: not considered

Tuscarawas County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive nonattainment area. This county is higher in terms of population, in the midrange for emissions and low for other information for this particular area. There is not much commuting into the C/MSA and there is projected declining growth.		
2000 Population: 90,914	VOC (tpy): 6,753	%drive to work: 14 Canton--Massillon, OH MSA
1990-2000 growth: 8.1%	NOx (tpy): 6,487	Wind direction: not considered
2000-2010 growth: -5.8%	1999 Veh. mi. travelled (mln): 1,099	Topographical features: not considered

Union County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is northwest of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 40,909	VOC (tpy): 2,533	%drive to work: 34 Columbus, OH MSA
1990-2000 growth: 28.0%	NOx (tpy): 2,325	Wind direction: not considered
2000-2010 growth: 11.3%	1999 Veh. mi. travelled (mln): 362	Topographical features: not considered

Van Wert County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is northwest of the nonattainment area and not contributing to the area due to prevailing		

south/southwest winds.		
2000 Population: 29,659	VOC (tpy): 2,482	%drive to work: 14 Lima, OH MSA
1990-2000 growth: -2.6%	NOx (tpy): 1,772	Wind direction: not considered
2000-2010 growth: -0.9%	1999 Veh. mi. travelled (mln): 226	Topographical features: not considered

Warren County, Ohio

2004 Designation: Nonattainment		County design value: 92
Area: Cincinnati-Hamilton, OH-KY-IN		
MSA or CMSA: Cincinnati-Hamilton, OH-KY-IN		
Justification: Warren County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Warren County as part of the Cincinnati-Hamilton nonattainment area.		
2000 Population: 158,383	VOC (tpy): 7,123	%drive to work: 80 Cincinnati--Hamilton, OH-
1990-2000 growth: 39.0%	NOx (tpy): 7,916	Wind direction: not considered
2000-2010 growth: 3.2%	1999 Veh. mi. travelled (mln): 1,292	Topographical features: not considered

Washington County, Ohio

2004 Designation: Nonattainment		County design value: 86
Area: Parkersburg-Marietta, WV-OH		
MSA or CMSA: Parkersburg-Marietta, WV-OH		
Justification: Washington County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Washington County as part of the Parkersburg-Marietta nonattainment area. This is an interstate nonattainment area with counties in Ohio and West Virginia.		
2000 Population: 63,251	VOC (tpy): 5,355	%drive to work: 92 Parkersburg--Marietta, WV
1990-2000 growth: 1.6%	NOx (tpy): 34,234	Wind direction: not considered
2000-2010 growth: -8.8%	1999 Veh. mi. travelled (mln): 717	Topographical features: not considered

Wayne County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is outside of the presumptive nonattainment area. It is small in terms of emissions given the size of the adjacent nonattainment area.		
2000 Population: 111,564	VOC (tpy): 6,961	%drive to work: 19 Cleveland--Akron, OH C/MSA
1990-2000 growth:		

9.9%	NOx (tpy): 9,185	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 1,018	Topographical features: not considered

Williams County, Ohio

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Ohio EPA recommended attainment. This county is outside of the presumptive area. Upon review of the 11 factors, the county is smaller in terms of emissions and population for this area. This county is west of the nonattainment area and not contributing to the area due to prevailing south/southwest winds.		
2000 Population: 39,188	VOC (tpy): 4,356	%drive to work: 10 Toledo, OH MSA
1990-2000 growth: 6.0%	NOx (tpy): 3,801	Wind direction: not considered
2000-2010 growth: -1.2%	1999 Veh. mi. travelled (mln): 586	Topographical features: not considered

Wood County, Ohio

2004 Designation: Nonattainment		County design value: 90
Area: Toledo, OH		
MSA or CMSA: Toledo, OH		
Justification: Wood County contains a monitor that is violating the standard. The Ohio EPA recommended this county as nonattainment and we agree. We are designating Wood County as part of the Toledo nonattainment area.		
2000 Population: 121,065	VOC (tpy): 7,585	%drive to work: 88 Toledo, OH MSA
1990-2000 growth: 6.9%	NOx (tpy): 9,102	Wind direction: not considered
2000-2010 growth: 3.6%	1999 Veh. mi. travelled (mln): 1,351	Topographical features: not considered

Adams County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: York, PA		
MSA or CMSA: - outside -		
Justification: The Adams-York, PA 8-hour ozone nonattainment area consists of Adams County, PA and York County, PA. York County, PA is a single county MSA (OMB 1999). Adams County is being added to York to make up this nonattainment area. Adams County does not have a monitor that is violating the ozone standard but it is surrounded by counties with monitors that are violating the standard.		
2000 Population: 91,292	VOC (tpy): 4,681	%drive to work: 25 York, PA MSA
1990-2000 growth: 16.6%	NOx (tpy): 3,891	Wind direction: not considered
2000-2010 growth: 6.3%	1999 Veh. mi. travelled (mln): 731	Topographical features: not considered

Allegheny County, Pennsylvania

2004 Designation: Nonattainment		County design value: 93
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: Pittsburgh, PA		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 1,281,666	VOC (tpy): 60,349	%drive to work: 98 Pittsburgh, PA MSA
1990-2000 growth: -4.1%	NOx (tpy): 81,658	Wind direction: not considered
2000-2010 growth: -7.3%	1999 Veh. mi. travelled (mln): 10,445	Topographical features: not considered

Armstrong County, Pennsylvania

2004 Designation: Nonattainment		County design value: 93
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: - outside -		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 72,392	VOC (tpy): 3,756	%drive to work: 34 Pittsburgh, PA MSA
1990-2000 growth: -1.5%	NOx (tpy): 27,715	Wind direction: not considered
2000-2010 growth: -10.9%	1999 Veh. mi. travelled (mln): 620	Topographical features: not considered

Beaver County, Pennsylvania

2004 Designation: Nonattainment		County design value: 94
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: Pittsburgh, PA		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 181,412	VOC (tpy): 9,279	%drive to work: 94 Pittsburgh, PA MSA
1990-2000 growth: -2.5%	NOx (tpy): 38,649	Wind direction: not considered
2000-2010 growth: -7.0%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

	1,567	
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Bedford County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 49,984	VOC (tpy): 4,143	%drive to work: 3 Johnstown, PA MSA
1990-2000 growth: 4.3%	NOx (tpy): 5,198	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 906	Topographical features: not considered

Berks County, Pennsylvania

2004 Designation: Nonattainment		County design value: 91
Area: Reading, PA		
MSA or CMSA: Reading, PA		
Justification: The Reading 8-hour ozone nonattainment area is a single county nonattainment area consisting of Berks County. This county represents the entire 1999 Reading MSA. The State recommended this county as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 373,638	VOC (tpy): 20,907	%drive to work: 79 Reading, PA MSA
1990-2000 growth: 11.0%	NOx (tpy): 20,880	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 3,192	Topographical features: not considered

Blair County, Pennsylvania

2004 Designation: Nonattainment		County design value: 85
Area: Altoona, PA		
MSA or CMSA: Altoona, PA		
Justification: The Altoona nonattainment area consists of Blair County. This county is the only county in the Altoona MSA and it has a monitor that is violating the standard.		
2000 Population: 129,144	VOC (tpy): 6,873	%drive to work: 2 Johnstown, PA MSA
1990-2000 growth: -1.1%	NOx (tpy): 6,615	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 1,173	Topographical features: not considered

Bradford County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A

Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 62,761	VOC (tpy): 3,934	%drive to work: 4 Scranton--Wilkes-Barre--H
1990-2000 growth: 2.9%	NOx (tpy): 3,029	Wind direction: not considered
2000-2010 growth: 10.6%	1999 Veh. mi. travelled (mln): 492	Topographical features: not considered

Bucks County, Pennsylvania

2004 Designation: Nonattainment		County design value: 100
Area: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Pennsylvania portion of the Philadelphia nonattainment area includes the following counties: Bucks County, Chester County, Delaware County, Montgomery County, and Philadelphia County. The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 597,635	VOC (tpy): 25,059	%drive to work: 86 Philadelphia--Wilmington-
1990-2000 growth: 10.4%	NOx (tpy): 17,937	Wind direction: not considered
2000-2010 growth: 6.1%	1999 Veh. mi. travelled (mln): 3,710	Topographical features: not considered

Butler County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: Pittsburgh, PA		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 174,083	VOC (tpy): 9,260	%drive to work: 93 Pittsburgh, PA MSA
1990-2000 growth: 14.5%	NOx (tpy): 10,081	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 1,630	Topographical features: not considered

Cambria County, Pennsylvania

2004 Designation: Nonattainment		County design value: 87

Area: Johnstown, PA		
MSA or CMSA: Johnstown, PA		
Justification: The Johnstown 8-hour ozone nonattainment area consists of Cambria County, PA. Although the Johnstown MSA includes both Cambria and Somerset Counties, EPA has evaluated data for Somerset County and concludes that it should be designated unclassifiable/attainment because it is not contributing to a violation and does not have a monitor that is in violation of the ozone standard. Cambria County contains more than half of the total VOC and NOx emissions and more than half of the total population in the Johnstown MSA. Further, all of the utility emissions in this MSA are from Cambria County. The State recommended Cambria County as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 152,598	VOC (tpy): 7,697	%drive to work: 84 Johnstown, PA MSA
1990-2000 growth: -6.4%	NOx (tpy): 8,479	Wind direction: not considered
2000-2010 growth: -7.2%	1999 Veh. mi. travelled (mln): 1,170	Topographical features: not considered

Cameron County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 5,974	VOC (tpy): 1,492	%drive to work: 0
1990-2000 growth: 1.0%	NOx (tpy): 233	Wind direction: not considered
2000-2010 growth: -9.8%	1999 Veh. mi. travelled (mln): 23	Topographical features: not considered

Carbon County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Allentown-Bethlehem-Easton, PA		
MSA or CMSA: Allentown-Bethlehem-Easton, PA		
Justification: The Allentown-Bethlehem, PA 8-hour ozone nonattainment area consists of Carbon, County, PA, Lehigh County, PA and Northampton County, PA. These three counties make up the Allentown-Bethlehem MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 58,802	VOC (tpy): 3,507	%drive to work: 73 Allentown--Bethlehem--Eas
1990-2000 growth: 3.4%	NOx (tpy): 4,176	Wind direction: not considered
2000-2010 growth: 9.4%	1999 Veh. mi. travelled (mln): 754	Topographical features: not considered

Centre County, Pennsylvania

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2004 Designation: Nonattainment		County design value: 88
Area: State College, PA		
MSA or CMSA: State College, PA		
Justification: The State College, PA 8-hour ozone nonattainment area is a single county nonattainment area consisting of Centre County. The 1State College MSA consists of Centre County, PA. The State recommended this county as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 135,758	VOC (tpy): 6,706	%drive to work: 92 State College, PA MSA
1990-2000 growth: 9.7%	NOx (tpy): 9,219	Wind direction: not considered
2000-2010 growth: 8.3%	1999 Veh. mi. travelled (mln): 1,254	Topographical features: not considered

Chester County, Pennsylvania

2004 Designation: Nonattainment		County design value: 98
Area: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Pennsylvania portion of the Philadelphia nonattainment area includes the following counties: Bucks County, Chester County, Delaware County, Montgomery County, and Philadelphia County. The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 433,501	VOC (tpy): 19,171	%drive to work: 95 Philadelphia--Wilmington-
1990-2000 growth: 15.2%	NOx (tpy): 17,442	Wind direction: not considered
2000-2010 growth: 10.1%	1999 Veh. mi. travelled (mln): 3,046	Topographical features: not considered

Clarion County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 41,765	VOC (tpy): 3,176	%drive to work: 5 Pittsburgh, PA MSA
1990-2000 growth: 0.1%	NOx (tpy): 4,157	Wind direction: not considered
2000-2010 growth: -0.0%	1999 Veh. mi. travelled (mln): 604	Topographical features: not considered

Clearfield County, Pennsylvania

2004 Designation: Nonattainment		County design value: 90
Area: Clearfield & Indiana Cos., PA		

MSA or CMSA: - outside -		
Justification: The Clearfield - Indiana, PA 8-hour ozone nonattainment area is a two county nonattainment area. Clearfield County is not part of a C/MSA or MSA (OMB 1999) but has a violating ozone monitor. Indiana County, PA is also not part of a C/MSA or MSA (OMB 1999) and it is a county without an ozone monitor. It is located adjacent to three areas with monitors that are violating the ozone standard (Pittsburgh, Clearfield, and Cambria) and has relatively high NOx emissions making Indiana County a contributor to downwind ozone air quality. Therefore, Indiana County is being added to Clearfield County to make up the Clearfield-Indiana, PA 8-hour ozone nonattainment area.		
2000 Population: 83,382	VOC (tpy): 5,401	%drive to work: 1 Johnstown, PA MSA
1990-2000 growth: 6.8%	NOx (tpy): 12,580	Wind direction: not considered
2000-2010 growth: -11.9%	1999 Veh. mi. travelled (mln): 1,034	Topographical features: not considered

Clinton County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 37,914	VOC (tpy): 2,833	%drive to work: 11 State College, PA MSA
1990-2000 growth: 2.0%	NOx (tpy): 4,363	Wind direction: not considered
2000-2010 growth: 3.1%	1999 Veh. mi. travelled (mln): 500	Topographical features: not considered

Columbia County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Scranton-Wilkes-Barre-Hazleton, PA		
Justification: EPA is designating Lackawanna, Luzerne, and Wyoming Counties in the MSA (OMB 1999) as nonattainment and adjacent Monroe County. Monroe County does not have a monitor that is violating the ozone standard; however, EPA is including Monroe County because it was part of the Scranton-Wilkes Barre 1-hour ozone nonattainment area and its mobile emissions, population and growth data indicate that it is contributing to the nonattainment area. Although Columbia County was also part of the 1-hour ozone nonattainment area, EPA is not designating it as nonattainment because, in EPA's assessment using the 11 guidance criteria, it does not have the nonattainment characteristics of the other nonattainment counties. For example, Columbia County's total VOC and NOx emissions and 2001 population values are less than half of the mean for the new 8-hour ozone nonattainment area. Columbia County does not have a monitor that is violating the ozone standard and, as judged by its values for the 11 guidance criteria, is not contributing to the nonattainment area.		
2000 Population: 64,151	VOC (tpy): 3,806	%drive to work: 83 Scranton--Wilkes-

		Barre--H
1990-2000 growth: 1.5%	NOx (tpy): 3,289	Wind direction: not considered
2000-2010 growth: -4.5%	1999 Veh. mi. travelled (mln): 638	Topographical features: not considered

Crawford County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 90,366	VOC (tpy): 5,959	%drive to work: 11 Erie, PA MSA
1990-2000 growth: 4.9%	NOx (tpy): 8,009	Wind direction: not considered
2000-2010 growth: -0.1%	1999 Veh. mi. travelled (mln): 968	Topographical features: not considered

Cumberland County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Harrisburg-Lebanon-Carlisle, PA		
MSA or CMSA: Harrisburg-Lebanon-Carlisle, PA		
Justification: The Harrisburg-Carlisle 8-hour ozone nonattainment area has monitors that are violating the standard. It consists of Cumberland, Dauphin, Lebanon, and Perry Counties, which make up the entire Harrisburg-Carlisle MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 213,674	VOC (tpy): 12,456	%drive to work: 91 Harrisburg--Lebanon--Carl
1990-2000 growth: 9.4%	NOx (tpy): 14,635	Wind direction: not considered
2000-2010 growth: 16.9%	1999 Veh. mi. travelled (mln): 2,562	Topographical features: not considered

Dauphin County, Pennsylvania

2004 Designation: Nonattainment		County design value: 88
Area: Harrisburg-Lebanon-Carlisle, PA		
MSA or CMSA: Harrisburg-Lebanon-Carlisle, PA		
Justification: The Harrisburg-Carlisle 8-hour ozone nonattainment area has monitors that are violating the standard. It consists of Cumberland, Dauphin, Lebanon, and Perry Counties, which make up the entire Harrisburg-Carlisle MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 251,798	VOC (tpy): 15,029	%drive to work: 93 Harrisburg--Lebanon--Carl
1990-2000 growth: 5.9%	NOx (tpy): 14,197	Wind direction: not considered

2000-2010 growth: 5.0%	1999 Veh. mi. travelled (mln): 2,846	Topographical features: not considered
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Delaware County, Pennsylvania

2004 Designation: Nonattainment		County design value: 92
Area: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Pennsylvania portion of the Philadelphia nonattainment area includes the following counties: Bucks County, Chester County, Delaware County, Montgomery County, and Philadelphia County. The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 550,864	VOC (tpy): 21,380	%drive to work: 98 Philadelphia-- Wilmington-
1990-2000 growth: 0.6%	NOx (tpy): 30,899	Wind direction: not considered
2000-2010 growth: 0.7%	1999 Veh. mi. travelled (mln): 3,373	Topographical features: not considered

Elk County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 35,112	VOC (tpy): 2,737	%drive to work: 0 Johnstown, PA MSA
1990-2000 growth: 0.7%	NOx (tpy): 3,419	Wind direction: not considered
2000-2010 growth: -11.1%	1999 Veh. mi. travelled (mln): 228	Topographical features: not considered

Erie County, Pennsylvania

2004 Designation: Nonattainment		County design value: 92
Area: Erie, PA		
MSA or CMSA: Erie, PA		
Justification: The Erie, PA 8-hour ozone nonattainment area is a single county nonattainment area. This county is a single county MSA with a monitor that is violating the standard.		
2000 Population: 280,843	VOC (tpy): 31,477	%drive to work: 96 Erie, PA MSA
1990-2000 growth: 1.9%	NOx (tpy): 18,820	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 2,372	Topographical features: not considered

Fayette County, Pennsylvania

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2004 Designation: Nonattainment		County design value: N/A
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: Pittsburgh, PA		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 148,644	VOC (tpy): 7,097	%drive to work: 92 Pittsburgh, PA MSA
1990-2000 growth: 2.3%	NOx (tpy): 7,147	Wind direction: not considered
2000-2010 growth: -7.3%	1999 Veh. mi. travelled (mln): 1,142	Topographical features: not considered

Franklin County, Pennsylvania

2004 Designation: Nonattainment		County design value: 93
Area: Franklin Co., PA		
MSA or CMSA: - outside -		
Justification: The Franklin, PA 8-hour ozone nonattainment area is a single county nonattainment area. This county is not part of a C/MSA or MSA but has a monitor that is violating the standard.		
2000 Population: 129,313	VOC (tpy): 7,891	%drive to work: 6 Harrisburg--Lebanon--Carl
1990-2000 growth: 6.8%	NOx (tpy): 6,789	Wind direction: not considered
2000-2010 growth: 1.7%	1999 Veh. mi. travelled (mln): 1,406	Topographical features: not considered

Fulton County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 14,261	VOC (tpy): 1,645	%drive to work: 2 Harrisburg--Lebanon--Carl
1990-2000 growth: 3.1%	NOx (tpy): 2,285	Wind direction: not considered
2000-2010 growth: 12.2%	1999 Veh. mi. travelled (mln): 486	Topographical features: not considered

Greene County, Pennsylvania

2004 Designation: Nonattainment		County design value: 89
Area: Greene Co., PA		

MSA or CMSA: - outside -		
Justification: The Greene, PA 8-hour ozone nonattainment area is single county nonattainment area. This county is not part of a C/MSA or MSA but has a monitor that is violating the standard.		
2000 Population: 40,672	VOC (tpy): 2,890	%drive to work: 24 Pittsburgh, PA MSA
1990-2000 growth: 2.8%	NOx (tpy): 24,670	Wind direction: not considered
2000-2010 growth: 2.6%	1999 Veh. mi. travelled (mln): 541	Topographical features: not considered

Huntingdon County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 45,586	VOC (tpy): 2,687	%drive to work: 10 State College, PA MSA
1990-2000 growth: 3.2%	NOx (tpy): 2,826	Wind direction: not considered
2000-2010 growth: 6.0%	1999 Veh. mi. travelled (mln): 384	Topographical features: not considered

Indiana County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Clearfield & Indiana Cos., PA		
MSA or CMSA: - outside -		
Justification: The Clearfield - Indiana, PA 8-hour ozone nonattainment area is a two county nonattainment area. Clearfield County is not part of a C/MSA or MSA (OMB 1999) but has a monitor that is violating the standard. Indiana County, PA is also not part of a C/MSA or MSA (OMB 1999) and it is a county without an ozone monitor. It is located adjacent to three areas with monitors that are violating the ozone standard (Pittsburgh, Clearfield, and Cambria) and has relatively high NOx emissions making Indiana County a contributor to downwind ozone air quality. Therefore, Indiana County is being added to Clearfield County to make up the Clearfield-Indiana, PA 8-hour ozone nonattainment area.		
2000 Population: 89,605	VOC (tpy): 4,812	%drive to work: 11 Pittsburgh, PA MSA
1990-2000 growth: -0.4%	NOx (tpy): 54,146	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 726	Topographical features: not considered

Jefferson County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 45,932	VOC (tpy): 3,089	%drive to work: 1 Pittsburgh, PA MSA
1990-2000 growth: -0.3%	NOx (tpy): 4,147	Wind direction: not considered
2000-2010 growth: -8.4%	1999 Veh. mi. travelled (mln): 573	Topographical features: not considered

Juniata County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 22,821	VOC (tpy): 1,411	%drive to work: 26 Harrisburg--Lebanon--Carl
1990-2000 growth: 10.6%	NOx (tpy): 1,935	Wind direction: not considered
2000-2010 growth: -8.0%	1999 Veh. mi. travelled (mln): 201	Topographical features: not considered

Lackawanna County, Pennsylvania

2004 Designation: Nonattainment		County design value: 85
Area: Scranton-Wilkes-Barre, PA		
MSA or CMSA: Scranton-Wilkes-Barre-Hazleton, PA		
<p>Justification: EPA is designating Lackawanna, Luzerne, and Wyoming Counties in the MSA (OMB 1999) as nonattainment and adjacent Monroe County. Monroe County does not have a monitor that is violating the ozone standard; however, EPA is including Monroe County because it was part of the Scranton-Wilkes Barre 1-hour ozone nonattainment area and its mobile emissions, population and growth data indicate that it is contributing to the nonattainment area. Although Columbia County was also part of the 1-hour ozone nonattainment area, EPA is not designating it as nonattainment because, in EPA's assessment using the 11 guidance criteria, it does not have the nonattainment characteristics of the other nonattainment counties. For example, Columbia County's total VOC and NOx emissions and 2001 population values are less than half of the mean for the new 8-hour ozone nonattainment area. Columbia County does not have a monitor that is violating the ozone standard and, as judged by its values for the 11 guidance criteria, is not contributing to the nonattainment area.</p> <p>The State recommended Lackawanna, Luzerne and Wyoming Counties as nonattainment. EPA agrees with the State's recommendation for these counties.</p>		
2000 Population: 213,295	VOC (tpy): 10,817	%drive to work: 92 Scranton--Wilkes-Barre--H
1990-2000 growth: -2.6%	NOx (tpy): 8,650	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	

2000-2010 growth: -0.9%	1,842	Topographical features: not considered
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Lancaster County, Pennsylvania

2004 Designation: Nonattainment		County design value: 92
Area: Lancaster, PA		
MSA or CMSA: Lancaster, PA		
Justification: The Lancaster 8-hour ozone nonattainment area consists of Lancaster County, PA. The State recommended the county as nonattainment. EPA agrees with the State's recommendation. The 1999 Lancaster MSA is a single county MSA.		
2000 Population: 470,658	VOC (tpy): 28,256	%drive to work: 87 Lancaster, PA MSA
1990-2000 growth: 11.3%	NOx (tpy): 21,727	Wind direction: not considered
2000-2010 growth: 14.9%	1999 Veh. mi. travelled (mln): 3,922	Topographical features: not considered

Lawrence County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. Based on an analysis of the data for this county, EPA concludes that it does not contribute to a violation at a nearby monitor.		
2000 Population: 94,643	VOC (tpy): 5,176	%drive to work: 18 Pittsburgh, PA MSA
1990-2000 growth: -1.7%	NOx (tpy): 12,090	Wind direction: not considered
2000-2010 growth: -8.7%	1999 Veh. mi. travelled (mln): 824	Topographical features: not considered

Lebanon County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Harrisburg-Lebanon-Carlisle, PA		
MSA or CMSA: Harrisburg-Lebanon-Carlisle, PA		
Justification: The Harrisburg-Carlisle 8-hour ozone nonattainment area has monitors that are violating the standard. It consists of Cumberland, Dauphin, Lebanon, and Perry Counties, which make up the entire Harrisburg-Carlisle MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 120,327	VOC (tpy): 7,241	%drive to work: 87 Harrisburg--Lebanon--Carl
1990-2000 growth: 5.8%	NOx (tpy): 6,619	Wind direction: not considered
2000-2010 growth: 5.1%	1999 Veh. mi. travelled (mln): 1,136	Topographical features: not considered

Lehigh County, Pennsylvania

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2004 Designation: Nonattainment		County design value: 91
Area: Allentown-Bethlehem-Easton, PA		
MSA or CMSA: Allentown-Bethlehem-Easton, PA		
Justification: The Allentown-Bethlehem, PA 8-hour ozone nonattainment area consists of Carbon, County, PA, Lehigh County, PA and Northampton County, PA. These three counties make up the Allentown-Bethlehem MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 312,090	VOC (tpy): 15,639	%drive to work: 87 Allentown--Bethlehem--Eas
1990-2000 growth: 7.2%	NOx (tpy): 12,684	Wind direction: not considered
2000-2010 growth: 2.6%	1999 Veh. mi. travelled (mln): 2,652	Topographical features: not considered

Luzerne County, Pennsylvania

2004 Designation: Nonattainment		County design value: 86
Area: Scranton-Wilkes-Barre, PA		
MSA or CMSA: Scranton-Wilkes-Barre-Hazleton, PA		
Justification: EPA is designating Lackawanna, Luzerne, and Wyoming Counties in the MSA (OMB 1999) as nonattainment and adjacent Monroe County. Monroe County does not have a monitor that is violating the ozone standard; however, EPA is including Monroe County because it was part of the Scranton-Wilkes Barre 1-hour ozone nonattainment area and its mobile emissions, population and growth data indicate that it is contributing to the nonattainment area. Although Columbia County was also part of the 1-hour ozone nonattainment area, EPA is not designating it as nonattainment because, in EPA's assessment using the 11 guidance criteria, it does not have the nonattainment characteristics of the other nonattainment counties. For example, Columbia County's total VOC and NOx emissions and 2001 population values are less than half of the mean for the new 8-hour ozone nonattainment area. Columbia County does not have a monitor that is violating the ozone standard and, as judged by its values for the 11 guidance criteria, is not contributing to the nonattainment area.		
The State recommended Lackawanna, Luzerne and Wyoming Counties as nonattainment. EPA agrees with the State's recommendation for these counties.		
2000 Population: 319,250	VOC (tpy): 16,577	%drive to work: 94 Scranton--Wilkes-Barre--H
1990-2000 growth: -2.7%	NOx (tpy): 14,747	Wind direction: not considered
2000-2010 growth: 1.6%	1999 Veh. mi. travelled (mln): 2,934	Topographical features: not considered

Lycoming County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: Williamsport, PA		
Justification: There are two ozone monitors in this county. One monitor has two years of monitoring data, 2002 and 2003. In 2002, the 4th highest ozone reading was 91 parts per billion (ppb). In 2003, the 4th highest ozone reading was 83 ppb. The second ozone monitor with is measuring attainment of		

the ozone standard. In making designations and classifications, we use the most recent three years of air quality monitoring data. Therefore, EPA is designating this county as unclassifiable/attainment.

2000 Population: 120,044	VOC (tpy): 8,090	%drive to work: 1 Scranton--Wilkes-Barre--H
1990-2000 growth: 1.1%	NOx (tpy): 5,503	Wind direction: not considered
2000-2010 growth: 3.4%	1999 Veh. mi. travelled (mln): 1,106	Topographical features: not considered

Mercer County, Pennsylvania

2004 Designation: Nonattainment		County design value: 94
Area: Youngstown-Warren-Sharon, PA-OH		
MSA or CMSA: Sharon, PA		
Justification: The Youngstown-Warren-Sharon OH-PA 8-hour ozone nonattainment area consists of three Ohio counties (Trumbull, Mahoning and Columbiana) and one Pennsylvania county (Mercer). It has a monitor that is violating the standard and was recommended by the State for designation in a nonattainment area with the Ohio counties. EPA agrees with the State's recommendation.		
2000 Population: 120,293	VOC (tpy): 8,511	%drive to work: 8 Youngstown--Warren, OH MS
1990-2000 growth: -0.6%	NOx (tpy): 7,930	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 1,392	Topographical features: not considered

Mifflin County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 46,486	VOC (tpy): 2,625	%drive to work: 6 State College, PA MSA
1990-2000 growth: 0.6%	NOx (tpy): 3,134	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 388	Topographical features: not considered

Monroe County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Scranton-Wilkes-Barre, PA		
MSA or CMSA: - outside -		
Justification: EPA is designating Lackawanna, Luzerne, and Wyoming Counties in the MSA (OMB 1999) as nonattainment and adjacent Monroe County. Monroe County does not have a monitor that is violating the ozone standard; however, EPA is including Monroe County because it was part of the		

Scranton-Wilkes Barre 1-hour ozone nonattainment area and its mobile emissions, population and growth data indicate that it is contributing to the nonattainment area. Although Columbia County was also part of the 1-hour ozone nonattainment area, EPA is not designating it as nonattainment because, in EPA's assessment using the 11 guidance criteria, it does not have the nonattainment characteristics of the other nonattainment counties. For example, Columbia County's total VOC and NOx emissions and 2001 population values are less than half of the mean for the new 8-hour ozone nonattainment area. Columbia County does not have a monitor that is violating the ozone standard and, as judged by its values for the 11 guidance criteria, is not contributing to the nonattainment area.

2000 Population: 138,687	VOC (tpy): 7,255	%drive to work: 2 Scranton--Wilkes-Barre--H
1990-2000 growth: 44.9%	NOx (tpy): 6,721	Wind direction: not considered
2000-2010 growth: 24.1%	1999 Veh. mi. travelled (mln): 1,414	Topographical features: not considered

Montgomery County, Pennsylvania

2004 Designation: Nonattainment		County design value: 92
Area: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		
MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Pennsylvania portion of the Philadelphia nonattainment area includes the following counties: Bucks County, Chester County, Delaware County, Montgomery County, and Philadelphia County. The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 750,097	VOC (tpy): 34,922	%drive to work: 96 Philadelphia--Wilmington-
1990-2000 growth: 10.6%	NOx (tpy): 22,349	Wind direction: not considered
2000-2010 growth: -6.1%	1999 Veh. mi. travelled (mln): 4,509	Topographical features: not considered

Montour County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 18,236	VOC (tpy): 1,225	%drive to work: 14 Scranton--Wilkes-Barre--H
1990-2000 growth: 2.8%	NOx (tpy): 17,080	Wind direction: not considered
2000-2010 growth: 8.4%	1999 Veh. mi. travelled (mln): 231	Topographical features: not considered

Northampton County, Pennsylvania

2004 Designation: Nonattainment		County design value: 90
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Area: Allentown-Bethlehem-Easton, PA		
MSA or CMSA: Allentown-Bethlehem-Easton, PA		
Justification: The Allentown-Bethlehem, PA 8-hour ozone nonattainment area consists of Carbon, County, PA, Lehigh County, PA and Northampton County, PA. These three counties make up the Allentown-Bethlehem MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 267,066	VOC (tpy): 11,163	%drive to work: 79 Allentown--Bethlehem--Eas
1990-2000 growth: 8.1%	NOx (tpy): 22,854	Wind direction: not considered
2000-2010 growth: 7.5%	1999 Veh. mi. travelled (mln): 2,083	Topographical features: not considered

Northumberland County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 94,556	VOC (tpy): 6,229	%drive to work: 4 Harrisburg--Lebanon--Carl
1990-2000 growth: -2.3%	NOx (tpy): 4,416	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 807	Topographical features: not considered

Perry County, Pennsylvania

2004 Designation: Nonattainment		County design value: 87
Area: Harrisburg-Lebanon-Carlisle, PA		
MSA or CMSA: Harrisburg-Lebanon-Carlisle, PA		
Justification: The Harrisburg-Carlisle 8-hour ozone nonattainment area consists of Cumberland, Dauphin, Lebanon, and Perry Counties, which make up the entire Harrisburg-Carlisle MSA (OMB 1999). The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 43,602	VOC (tpy): 2,060	%drive to work: 94 Harrisburg--Lebanon--Carl
1990-2000 growth: 5.9%	NOx (tpy): 2,868	Wind direction: not considered
2000-2010 growth: 21.1%	1999 Veh. mi. travelled (mln): 391	Topographical features: not considered

Philadelphia County, Pennsylvania

2004 Designation: Nonattainment		County design value: 97
Area: Philadelphia-Wilmin-Atlantic Ci, PA-NJ-MD-DE		

MSA or CMSA: Philadelphia-Wilmin-Atlantic Ci,PA-NJ-MD-DE		
Justification: The Pennsylvania portion of the Philadelphia nonattainment area includes the following counties: Bucks County, Chester County, Delaware County, Montgomery County, and Philadelphia County. The State recommended these counties as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 1,517,550	VOC (tpy): 55,837	%drive to work: 98 Philadelphia--Wilmington-
1990-2000 growth: -4.3%	NOx (tpy): 56,750	Wind direction: not considered
2000-2010 growth: -2.9%	1999 Veh. mi. travelled (mln): 9,805	Topographical features: not considered

Pike County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: New York-N. New Jersey-L.Island,NY-NJ-CT-PA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 46,302	VOC (tpy): 3,175	%drive to work: 74 New York--Northern New Je
1990-2000 growth: 65.6%	NOx (tpy): 3,230	Wind direction: not considered
2000-2010 growth: 29.7%	1999 Veh. mi. travelled (mln): 696	Topographical features: not considered

Schuylkill County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 150,336	VOC (tpy): 7,853	%drive to work: 9 Reading, PA MSA
1990-2000 growth: -1.5%	NOx (tpy): 8,337	Wind direction: not considered
2000-2010 growth: -1.3%	1999 Veh. mi. travelled (mln): 1,465	Topographical features: not considered

Snyder County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore,		

concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 37,546	VOC (tpy): 2,333	%drive to work: 5 Harrisburg--Lebanon-Carl
1990-2000 growth: 2.4%	NOx (tpy): 9,293	Wind direction: not considered
2000-2010 growth: 23.1%	1999 Veh. mi. travelled (mln): 322	Topographical features: not considered

Somerset County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnstown, PA		
Justification: The Johnstown 8-hour ozone nonattainment area consists of Cambria County, PA. Although the Johnstown MSA includes both Cambria and Somerset Counties, EPA has evaluated data for Somerset County and concludes that it should be designated unclassifiable/attainment because it is not contributing to a violation and does not have a monitor that is in violation of the ozone standard. Cambria County contains more than half of the total VOC and NOx emissions and more than half of the total population in the Johnstown MSA. Further, all of the utility emissions in this MSA are from Cambria County. The State recommended Cambria County as nonattainment. EPA agrees with the State's recommendation.		
2000 Population: 80,023	VOC (tpy): 5,036	%drive to work: 88 Johnstown, PA MSA
1990-2000 growth: 2.3%	NOx (tpy): 5,014	Wind direction: not considered
2000-2010 growth: -8.5%	1999 Veh. mi. travelled (mln): 912	Topographical features: not considered

Sullivan County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,556	VOC (tpy): 1,537	%drive to work: 7 Scranton--Wilkes-Barre--H
1990-2000 growth: 7.4%	NOx (tpy): 257	Wind direction: not considered
2000-2010 growth: 9.2%	1999 Veh. mi. travelled (mln): 40	Topographical features: not considered

Susquehanna County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 42,238	VOC (tpy): 4,274	%drive to work: 23 Scranton--Wilkes-Barre--H
1990-2000 growth: 4.6%	NOx (tpy): 2,746	Wind direction: not considered
2000-2010 growth: 8.8%	1999 Veh. mi. travelled (mln): 526	Topographical features: not considered

Tioga County, Pennsylvania

2004 Designation: Nonattainment		County design value: 86
Area: Tioga Co., PA		
MSA or CMSA: - outside -		
Justification: The Tioga County PA has a monitor that is violating the standard. The designated nonattainment area is a single county are consisting of Tioga County.		
2000 Population: 41,373	VOC (tpy): 2,706	%drive to work:
1990-2000 growth: 0.6%	NOx (tpy): 2,122	Wind direction: not considered
2000-2010 growth: 4.1%	1999 Veh. mi. travelled (mln): 317	Topographical features: not considered

Union County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 41,624	VOC (tpy): 3,344	%drive to work: 0 State College, PA MSA
1990-2000 growth: 15.1%	NOx (tpy): 2,280	Wind direction: not considered
2000-2010 growth: 6.8%	1999 Veh. mi. travelled (mln): 468	Topographical features: not considered

Venango County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 57,565	VOC (tpy): 4,501	%drive to work: 0 Youngstown--Warren, OH MS

1990-2000 growth: -3.0%	NOx (tpy): 4,038	Wind direction: not considered
2000-2010 growth: -7.7%	1999 Veh. mi. travelled (mln): 555	Topographical features: not considered

Warren County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 43,863	VOC (tpy): 4,657	%drive to work: 6 Erie, PA MSA
1990-2000 growth: -2.6%	NOx (tpy): 3,522	Wind direction: not considered
2000-2010 growth: -8.2%	1999 Veh. mi. travelled (mln): 346	Topographical features: not considered

Washington County, Pennsylvania

2004 Designation: Nonattainment		County design value: 89
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: Pittsburgh, PA		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 202,897	VOC (tpy): 10,072	%drive to work: 96 Pittsburgh, PA MSA
1990-2000 growth: -0.8%	NOx (tpy): 21,630	Wind direction: not considered
2000-2010 growth: -3.0%	1999 Veh. mi. travelled (mln): 2,024	Topographical features: not considered

Wayne County, Pennsylvania

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 47,722	VOC (tpy): 3,949	%drive to work: 18 Scranton--Wilkes-Barre--H
1990-2000 growth: 19.5%	NOx (tpy): 1,902	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

Westmoreland County, Pennsylvania

2004 Designation: Nonattainment		County design value: 91
Area: Pittsburgh-Beaver Valley, PA		
MSA or CMSA: Pittsburgh, PA		
Justification: The Pittsburgh 8-hour ozone nonattainment area consists of the following counties: Allegheny, Armstrong, Beaver, Butler, Fayette, Washington, and Westmoreland Counties. Together, these counties represent the entire Pittsburgh MSA (OMB 1999) with the addition of Armstrong County, which is not part of the MSA (OMB 1999) but was part of the Pittsburgh 1-hour ozone nonattainment area.		
2000 Population: 369,993	VOC (tpy): 18,529	%drive to work: 95 Pittsburgh, PA MSA
1990-2000 growth: -0.1%	NOx (tpy): 18,937	Wind direction: not considered
2000-2010 growth: -2.3%	1999 Veh. mi. travelled (mln): 3,191	Topographical features: not considered

Wyoming County, Pennsylvania

2004 Designation: Nonattainment		County design value: N/A
Area: Scranton-Wilkes-Barre, PA		
MSA or CMSA: Scranton-Wilkes-Barre-Hazleton, PA		
Justification: EPA is designating Lackawanna, Luzerne, and Wyoming Counties in the MSA (OMB 1999) as nonattainment and adjacent Monroe County. Monroe County does not have a monitor that is violating the ozone standard; however, EPA is including Monroe County because it was part of the Scranton-Wilkes Barre 1-hour ozone nonattainment area and its mobile emissions, population and growth data indicate that it is contributing to the nonattainment area. Although Columbia County was also part of the 1-hour ozone nonattainment area, EPA is not designating it as nonattainment because, in EPA's assessment using the 11 guidance criteria, it does not have the nonattainment characteristics of the other nonattainment counties. For example, Columbia County's total VOC and NOx emissions and 2001 population values are less than half of the mean for the new 8-hour ozone nonattainment area. Columbia County does not have a monitor that is violating the ozone standard and, as judged by its values for the 11 guidance criteria, is not contributing to the nonattainment area.		
The State recommended Lackawanna, Luzerne and Wyoming Counties as nonattainment. EPA agrees with the State's recommendation for these counties.		
2000 Population: 28,080	VOC (tpy): 2,201	%drive to work: 92 Scranton--Wilkes-Barre--H
1990-2000 growth: 0.0%	NOx (tpy): 2,150	Wind direction: not considered
2000-2010 growth: 25.3%	1999 Veh. mi. travelled (mln): 265	Topographical features: not considered

York County, Pennsylvania

2004 Designation: Nonattainment		County design value: 89
Area: York, PA		

MSA or CMSA: York, PA		
Justification: The Adams-York, PA 8-hour ozone nonattainment area consists of Adams County, PA and York County, PA. York County, PA is a single county MSA (OMB 1999). Adams County is being added to York to make up this nonattainment area. Adams County does not have a monitor that is violating the ozone standard but it is surrounded by counties with monitors that are violating the standard.		
2000 Population: 381,751	VOC (tpy): 24,348	%drive to work: 74 York, PA MSA
1990-2000 growth: 12.4%	NOx (tpy): 35,369	Wind direction: not considered
2000-2010 growth: 5.6%	1999 Veh. mi. travelled (mln): 3,284	Topographical features: not considered

Bristol County, Rhode Island

2004 Designation: Nonattainment		County design value: N/A
Area: Providence (all of RI), RI		
MSA or CMSA: Providence-Fall River-Warwick, RI-MA		
Justification: We agree with the State's recommendation that Bristol County should be included as part of the Providence (All of RI) nonattainment area. We are designating the full county as nonattainment.		
2000 Population: 50,648	VOC (tpy): 2,708	%drive to work: 76 Providence--Fall River--W
1990-2000 growth: 3.7%	NOx (tpy): 1,250	Wind direction: not considered
2000-2010 growth: -2.8%	1999 Veh. mi. travelled (mln): 272	Topographical features: not considered

Kent County, Rhode Island

2004 Designation: Nonattainment		County design value: 95
Area: Providence (all of RI), RI		
MSA or CMSA: Providence-Fall River-Warwick, RI-MA		
Justification: EPA agrees with the State's recommendation to include Kent County as part of the Providence nonattainment area.		
2000 Population: 167,090	VOC (tpy): 10,218	%drive to work: 85 Providence--Fall River--W
1990-2000 growth: 3.7%	NOx (tpy): 6,551	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 1,441	Topographical features: not considered

Newport County, Rhode Island

2004 Designation: Nonattainment		County design value: N/A
Area: Providence (all of RI), RI		
MSA or CMSA: Providence-Fall River-Warwick, RI-MA		
Justification: EPA agrees with the State's recommendation to include Newport County as part of the Providence nonattainment area.		

2000 Population: 85,433	VOC (tpy): 5,733	%drive to work: 12 Providence--Fall River--W
1990-2000 growth: -2.0%	NOx (tpy): 2,696	Wind direction: not considered
2000-2010 growth: 9.5%	1999 Veh. mi. travelled (mln): 596	Topographical features: not considered

Providence County, Rhode Island

2004 Designation: Nonattainment		County design value: 93
Area: Providence (all of RI), RI		
MSA or CMSA: Providence-Fall River-Warwick, RI-MA		
Justification: Full county covered. We agree with the State's recommendation.		
2000 Population: 621,602	VOC (tpy): 34,892	%drive to work: 82 Providence--Fall River--W
1990-2000 growth: 4.2%	NOx (tpy): 25,585	Wind direction: not considered
2000-2010 growth: -4.7%	1999 Veh. mi. travelled (mln): 4,819	Topographical features: not considered

Washington County, Rhode Island

2004 Designation: Nonattainment		County design value: 95
Area: Providence (all of RI), RI		
MSA or CMSA: Providence-Fall River-Warwick, RI-MA		
Justification: Full county is nonattainment. We agree with the state's recommendation.		
2000 Population: 123,546	VOC (tpy): 9,073	%drive to work: 28 Providence--Fall River--W
1990-2000 growth: 12.3%	NOx (tpy): 5,608	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 1,155	Topographical features: not considered

Abbeville County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 82
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: County is attaining based on 2001-2003. Justification provided to support small boundary, based on rural transport, as per section 107(b)(2). Area is not violating PM2.5.		
2000 Population: 26,167	VOC (tpy): 2,334	%drive to work: 21 Greenville--Spartanburg--
1990-2000 growth: 9.7%	NOx (tpy): 1,379	Wind direction: not considered
2000-2010 growth: -1.4%	1999 Veh. mi. travelled (mln): 244	Topographical features: not considered

Anderson County, South Carolina

2004 Designation: Nonattainment		County design value: 86
Area: Greenville-Spartanburg-Anderson, SC		
MSA or CMSA: Greenville-Spartanburg-Anderson, SC		
Justification: Anderson County has a violating monitor. We are designating all of Anderson County as part of the Greenville-Spartanburg nonattainment area. The effective date of the nonattainment designation for the Greenville area is being deferred because the area is participating in an early action compact.		
2000 Population: 165,740	VOC (tpy): 15,765	%drive to work: 94 Greenville--Spartanburg--
1990-2000 growth: 14.1%	NOx (tpy): 12,366	Wind direction: not considered
2000-2010 growth: 6.4%	1999 Veh. mi. travelled (mln): 1,949	Topographical features: not considered

Calhoun County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 15,185	VOC (tpy): 1,752	%drive to work: 35 Columbia, SC MSA
1990-2000 growth: 19.1%	NOx (tpy): 1,861	Wind direction: not considered
2000-2010 growth: -0.6%	1999 Veh. mi. travelled (mln): 372	Topographical features: not considered

Cherokee County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: Greenville-Spartanburg-Anderson, SC		
Justification: Cherokee County has a monitor which is showing attainment. This county does not contribute to nonattainment in nearby areas. EPA is designating Cherokee County attainment/unclassifiable.		
2000 Population: 52,537	VOC (tpy): 4,411	%drive to work: 89 Greenville--Spartanburg--
1990-2000 growth: 18.0%	NOx (tpy): 4,245	Wind direction: not considered
2000-2010 growth: 4.1%	1999 Veh. mi. travelled (mln): 690	Topographical features: not considered

Chester County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		

MSA or CMSA: - outside -		
Justification:		
2000 Population: 34,068	VOC (tpy): 4,258	%drive to work: 32 Charlotte--Gastonia--Rock
1990-2000 growth: 5.9%	NOx (tpy): 5,463	Wind direction: not considered
2000-2010 growth: 7.4%	1999 Veh. mi. travelled (mln): 579	Topographical features: not considered

Chesterfield County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 42,768	VOC (tpy): 4,696	%drive to work: 13 Charlotte--Gastonia--Rock
1990-2000 growth: 10.9%	NOx (tpy): 2,139	Wind direction: not considered
2000-2010 growth: - 0.4%	1999 Veh. mi. travelled (mln): 419	Topographical features: not considered

Fairfield County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 23,454	VOC (tpy): 2,844	%drive to work: 33 Columbia, SC MSA
1990-2000 growth: 5.2%	NOx (tpy): 2,393	Wind direction: not considered
2000-2010 growth: 3.2%	1999 Veh. mi. travelled (mln): 423	Topographical features: not considered

Greenville County, South Carolina

2004 Designation: Nonattainment		County design value: N/A
Area: Greenville-Spartanburg-Anderson, SC		
MSA or CMSA: Greenville-Spartanburg-Anderson, SC		
Justification: Greenville county does not have a monitor; however, it is located between two counties which both have violating monitors. Greenville County is the most populous of any county in the MSA. We are designating Greenville County as part of the Greenville nonattainment area. The effective date of the nonattainment designation for this area is deferred because it is participating in an early action compact.		
2000 Population: 379,616	VOC (tpy): 31,994	%drive to work: 97 Greenville--Spartanburg--

1990-2000 growth: 18.6%	NOx (tpy): 16,221	Wind direction: not considered
2000-2010 growth: 4.1%	1999 Veh. mi. travelled (mln): 3,397	Topographical features: not considered

Kershaw County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 52,647	VOC (tpy): 10,080	%drive to work: 30 Columbia, SC MSA
1990-2000 growth: 20.8%	NOx (tpy): 4,833	Wind direction: not considered
2000-2010 growth: 4.3%	1999 Veh. mi. travelled (mln): 751	Topographical features: not considered

Lancaster County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Lancaster County does not have a monitor and does not contribute to nonattainment in nearby areas. EPA is designating Lancaster County Unclassifiable/Attainment.		
2000 Population: 61,351	VOC (tpy): 3,821	%drive to work: 28 Charlotte--Gastonia--Rock
1990-2000 growth: 12.5%	NOx (tpy): 4,284	Wind direction: not considered
2000-2010 growth: -0.7%	1999 Veh. mi. travelled (mln): 604	Topographical features: not considered

Laurens County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 69,567	VOC (tpy): 5,749	%drive to work: 32 Greenville--Spartanburg--
1990-2000 growth: 19.8%	NOx (tpy): 5,320	Wind direction: not considered
2000-2010 growth: -0.2%	1999 Veh. mi. travelled (mln): 1,061	Topographical features: not considered

Lexington County, South Carolina

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2004 Designation: Nonattainment		County design value: N/A
Area: Columbia, SC		
MSA or CMSA: Columbia, SC		
Justification: Lexington county does not have a monitor. However, analysis indicates that the portion of the county nearest Columbia can contribute to nonattainment in the MSA. As recommended by the State, we are designating a portion of Lexington County as part of the Columbia nonattainment area. We are designating the remainder of the county as attainment/unclassifiable. The effective date of the nonattainment designation for this area is being deferred because it is participating in an early action compact.		
2000 Population: 216,014	VOC (tpy): 18,724	%drive to work: 94 Columbia, SC MSA
1990-2000 growth: 28.9%	NOx (tpy): 16,389	Wind direction: not considered
2000-2010 growth: 13.2%	1999 Veh. mi. travelled (mln): 2,399	Topographical features: not considered

Newberry County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Newberry County does not have a monitor and does not contribute to a violation in nearby areas. EPA is designating Newberry County Unclassifiable/Attainment.		
2000 Population: 36,108	VOC (tpy): 4,634	%drive to work: 21 Columbia, SC MSA
1990-2000 growth: 8.8%	NOx (tpy): 3,738	Wind direction: not considered
2000-2010 growth: 0.8%	1999 Veh. mi. travelled (mln): 661	Topographical features: not considered

Oconee County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Oconee County has a monitor that is not violating the 8-hour ozone standard. This county is not contributing to a violation in nearby areas. EPA is designating Oconee County Unclassifiable/Attainment.		
2000 Population: 66,215	VOC (tpy): 6,928	%drive to work: 26 Greenville--Spartanburg--
1990-2000 growth: 15.2%	NOx (tpy): 3,588	Wind direction: not considered
2000-2010 growth: 13.0%	1999 Veh. mi. travelled (mln): 690	Topographical features: not considered

Orangeburg County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 91,582	VOC (tpy): 10,254	%drive to work: 8 Columbia, SC MSA
1990-2000 growth: 8.0%	NOx (tpy): 14,784	Wind direction: not considered
2000-2010 growth: 0.7%	1999 Veh. mi. travelled (mln): 1,360	Topographical features: not considered

Pickens County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: Greenville-Spartanburg-Anderson, SC		
Justification: This county has a monitor which is not showing a violation. This county is not believed to be contributing to nonattainment in the nearby areas. We are designating Pickens County as attainment/unclassifiable.		
2000 Population: 110,757	VOC (tpy): 9,191	%drive to work: 93 Greenville--Spartanburg--
1990-2000 growth: 17.9%	NOx (tpy): 5,028	Wind direction: not considered
2000-2010 growth: 12.9%	1999 Veh. mi. travelled (mln): 986	Topographical features: not considered

Richland County, South Carolina

2004 Designation: Nonattainment		County design value: 89
Area: Columbia, SC		
MSA or CMSA: Columbia, SC		
Justification: Richland county has two monitors. One is violating the standard and the other is attaining the standard. Consistent with the State's recommendation, we are designating a portion of Richland County as part of the Columbia nonattainment area. The remaining portion of Richland County is being designated attainment/unclassifiable. As requested by the State, the county will be divided along the Metropolitan Planning Organization (MPO) lines. The effective date of the nonattainment designation for the Columbia area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 320,677	VOC (tpy): 26,094	%drive to work: 95 Columbia, SC MSA
1990-2000 growth: 12.2%	NOx (tpy): 26,490	Wind direction: not considered
2000-2010 growth: 2.6%	1999 Veh. mi. travelled (mln): 3,315	Topographical features: not considered

Saluda County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		

2000 Population: 19,181	VOC (tpy): 1,830	%drive to work: 26 Columbia, SC MSA
1990-2000 growth: 17.3%	NOx (tpy): 906	Wind direction: not considered
2000-2010 growth: -10.3%	1999 Veh. mi. travelled (mln): 157	Topographical features: not considered

Spartanburg County, South Carolina

2004 Designation: Nonattainment		County design value: 87
Area: Greenville-Spartanburg-Anderson, SC		
MSA or CMSA: Greenville-Spartanburg-Anderson, SC		
Justification: Spartanburg county has a violating monitor. We are designating the entire county as part of the Greenville nonattainment area. The effective date of the designation for the Greenville area will be deferred because it is participating in an early action compact.		
2000 Population: 253,791	VOC (tpy): 26,658	%drive to work: 96 Greenville--Spartanburg--
1990-2000 growth: 11.9%	NOx (tpy): 19,735	Wind direction: not considered
2000-2010 growth: 9.3%	1999 Veh. mi. travelled (mln): 3,275	Topographical features: not considered

Sumter County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Sumter, SC		
Justification:		
2000 Population: 104,646	VOC (tpy): 8,691	%drive to work: 6 Columbia, SC MSA
1990-2000 growth: 2.0%	NOx (tpy): 5,450	Wind direction: not considered
2000-2010 growth: 23.4%	1999 Veh. mi. travelled (mln): 1,102	Topographical features: not considered

Union County, South Carolina

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 29,881	VOC (tpy): 2,619	%drive to work: 29 Greenville--Spartanburg--
1990-2000 growth: -1.5%	NOx (tpy): 2,015	Wind direction: not considered
2000-2010 growth: 1.1%	1999 Veh. mi. travelled (mln): 287	Topographical features: not considered

York County, South Carolina

2004 Designation: Nonattainment		County design value: 84
Area: Charlotte-Gastonia-Rock Hill, NC-SC		
MSA or CMSA: Charlotte-Gastonia-Rock Hill, NC-SC		
Justification: The monitor in York county is attaining the standard. York County is a part of the Charlotte-Gastonia-Rock Hill MSA. We have examined the 11 factors and concluded that the part of the county nearest Charlotte is contributing to a violation in the MSA because of the amount of NOx and VOC emitted in the county and the number of people commuting into Charlotte from York County. The emission sources tend to be in the most populous areas of the county. Therefore, we are designating a portion of York County as part of the Charlotte nonattainment area. The remaining portion of the County is being designated attainment/unclassifiable.		
2000 Population: 164,614	VOC (tpy): 16,584	%drive to work: 94 Charlotte--Gastonia--Rock
1990-2000 growth: 25.2%	NOx (tpy): 12,271	Wind direction: not considered
2000-2010 growth: 12.3%	1999 Veh. mi. travelled (mln): 1,679	Topographical features: not considered

Anderson County, Tennessee

2004 Designation: Nonattainment		County design value: 87
Area: Knoxville, TN		
MSA or CMSA: Knoxville, TN		
Justification: EPA agrees with State recommendation to include Anderson County as part of the Knoxville nonattainment area. The county contains a violating monitor.		
2000 Population: 71,330	VOC (tpy): 5,343	%drive to work: 94 Knoxville, TN MSA
1990-2000 growth: 4.5%	NOx (tpy): 19,303	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 819	Topographical features: not considered

Bedford County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 37,586	VOC (tpy): 3,209	%drive to work: 17 Nashville, TN MSA
1990-2000 growth: 23.6%	NOx (tpy): 2,137	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 315	Topographical features: not considered

Bledsoe County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,367	VOC (tpy): 510	%drive to work: 15 Chattanooga, TN--GA MSA
1990-2000 growth: 27.9%	NOx (tpy): 471	Wind direction: not considered
2000-2010 growth: - 5.6%	1999 Veh. mi. travelled (mln): 105	Topographical features: not considered

Blount County, Tennessee

2004 Designation: Nonattainment		County design value: 92
Area: Knoxville, TN		
MSA or CMSA: Knoxville, TN		
Justification: Blount county contains a violating monitor, which is located in the portion of the county that is within the boundary of the Great Smoky Mountain National Park. We are designating Blount County as part of the Knoxville nonattainment area. See the 11 factor analysis for the Knoxville, TN MSA which contains Blount County. This 11 factor analysis is located in Chapter 6 of this Technical support document.		
2000 Population: 105,823	VOC (tpy): 8,202	%drive to work: 96 Knoxville, TN MSA
1990-2000 growth: 23.1%	NOx (tpy): 5,393	Wind direction: not considered
2000-2010 growth: 8.8%	1999 Veh. mi. travelled (mln): 1,111	Topographical features: not considered

Bradley County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 87,965	VOC (tpy): 7,434	%drive to work: 14 Chattanooga, TN--GA MSA
1990-2000 growth: 19.3%	NOx (tpy): 4,388	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 1,019	Topographical features: not considered

Campbell County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		

2000 Population: 39,854	VOC (tpy): 3,278	%drive to work: 32 Knoxville, TN MSA
1990-2000 growth: 13.6%	NOx (tpy): 3,460	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 749	Topographical features: not considered

Cannon County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,826	VOC (tpy): 681	%drive to work: 49 Nashville, TN MSA
1990-2000 growth: 22.5%	NOx (tpy): 563	Wind direction: not considered
2000-2010 growth: 8.0%	1999 Veh. mi. travelled (mln): 117	Topographical features: not considered

Carter County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: We are designating Carter County as attainment/unclassifiable. Our analysis of the 11 factors indicates that this county is not contributing to nonattainment in any nearby area. See the 11 factor analysis in chapter 6 of this document.		
2000 Population: 56,742	VOC (tpy): 4,801	%drive to work: 92 Johnson City--Kingsport--
1990-2000 growth: 10.2%	NOx (tpy): 2,246	Wind direction: not considered
2000-2010 growth: -5.5%	1999 Veh. mi. travelled (mln): 503	Topographical features: not considered

Cheatham County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Nashville, TN		
Justification: Cheatham county does not contain a monitor. We are designating Cheatham County as attainment/unclassifiable. Our analysis indicates that this county does not contribute to nonattainment in the Nashville MSA. See the 11 factor for the Nashville MSA in chapter 6 of this technical support document.		
2000 Population: 35,912	VOC (tpy): 2,595	%drive to work: 96 Nashville, TN MSA

1990-2000 growth: 32.3%	NOx (tpy): 2,207	Wind direction: not considered
2000-2010 growth: 38.5%	1999 Veh. mi. travelled (mln): 366	Topographical features: not considered

Claiborne County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 29,862	VOC (tpy): 2,411	%drive to work: 9 Knoxville, TN MSA
1990-2000 growth: 14.3%	NOx (tpy): 1,428	Wind direction: not considered
2000-2010 growth: 7.0%	1999 Veh. mi. travelled (mln): 259	Topographical features: not considered

Cocke County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Although there is no monitor in Cocke County, the small part of the county that lies within the Great Smoky Mountains National Park is being designated nonattainment. Several monitors on the Tennessee side of the Great Smoky Mountains National Park have shown violations.		
2000 Population: 33,565	VOC (tpy): 2,372	%drive to work: 19 Knoxville, TN MSA
1990-2000 growth: 15.2%	NOx (tpy): 2,583	Wind direction: not considered
2000-2010 growth: -2.3%	1999 Veh. mi. travelled (mln): 493	Topographical features: not considered

Coffee County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 48,014	VOC (tpy): 5,605	%drive to work: 10 Nashville, TN MSA
1990-2000 growth: 19.0%	NOx (tpy): 4,071	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 777	Topographical features: not considered

Crockett County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		

MSA or CMSA: - outside -		
Justification:		
2000 Population: 14,532	VOC (tpy): 993	%drive to work: 2 Memphis, TN--AR--MS MSA
1990-2000 growth: 8.6%	NOx (tpy): 914	Wind direction: not considered
2000-2010 growth: -3.1%	1999 Veh. mi. travelled (mln): 134	Topographical features: not considered

Davidson County, Tennessee

2004 Designation: Nonattainment		County design value: 77
Area: Nashville, TN		
MSA or CMSA: Nashville, TN		
Justification: Consistent with the state's recommendation, we are designating Davidson County as part of the Nashville nonattainment area. The effective date of the nonattainment designation for the Nashville area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 569,891	VOC (tpy): 36,682	%drive to work: 98 Nashville, TN MSA
1990-2000 growth: 11.6%	NOx (tpy): 38,238	Wind direction: not considered
2000-2010 growth: 0.8%	1999 Veh. mi. travelled (mln): 7,513	Topographical features: not considered

DeKalb County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 17,423	VOC (tpy): 1,805	%drive to work: 17 Nashville, TN MSA
1990-2000 growth: 21.3%	NOx (tpy): 666	Wind direction: not considered
2000-2010 growth: -0.8%	1999 Veh. mi. travelled (mln): 85	Topographical features: not considered

Dickson County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Nashville, TN		
Justification: Dickson county does not contain a monitor. We are designating Dickson County as attainment/unclassifiable. Analysis indicates that this county does not contribute to nonattainment in the Nashville MSA. See the 11 factor analysis for the Nashville MSA which is located in chapter 6 of this technical support document.		
2000 Population: 43,156	VOC (tpy): 5,418	%drive to work: 93 Nashville, TN MSA

1990-2000 growth: 23.1%	NOx (tpy): 3,124	Wind direction: not considered
2000-2010 growth: 24.2%	1999 Veh. mi. travelled (mln): 536	Topographical features: not considered

Fayette County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Memphis, TN-AR-MS		
Justification: Fayette county does not have a monitor. The emissions from the Fayette county do not contribute to nonattainment in the Memphis MSA. See the 11 factor analysis for the Memphis MSA which is in chapter 6 of this technical support document.		
2000 Population: 28,806	VOC (tpy): 3,336	%drive to work: 96 Memphis, TN--AR--MS MSA
1990-2000 growth: 12.7%	NOx (tpy): 3,096	Wind direction: not considered
2000-2010 growth: 11.9%	1999 Veh. mi. travelled (mln): 500	Topographical features: not considered

Franklin County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 39,270	VOC (tpy): 3,210	%drive to work: 1 Chattanooga, TN--GA MSA
1990-2000 growth: 13.1%	NOx (tpy): 2,077	Wind direction: not considered
2000-2010 growth: 3.1%	1999 Veh. mi. travelled (mln): 349	Topographical features: not considered

Grainger County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 20,659	VOC (tpy): 1,604	%drive to work: 27 Knoxville, TN MSA
1990-2000 growth: 20.8%	NOx (tpy): 896	Wind direction: not considered
2000-2010 growth: 5.0%	1999 Veh. mi. travelled (mln): 193	Topographical features: not considered

Greene County, Tennessee

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 62,909	VOC (tpy): 5,990	%drive to work: 8 Johnson City--Kingsport--
1990-2000 growth: 12.6%	NOx (tpy): 4,375	Wind direction: not considered
2000-2010 growth: - 0.5%	1999 Veh. mi. travelled (mln): 959	Topographical features: not considered

Grundy County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 14,332	VOC (tpy): 1,181	%drive to work: 20 Chattanooga, TN--GA MSA
1990-2000 growth: 7.3%	NOx (tpy): 1,029	Wind direction: not considered
2000-2010 growth: 7.2%	1999 Veh. mi. travelled (mln): 225	Topographical features: not considered

Hamblen County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 58,128	VOC (tpy): 21,588	%drive to work: 2 Johnson City--Kingsport--
1990-2000 growth: 15.2%	NOx (tpy): 5,156	Wind direction: not considered
2000-2010 growth: - 3.4%	1999 Veh. mi. travelled (mln): 606	Topographical features: not considered

Hamilton County, Tennessee

2004 Designation: Nonattainment		County design value: 88
Area: Chattanooga, TN-GA		
MSA or CMSA: Chattanooga, TN-GA		
Justification: Hamilton county has a violating monitor. Consistent with the State's recommendation, we are including Hamilton County as part of the Chattanooga nonattainment area.		

2000 Population: 307,896	VOC (tpy): 27,103	%drive to work: 94 Chattanooga, TN--GA MSA
1990-2000 growth: 7.8%	NOx (tpy): 20,062	Wind direction: not considered
2000-2010 growth: - 0.7%	1999 Veh. mi. travelled (mln): 3,609	Topographical features: not considered

Hancock County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 6,786	VOC (tpy): 401	%drive to work: 7 Johnson City-- Kingsport--
1990-2000 growth: 0.7%	NOx (tpy): 217	Wind direction: not considered
2000-2010 growth: 2.1%	1999 Veh. mi. travelled (mln): 45	Topographical features: not considered

Hardeman County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 28,105	VOC (tpy): 2,283	%drive to work: 15 Memphis, TN--AR--MS MSA
1990-2000 growth: 20.2%	NOx (tpy): 4,744	Wind direction: not considered
2000-2010 growth: - 11.5%	1999 Veh. mi. travelled (mln): 224	Topographical features: not considered

Hawkins County, Tennessee

2004 Designation: Nonattainment		County design value: N/A
Area: Johnson City-Kingsport-Bristol, TN		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: Hawkins county contains a large amount of NOx emissions, largely due to a power plant, which contributes to nonattainment in the area. See the 11 factor analysis contained in chapter 6 of this technical support document. We are designating Hawkins County as part of the Johnson City nonattainment area. The effective date of the nonattainment designation for the Johnson City area will be deferred because this area is participating in an Early Action Compact.		
2000 Population: 53,563	VOC (tpy): 5,899	%drive to work: 83 Johnson City-- Kingsport--
1990-2000 growth: 20.2%	NOx (tpy): 17,952	Wind direction: not considered

2000-2010 growth: 1.8%	1999 Veh. mi. travelled (mln): 449	Topographical features: not considered
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Haywood County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: 81
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county has a monitor and is attaining based on 2001-2003 data. The county is not contributing to a violation in nearby areas. Based on an analysis of the 11 factors for this county, we are designating Haywood as Unclassifiable/Attainment.		
2000 Population: 19,797	VOC (tpy): 2,286	%drive to work: 12 Memphis, TN--AR--MS MSA
1990-2000 growth: 1.9%	NOx (tpy): 5,307	Wind direction: not considered
2000-2010 growth: 3.9%	1999 Veh. mi. travelled (mln): 441	Topographical features: not considered

Hickman County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 22,295	VOC (tpy): 1,328	%drive to work: 49 Nashville, TN MSA
1990-2000 growth: 33.1%	NOx (tpy): 5,065	Wind direction: not considered
2000-2010 growth: 11.6%	1999 Veh. mi. travelled (mln): 297	Topographical features: not considered

Houston County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 8,088	VOC (tpy): 573	%drive to work: 19 Nashville, TN MSA
1990-2000 growth: 15.2%	NOx (tpy): 931	Wind direction: not considered
2000-2010 growth: 9.2%	1999 Veh. mi. travelled (mln): 53	Topographical features: not considered

Humphreys County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification:		
2000 Population: 17,929	VOC (tpy): 4,307	%drive to work: 24 Nashville, TN MSA
1990-2000 growth: 13.5%	NOx (tpy): 25,424	Wind direction: not considered
2000-2010 growth: -0.0%	1999 Veh. mi. travelled (mln): 267	Topographical features: not considered

Jefferson County, Tennessee

2004 Designation: Nonattainment		County design value: 91
Area: Knoxville, TN		
MSA or CMSA: - outside -		
Justification: EPA agrees with State recommendation. The area has a monitor which is showing a violation of the 8-hour ozone standard.		
2000 Population: 44,294	VOC (tpy): 4,314	%drive to work: 32 Knoxville, TN MSA
1990-2000 growth: 34.1%	NOx (tpy): 3,333	Wind direction: not considered
2000-2010 growth: 13.3%	1999 Veh. mi. travelled (mln): 657	Topographical features: not considered

Johnson County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 17,499	VOC (tpy): 1,034	%drive to work: 11 Johnson City--Kingsport--
1990-2000 growth: 27.1%	NOx (tpy): 789	Wind direction: not considered
2000-2010 growth: -0.3%	1999 Veh. mi. travelled (mln): 160	Topographical features: not considered

Knox County, Tennessee

2004 Designation: Nonattainment		County design value: 92
Area: Knoxville, TN		
MSA or CMSA: Knoxville, TN		
Justification: EPA agrees with the State recommendation to include Knox County as part of the Knoxville nonattainment area. Knox county contains a violating monitor.		
2000 Population: 382,032	VOC (tpy): 30,872	%drive to work: 96 Knoxville, TN MSA
1990-2000 growth: 13.8%	NOx (tpy): 24,176	Wind direction: not considered

2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 4,786	Topographical features: not considered
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Lauderdale County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 27,101	VOC (tpy): 4,428	%drive to work: 20 Memphis, TN--AR--MS MSA
1990-2000 growth: 15.4%	NOx (tpy): 3,155	Wind direction: not considered
2000-2010 growth: - 4.7%	1999 Veh. mi. travelled (mln): 222	Topographical features: not considered

Loudon County, Tennessee

2004 Designation: Nonattainment		County design value: N/A
Area: Knoxville, TN		
MSA or CMSA: Knoxville, TN		
Justification: EPA agrees with State recommendation and is designating Loudon County as Nonattainment. See the 11 factor analysis for the Knoxville MSA in chapter 6 of this technical support document.		
2000 Population: 39,086	VOC (tpy): 5,320	%drive to work: 87 Knoxville, TN MSA
1990-2000 growth: 25.1%	NOx (tpy): 5,997	Wind direction: not considered
2000-2010 growth: 15.0%	1999 Veh. mi. travelled (mln): 673	Topographical features: not considered

McMinn County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 49,015	VOC (tpy): 6,638	%drive to work: 3 Knoxville, TN MSA
1990-2000 growth: 15.6%	NOx (tpy): 10,571	Wind direction: not considered
2000-2010 growth: -0.7%	1999 Veh. mi. travelled (mln): 729	Topographical features: not considered

Macon County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		

2000 Population: 20,386	VOC (tpy): 1,120	%drive to work: 33 Nashville, TN MSA
1990-2000 growth: 28.2%	NOx (tpy): 1,751	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 142	Topographical features: not considered

Madison County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Jackson, TN		
Justification:		
2000 Population: 91,837	VOC (tpy): 10,851	%drive to work: 1 Memphis, TN--AR--MS MSA
1990-2000 growth: 17.8%	NOx (tpy): 5,878	Wind direction: not considered
2000-2010 growth: 3.3%	1999 Veh. mi. travelled (mln): 1,216	Topographical features: not considered

Marion County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Chattanooga, TN-GA		
Justification: Marion County does not contribute to nonattainment in a nearby area. See 11 factor analysis in chapter 6 of this document. We are designating Marion County attainment/unclassifiable.		
2000 Population: 27,776	VOC (tpy): 2,736	%drive to work: 85 Chattanooga, TN--GA MSA
1990-2000 growth: 11.7%	NOx (tpy): 3,272	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 601	Topographical features: not considered

Marshall County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 26,767	VOC (tpy): 3,245	%drive to work: 16 Nashville, TN MSA
1990-2000 growth: 24.3%	NOx (tpy): 2,579	Wind direction: not considered
2000-2010 growth: 22.4%	1999 Veh. mi. travelled (mln): 352	Topographical features: not considered

Maury County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 69,498	VOC (tpy): 6,947	%drive to work: 23 Nashville, TN MSA
1990-2000 growth: 26.8%	NOx (tpy): 5,639	Wind direction: not considered
2000-2010 growth: 12.1%	1999 Veh. mi. travelled (mln): 896	Topographical features: not considered

Meigs County, Tennessee

2004 Designation: Nonattainment		County design value: 88
Area: Chattanooga, TN-GA		
MSA or CMSA: - outside -		
Justification: Meigs county has a violating monitor. We are including Meigs County as part of the Chattanooga nonattainment area.		
2000 Population: 11,086	VOC (tpy): 874	%drive to work: 12 Chattanooga, TN--GA MSA
1990-2000 growth: 38.0%	NOx (tpy): 882	Wind direction: not considered
2000-2010 growth: 4.2%	1999 Veh. mi. travelled (mln): 97	Topographical features: not considered

Monroe County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 38,961	VOC (tpy): 3,349	%drive to work: 18 Knoxville, TN MSA
1990-2000 growth: 27.6%	NOx (tpy): 2,411	Wind direction: not considered
2000-2010 growth: -3.6%	1999 Veh. mi. travelled (mln): 417	Topographical features: not considered

Montgomery County, Tennessee

2004 Designation: Nonattainment		County design value: N/A
Area: Clarkesville-Hopkinsville, TN-KY		
MSA or CMSA: Clarksville-Hopkinsville, TN-KY		

Justification: The population and emissions in Montgomery County are comparable to that of the adjacent Christian County, which has a violating monitor, and indicate that Montgomery County contributes to nonattainment in the Clarksville-Hopkinsville TN-KY MSA. See the 11 factor analysis for Clarksville-Hopkinsville TN-KY which is located in Chapter 6 of this technical support document.

2000 Population: 134,768	VOC (tpy): 8,202	%drive to work: 86 Clarksville--Hopkinsville
1990-2000 growth: 34.1%	NOx (tpy): 5,709	Wind direction: not considered
2000-2010 growth: 21.6%	1999 Veh. mi. travelled (mln): 1,216	Topographical features: not considered

Morgan County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 19,757	VOC (tpy): 901	%drive to work: 34 Knoxville, TN MSA
1990-2000 growth: 14.2%	NOx (tpy): 1,239	Wind direction: not considered
2000-2010 growth: 5.1%	1999 Veh. mi. travelled (mln): 178	Topographical features: not considered

Polk County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 16,050	VOC (tpy): 922	%drive to work: 0
1990-2000 growth: 17.6%	NOx (tpy): 894	Wind direction: not considered
2000-2010 growth: -0.8%	1999 Veh. mi. travelled (mln): 144	Topographical features: not considered

Rhea County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 28,400	VOC (tpy): 3,421	%drive to work: 15 Chattanooga, TN--GA MSA
1990-2000 growth: 16.7%	NOx (tpy): 2,586	Wind direction: not considered
2000-2010 growth:	1999 Veh. mi. travelled (mln):	Topographical features: not considered

8.7%

259

Roane County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Roane County does not contain a monitor. Although the county has a power plant, the facility will be well-controlled. SCR will be installed and operational in 2004 on 6 of the 9 units at the Kingston Power Plant achieving significant NOx reductions.		
2000 Population: 51,910	VOC (tpy): 4,400	%drive to work: 42 Knoxville, TN MSA
1990-2000 growth: 9.9%	NOx (tpy): 30,867	Wind direction: not considered
2000-2010 growth: 4.9%	1999 Veh. mi. travelled (mln): 729	Topographical features: not considered

Robertson County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Nashville, TN		
Justification: Robertson County does not contain a monitor. Our analysis indicates that this county does not contribute to nonattainment in the Nashville MSA. See the 11 factor for the Nashville MSA which is located in chapter 6 of this technical support document. We are designating Robertson County as attainment/unclassifiable.		
2000 Population: 54,433	VOC (tpy): 5,485	%drive to work: 96 Nashville, TN MSA
1990-2000 growth: 31.2%	NOx (tpy): 4,461	Wind direction: not considered
2000-2010 growth: 16.0%	1999 Veh. mi. travelled (mln): 844	Topographical features: not considered

Rutherford County, Tennessee

2004 Designation: Nonattainment		County design value: 80
Area: Nashville, TN		
MSA or CMSA: Nashville, TN		
Justification: EPA agrees with State recommendation to include Rutherford County as part of the Nashville nonattainment area. The effective date for the nonattainment designation for the Nashville area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 182,023	VOC (tpy): 13,601	%drive to work: 96 Nashville, TN MSA
1990-2000 growth: 53.5%	NOx (tpy): 9,654	Wind direction: not considered
2000-2010 growth: 18.3%	1999 Veh. mi. travelled (mln): 1,971	Topographical features: not considered

Scott County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 21,127	VOC (tpy): 1,748	%drive to work: 8 Knoxville, TN MSA
1990-2000 growth: 15.1%	NOx (tpy): 1,320	Wind direction: not considered
2000-2010 growth: -3.1%	1999 Veh. mi. travelled (mln): 161	Topographical features: not considered

Sequatchie County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 11,370	VOC (tpy): 589	%drive to work: 39 Chattanooga, TN--GA MSA
1990-2000 growth: 28.3%	NOx (tpy): 300	Wind direction: not considered
2000-2010 growth: -1.5%	1999 Veh. mi. travelled (mln): 65	Topographical features: not considered

Sevier County, Tennessee

2004 Designation: Nonattainment		County design value: 92
Area: Knoxville, TN		
MSA or CMSA: Knoxville, TN		
Justification: This county contains a violating monitor (which is located within a part of the Great Smoky Mountains National Park within the county.) Consistent with the State's recommendation, we are designating Sevier County as part of the Knoxville nonattainment area.		
2000 Population: 71,170	VOC (tpy): 4,610	%drive to work: 96 Knoxville, TN MSA
1990-2000 growth: 39.4%	NOx (tpy): 2,907	Wind direction: not considered
2000-2010 growth: 15.3%	1999 Veh. mi. travelled (mln): 670	Topographical features: not considered

Shelby County, Tennessee

2004 Designation: Nonattainment		County design value: 89
Area: Memphis, TN-AR		
MSA or CMSA: Memphis, TN-AR-MS		
Justification: EPA agrees with State recommendation to include Shelby County as part of the Memphis nonattainment area. The County has a monitor showing nonattainment.		
2000 Population: 897,472	VOC (tpy): 69,366	%drive to work: 98 Memphis, TN--AR--MS MSA

1990-2000 growth: 8.6%	NOx (tpy): 73,785	Wind direction: not considered
2000-2010 growth: 5.2%	1999 Veh. mi. travelled (mln): 8,359	Topographical features: not considered

Smith County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 17,712	VOC (tpy): 2,092	%drive to work: 33 Nashville, TN MSA
1990-2000 growth: 25.2%	NOx (tpy): 1,850	Wind direction: not considered
2000-2010 growth: -0.5%	1999 Veh. mi. travelled (mln): 326	Topographical features: not considered

Stewart County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 12,370	VOC (tpy): 1,640	%drive to work: 38 Clarksville-- Hopkinsville
1990-2000 growth: 30.5%	NOx (tpy): 84,414	Wind direction: not considered
2000-2010 growth: 18.0%	1999 Veh. mi. travelled (mln): 112	Topographical features: not considered

Sullivan County, Tennessee

2004 Designation: Nonattainment		County design value: 86
Area: Johnson City-Kingsport-Bristol, TN		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: Sullivan County has a violating monitor. Consistent with the State's recommendation, we are including Sullivan County as part of the Johnson City nonattainment area. The effective date of the nonattainment designation for the Johnson City area will be deferred because the area is participating in and Early Action Compact (EAC).		
2000 Population: 153,048	VOC (tpy): 23,867	%drive to work: 97 Johnson City-- Kingsport--
1990-2000 growth: 6.6%	NOx (tpy): 25,353	Wind direction: not considered
2000-2010 growth: 2.3%	1999 Veh. mi. travelled (mln): 1,798	Topographical features: not considered

Sumner County, Tennessee

2004 Designation: Nonattainment		County design value: 86
Area: Nashville, TN		
MSA or CMSA: Nashville, TN		
Justification: EPA agrees with State recommendation to include Sumner County as part of the Nashville nonattainment area. Sumner County has a monitor showing nonattainment. The effective date of the nonattainment designation for the Nashville area will be deferred because the area is participating in an Early Action Compact.		
2000 Population: 130,449	VOC (tpy): 10,655	%drive to work: 96 Nashville, TN MSA
1990-2000 growth: 26.3%	NOx (tpy): 21,946	Wind direction: not considered
2000-2010 growth: 21.3%	1999 Veh. mi. travelled (mln): 1,375	Topographical features: not considered

Tipton County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Memphis, TN-AR-MS		
Justification: Tipton County does not have a monitor. Emissions from the county do not contribute to nonattainment in the Memphis MSA. See the 11 factor analysis for the Memphis MSA which is located in chapter 6 of this technical support document. We are designating Tipton County as attainment/unclassifiable.		
2000 Population: 51,271	VOC (tpy): 3,132	%drive to work: 95 Memphis, TN--AR--MS MSA
1990-2000 growth: 36.5%	NOx (tpy): 5,093	Wind direction: not considered
2000-2010 growth: 8.4%	1999 Veh. mi. travelled (mln): 447	Topographical features: not considered

Trousdale County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification:		
2000 Population: 7,259	VOC (tpy): 695	%drive to work: 56 Nashville, TN MSA
1990-2000 growth: 22.6%	NOx (tpy): 549	Wind direction: not considered
2000-2010 growth: 1.2%	1999 Veh. mi. travelled (mln): 67	Topographical features: not considered

Unicoi County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		

Justification: Consistent with the State's recommendation, we are designating Unicoi County as attainment/unclassifiable. Our analysis indicates that this county is not contributing to nonattainment in any nearby area. See the 11 factor analysis which is located in chapter six of this technical support document.

2000 Population: 17,667	VOC (tpy): 1,021	%drive to work: 94 Johnson City--Kingsport--
1990-2000 growth: 6.8%	NOx (tpy): 831	Wind direction: not considered
2000-2010 growth: 2.2%	1999 Veh. mi. travelled (mln): 135	Topographical features: not considered

Union County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Knoxville, TN		
Justification: EPA is designating Union county as attainment/unclassifiable, consistent with the State's recommendation. The county is rural with low population and emissions and we believe it does not contribute to nonattainment in the Knoxville MSA. See the 11 factor analysis for Knoxville MSA which is located in chapter 6 of this technical support document.		
2000 Population: 17,808	VOC (tpy): 1,067	%drive to work: 95 Knoxville, TN MSA
1990-2000 growth: 30.0%	NOx (tpy): 1,018	Wind direction: not considered
2000-2010 growth: 13.5%	1999 Veh. mi. travelled (mln): 111	Topographical features: not considered

Washington County, Tennessee

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: We are designating Washington County as attainment/unclassifiable as recommended by the State. Our analysis indicates that this county does not contribute to nonattainment in any nearby area. See the 11 factor analysis which is located in chapter 6 of this technical support document.		
2000 Population: 107,198	VOC (tpy): 7,425	%drive to work: 94 Johnson City--Kingsport--
1990-2000 growth: 16.1%	NOx (tpy): 5,217	Wind direction: not considered
2000-2010 growth: 8.2%	1999 Veh. mi. travelled (mln): 1,184	Topographical features: not considered

Williamson County, Tennessee

2004 Designation: Nonattainment		County design value: 84
Area: Nashville, TN		
MSA or CMSA: Nashville, TN		
Justification: EPA agrees with State's recommendation to include Williamson County as part of the		

Nashville nonattainment area. The effective date of the nonattainment designation for the Nashville area will be deferred because it is participating in an Early Action Compact.

2000 Population: 126,638	VOC (tpy): 8,244	%drive to work: 93 Nashville, TN MSA
1990-2000 growth: 56.3%	NOx (tpy): 7,107	Wind direction: not considered
2000-2010 growth: 21.3%	1999 Veh. mi. travelled (mln): 1,338	Topographical features: not considered

Wilson County, Tennessee

2004 Designation: Nonattainment		County design value: 82
Area: Nashville, TN		
MSA or CMSA: Nashville, TN		
Justification: EPA agrees with State's recommendation to include Wilson County as part of the Nashville nonattainment area. The effective date of the nonattainment designation for the Nashville area will be deferred because it is participating in an Early Action Compact.		
2000 Population: 88,809	VOC (tpy): 6,378	%drive to work: 97 Nashville, TN MSA
1990-2000 growth: 31.2%	NOx (tpy): 4,930	Wind direction: not considered
2000-2010 growth: 21.4%	1999 Veh. mi. travelled (mln): 1,038	Topographical features: not considered

Anderson County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Anderson County is not in the presumptive nonattainment boundary for the Dallas-Fort Worth area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Anderson County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 55,109	VOC (tpy): 3,406	%drive to work: 4 Dallas--Fort Worth, TX CM
1990-2000 growth: 14.8%	NOx (tpy): 2,846	Wind direction: not considered
2000-2010 growth: 7.8%	1999 Veh. mi. travelled (mln): 566	Topographical features: not considered

Atascosa County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Atascosa County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven		

factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Atascosa County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.

2000 Population: 38,628	VOC (tpy): 4,862	%drive to work: 47 San Antonio, TX MSA
1990-2000 growth: 26.5%	NOx (tpy): 10,012	Wind direction: not considered
2000-2010 growth: 29.1%	1999 Veh. mi. travelled (mln): 536	Topographical features: not considered

Austin County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Austin County is not in the presumptive nonattainment boundary for the Houston area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Austin County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 23,590	VOC (tpy): 2,242	%drive to work: 32 Houston--Galveston-Brazo
1990-2000 growth: 18.9%	NOx (tpy): 1,921	Wind direction: not considered
2000-2010 growth: 15.2%	1999 Veh. mi. travelled (mln): 282	Topographical features: not considered

Bandera County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Bandera County is not in the presumptive nonattainment boundary for the San Antonio area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Bandera County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 17,645	VOC (tpy): 1,138	%drive to work: 39 San Antonio, TX MSA
1990-2000 growth: 67.1%	NOx (tpy): 870	Wind direction: not considered
2000-2010 growth: 49.5%	1999 Veh. mi. travelled (mln): 153	Topographical features: not considered

Bexar County, Texas

2004 Designation: Nonattainment		County design value: 89
Area: San Antonio, TX		
MSA or CMSA: San Antonio, TX		

Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Bexar County as part of the San Antonio nonattainment area.

2000 Population: 1,392,931	VOC (tpy): 69,736	%drive to work: 97 San Antonio, TX MSA
1990-2000 growth: 17.5%	NOx (tpy): 74,454	Wind direction: not considered
2000-2010 growth: 13.5%	1999 Veh. mi. travelled (mln): 12,581	Topographical features: not considered

Bosque County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Bosque County is not in the presumptive nonattainment boundary for the Dallas-Fort Worth area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Bosque County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 17,204	VOC (tpy): 1,377	%drive to work: 13 Dallas--Fort Worth, TX CM
1990-2000 growth: 13.7%	NOx (tpy): 2,201	Wind direction: not considered
2000-2010 growth: 15.3%	1999 Veh. mi. travelled (mln): 193	Topographical features: not considered

Brazoria County, Texas

2004 Designation: Nonattainment		County design value: 91
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Brazoria County as part of the Houston-Galveston-Brazoria nonattainment area.		
2000 Population: 241,767	VOC (tpy): 16,232	%drive to work: 98 Houston--Galveston-- Brazo
1990-2000 growth: 26.1%	NOx (tpy): 47,134	Wind direction: not considered
2000-2010 growth: 29.2%	1999 Veh. mi. travelled (mln): 2,123	Topographical features: not considered

Chambers County, Texas

2004 Designation: Nonattainment		County design value: N/A
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July		

15, 2003 recommendation of Chambers County as part of the Houston-Galveston-Brazoria nonattainment area.

2000 Population: 26,031	VOC (tpy): 5,375	%drive to work: 90 Houston--Galveston--Brazo
1990-2000 growth: 29.6%	NOx (tpy): 12,071	Wind direction: not considered
2000-2010 growth: 37.6%	1999 Veh. mi. travelled (mln): 556	Topographical features: not considered

Cherokee County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cherokee County is not in the presumptive nonattainment boundary for the Dallas-Fort Worth area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Cherokee County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 46,659	VOC (tpy): 3,303	%drive to work: 1 Dallas--Fort Worth, TX CM
1990-2000 growth: 13.7%	NOx (tpy): 5,051	Wind direction: not considered
2000-2010 growth: 12.3%	1999 Veh. mi. travelled (mln): 456	Topographical features: not considered

Collin County, Texas

2004 Designation: Nonattainment		County design value: 88
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Collin County as part of the Dallas-Fort Worth nonattainment area.		
2000 Population: 491,675	VOC (tpy): 15,709	%drive to work: 98 Dallas--Fort Worth, TX CM
1990-2000 growth: 86.2%	NOx (tpy): 16,560	Wind direction: Downwind
2000-2010 growth: 66.2%	1999 Veh. mi. travelled (mln): 3,180	Topographical features: not considered

Comal County, Texas

2004 Designation: Nonattainment		County design value: N/A
Area: San Antonio, TX		
MSA or CMSA: San Antonio, TX		
Justification: The San Antonio MSA consists of 4 counties. They are Bexar, Comal, Guadalupe and Wilson. The San Antonio MSA is participating in the 8-hour Ozone Early Action Compact program.		

All four counties, including Comal County are signatories to the San Antonio 8-hour Ozone Early Action Compact. Comal County is located north-northeast of Bexar County. The city of San Antonio, the core metropolitan area in this MSA, is located in Bexar County. There is no ozone monitor in Comal County.

Total NOx emissions in Comal County were 21.6 tpd in 1999 and total VOC emissions in Comal County were 11.4 tpd in 1999. TCEQ has indicated that total NOx emissions in Comal County are projected to be 21 tpd in 2007 and total VOC emissions are projected to increase to 12 tpd in 2007. The population in Comal County in 2000 was 78,021. Comal County 1990-2000 population growth was a very high 50.5%. Comal County 2000-2010 population growth is projected to be an even higher 52.3%, among the highest of any county in a metropolitan area in the nation. The 2010 population in Comal County is projected to be 118,797, and the 2030 population is projected to be 237,651. The 2000 population density in Comal County was 128.5 people/square mile and is projected to increase to 214 people per square mile by 2010 and 428.2 people per square mile by 2030. Comal County's 2000 population accounts for 4.9% of the San Antonio MSA population and that is projected to increase to 5.2% by 2007 and to 9.7% by 2030. The 1999 vehicle miles traveled (VMT) in Comal County was 773 million miles. Ninety percent of this County's workers drive to work in the San Antonio MSA.

The percent contribution of Comal County's nitrogen oxide emissions to the total MSA nitrogen oxide emissions are projected to increase from 8.5% in 1999 to 10.4% in 2007. Interstate 35 runs directly through Comal County which lies between two high-growth metropolitan areas, San Antonio and Austin. The increased emissions, the high projected growth, the proximity to the core metropolitan areas and the urbanization of Southern Comal County are notable. Based on an overall evaluation of this data, the U.S. EPA finds that Comal County does contribute to the 8-hour ozone violation in the San Antonio MSA. Therefore, the U.S. EPA designates Comal County nonattainment for 8-hour ozone effective September 30, 2005, based on its Early Action Compact unless EPA takes further action to extend the effective date.

2000 Population: 78,021	VOC (tpy): 4,161	%drive to work: 90 San Antonio, TX MSA
1990-2000 growth: 50.5%	NOx (tpy): 7,872	Wind direction: not considered
2000-2010 growth: 52.3%	1999 Veh. mi. travelled (mln): 773	Topographical features: not considered

Cooke County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Cooke County is not in the presumptive nonattainment boundary for the Dallas-Fort Worth area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Cooke County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 36,363	VOC (tpy): 3,143	%drive to work: 27 Dallas--Fort Worth, TX CM
1990-2000 growth: 18.1%	NOx (tpy): 2,456	Wind direction: not considered
2000-2010 growth: 11.6%	1999 Veh. mi. travelled (mln): 419	Topographical features: not considered

Dallas County, Texas

2004 Designation: Nonattainment		County design value: 90
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Dallas County as part of the Dallas-Fort Worth nonattainment area.		
2000 Population: 2,218,899	VOC (tpy): 90,840	%drive to work: 99 Dallas--Fort Worth, TX CM
1990-2000 growth: 19.8%	NOx (tpy): 99,917	Wind direction: not considered
2000-2010 growth: 21.6%	1999 Veh. mi. travelled (mln): 24,305	Topographical features: not considered

Delta County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Delta County is not in the presumptive nonattainment boundary for the Dallas Fort Worth area. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Delta County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 5,327	VOC (tpy): 476	%drive to work: 35 Dallas--Fort Worth, TX CM
1990-2000 growth: 9.7%	NOx (tpy): 351	Wind direction: not considered
2000-2010 growth: 6.1%	1999 Veh. mi. travelled (mln): 72	Topographical features: not considered

Denton County, Texas

2004 Designation: Nonattainment		County design value: 97
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Denton County as part of the Dallas-Fort Worth nonattainment area.		
2000 Population: 432,976	VOC (tpy): 16,308	%drive to work: 98 Dallas--Fort Worth, TX CM
1990-2000 growth: 58.3%	NOx (tpy): 17,086	Wind direction: Downwind
2000-2010 growth: 69.8%	1999 Veh. mi. travelled (mln): 4,018	Topographical features: not considered

Ellis County, Texas

2004 Designation: Nonattainment		County design value: 82
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Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Ellis County as part of the Dallas-Fort Worth nonattainment area. Additional analysis shows that Ellis County and other areas outside the four core counties contribute to high ozone concentrations in the Dallas-Fort Worth area.		
2000 Population: 111,360	VOC (tpy): 9,774	%drive to work: 97 Dallas--Fort Worth, TX CM
1990-2000 growth: 30.8%	NOx (tpy): 17,836	Wind direction: Upwind
2000-2010 growth: 36.4%	1999 Veh. mi. travelled (mln): 1,550	Topographical features: not considered

Erath County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Erath County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Erath County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 33,001	VOC (tpy): 2,174	%drive to work: 8 Dallas--Fort Worth, TX CM
1990-2000 growth: 17.9%	NOx (tpy): 1,384	Wind direction: not considered
2000-2010 growth: 16.9%	1999 Veh. mi. travelled (mln): 317	Topographical features: not considered

Fannin County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Fannin County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Fannin County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 31,242	VOC (tpy): 2,184	%drive to work: 24 Dallas--Fort Worth, TX CM
1990-2000 growth: 25.9%	NOx (tpy): 6,003	Wind direction: not considered
2000-2010 growth: 12.8%	1999 Veh. mi. travelled (mln): 339	Topographical features: not considered

Fort Bend County, Texas

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2004 Designation: Nonattainment		County design value: N/A
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Fort Bend County as part of the Houston-Galveston-Brazoria nonattainment area.		
2000 Population: 354,452	VOC (tpy): 13,709	%drive to work: 98 Houston--Galveston--Brazo
1990-2000 growth: 57.2%	NOx (tpy): 48,335	Wind direction: not considered
2000-2010 growth: 49.6%	1999 Veh. mi. travelled (mln): 2,993	Topographical features: not considered

Galveston County, Texas

2004 Designation: Nonattainment		County design value: 89
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Galveston County as part of the Houston-Galveston-Brazoria nonattainment area.		
2000 Population: 250,158	VOC (tpy): 22,395	%drive to work: 98 Houston--Galveston--Brazo
1990-2000 growth: 15.1%	NOx (tpy): 44,415	Wind direction: not considered
2000-2010 growth: 9.7%	1999 Veh. mi. travelled (mln): 2,272	Topographical features: not considered

Gonzales County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Gonzales County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Gonzales County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 18,628	VOC (tpy): 2,290	%drive to work: 9 San Antonio, TX MSA
1990-2000 growth: 8.3%	NOx (tpy): 2,292	Wind direction: not considered
2000-2010 growth: 10.3%	1999 Veh. mi. travelled (mln): 346	Topographical features: not considered

Grayson County, Texas

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Sherman-Denison, TX		
Justification: Grayson County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Grayson County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 110,595	VOC (tpy): 7,554	%drive to work: 16 Dallas--Fort Worth, TX CM
1990-2000 growth: 16.4%	NOx (tpy): 6,292	Wind direction: Downwind
2000-2010 growth: 9.6%	1999 Veh. mi. travelled (mln): 1,305	Topographical features: not considered

Grimes County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Grimes County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Grimes County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 23,552	VOC (tpy): 1,750	%drive to work: 19 Houston--Galveston--Brazo
1990-2000 growth: 25.1%	NOx (tpy): 7,375	Wind direction: not considered
2000-2010 growth: 23.8%	1999 Veh. mi. travelled (mln): 276	Topographical features: not considered

Guadalupe County, Texas

2004 Designation: Nonattainment		County design value: N/A
Area: San Antonio, TX		
MSA or CMSA: San Antonio, TX		
Justification: The San Antonio Metropolitan Statistical Area (MSA) consists of 4 counties. They are Bexar, Comal, Guadalupe and Wilson. The San Antonio MSA is participating in the 8-hour Ozone Early Action Compact program. All four counties, including Guadalupe County, are signatories to the San Antonio 8-hour Ozone Early Action Compact. Guadalupe County is located east-southeast of Bexar County. The city of San Antonio, the core metropolitan area in this MSA is located in Bexar County. The ozone monitor in Guadalupe County does not have sufficient data to calculate a 2001-2003 design value and this monitor does not meet the federal reference method.		
Total NOx emissions in Guadalupe County were 15.6 tpd in 1999 and total VOC emissions were 23.9 in 1999. TCEQ indicates that total NOx emissions in Guadalupe County are projected to be 15 tpd in 2007 and total VOC emissions in Guadalupe County are projected to be 18 tpd in 2007. The		

population in Guadalupe County in 2000 was 89,023. Guadalupe County 1990-2000 population growth was high at 37.2%. Guadalupe County 2000-2010 population growth is projected to be slightly higher at 37.9%. The 2010 population in Guadalupe County is projected to be about 122,728 and the 2030 population is projected to be 214,324. The 2000 population density in Guadalupe County was 124.9 people/square mile and is projected to increase to 172.1 people per square mile by 2010 and 300.6 people per square mile by 2030. Guadalupe County's 2000 population accounts for 5.8% of the San Antonio MSA population and that is projected to increase to 5.2% by 2007 and to 9.7% by 2030. The 1999 vehicle miles traveled (VMT) in Guadalupe County was 1.095 billion miles. Eighty-eight percent of this County's workers drive to work in the San Antonio MSA. This county is upwind of the core metropolplex during the ozone season and, therefore, emissions in this county tend to carry into the San Antonio area more frequently.

While actual nitrogen oxide emissions are predicted to drop slightly between 1999 and 2007, the percent contribution of Guadalupe County's nitrogen oxide emissions to the total MSA nitrogen oxide emissions are projected to increase from 6.4% in 1999 to 7.4% in 2007. While actual VOC emissions are predicted to drop slightly between 1999 and 2007, the percent contribution of Guadalupe County's nitrogen oxide emissions to the total MSA nitrogen oxide emissions are projected to increase from 9.2% in 1999 to 9.8% in 2007. The meteorological information, the increased percent contribution in NOx and VOC emissions, the high projected growth, the proximity to the core metropolitan areas and the urbanization of western Guadalupe County are notable. Based on an overall evaluation of this data, the U.S. EPA finds that Guadalupe County does contribution to the 8-hour ozone violation in the San Antonio MSA. Therefore, the U.S. EPA designates Guadalupe County nonattainment for 8-hour ozone. The nonattainment designation is effective September 30, 2005, based on its Early Action Compact, unless EPA takes further action to extend the attainment date.

2000 Population: 89,023	VOC (tpy): 8,728	%drive to work: 88 San Antonio, TX MSA
1990-2000 growth: 37.2%	NOx (tpy): 5,706	Wind direction: not considered
2000-2010 growth: 37.9%	1999 Veh. mi. travelled (mln): 1,095	Topographical features: not considered

Hardin County, Texas

2004 Designation: Nonattainment		County design value: N/A
Area: Beaumont/Port Arthur, TX		
MSA or CMSA: Beaumont-Port Arthur, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Hardin County as part of the Beaumont-Port Arthur nonattainment boundary area.		
2000 Population: 48,073	VOC (tpy): 3,315	%drive to work: 90 Beaumont--Port Arthur, TX
1990-2000 growth: 16.3%	NOx (tpy): 3,512	Wind direction: not considered
2000-2010 growth: 13.4%	1999 Veh. mi. travelled (mln): 586	Topographical features: not considered

Harris County, Texas

2004 Designation: Nonattainment		County design value: 102
Area: Houston-Galveston-Brazoria, TX		

MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Harris County as part of the Houston-Galveston-Brazoria nonattainment boundary area.		
2000 Population: 3,400,578	VOC (tpy): 154,774	%drive to work: 99 Houston--Galveston--Brazo
1990-2000 growth: 20.7%	NOx (tpy): 206,484	Wind direction: not considered
2000-2010 growth: 23.1%	1999 Veh. mi. travelled (mln): 32,295	Topographical features: not considered

Henderson County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Henderson County as attainment for the Dallas-Fort Worth (DFW) consolidated metropolitan statistical area (C/MSA). The State's July 15, 2003 recommendation did not provide any justification for the attainment recommendation. Since no justification was provided and the presumptive boundary was the (C/MSA), the EPA's December 3, 2003 response to the State of Texas recommended Henderson County as nonattainment. In EPA's December 3, 2003 letter, we requested that the State of Texas submit additional information to support their recommendation. The State of Texas submitted information on February 5, 2004 and February 6, 2004. The EPA reviewed the data submitted by Texas, as well as additional information, and agrees with the State of Texas' recommendation of attainment for Henderson County.		
2000 Population: 73,277	VOC (tpy): 5,888	%drive to work: 78 Dallas--Fort Worth, TX CM
1990-2000 growth: 25.2%	NOx (tpy): 6,126	Wind direction: Upwind
2000-2010 growth: 30.1%	1999 Veh. mi. travelled (mln): 851	Topographical features: not considered

Hill County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Hill County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Hill County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 32,321	VOC (tpy): 3,270	%drive to work: 21 Dallas--Fort Worth, TX CM
1990-2000 growth: 19.1%	NOx (tpy): 3,740	Wind direction: not considered
2000-2010 growth: 20.2%	1999 Veh. mi. travelled (mln): 610	Topographical features: not considered

Hood County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Hood County as attainment for the Dallas-Fort Worth (DFW) consolidated metropolitan statistical area (C/MSA). The State's July 15, 2003 recommendation did not provide any justification for the attainment recommendation. Since no justification was provided and the presumptive boundary was the (C/MSA), the EPA's December 3, 2003 response to the State of Texas recommended Hood County as nonattainment. In EPA's December 3, 2003 letter, we requested that the State of Texas submit additional information to support their recommendation. The State of Texas submitted information on February 5, 2004 and February 6, 2004. The EPA reviewed the data submitted by Texas, as well as additional information, and agrees with the State of Texas' recommendation of attainment for Hood County.		
2000 Population: 41,100	VOC (tpy): 2,173	%drive to work: 90 Dallas--Fort Worth, TX CM
1990-2000 growth: 41.8%	NOx (tpy): 9,621	Wind direction: Upwind
2000-2010 growth: 38.8%	1999 Veh. mi. travelled (mln): 375	Topographical features: not considered

Hopkins County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Hopkins County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Hopkins County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 31,960	VOC (tpy): 2,554	%drive to work: 15 Dallas--Fort Worth, TX CM
1990-2000 growth: 10.8%	NOx (tpy): 2,395	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 442	Topographical features: not considered

Hunt County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Hunt County as attainment for the Dallas-Fort Worth (DFW) consolidated metropolitan statistical area (C/MSA). The State's July 15, 2003 recommendation did not provide any justification for the attainment recommendation. Since no justification was provided and the presumptive boundary was the (C/MSA), the EPA's December 3, 2003 response to the State of		

Texas recommended Hunt County as nonattainment. In EPA's December 3, 2003 letter, we requested that the State of Texas submit additional information to support their recommendation. The State of Texas submitted information on February 5, 2004 and February 6, 2004. The EPA reviewed the data submitted by Texas, as well as additional information, and agrees with the State of Texas' recommendation of attainment for Hunt County.

2000 Population: 76,596	VOC (tpy): 5,271	%drive to work: 95 Dallas--Fort Worth, TX CM
1990-2000 growth: 19.0%	NOx (tpy): 4,269	Wind direction: Downwind
2000-2010 growth: 32.4%	1999 Veh. mi. travelled (mln): 954	Topographical features: not considered

Jack County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Jack County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Jack County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 8,763	VOC (tpy): 1,728	%drive to work: 13 Dallas--Fort Worth, TX CM
1990-2000 growth: 25.5%	NOx (tpy): 1,092	Wind direction: not considered
2000-2010 growth: 6.7%	1999 Veh. mi. travelled (mln): 60	Topographical features: not considered

Jasper County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Jasper County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Jasper County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 35,604	VOC (tpy): 4,038	%drive to work: 21 Beaumont--Port Arthur, TX
1990-2000 growth: 14.5%	NOx (tpy): 5,701	Wind direction: not considered
2000-2010 growth: 13.9%	1999 Veh. mi. travelled (mln): 411	Topographical features: not considered

Jefferson County, Texas

2004 Designation: Nonattainment		County design value: 91
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Area: Beaumont/Port Arthur, TX		
MSA or CMSA: Beaumont-Port Arthur, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Jefferson County as part of the Beaumont-Port Arthur nonattainment boundary area.		
2000 Population: 252,051	VOC (tpy): 31,769	%drive to work: 96 Beaumont--Port Arthur, TX
1990-2000 growth: 5.3%	NOx (tpy): 50,488	Wind direction: not considered
2000-2010 growth: 4.0%	1999 Veh. mi. travelled (mln): 2,502	Topographical features: not considered

Johnson County, Texas

2004 Designation: Nonattainment		County design value: 90
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Johnson County as part of the Dallas-Fort Worth nonattainment boundary area.		
2000 Population: 126,811	VOC (tpy): 6,852	%drive to work: 97 Dallas--Fort Worth, TX CM
1990-2000 growth: 30.5%	NOx (tpy): 8,911	Wind direction: Upwind
2000-2010 growth: 33.7%	1999 Veh. mi. travelled (mln): 1,515	Topographical features: not considered

Karnes County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Karnes County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Karnes County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 15,446	VOC (tpy): 1,404	%drive to work: 14 San Antonio, TX MSA
1990-2000 growth: 24.0%	NOx (tpy): 1,095	Wind direction: not considered
2000-2010 growth: 18.8%	1999 Veh. mi. travelled (mln): 73	Topographical features: not considered

Kaufman County, Texas

2004 Designation: Nonattainment		County design value: 73

Area: Dallas-Fort Worth, TX

MSA or CMSA: Dallas-Fort Worth, TX

Justification: The Dallas-Fort Worth (DFW) consolidated metropolitan statistical area (C/MSA) consists of 12 counties. They are Denton, Collin, Tarrant, Dallas, Parker, Johnson, Ellis, Hood, Hunt, Rockwall, Kaufman, and Henderson. Kaufman County is located just to the east-southeast of Dallas and Denton Counties in the DFW metroplex. The ozone monitor in Kaufman County is monitoring attainment (73 ppb).

Total nitrogen oxide (NOx) emissions in Kaufman County were 12 tpd in 1999. Total NOx emissions in Kaufman County are projected to be 22 tpd in 2010 (TCEQ). Total volatile organic compound (VOC) emissions in Kaufman County were 7.1 tpd in 1999. Total VOC emissions in Kaufman County are projected to increase to 17/12 tpd in 2010 (TCEQ). The population in Kaufman County in 2000 was 71,313. The 2010 population in Kaufman County is projected to be 104,315. Kaufman County 2000-2010 population growth is projected to be a very high 46.3%, among the highest of any county in a nonattainment area in the nation. The 1999 population density in Kaufman County was 91 people/square mile and is projected to increase to 132 people per square mile by 2010. The 1999 vehicle miles traveled (VMT) in Kaufman County was 965 million miles. Ninety-eight percent of this County's workers drive to work in the DFW C/MSA. This county is directly upwind of the core metroplex during the ozone season and, therefore, emissions in this county tend to carry into the DFW area more frequently.

Nitrogen oxide emissions are projected to increase almost 100% to 22 tpd in 2010 from 12 tpd in 1999. Although Kaufman County has a relatively small population compared to the core DFW area counties, it is increasing very fast which significantly influences the county's population density. Western Kaufman County is an expanding urban community and the entire county's projected population density is 132 people per square mile by 2010. The North Texas Council of Governments projects continued development with the population reaching 277,745 and a population density of 352 people/square mile by 2030. The increased emissions, the high projected growth, the proximity to the core metroplex and the urbanization of Western Kaufman County are notable. Based on an overall evaluation of this data, the U.S. EPA finds that Kaufman County does contribute to the 8-hour ozone violation in the DFW C/MSA. Therefore, the U.S. EPA designates Kaufman County nonattainment for 8-hour ozone.

2000 Population: 71,313	VOC (tpy): 5,603	%drive to work: 98 Dallas--Fort Worth, TX CM
1990-2000 growth: 36.6%	NOx (tpy): 4,382	Wind direction: Upwind
2000-2010 growth: 46.3%	1999 Veh. mi. travelled (mln): 965	Topographical features: not considered

Kendall County, Texas

2004 Designation: Unclassifiable/Attainment County design value: N/A

Area: - attainment -

MSA or CMSA: - outside -

Justification: Kendall County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Kendall County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.

2000 Population: 23,743	VOC (tpy): 1,456	%drive to work: 44 San Antonio, TX MSA
1990-2000 growth: 62.7%	NOx (tpy): 1,515	Wind direction: not considered
2000-2010 growth: 50.4%	1999 Veh. mi. travelled (mln): 312	Topographical features: not considered

Liberty County, Texas

2004 Designation: Nonattainment		County design value: N/A
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Liberty County as part of the Houston-Galveston-Brazoria nonattainment boundary area.		
2000 Population: 70,154	VOC (tpy): 3,648	%drive to work: 94 Houston--Galveston--Brazo
1990-2000 growth: 33.0%	NOx (tpy): 5,205	Wind direction: not considered
2000-2010 growth: 27.6%	1999 Veh. mi. travelled (mln): 748	Topographical features: not considered

Matagorda County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Matagorda County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Matagorda County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 37,957	VOC (tpy): 6,856	%drive to work: 16 Houston--Galveston--Brazo
1990-2000 growth: 2.8%	NOx (tpy): 7,341	Wind direction: not considered
2000-2010 growth: 8.2%	1999 Veh. mi. travelled (mln): 249	Topographical features: not considered

Medina County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Medina County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Medina County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		

2000 Population: 39,304	VOC (tpy): 5,106	%drive to work: 43 San Antonio, TX MSA
1990-2000 growth: 43.9%	NOx (tpy): 3,337	Wind direction: not considered
2000-2010 growth: 34.4%	1999 Veh. mi. travelled (mln): 502	Topographical features: not considered

Montgomery County, Texas

2004 Designation: Nonattainment		County design value: 89
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Montgomery County as part of the Houston-Galveston-Brazoria nonattainment boundary area.		
2000 Population: 293,768	VOC (tpy): 13,229	%drive to work: 96 Houston--Galveston--Brazo
1990-2000 growth: 61.2%	NOx (tpy): 21,650	Wind direction: not considered
2000-2010 growth: 55.2%	1999 Veh. mi. travelled (mln): 3,642	Topographical features: not considered

Navarro County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Navarro County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Navarro County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 45,124	VOC (tpy): 4,130	%drive to work: 19 Dallas--Fort Worth, TX CM
1990-2000 growth: 13.0%	NOx (tpy): 4,412	Wind direction: not considered
2000-2010 growth: 16.4%	1999 Veh. mi. travelled (mln): 613	Topographical features: not considered

Newton County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Newton County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Newton County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan		

statistical area.		
2000 Population: 15,072	VOC (tpy): 2,012	%drive to work: 30 Beaumont--Port Arthur, TX
1990-2000 growth: 11.1%	NOx (tpy): 1,059	Wind direction: not considered
2000-2010 growth: 12.2%	1999 Veh. mi. travelled (mln): 207	Topographical features: not considered

Orange County, Texas

2004 Designation: Nonattainment		County design value: 80
Area: Beaumont/Port Arthur, TX		
MSA or CMSA: Beaumont-Port Arthur, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Orange County as part of the Beaumont-Port Arthur nonattainment boundary area.		
2000 Population: 84,966	VOC (tpy): 9,087	%drive to work: 94 Beaumont--Port Arthur, TX
1990-2000 growth: 5.5%	NOx (tpy): 22,741	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 947	Topographical features: not considered

Palo Pinto County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Palo Pinto County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Palo Pinto County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 27,026	VOC (tpy): 2,896	%drive to work: 28 Dallas--Fort Worth, TX CM
1990-2000 growth: 7.9%	NOx (tpy): 4,365	Wind direction: not considered
2000-2010 growth: 12.0%	1999 Veh. mi. travelled (mln): 324	Topographical features: not considered

Parker County, Texas

2004 Designation: Nonattainment		County design value: 89
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Parker County as part of the Dallas-Fort Worth nonattainment boundary area.		

2000 Population: 88,495	VOC (tpy): 5,515	%drive to work: 96 Dallas--Fort Worth, TX CM
1990-2000 growth: 36.6%	NOx (tpy): 6,480	Wind direction: Upwind
2000-2010 growth: 35.1%	1999 Veh. mi. travelled (mln): 1,268	Topographical features: not considered

Polk County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Polk County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Polk County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 41,133	VOC (tpy): 6,010	%drive to work: 15 Houston--Galveston--Brazo
1990-2000 growth: 34.0%	NOx (tpy): 3,888	Wind direction: not considered
2000-2010 growth: 25.4%	1999 Veh. mi. travelled (mln): 675	Topographical features: not considered

Rains County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Rains County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Rains County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 9,139	VOC (tpy): 1,003	%drive to work: 45 Dallas--Fort Worth, TX CM
1990-2000 growth: 36.1%	NOx (tpy): 622	Wind direction: not considered
2000-2010 growth: 30.6%	1999 Veh. mi. travelled (mln): 129	Topographical features: not considered

Rockwall County, Texas

2004 Designation: Nonattainment		County design value: 81
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The Dallas-Fort Worth (DFW) consolidated metropolitan statistical area (C/MSA) consists of 12 counties. They are Denton, Collin, Tarrant, Dallas, Parker, Johnson, Ellis, Hood, Hunt,		

Rockwall, Kaufman, and Henderson. Rockwall County is located just to the east-southeast of Dallas and Denton Counties in the DFW metroplex. The ozone monitor in Rockwall County is monitoring attainment, although the 2001-2003 design value (81 ppb) is relatively close to the 8-hour ozone standard (85 ppb).

Total nitrogen oxide (NOx) emissions in Rockwall County were 4.2 tpd in 1999. Total NOx emissions in Rockwall County are projected to be 4.0 tpd in 2010 (TCEQ). Total volatile organic compound (VOC) emissions in Rockwall County were 4.0 tpd in 1999. Total VOC emissions in Rockwall County are projected to be 4 tpd in 2010 (TCEQ). The population in Rockwall County in 2000 was 43,080. The 2010 population in Rockwall County is projected to be 67,687. Rockwall County 2000-2010 population growth is projected to be a very high 57.1%, among the highest of any county in a nonattainment area in the nation. The 1999 population density in Rockwall County was 337 people/square mile and is projected to significantly increase to 529 people per square mile by 2010. The 1999 vehicle miles traveled (VMT) in Rockwall County was 377 million miles. Ninety-eight percent of this County's workers drive to work in the DFW C/MSA. This county is directly upwind of the core metroplex during the ozone season and, therefore, emissions in this county tend to carry into the DFW area more frequently.

Nitrogen oxide and VOC emissions are not expected to increase significantly in the near future. Although Rockwall County has a relatively small population compared to other DFW area counties, it is, by far, the smallest county in the DFW metroplex (only 128 square miles) which significantly influences the county's population density. Rockwall County is quickly becoming an urban community with a projected population density of 529 people per square mile by 2010. The North Texas Council of Governments projects continued development with the population reaching 145,000 and a population density of 1,133 people/square mile by 2030. The high projected growth, the proximity of this county to the core metroplex, its combined influence with nearby Kaufman County and the urbanization of Rockwall County are notable. Based on an overall evaluation of this data, the U.S. EPA finds that Rockwall County does contribute to the 8-hour ozone violation in the DFW C/MSA. Therefore, the U.S. EPA designates Rockwall County nonattainment for 8-hour ozone.

2000 Population: 43,080	VOC (tpy): 2,003	%drive to work: 98 Dallas--Fort Worth, TX CM
1990-2000 growth: 68.3%	NOx (tpy): 1,516	Wind direction: Upwind
2000-2010 growth: 57.1%	1999 Veh. mi. travelled (mln): 377	Topographical features: not considered

San Jacinto County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: San Jacinto County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for San Jacinto County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 22,246	VOC (tpy): 2,031	%drive to work: 54 Houston--Galveston--Brazo
1990-2000 growth: 35.9%	NOx (tpy): 1,470	Wind direction: not considered

2000-2010 growth: 32.2%	1999 Veh. mi. travelled (mln): 325	Topographical features: not considered
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Somervell County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Somervell County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Somervell County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 6,809	VOC (tpy): 484	%drive to work: 28 Dallas--Fort Worth, TX CM
1990-2000 growth: 27.0%	NOx (tpy): 310	Wind direction: not considered
2000-2010 growth: 22.2%	1999 Veh. mi. travelled (mln): 73	Topographical features: not considered

Tarrant County, Texas

2004 Designation: Nonattainment		County design value: 100
Area: Dallas-Fort Worth, TX		
MSA or CMSA: Dallas-Fort Worth, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Tarrant County as part of the Dallas-Fort Worth nonattainment boundary area.		
2000 Population: 1,446,219	VOC (tpy): 59,672	%drive to work: 99 Dallas--Fort Worth, TX CM
1990-2000 growth: 23.6%	NOx (tpy): 65,154	Wind direction: not considered
2000-2010 growth: 20.4%	1999 Veh. mi. travelled (mln): 15,339	Topographical features: not considered

Tyler County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Tyler County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Tyler County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 20,871	VOC (tpy): 1,840	%drive to work: 24 Beaumont--Port Arthur, TX
1990-2000 growth: 25.4%	NOx (tpy): 1,061	Wind direction: not considered

2000-2010 growth: 18.6%	1999 Veh. mi. travelled (mln): 252	Topographical features: not considered
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Van Zandt County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Van Zandt County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Van Zandt County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 48,140	VOC (tpy): 3,344	%drive to work: 38 Dallas--Fort Worth, TX CM
1990-2000 growth: 26.9%	NOx (tpy): 3,170	Wind direction: not considered
2000-2010 growth: 24.0%	1999 Veh. mi. travelled (mln): 551	Topographical features: not considered

Walker County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Walker County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Walker County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 61,758	VOC (tpy): 3,838	%drive to work: 15 Houston--Galveston--Brazo
1990-2000 growth: 21.3%	NOx (tpy): 2,725	Wind direction: not considered
2000-2010 growth: 14.4%	1999 Veh. mi. travelled (mln): 657	Topographical features: not considered

Waller County, Texas

2004 Designation: Nonattainment		County design value: N/A
Area: Houston-Galveston-Brazoria, TX		
MSA or CMSA: Houston-Galveston-Brazoria, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas in their July 15, 2003 recommendation of Waller County as part of the Houston-Galveston-Brazoria nonattainment boundary area.		
2000 Population: 32,663	VOC (tpy): 1,638	%drive to work: 93 Houston--Galveston--Brazo
1990-2000 growth: 39.6%	NOx (tpy): 3,974	Wind direction: not considered

2000-2010 growth: 42.5%	1999 Veh. mi. travelled (mln): 326	Topographical features: not considered
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Washington County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Washington County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Washington County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 30,373	VOC (tpy): 2,293	%drive to work: 7 Houston--Galveston--Brazo
1990-2000 growth: 16.1%	NOx (tpy): 1,658	Wind direction: not considered
2000-2010 growth: 14.2%	1999 Veh. mi. travelled (mln): 304	Topographical features: not considered

Wharton County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Wharton County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Wharton County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 41,188	VOC (tpy): 5,143	%drive to work: 18 Houston--Galveston--Brazo
1990-2000 growth: 3.1%	NOx (tpy): 3,710	Wind direction: not considered
2000-2010 growth: 7.2%	1999 Veh. mi. travelled (mln): 394	Topographical features: not considered

Wilson County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: San Antonio, TX		
Justification: The U.S. Environmental Protection Agency agrees with the State of Texas' recommendation of Wilson County as attainment for the San Antonio consolidated metropolitan statistical area (C/MSA). The State's July 15, 2003 initial recommendation did not provide any justification for the attainment recommendation. Since no justification was provided and the presumptive boundary was the (C/MSA), the EPA's December 3, 2003 preliminary response to the State of Texas recommended Wilson County as nonattainment. However, in our December 3, 2003		

letter, we requested that the State of Texas submit additional information to support their recommendation. The State of Texas submitted information on February 5, 2004 and February 6, 2004. The EPA reviewed the data submitted by Texas, as well as additional information and analysis of the 11 factors listed in the 8-hour ozone designation boundary guidance (March 2000). EPA agrees with the State of Texas' recommendation of attainment for Wilson County.

2000 Population: 32,408	VOC (tpy): 1,963	%drive to work: 94 San Antonio, TX MSA
1990-2000 growth: 43.1%	NOx (tpy): 1,722	Wind direction: not considered
2000-2010 growth: 47.0%	1999 Veh. mi. travelled (mln): 397	Topographical features: not considered

Wise County, Texas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Wise County is not in the presumptive nonattainment boundary. This county does not have monitoring data indicating a violation of the 8-hour ozone standard. An evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (March 2000) for Wise County indicates that this county is not contributing to the ozone violations in the adjacent metropolitan statistical area.		
2000 Population: 48,793	VOC (tpy): 4,613	%drive to work: 47 Dallas--Fort Worth, TX CM
1990-2000 growth: 40.7%	NOx (tpy): 6,296	Wind direction: not considered
2000-2010 growth: 37.2%	1999 Veh. mi. travelled (mln): 398	Topographical features: not considered

Bennington County, Vermont

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Bennington County, VT is included for a detailed justification, because it is adjacent to the Western Massachusetts nonattainment area. The county does not contain an MSA and is not adjacent to an MSA. The county has an ozone monitor which has air quality below the 8-hour NAAQS. Population density is 54 people per square mile. RACT and NSR required throughout the county. EPA reviewed data pertaining to the factors in our guidance and concludes that Bennington County does not contribute to any nearby violation. The state requested attainment and we agree with the recommendation.		
2000 Population: 36,994	VOC (tpy): 3,002	%drive to work: 0
1990-2000 growth: 3.2%	NOx (tpy): 1,666	Wind direction: not considered
2000-2010 growth: 3.6%	1999 Veh. mi. travelled (mln): 341	Topographical features: not considered

Windham County, Vermont

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: Windham County, VT is included for a detailed justification, because it is adjacent to the Western Massachusetts nonattainment area. The county does not contain an MSA and is not adjacent to an MSA. The nearest ozone monitor in Vermont has air quality below the 8-hour NAAQS. The next nearest monitor in New Hampshire has air quality below the 8-hour NAAQS.</p> <p>Population density in Windham County is only 14 people per square mile. RACT and NSR required throughout the county. EPA reviewed data pertaining to the factors in our guidance and concludes that Windham County does not contribute to a nearby violation. The state requested attainment and we agree with the recommendation.</p>		
2000 Population: 44,216	VOC (tpy): 4,527	%drive to work: 0
1990-2000 growth: 6.3%	NOx (tpy): 2,748	Wind direction: not considered
2000-2010 growth: 9.1%	1999 Veh. mi. travelled (mln): 577	Topographical features: not considered

Albemarle County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Charlottesville, VA		
<p>Justification: The Shenandoah National Park is a Class I Area and consists of portions of 8 counties, Albemarle, Augusta, Greene, Rockingham, Page, Warren, Rappahannock, and Madison. Two of these counties, Page and Madison, have ozone monitors. The 2002 design value at the ozone monitor in Page County is meeting the ozone standard. However, the 2002 design value at the Madison County monitor is violating the ozone standard. EPA is designating the portions of Page and Madison Counties that are located in the Shenandoah National Park as nonattainment. Neither of these counties is part of an MSA. The designation of partial counties in this case is justified because the ozone violations are most likely due to long-range transport and are not affected by nearby emissions sources. Both of these counties have no point VOC and NOx emissions, very low area and mobile emissions (less 1120 tons/year), low population (less than 23,000 people), and the population growth rate is very low. Therefore, the sources in the Page and Madison Counties do not contribute to the ozone violations in Madison County or nearby areas, justifying the partial county designation. EPA believes that Albemarle County does not contribute to Page or Madison Counties.</p>		
2000 Population: 79,236	VOC (tpy): 4,226	%drive to work: 1 Washington-- Baltimore, DC
1990-2000 growth: 16.4%	NOx (tpy): 5,168	Wind direction: not considered
2000-2010 growth: 21.8%	1999 Veh. mi. travelled (mln): 917	Topographical features: not considered

Alleghany County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: EPA is designating Alleghany county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 12,926	VOC (tpy): 1,497	%drive to work: 5 Roanoke, VA MSA
1990-2000 growth: -1.9%	NOx (tpy): 3,295	Wind direction: not considered
2000-2010 growth: -3.3%	1999 Veh. mi. travelled (mln): 607	Topographical features: not considered

Amelia County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 11,400	VOC (tpy): 606	%drive to work: 57 Richmond--Petersburg, VA
1990-2000 growth: 29.7%	NOx (tpy): 567	Wind direction: not considered
2000-2010 growth: 22.8%	1999 Veh. mi. travelled (mln): 104	Topographical features: not considered

Arlington County, Virginia

2004 Designation: Nonattainment		County design value: 99
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: We are including Arlington County as part of the Washington D.C. nonattainment area, which includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 189,453	VOC (tpy): 7,297	%drive to work: 98 Washington--Baltimore, DC
1990-2000 growth: 10.8%	NOx (tpy): 8,176	Wind direction: not considered
2000-2010 growth: 1.9%	1999 Veh. mi. travelled (mln): 1,805	Topographical features: not considered

Augusta County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Shenandoah National Park is a Class I Area and consists of portions of 8 counties, Albemarle, Augusta, Greene, Rockingham, Page, Warren, Rappahannock, and Madison. Two of these		

counties, Page and Madison, have ozone monitors. The 2002 design value at the ozone monitor in Page County is meeting the ozone standard. However, the 2002 design value at the Madison County monitor is violating the ozone standard. EPA is designating the portions of Page and Madison Counties that are located in the Shenandoah National Park. Neither of these counties is part of an MSA. The designation of partial counties in this case is justified because the ozone violations are most likely due to long-range transport and not to local emission sources. Both of these counties have no point VOC and NOx emissions, very low area and mobile emissions (less 1120 tons/year), low population (less than 23,000 people), and the population growth rate is very low. Therefore, the sources in the Page and Madison Counties do not contribute to the ozone violations in Madison County or nearby areas, justifying the partial county designation. EPA believes that Augusta County does not contribute to Page or Madison Counties.

2000 Population: 65,615	VOC (tpy): 4,185	%drive to work: 0 Washington-- Baltimore, DC
1990-2000 growth: 20.0%	NOx (tpy): 4,865	Wind direction: not considered
2000-2010 growth: 12.5%	1999 Veh. mi. travelled (mln): 889	Topographical features: not considered

Bedford County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Lynchburg, VA		
Justification: EPA is designating Bedford county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 60,371	VOC (tpy): 5,329	%drive to work: 29 Roanoke, VA MSA
1990-2000 growth: 32.2%	NOx (tpy): 4,478	Wind direction: not considered
2000-2010 growth: 18.6%	1999 Veh. mi. travelled (mln): 647	Topographical features: not considered

Botetourt County, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Roanoke, VA		
MSA or CMSA: Roanoke, VA		
Justification: EPA is deferring the effective date of the 8-hour ozone nonattainment designation for the four jurisdictions that make up the Roanoke Early Action Compact Area. These jurisdictions are: Botetourt County, Roanoke County, City of Roanoke, and City of Salem. These four jurisdictions make up the entire 1999 Roanoke MSA. This area has an Early Action Compact agreement with EPA. Under this agreement, this area must attain the 8-hour ozone standard by no later than December 31, 2007.		
2000 Population: 30,496	VOC (tpy): 2,707	%drive to work: 92 Roanoke, VA MSA
1990-2000 growth: 22.0%	NOx (tpy): 5,352	Wind direction: not considered
2000-2010 growth: 12.5%	1999 Veh. mi. travelled (mln): 651	Topographical features: not considered

Brunswick County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating Brunswick county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 18,419	VOC (tpy): 1,615	%drive to work: 13 Richmond--Petersburg, VA
1990-2000 growth: 15.2%	NOx (tpy): 2,457	Wind direction: not considered
2000-2010 growth: -7.2%	1999 Veh. mi. travelled (mln): 501	Topographical features: not considered

Caroline County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: VADEQ and Caroline County initially requested a nonattainment designation for Caroline County based on earlier data. The county contains an ozone monitor that based on data from 2001-2003 is measuring attainment of the standard. It is not part of a C/MSA or MSA and it does not contribute to a violation in a nearby area. EPA is designating Caroline County as attainment/unclassifiable.		
2000 Population: 22,121	VOC (tpy): 2,172	%drive to work: 35 Washington--Baltimore, DC
1990-2000 growth: 15.1%	NOx (tpy): 2,419	Wind direction: not considered
2000-2010 growth: 13.5%	1999 Veh. mi. travelled (mln): 481	Topographical features: not considered

Charles City, Virginia

2004 Designation: Nonattainment		County design value: 91
Area: Richmond-Petersburg, VA		
MSA or CMSA: Richmond-Petersburg, VA		
Justification: We are including Charles County as part of the Richmond 8-hour ozone nonattainment area, which consists of the following counties and cities: Charles City County, Chesterfield County, Hanover County, Henrico County, City of Colonial Heights, City of Hopewell, City of Richmond, City of Petersburg, and Prince George County. The 1999 Richmond MSA consists of all the above counties and independent cities plus Dinwiddie County, VA, Goochland County, VA, New Kent, VA, and Powhatan, VA. EPA is not designating Dinwiddie or Goochland nonattainment.		
VADEQ requested that EPA designate as nonattainment only the portion of Charles City County containing the violating ozone monitor and which was the only portion of the county included in the 1-hour ozone nonattainment area. However, Charles City County is an integral part of the Richmond area, and, in EPA's judgment, the entire county should be designated nonattainment because of its contribution to the nonattainment area.		

Charles City County, VA is being designated part of the Richmond nonattainment area. Although the Richmond 1-hour ozone nonattainment area included only the portion of Charles City County around the violating ozone monitor, EPA does not currently believe that the portion of Charles City County that was excluded from that 1-hour ozone nonattainment area is substantially different from the portion around the violating ozone monitor. Since the nonattainment boundary presumption is the C/MSA and Virginia did not provide data that would support rebuffing this presumption, EPA believes that it is more appropriate to include all of Charles City County in the Richmond 8-hour ozone nonattainment area. Charles City County is part of the Richmond MSA and designating it attainment would produce a gap in the contiguous nonattainment area. Given the metropolitan nature of Charles City County, it is highly likely that this county not only exhibits poor air quality but also contributes to the ozone air quality in the Richmond area. Therefore, EPA does not believe that there is support to grant Virginia's request for the designation of only the portion of Charles City County around the violating ozone monitor. The data used for the our analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 6,926	VOC (tpy): 412	%drive to work: 83 Richmond--Petersburg, VA
1990-2000 growth: 10.3%	NOx (tpy): 508	Wind direction: not considered
2000-2010 growth: 14.1%	1999 Veh. mi. travelled (mln): 59	Topographical features: not considered

Chesterfield County, Virginia

2004 Designation: Nonattainment	County design value: 86
Area: Richmond-Petersburg, VA	
MSA or CMSA: Richmond-Petersburg, VA	

Justification: EPA is including Chester County as part of the Richmond 8-hour ozone nonattainment area, which includes: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.

There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million

miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 259,903	VOC (tpy): 13,645	%drive to work: 97 Richmond--Petersburg, VA
1990-2000 growth: 24.2%	NOx (tpy): 31,220	Wind direction: not considered
2000-2010 growth: 22.0%	1999 Veh. mi. travelled (mln): 2,720	Topographical features: not considered

Clarke County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or C/MSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: The Virginia portion of the Washington D.C. 8-hour ozone nonattainment area consists of: Arlington County, Alexandria City, Fairfax County, Fairfax City, Falls Church City, Loudoun County, Manassas City, Manassas Park City, and Prince Williams County. This Virginia portion of the first of these two areas consists of the existing one-hour nonattainment area boundary, with the exclusion of Stafford County. The Virginia portion of the 1999 Washington D.C. PMSA consists of all the above counties (including Stafford County) plus Fauquier, Spotsylvania, Clarke, Warren, King George and Culpeper Counties, and the City of Fredericksburg. Fauquier County is currently measuring attainment of the ozone standard (2003 ozone design value).</p> <p>Clarke, Warren, King George, and Culpeper are non-monitored counties that are characteristically different from the core Baltimore or Washington metropolitan areas. For example, these four counties contain either little or no VOC and NOx emissions, emission densities are less than 0.05% (amount of emissions per the county's land area), these counties have very low populations. Furthermore, Warren and Clarke counties are separated from the rest of the Washington metropolitan area by the easternmost portion of the Appalachian Mountains. Stafford, Spotsylvania and the City of Fredericksburg are being split into a separate nonattainment area, the Fredericksburg, VA 8-hour ozone nonattainment area. The data used for the Region 3 analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, and 1999 C/MSA boundaries (OMB).</p> <p>The entire 1999 Washington D.C. PMSA consists of the District of Columbia plus following counties and cities in Maryland and Virginia: Calvert, MD; Charles, MD; Frederick, MD; Montgomery, MD; and Prince George's, MD; Arlington County, VA; Alexandria City, VA; Fairfax County, VA; Fairfax City, VA; Falls Church City, VA; Loudoun County, VA; Manassas City, VA; Manassas Park City, VA; Prince Williams County, VA; Stafford County, VA; Spotsylvania County, VA; Fredericksburg City, VA; Clarke County, VA; Warren County, VA; King George County, VA; and Culpeper County, VA.</p>		
2000 Population: 12,652	VOC (tpy): 875	%drive to work: 78 Washington--Baltimore, DC
1990-2000 growth: 4.5%	NOx (tpy): 772	Wind direction: not considered
2000-2010 growth: 17.0%	1999 Veh. mi. travelled (mln): 124	Topographical features: not considered

Craig County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 5,091	VOC (tpy): 218	%drive to work: 59 Roanoke, VA MSA
1990-2000 growth: 16.4%	NOx (tpy): 121	Wind direction: not considered
2000-2010 growth: 17.9%	1999 Veh. mi. travelled (mln): 24	Topographical features: not considered

Culpeper County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: The Virginia portion of the Washington D.C. 8-hour ozone nonattainment area consists of: Arlington County, Alexandria City, Fairfax County, Fairfax City, Falls Church City, Loudoun County, Manassas City, Manassas Park City, and Prince Williams County. This Virginia portion of the first of these two areas consists of the existing one-hour nonattainment area boundary, with the exclusion of Stafford County. The Virginia portion of the 1999 Washington D.C. PMSA consists of all the above counties (including Stafford County) plus Fauquier, Spotsylvania, Clarke, Warren, King George and Culpeper Counties, and the City of Fredericksburg. Fauquier County is currently measuring attainment of the ozone standard (2003 ozone design value).</p> <p>Clarke, Warren, King George, and Culpeper are non-monitored counties that are characteristically different from the core Baltimore or Washington metropolitan areas. For example, these four counties contain either little or no VOC and NOx emissions, emission densities are less than 0.05% (amount of emissions per the county's land area), these counties have very low populations. Furthermore, Warren and Clarke counties are separated from the rest of the Washington metropolitan area by the easternmost portion of the Appalachian Mountains. Stafford, Spotsylvania and the City of Fredericksburg are being split into a separate nonattainment area, the Fredericksburg, VA 8-hour ozone nonattainment area. The data used for the Region 3 analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, and 1999 C/MSA boundaries (OMB).</p> <p>The entire 1999 Washington D.C. PMSA consists of the District of Columbia plus following counties and cities in Maryland and Virginia: Calvert, MD; Charles, MD; Frederick, MD; Montgomery, MD; and Prince George's, MD; Arlington County, VA; Alexandria City, VA; Fairfax County, VA; Fairfax City, VA; Falls Church City, VA; Loudoun County, VA; Manassas City, VA; Manassas Park City, VA; Prince Williams County, VA; Stafford County, VA; Spotsylvania County, VA; Fredericksburg City, VA; Clarke County, VA; Warren County, VA; King George County, VA; and Culpeper County, VA.</p>		
2000 Population: 34,262	VOC (tpy): 2,004	%drive to work: 94 Washington--Baltimore, DC

1990-2000 growth: 23.3%	NOx (tpy): 1,861	Wind direction: not considered
2000-2010 growth: 9.4%	1999 Veh. mi. travelled (mln): 356	Topographical features: not considered

Cumberland County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 9,017	VOC (tpy): 489	%drive to work: 38 Richmond--Petersburg, VA
1990-2000 growth: 15.2%	NOx (tpy): 378	Wind direction: not considered
2000-2010 growth: -4.6%	1999 Veh. mi. travelled (mln): 61	Topographical features: not considered

Dinwiddie County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for the EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		

2000 Population: 24,533	VOC (tpy): 1,688	%drive to work: 96 Richmond--Petersburg, VA
1990-2000 growth: 17.0%	NOx (tpy): 2,990	Wind direction: not considered
2000-2010 growth: 9.3%	1999 Veh. mi. travelled (mln): 441	Topographical features: not considered

Essex County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 9,989	VOC (tpy): 727	%drive to work: 10 Washington--Baltimore, DC
1990-2000 growth: 15.0%	NOx (tpy): 569	Wind direction: not considered
2000-2010 growth: 6.2%	1999 Veh. mi. travelled (mln): 89	Topographical features: not considered

Fairfax County, Virginia

2004 Designation: Nonattainment		County design value: 97
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 969,749	VOC (tpy): 39,988	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: 18.5%	NOx (tpy): 36,027	Wind direction: not considered
2000-2010 growth: 10.3%	1999 Veh. mi. travelled (mln): 8,463	Topographical features: not considered

Fauquier County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Virginia portion of the Washington D.C. 8-hour ozone nonattainment area consists of: Arlington County, Alexandria City, Fairfax County, Fairfax City, Falls Church City, Loudoun County, Manassas City, Manassas Park City, and Prince Williams County. This Virginia portion of the first of these two areas consists of the existing one-hour nonattainment area boundary, with the exclusion of Stafford County. The Virginia portion of the 1999 Washington D.C. PMSA consists of all		

the above counties (including Stafford County) plus Fauquier, Spotsylvania, Clarke, Warren, King George and Culpeper Counties, and the City of Fredericksburg. Fauquier County is currently measuring attainment of the ozone standard (2003 ozone design value).

Clarke, Warren, King George, and Culpeper are non-monitored counties that are characteristically different from the core Baltimore or Washington metropolitan areas. For example, these four counties contain either little or no VOC and NOx emissions, emission densities are less than 0.05% (amount of emissions per the county's land area), these counties have very low populations. Furthermore, Warren and Clarke counties are separated from the rest of the Washington metropolitan area by the easternmost portion of the Appalachian Mountains. Stafford, Spotsylvania and the City of Fredericksburg are being split into a separate nonattainment area, the Fredericksburg, VA 8-hour ozone nonattainment area. The data used for the Region 3 analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

The entire 1999 Washington D.C. PMSA consists of the District of Columbia plus following counties and cities in Maryland and Virginia: Calvert, MD; Charles, MD; Frederick, MD; Montgomery, MD; and Prince George's, MD; Arlington County, VA; Alexandria City, VA; Fairfax County, VA; Fairfax City, VA; Falls Church City, VA; Loudoun County, VA; Manassas City, VA; Manassas Park City, VA; Prince Williams County, VA; Stafford County, VA; Spotsylvania County, VA; Fredericksburg City, VA; Clarke County, VA; Warren County, VA; King George County, VA; and Culpeper County, VA.

2000 Population: 55,139	VOC (tpy): 3,535	%drive to work: 98 Washington-- Baltimore, DC
1990-2000 growth: 13.1%	NOx (tpy): 4,237	Wind direction: not considered
2000-2010 growth: 6.6%	1999 Veh. mi. travelled (mln): 920	Topographical features: not considered

Floyd County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 13,874	VOC (tpy): 680	%drive to work: 20 Roanoke, VA MSA
1990-2000 growth: 15.6%	NOx (tpy): 542	Wind direction: not considered
2000-2010 growth: 5.3%	1999 Veh. mi. travelled (mln): 107	Topographical features: not considered

Fluvanna County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Charlottesville, VA		

Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 20,047	VOC (tpy): 1,027	%drive to work: 4 Richmond--Petersburg, VA
1990-2000 growth: 61.3%	NOx (tpy): 8,147	Wind direction: not considered
2000-2010 growth: 29.7%	1999 Veh. mi. travelled (mln): 178	Topographical features: not considered

Franklin County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 47,286	VOC (tpy): 3,453	%drive to work: 28 Roanoke, VA MSA
1990-2000 growth: 19.6%	NOx (tpy): 2,802	Wind direction: not considered
2000-2010 growth: 13.8%	1999 Veh. mi. travelled (mln): 539	Topographical features: not considered

Frederick County, Virginia

2004 Designation: Nonattainment		County design value: 85
Area: Frederick Co., VA		
MSA or CMSA: - outside -		
Justification: EPA is deferring the effective date of the 8-hour ozone nonattainment designation for Frederick, VA and the City of Winchester because these two jurisdictions have an Early Action Compact agreement with EPA. Frederick County, VA and the City of Winchester, VA are not part of any 1999 C/MSA. Under this agreement, this area must attain the 8-hour ozone standard by no later than December 31, 2007.		
2000 Population: 59,209	VOC (tpy): 5,780	%drive to work: 23 Washington--Baltimore, DC
1990-2000 growth: 29.5%	NOx (tpy): 4,308	Wind direction: not considered
2000-2010 growth: 14.8%	1999 Veh. mi. travelled (mln): 848	Topographical features: not considered

Gloucester County, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City,		

Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.

An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 34,780	VOC (tpy): 2,096	%drive to work: 90 Norfolk--Virginia Beach--
1990-2000 growth: 15.4%	NOx (tpy): 1,504	Wind direction: not considered
2000-2010 growth: 19.3%	1999 Veh. mi. travelled (mln): 359	Topographical features: not considered

Goochland County, Virginia

2004 Designation: Unclassifiable/Attainment	County design value: N/A
Area: - attainment -	
MSA or CMSA: Richmond-Petersburg, VA	
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth</p>	

rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 16,863	VOC (tpy): 1,612	%drive to work: 94 Richmond--Petersburg, VA
1990-2000 growth: 19.1%	NOx (tpy): 3,079	Wind direction: not considered
2000-2010 growth: 30.5%	1999 Veh. mi. travelled (mln): 510	Topographical features: not considered

Greene County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Charlottesville, VA		
Justification: The Shenandoah National Park is a Class I Area and consists of portions of 8 counties, Albemarle, Augusta, Greene, Rockingham, Page, Warren, Rappahannock, and Madison. Two of these counties, Page and Madison, have ozone monitors. The 2002 design value at the ozone monitor in Page County is meeting the ozone standard. However, the 2002 design value at the Madison County monitor is violating the ozone standard. EPA is designating the portions of Page and Madison Counties that are located in the Shenandoah National Park. Neither of these counties is part of an MSA. The designation of partial counties in this case is justified because the ozone violations are most likely due to transport. Both of these counties have no point VOC and NOx emissions, very low area and mobile emissions (less 1120 tons/year), low population (less than 23,000 people), and the population growth rate is very low. Therefore, the sources in the Page and Madison Counties do not contribute to the ozone violations in Madison County or nearby areas, justifying the partial county designation. EPA believes that Greene County does not contribute to Page or Madison Counties.		
2000 Population: 15,244	VOC (tpy): 792	%drive to work: 2 Washington--Baltimore, DC
1990-2000 growth: 48.0%	NOx (tpy): 927	Wind direction: not considered
2000-2010 growth: 24.6%	1999 Veh. mi. travelled (mln): 187	Topographical features: not considered

Greensville County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 11,560	VOC (tpy): 2,297	%drive to work: 6 Richmond--Petersburg, VA
1990-2000 growth: 30.6%	NOx (tpy): 2,044	Wind direction: not considered
2000-2010 growth: 6.4%	1999 Veh. mi. travelled (mln): 272	Topographical features: not considered

Halifax County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 37,355	VOC (tpy): 3,046	%drive to work: 1 Raleigh--Durham--Chapel H
1990-2000 growth: 28.7%	NOx (tpy): 12,360	Wind direction: not considered
2000-2010 growth: 6.3%	1999 Veh. mi. travelled (mln): 424	Topographical features: not considered

Hanover County, Virginia

2004 Designation: Nonattainment		County design value: 94
Area: Richmond-Petersburg, VA		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 86,320	VOC (tpy): 5,245	%drive to work: 96 Richmond--Petersburg, VA
1990-2000 growth: 36.4%	NOx (tpy): 6,115	Wind direction: not considered
2000-2010 growth: 22.8%	1999 Veh. mi. travelled (mln): 1,070	Topographical features: not considered

Henrico County, Virginia

2004 Designation: Nonattainment		County design value: 90
Area: Richmond-Petersburg, VA		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 262,300	VOC (tpy): 11,577	%drive to work: 97 Richmond--Petersburg, VA
1990-2000 growth: 20.4%	NOx (tpy): 11,510	Wind direction: not considered
2000-2010 growth: 5.6%	1999 Veh. mi. travelled (mln): 2,295	Topographical features: not considered

Henry County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.</p>		
2000 Population: 57,930	VOC (tpy): 9,508	%drive to work: 3 Greensboro--Winston-Salem
1990-2000 growth: 1.7%	NOx (tpy): 3,823	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	

2000-2010 growth: -1.8%	585	Topographical features: not considered
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Isle of Wight County, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 29,728	VOC (tpy): 3,325	%drive to work: 91 Norfolk--Virginia Beach--
1990-2000 growth: 18.7%	NOx (tpy): 5,000	Wind direction: not considered
2000-2010 growth: 14.7%	1999 Veh. mi. travelled (mln): 323	Topographical features: not considered

James City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air</p>		

quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 48,102	VOC (tpy): 4,517	%drive to work: 93 Norfolk--Virginia Beach--
1990-2000 growth: 38.0%	NOx (tpy): 3,224	Wind direction: not considered
2000-2010 growth: 24.7%	1999 Veh. mi. travelled (mln): 425	Topographical features: not considered

King and Queen County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,630	VOC (tpy): 480	%drive to work: 29 Richmond--Petersburg, VA
1990-2000 growth: 5.4%	NOx (tpy): 476	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 83	Topographical features: not considered

King George County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: The Virginia portion of the Washington D.C. 8-hour ozone nonattainment area consists of: Arlington County, Alexandria City, Fairfax County, Fairfax City, Falls Church City, Loudoun County, Manassas City, Manassas Park City, and Prince Williams County. This Virginia portion of the first of these two areas consists of the existing one-hour nonattainment area boundary, with the exclusion of Stafford County. The Virginia portion of the 1999 Washington D.C. PMSA consists of all the above counties (including Stafford County) plus Fauquier, Spotsylvania, Clarke, Warren, King George and Culpeper Counties, and the City of Fredericksburg. Fauquier County is currently measuring attainment of the ozone standard (2003 ozone design value).</p> <p>Clarke, Warren, King George, and Culpeper are non-monitored counties that are characteristically different from the core Baltimore or Washington metropolitan areas. For example, these four counties contain either little or no VOC and NOx emissions, emission densities are less than 0.05% (amount of emissions per the county's land area), these counties have very low populations. Furthermore, Warren and Clarke counties are separated from the rest of the Washington metropolitan area by the easternmost portion of the Appalachian Mountains. Stafford, Spotsylvania and the City of Fredericksburg are being split into a separate nonattainment area, the Fredericksburg, VA 8-hour ozone nonattainment area. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		

The entire 1999 Washington D.C. PMSA consists of the District of Columbia plus following counties and cities in Maryland and Virginia: Calvert, MD; Charles, MD; Frederick, MD; Montgomery, MD; and Prince George's, MD; Arlington County, VA; Alexandria City, VA; Fairfax County, VA; Fairfax City, VA; Falls Church City, VA; Loudoun County, VA; Manassas City, VA; Manassas Park City, VA; Prince Williams County, VA; Stafford County, VA; Spotsylvania County, VA; Fredericksburg City, VA; Clarke County, VA; Warren County, VA; King George County, VA; and Culpeper County, VA.

2000 Population: 16,803	VOC (tpy): 905	%drive to work: 95 Washington-- Baltimore, DC
1990-2000 growth: 24.2%	NOx (tpy): 1,448	Wind direction: not considered
2000-2010 growth: 30.9%	1999 Veh. mi. travelled (mln): 225	Topographical features: not considered

King William County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 13,146	VOC (tpy): 1,903	%drive to work: 55 Richmond-- Petersburg, VA
1990-2000 growth: 20.5%	NOx (tpy): 4,526	Wind direction: not considered
2000-2010 growth: 21.7%	1999 Veh. mi. travelled (mln): 124	Topographical features: not considered

Lee County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 23,589	VOC (tpy): 1,412	%drive to work: 8 Johnson City-- Kingsport--
1990-2000 growth: -3.7%	NOx (tpy): 1,624	Wind direction: not considered
2000-2010 growth: 8.1%	1999 Veh. mi. travelled (mln): 303	Topographical features: not considered

Loudoun County, Virginia

2004 Designation: Nonattainment		County design value: 92
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		

Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.

2000 Population: 169,599	VOC (tpy): 6,859	%drive to work: 99 Washington-- Baltimore, DC
1990-2000 growth: 96.9%	NOx (tpy): 6,453	Wind direction: not considered
2000-2010 growth: 17.9%	1999 Veh. mi. travelled (mln): 1,130	Topographical features: not considered

Louisa County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 25,627	VOC (tpy): 1,815	%drive to work: 29 Richmond-- Petersburg, VA
1990-2000 growth: 26.1%	NOx (tpy): 2,394	Wind direction: not considered
2000-2010 growth: 17.1%	1999 Veh. mi. travelled (mln): 472	Topographical features: not considered

Madison County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: 87
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Shenandoah National Park is a Class I Area; Page and Madison counties have ozone monitors. The 2003 design value at the ozone monitor in Page County is meeting the ozone standard. However, the 2003 design value at the Madison County monitor is violating the ozone standard. The monitor elevation is 3524 ft. above sea level. EPA is designating the portions of Page and Madison counties that are the Shenandoah National Park as nonattainment. Neither of these counties is part of an MSA. The designation of partial counties in this case is justified because the ozone violations are most likely due to transport. Both of these counties have no point VOC and NOx emissions, very low area and mobile emissions (less 1120 tons/year), low population (less than 23,000 people), and the population growth rate is very low. Therefore, the sources in the Page and Madison counties do not contribute to the ozone violations in Madison County or nearby areas, justifying the partial county designation. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).		
2000 Population: 12,520	VOC (tpy): 850	%drive to work: 29 Washington-- Baltimore, DC
1990-2000 growth: 4.8%	NOx (tpy): 764	Wind direction: not considered

2000-2010 growth: 10.2%	1999 Veh. mi. travelled (mln): 161	Topographical features: not considered
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Mathews County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of some specific criteria data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 9,207	VOC (tpy): 1,217	%drive to work: 82 Norfolk--Virginia Beach--
1990-2000 growth: 10.3%	NOx (tpy): 408	Wind direction: not considered
2000-2010 growth: 16.1%	1999 Veh. mi. travelled (mln): 75	Topographical features: not considered

Mecklenburg County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.</p>		
2000 Population: 32,380	VOC (tpy): 3,152	%drive to work: 2 Raleigh--Durham--Chapel H
1990-2000 growth: 10.7%	NOx (tpy): 4,697	Wind direction: not considered
2000-2010 growth: 1.9%	1999 Veh. mi. travelled (mln): 602	Topographical features: not considered

Middlesex County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 9,932	VOC (tpy): 1,017	%drive to work: 21 Norfolk--Virginia Beach--
1990-2000 growth: 14.8%	NOx (tpy): 607	Wind direction: not considered
2000-2010 growth: 15.8%	1999 Veh. mi. travelled (mln): 124	Topographical features: not considered

Montgomery County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 83,629	VOC (tpy): 5,557	%drive to work: 9 Roanoke, VA MSA
1990-2000 growth: 13.1%	NOx (tpy): 6,419	Wind direction: not considered
2000-2010 growth: -0.3%	1999 Veh. mi. travelled (mln): 990	Topographical features: not considered

New Kent County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie,</p>		

Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 13,462	VOC (tpy): 1,162	%drive to work: 78 Richmond--Petersburg, VA
1990-2000 growth: 28.9%	NOx (tpy): 2,007	Wind direction: not considered
2000-2010 growth: 22.5%	1999 Veh. mi. travelled (mln): 365	Topographical features: not considered

Nottoway County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 15,725	VOC (tpy): 929	%drive to work: 20 Richmond--Petersburg, VA
1990-2000 growth: 4.9%	NOx (tpy): 1,229	Wind direction: not considered
2000-2010 growth: 0.5%	1999 Veh. mi. travelled (mln): 152	Topographical features: not considered

Orange County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 25,881	VOC (tpy): 1,374	%drive to work: 32 Washington--Baltimore, DC
1990-2000 growth: 20.8%	NOx (tpy): 3,872	Wind direction: not considered
2000-2010 growth: 15.1%	1999 Veh. mi. travelled (mln): 192	Topographical features: not considered

Page County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: 82
Area: - attainment -		

MSA or CMSA: - outside -

Justification: The Shenandoah National Park is a Class I Area; Page and Madison counties have ozone monitors. The 2003 design value at the ozone monitor in Page County is meeting the ozone standard. However, the 2003 design value at the Madison County monitor is violating the ozone standard. The monitor elevation is 3524 ft. above sea level. EPA is designating the portions of Page and Madison counties that are the Shenandoah National Park as nonattainment. Neither of these counties is part of an MSA. The designation of partial counties in this case is justified because the ozone violations are most likely due to transport. Both of these counties have no point VOC and NOx emissions, very low area and mobile emissions (less 1120 tons/year), low population (less than 23,000 people), and the population growth rate is very low. Therefore, the sources in the Page and Madison counties do not contribute to the ozone violations in Madison County or nearby areas, justifying the partial county designation. The data used for the EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, and 1999 C/MSA boundaries (OMB).

2000 Population: 23,177	VOC (tpy): 1,337	%drive to work: 13 Washington--Baltimore, DC
1990-2000 growth: 6.8%	NOx (tpy): 1,393	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 237	Topographical features: not considered

Patrick County, Virginia

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 19,407	VOC (tpy): 1,260	%drive to work: 4 Greensboro--Winston-Salem
1990-2000 growth: 11.1%	NOx (tpy): 1,031	Wind direction: not considered
2000-2010 growth: 0.5%	1999 Veh. mi. travelled (mln): 150	Topographical features: not considered

Pittsylvania County, Virginia

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: Danville, VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 61,745	VOC (tpy): 3,974	%drive to work: 2 Greensboro--Winston-Salem
1990-2000 growth: 10.9%	NOx (tpy): 7,443	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	

2000-2010 growth: -2.8% | 371

Topographical features: not considered

Powhatan County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 22,377	VOC (tpy): 1,015	%drive to work: 96 Richmond--Petersburg, VA
1990-2000 growth: 46.0%	NOx (tpy): 836	Wind direction: not considered
2000-2010 growth: 38.5%	1999 Veh. mi. travelled (mln): 181	Topographical features: not considered

Prince George County, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Richmond-Petersburg, VA		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as</p>		

nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.

There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 33,047	VOC (tpy): 1,866	%drive to work: 95 Richmond--Petersburg, VA
1990-2000 growth: 20.6%	NOx (tpy): 2,410	Wind direction: not considered
2000-2010 growth: 4.4%	1999 Veh. mi. travelled (mln): 477	Topographical features: not considered

Prince William County, Virginia

2004 Designation: Nonattainment		County design value: 87
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 280,813	VOC (tpy): 11,023	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: 30.2%	NOx (tpy): 16,309	Wind direction: not considered
2000-2010 growth: 13.9%	1999 Veh. mi. travelled (mln): 2,427	Topographical features: not considered

Rappahannock County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		

Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 6,983	VOC (tpy): 441	%drive to work: 52 Washington-- Baltimore, DC
1990-2000 growth: 5.5%	NOx (tpy): 424	Wind direction: not considered
2000-2010 growth: 18.8%	1999 Veh. mi. travelled (mln): 97	Topographical features: not considered

Roanoke County, Virginia

2004 Designation: Nonattainment		County design value: 85
Area: Roanoke, VA		
MSA or CMSA: Roanoke, VA		
Justification: EPA is deferring the effective date of the 8-hour ozone nonattainment designation for the four jurisdictions that make up the Roanoke Early Action Compact Area. These jurisdictions are: Botetourt County, Roanoke County, City of Roanoke, and City of Salem. These four jurisdictions make up the entire 1999 Roanoke MSA. This area has an Early Action Compact agreement with EPA. Under this agreement, this area must attain the 8-hour ozone standard by no later than December 31, 2007.		
2000 Population: 85,778	VOC (tpy): 4,351	%drive to work: 95 Roanoke, VA MSA
1990-2000 growth: 8.1%	NOx (tpy): 4,370	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 672	Topographical features: not considered

Rockbridge County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: 78
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 20,808	VOC (tpy): 2,992	%drive to work: 2 Roanoke, VA MSA
1990-2000 growth: 13.4%	NOx (tpy): 4,048	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 734	Topographical features: not considered

Rockingham County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The Shenandoah National Park is a Class I Area and consists of portions of 8 counties, Albemarle, Augusta, Greene, Rockingham, Page, Warren, Rappahannock, and Madison. Two of these		

counties, Page and Madison, have ozone monitors. The 2002 design value at the ozone monitor in Page County is meeting the ozone standard. However, the 2002 design value at the Madison County monitor is violating the ozone standard. EPA is designating the portions of Page and Madison Counties that are located in the Shenandoah National Park. Neither of these counties is part of an MSA. The designation of partial counties in this case is justified because the ozone violations are most likely due to transport. Both of these counties have no point VOC and NOx emissions, very low area and mobile emissions (less 1120 tons/year), low population (less than 23,000 people), and the population growth rate is very low. Therefore, the sources in the Page and Madison Counties do not contribute to the ozone violations in Madison County or nearby areas, justifying the partial county designation. EPA believes that Rockingham County does not contribute to Page or Madison Counties.

2000 Population: 67,725	VOC (tpy): 4,314	%drive to work: 1 Washington-- Baltimore, DC
1990-2000 growth: 17.8%	NOx (tpy): 5,433	Wind direction: not considered
2000-2010 growth: 11.2%	1999 Veh. mi. travelled (mln): 828	Topographical features: not considered

Russell County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 30,308	VOC (tpy): 1,758	%drive to work: 18 Johnson City-- Kingsport--
1990-2000 growth: 5.7%	NOx (tpy): 22,119	Wind direction: not considered
2000-2010 growth: -4.3%	1999 Veh. mi. travelled (mln): 320	Topographical features: not considered

Scott County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 23,403	VOC (tpy): 1,534	%drive to work: 90 Johnson City-- Kingsport--
1990-2000 growth: 0.8%	NOx (tpy): 2,017	Wind direction: not considered
2000-2010 growth: -3.4%	1999 Veh. mi. travelled (mln): 320	Topographical features: not considered

Shenandoah County, Virginia

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 35,075	VOC (tpy): 3,528	%drive to work: 12 Washington--Baltimore, DC
1990-2000 growth: 10.9%	NOx (tpy): 4,348	Wind direction: not considered
2000-2010 growth: 21.4%	1999 Veh. mi. travelled (mln): 807	Topographical features: not considered

Smyth County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 33,081	VOC (tpy): 3,892	%drive to work: 10 Johnson City--Kingsport--
1990-2000 growth: 2.2%	NOx (tpy): 3,110	Wind direction: not considered
2000-2010 growth: 3.7%	1999 Veh. mi. travelled (mln): 533	Topographical features: not considered

Southampton County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 17,482	VOC (tpy): 1,289	%drive to work: 31 Norfolk--Virginia Beach--
1990-2000 growth: -0.4%	NOx (tpy): 1,604	Wind direction: not considered
2000-2010 growth: -2.8%	1999 Veh. mi. travelled (mln): 175	Topographical features: not considered

Spotsylvania County, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Fredericksburg, VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		

Justification: The Fredericksburg 8-hour ozone nonattainment area consists of Stafford County, VA, Spotsylvania, VA and the City of Fredericksburg, VA. The counties in the Fredericksburg Area are part of the Washington-Baltimore C/MSA. Virginia recommended this area to be separate from the Washington-Baltimore C/MSA. EPA's analysis supports Virginia's conclusions that the Fredericksburg area should be designated as a separate ozone nonattainment from the Washington-Baltimore C/MSA. The Fredericksburg Area will be designated the same ozone classification as the Washington D.C. 8-hour ozone nonattainment area as agreed to by Virginia DEQ and the local county officials.

EPA evaluated all the 11 criteria with respect to the Fredericksburg area and finds that this area is characteristically different from the core Washington D.C. metropolitan area. For example, the VOC and NOx emissions densities for the Fredericksburg counties are less than 4 tons per year-km², which can be compared with the Washington area densities that are greater than 17 tons per year-km². Similarly, the population density and growth are very low compared with the core Washington area.

2000 Population: 90,395	VOC (tpy): 4,272	%drive to work: 93 Washington--Baltimore, DC
1990-2000 growth: 57.5%	NOx (tpy): 4,124	Wind direction: not considered
2000-2010 growth: 22.8%	1999 Veh. mi. travelled (mln): 831	Topographical features: not considered

Stafford County, Virginia

2004 Designation: Nonattainment		County design value: 88
Area: Fredericksburg, VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Fredericksburg 8-hour ozone nonattainment area consists of Stafford County, VA, Spotsylvania, VA and the City of Fredericksburg, VA. The counties in the Fredericksburg Area are part of the Washington-Baltimore C/MSA. Virginia recommended this area to be separate from the Washington-Baltimore C/MSA. EPA's analysis supports Virginia's conclusions that the Fredericksburg area should be designated as a separate ozone nonattainment from the Washington-Baltimore C/MSA. The Fredericksburg Area will be designated the same ozone classification as the Washington D.C. 8-hour ozone nonattainment area as agreed to by Virginia DEQ and the local county officials.		
EPA evaluated all the 11 criteria with respect to the Fredericksburg area and finds that this area is characteristically different from the core Washington D.C. metropolitan area. For example, the VOC and NOx emissions densities for the Fredericksburg counties are less than 4 tons per year-km ² , which can be compared with the Washington area densities that are greater than 17 tons per year-km ² . Similarly, the population density and growth are very low compared with the core Washington area.		
2000 Population: 92,446	VOC (tpy): 4,151	%drive to work: 98 Washington--Baltimore, DC
1990-2000 growth: 51.0%	NOx (tpy): 5,493	Wind direction: not considered
2000-2010 growth: 34.1%	1999 Veh. mi. travelled (mln): 1,198	Topographical features: not considered

Surry County, Virginia

2004 Designation: Unclassifiable/Attainment	County design value: N/A
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Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,829	VOC (tpy): 483	%drive to work: 46 Norfolk--Virginia Beach--
1990-2000 growth: 11.1%	NOx (tpy): 467	Wind direction: not considered
2000-2010 growth: 3.9%	1999 Veh. mi. travelled (mln): 52	Topographical features: not considered

Sussex County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 12,504	VOC (tpy): 1,512	%drive to work: 32 Richmond--Petersburg, VA
1990-2000 growth: 22.0%	NOx (tpy): 2,641	Wind direction: not considered
2000-2010 growth: -8.1%	1999 Veh. mi. travelled (mln): 384	Topographical features: not considered

Warren County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 31,584	VOC (tpy): 2,246	%drive to work: 84 Washington--Baltimore, DC
1990-2000 growth: 20.8%	NOx (tpy): 2,535	Wind direction: not considered
2000-2010 growth: 20.3%	1999 Veh. mi. travelled (mln): 499	Topographical features: not considered

Washington County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11		

factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.

2000 Population: 51,103	VOC (tpy): 3,250	%drive to work: 86 Johnson City--Kingsport--
1990-2000 growth: 11.4%	NOx (tpy): 3,721	Wind direction: not considered
2000-2010 growth: 4.9%	1999 Veh. mi. travelled (mln): 698	Topographical features: not considered

Westmoreland County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 16,718	VOC (tpy): 907	%drive to work: 37 Washington--Baltimore, DC
1990-2000 growth: 8.0%	NOx (tpy): 611	Wind direction: not considered
2000-2010 growth: 7.1%	1999 Veh. mi. travelled (mln): 108	Topographical features: not considered

Wise County, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 40,123	VOC (tpy): 2,065	%drive to work: 6 Johnson City--Kingsport--
1990-2000 growth: 1.4%	NOx (tpy): 2,280	Wind direction: not considered
2000-2010 growth: 4.7%	1999 Veh. mi. travelled (mln): 379	Topographical features: not considered

York County, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the		

following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.

An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 56,297	VOC (tpy): 4,757	%drive to work: 97 Norfolk--Virginia Beach--
1990-2000 growth: 32.7%	NOx (tpy): 16,048	Wind direction: not considered
2000-2010 growth: 38.5%	1999 Veh. mi. travelled (mln): 489	Topographical features: not considered

Alexandria City, Virginia

2004 Designation: Nonattainment		County design value: 92
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 128,283	VOC (tpy): 5,038	%drive to work: 98 Washington--Baltimore, DC
1990-2000 growth: 15.4%	NOx (tpy): 12,040	Wind direction: not considered
2000-2010 growth: -3.3%	1999 Veh. mi. travelled (mln): 1,174	Topographical features: not considered

Bedford City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Lynchburg, VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,299	VOC (tpy): 531	%drive to work: 9 Roanoke, VA MSA
1990-2000 growth: 3.7%	NOx (tpy): 454	Wind direction: not considered
2000-2010 growth: 9.5%	1999 Veh. mi. travelled (mln): 14	Topographical features: not considered

Bristol City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Johnson City-Kingsport-Bristol, TN-VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 17,367	VOC (tpy): 1,841	%drive to work: 97 Johnson City--Kingsport--
1990-2000 growth: -5.7%	NOx (tpy): 1,479	Wind direction: not considered
2000-2010 growth: -3.3%	1999 Veh. mi. travelled (mln): 315	Topographical features: not considered

Buena Vista City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,349	VOC (tpy): 714	%drive to work: 2 Roanoke, VA MSA
1990-2000 growth: -0.9%	NOx (tpy): 200	Wind direction: not considered
2000-2010 growth: -0.8%	1999 Veh. mi. travelled (mln): 22	Topographical features: not considered

Charlottesville City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Charlottesville, VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 45,049	VOC (tpy): 1,863	%drive to work: 1 Washington--Baltimore, DC
1990-2000 growth: 11.7%	NOx (tpy): 1,491	Wind direction: not considered
2000-2010 growth: -12.3%	1999 Veh. mi. travelled (mln): 299	Topographical features: not considered

Chesapeake City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		

Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.

An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 199,184	VOC (tpy): 8,234	%drive to work: 97 Norfolk--Virginia Beach--
1990-2000 growth: 31.1%	NOx (tpy): 16,775	Wind direction: not considered
2000-2010 growth: 28.0%	1999 Veh. mi. travelled (mln): 1,490	Topographical features: not considered

Colonial Heights City, Virginia

2004 Designation: Nonattainment	County design value: N/A
Area: Richmond-Petersburg, VA	
MSA or CMSA: Richmond-Petersburg, VA	

Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.

There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for

EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 16,897	VOC (tpy): 1,083	%drive to work: 97 Richmond--Petersburg, VA
1990-2000 growth: 5.2%	NOx (tpy): 1,013	Wind direction: not considered
2000-2010 growth: 3.0%	1999 Veh. mi. travelled (mln): 321	Topographical features: not considered

Covington City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,303	VOC (tpy): 2,043	%drive to work: 4 Roanoke, VA MSA
1990-2000 growth: -9.8%	NOx (tpy): 6,261	Wind direction: not considered
2000-2010 growth: 11.1%	1999 Veh. mi. travelled (mln): 3	Topographical features: not considered

Danville City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Danville, VA		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 48,411	VOC (tpy): 3,050	%drive to work: 3 Greensboro--Winston-Salem
1990-2000 growth: -8.8%	NOx (tpy): 3,187	Wind direction: not considered
2000-2010 growth: 3.3%	1999 Veh. mi. travelled (mln): 448	Topographical features: not considered

Emporia City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 5,665	VOC (tpy): 237	%drive to work: 5 Richmond--Petersburg, VA

1990-2000 growth: 6.8%	NOx (tpy): 446	Wind direction: not considered
2000-2010 growth: 7.7%	1999 Veh. mi. travelled (mln): 39	Topographical features: not considered

Fairfax City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 21,498	VOC (tpy): 1,040	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: 9.6%	NOx (tpy): 454	Wind direction: not considered
2000-2010 growth: 3.7%	1999 Veh. mi. travelled (mln): 118	Topographical features: not considered

Falls Church City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 10,377	VOC (tpy): 631	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: 8.3%	NOx (tpy): 277	Wind direction: not considered
2000-2010 growth: 0.2%	1999 Veh. mi. travelled (mln): 58	Topographical features: not considered

Franklin City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 8,346	VOC (tpy): 204	%drive to work: 32 Norfolk--Virginia Beach--

1990-2000 growth: 6.1%	NOx (tpy): 124	Wind direction: not considered
2000-2010 growth: 16.2%	1999 Veh. mi. travelled (mln): 24	Topographical features: not considered

Fredericksburg City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Fredericksburg, VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
<p>Justification: The Fredericksburg 8-hour ozone nonattainment area consists of Stafford County, VA, Spotsylvania, VA and the City of Fredericksburg, VA. The counties in the Fredericksburg Area are part of the Washington-Baltimore C/MSA. Virginia recommended this area to be separate from the Washington-Baltimore C/MSA. EPA's analysis supports Virginia's conclusions that the Fredericksburg area should be designated as a separate ozone nonattainment from the Washington-Baltimore C/MSA. The Fredericksburg Area will be designated the same ozone classification as the Washington D.C. 8-hour ozone nonattainment area as agreed to by Virginia DEQ and the local county officials.</p> <p>EPA evaluated all the 11 criteria with respect to the Fredericksburg area and finds that this area is characteristically different from the core Washington D.C. metropolitan area. For example, the VOC and NOx emissions densities for the Fredericksburg counties are less than 4 tons per year-km², which can be compared with the Washington area densities that are greater than 17 tons per year-km². Similarly, the population density and growth are very low compared with the core Washington area.</p>		
2000 Population: 19,279	VOC (tpy): 1,206	%drive to work: 96 Washington--Baltimore, DC
1990-2000 growth: 1.3%	NOx (tpy): 1,180	Wind direction: not considered
2000-2010 growth: 28.1%	1999 Veh. mi. travelled (mln): 187	Topographical features: not considered

Hampton City, Virginia

2004 Designation: Nonattainment		County design value: 90
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air</p>		

quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 146,437	VOC (tpy): 6,738	%drive to work: 97 Norfolk--Virginia Beach--
1990-2000 growth: 9.4%	NOx (tpy): 5,137	Wind direction: not considered
2000-2010 growth: -2.3%	1999 Veh. mi. travelled (mln): 1,348	Topographical features: not considered

Harrisonburg City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 40,468	VOC (tpy): 1,659	%drive to work: 1 Washington--Baltimore, DC
1990-2000 growth: 31.8%	NOx (tpy): 1,282	Wind direction: not considered
2000-2010 growth: -1.1%	1999 Veh. mi. travelled (mln): 234	Topographical features: not considered

Hopewell City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Richmond-Petersburg, VA		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these</p>		

5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 22,354	VOC (tpy): 3,323	%drive to work: 97 Richmond--Petersburg, VA
1990-2000 growth: -3.2%	NOx (tpy): 14,990	Wind direction: not considered
2000-2010 growth: -2.5%	1999 Veh. mi. travelled (mln): 462	Topographical features: not considered

Lexington City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 6,867	VOC (tpy): 189	%drive to work: 1 Roanoke, VA MSA
1990-2000 growth: -1.3%	NOx (tpy): 109	Wind direction: not considered
2000-2010 growth: 10.6%	1999 Veh. mi. travelled (mln): 25	Topographical features: not considered

Manassas City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.		
2000 Population: 35,135	VOC (tpy): 1,148	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: 25.7%	NOx (tpy): 998	Wind direction: not considered
2000-2010 growth: 19.5%	1999 Veh. mi. travelled (mln): 168	Topographical features: not considered

Manassas Park City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Washington, DC-MD-VA		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		

Justification: The Washington D.C. nonattainment includes: the District of Columbia, Calvert County, MD, Charles County, MD, Frederick County, MD, Montgomery County, MD, Prince George's County, MD, Alexandria City, VA, Arlington County, VA, Fairfax City, VA, Fairfax County, VA, Falls Church City, VA, Loudoun County, VA, Manassas City, VA, Manassas Park City, VA, and Prince William County, VA.

2000 Population: 10,290	VOC (tpy): 259	%drive to work: 99 Washington--Baltimore, DC
1990-2000 growth: 52.8%	NOx (tpy): 259	Wind direction: not considered
2000-2010 growth: 4.0%	1999 Veh. mi. travelled (mln): 40	Topographical features: not considered

Martinsville City, Virginia

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 15,416	VOC (tpy): 1,871	%drive to work: 3 Greensboro--Winston-Salem
1990-2000 growth: -4.6%	NOx (tpy): 810	Wind direction: not considered
2000-2010 growth: 2.5%	1999 Veh. mi. travelled (mln): 46	Topographical features: not considered

Newport News City, Virginia

2004 Designation: Nonattainment	County design value: N/A	
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
		%drive to work: 97 Norfolk--Virginia

2000 Population: 180,150	VOC (tpy): 8,609	Beach--
1990-2000 growth: 5.9%	NOx (tpy): 12,952	Wind direction: not considered
2000-2010 growth: 5.5%	1999 Veh. mi. travelled (mln): 1,612	Topographical features: not considered

Norfolk City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 234,403	VOC (tpy): 14,002	%drive to work: 97 Norfolk--Virginia Beach--
1990-2000 growth: -10.3%	NOx (tpy): 24,891	Wind direction: not considered
2000-2010 growth: -8.3%	1999 Veh. mi. travelled (mln): 2,634	Topographical features: not considered

Norton City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.</p>		
2000 Population: 3,904	VOC (tpy): 186	%drive to work: 6 Johnson City--Kingsport--
1990-2000 growth: -8.1%	NOx (tpy): 199	Wind direction: not considered
2000-2010 growth: 15.2%	1999 Veh. mi. travelled (mln): 37	Topographical features: not considered

Petersburg City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Richmond-Petersburg, VA		
<p>Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.</p> <p>There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 33,740	VOC (tpy): 3,020	%drive to work: 96 Richmond--Petersburg, VA
1990-2000 growth: -12.1%	NOx (tpy): 3,007	Wind direction: not considered
2000-2010 growth: -6.6%	1999 Veh. mi. travelled (mln): 767	Topographical features: not considered

Poquoson City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the</p>		

Hampton Roads nonattainment area.

An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for the Region 3 analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 11,566	VOC (tpy): 633	%drive to work: 97 Norfolk--Virginia Beach--
1990-2000 growth: 5.1%	NOx (tpy): 196	Wind direction: not considered
2000-2010 growth: 9.0%	1999 Veh. mi. travelled (mln): 54	Topographical features: not considered

Portsmouth City, Virginia

2004 Designation: Nonattainment	County design value: N/A	
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 100,565	VOC (tpy): 4,777	%drive to work: 98 Norfolk--Virginia Beach--
1990-2000 growth: -3.2%	NOx (tpy): 5,843	Wind direction: not considered
2000-2010 growth: -6.5%	1999 Veh. mi. travelled (mln): 1,047	Topographical features: not considered

Richmond City, Virginia

2004 Designation: Nonattainment	County design value: N/A	
Area: Richmond-Petersburg, VA		
MSA or CMSA: Richmond-Petersburg, VA		
Justification: EPA is designating the following counties as the Richmond 8-hour ozone nonattainment		

area: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Petersburg City, and Richmond City. Although Virginia recommended only the portion of Charles City County around the violating ozone monitor as nonattainment, identical to the current 1 hour nonattainment boundary in this county, EPA is designating the entire county as nonattainment under the 8-hour ozone standard. Furthermore, Virginia recommended Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County be designated as attainment/unclassifiable areas under the 8-hour standard. The 1999 Richmond MSA consists of the following counties: Charles City County, Chesterfield County, Colonial Heights City, Hanover County, Henrico County, Hopewell City, Richmond City, Dinwiddie County, Goochland County, New Kent County, Petersburg City, Powhatan County, and Prince George County. Therefore, the counties that are part of the Richmond MSA but not being designated nonattainment are: Dinwiddie, Goochland, Powhatan, New Kent, and Prince George.

There are no ozone monitors located in the 5 MSA counties that are being excluded from the Richmond nonattainment area. A sample examination of the criteria data from these areas supports this conclusion. For example, there are no utility NOx emissions in any of the 5 counties (Dinwiddie, Goochland, New Kent, Powhatan, and Prince George), the VOC and NOx point emissions for all of these counties is also very low (zero to 1100 tons/year), the highest population in this group of 5 belongs to Prince George and that figure is less than 35,000 people, the average VMT growth in these 5 counties is less than 9 million miles per year while the Richmond area averages more than 26 million miles per year, all the emission densities of these 5 counties is less than 0.05%. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 197,790	VOC (tpy): 13,226	%drive to work: 98 Richmond--Petersburg, VA
1990-2000 growth: -2.6%	NOx (tpy): 13,367	Wind direction: not considered
2000-2010 growth: -6.0%	1999 Veh. mi. travelled (mln): 2,163	Topographical features: not considered

Roanoke City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Roanoke, VA		
MSA or CMSA: Roanoke, VA		
Justification: EPA is deferring the effective date of the 8-hour ozone nonattainment designation for the four jurisdictions that make up the Roanoke Early Action Compact Area. These jurisdictions are: Botetourt County, Roanoke County, City of Roanoke, and City of Salem. These four jurisdictions make up the entire 1999 Roanoke MSA. This area has an Early Action Compact agreement with EPA. Under this agreement, this area must attain the 8-hour ozone standard by no later than December 31, 2007.		
2000 Population: 94,911	VOC (tpy): 6,015	%drive to work: 96 Roanoke, VA MSA
1990-2000 growth: -1.5%	NOx (tpy): 4,832	Wind direction: not considered
2000-2010 growth: -0.4%	1999 Veh. mi. travelled (mln): 986	Topographical features: not considered

Salem City, Virginia

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2004 Designation: Nonattainment		County design value: N/A
Area: Roanoke, VA		
MSA or CMSA: Roanoke, VA		
Justification: EPA is deferring the effective date of the 8-hour ozone nonattainment designation for the four jurisdictions that make up the Roanoke Early Action Compact Area. These jurisdictions are: Botetourt County, Roanoke County, City of Roanoke, and City of Salem. These four jurisdictions make up the entire 1999 Roanoke MSA. This area has an Early Action Compact agreement with EPA. Under this agreement, this area must attain the 8-hour ozone standard by no later than December 31, 2007.		
2000 Population: 24,747	VOC (tpy): 1,982	%drive to work: 95 Roanoke, VA MSA
1990-2000 growth: 4.2%	NOx (tpy): 2,198	Wind direction: not considered
2000-2010 growth: 4.6%	1999 Veh. mi. travelled (mln): 230	Topographical features: not considered

Staunton City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 23,853	VOC (tpy): 854	%drive to work: 0 Washington-- Baltimore, DC
1990-2000 growth: -2.5%	NOx (tpy): 474	Wind direction: not considered
2000-2010 growth: 1.4%	1999 Veh. mi. travelled (mln): 99	Topographical features: not considered

Suffolk City, Virginia

2004 Designation: Nonattainment		County design value: 88
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.		
An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and		

very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).

2000 Population: 63,677	VOC (tpy): 3,208	%drive to work: 96 Norfolk--Virginia Beach--
1990-2000 growth: 22.1%	NOx (tpy): 3,307	Wind direction: not considered
2000-2010 growth: 17.8%	1999 Veh. mi. travelled (mln): 601	Topographical features: not considered

Virginia Beach City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information and 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 425,257	VOC (tpy): 18,642	%drive to work: 97 Norfolk--Virginia Beach--
1990-2000 growth: 8.2%	NOx (tpy): 13,712	Wind direction: not considered
2000-2010 growth: 17.6%	1999 Veh. mi. travelled (mln): 3,951	Topographical features: not considered

Waynesboro City, Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.</p>		
2000 Population: 19,520	VOC (tpy): 981	%drive to work: 1 Washington--Baltimore, DC

1990-2000 growth: 5.2%	NOx (tpy): 1,937	Wind direction: not considered
2000-2010 growth: 2.4%	1999 Veh. mi. travelled (mln): 122	Topographical features: not considered

Williamsburg City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Norfolk-Virginia-Beach Newport News (Hampton Roads), VA		
MSA or CMSA: Norfolk-Virginia Beach-Newport News, VA-NC		
<p>Justification: The Hampton Roads 8-hour ozone nonattainment area consists of Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, Isle of Wight County, Gloucester County, and York County. The Norfolk-Virginia Beach-Newport News, VA-NC MSA currently consists of the following counties: Chesapeake City, Hampton City, James City County, Newport News City, Norfolk City, Poquoson City, Portsmouth City, Suffolk City, Virginia Beach City, Williamsburg City, York County, Gloucester County, Isle of Wight County, Mathews County, VA, and Currituck, NC. Therefore, Mathews County in the Virginia portion of the Norfolk MSA is being excluded from the Hampton Roads nonattainment area.</p> <p>An examination of data for Mathews County shows that its exclusion is supportable and reasonable. For example, compared with the core Hampton Roads nonattainment area, the VOC and NOx emissions from this county are very low, there are no utility NOx emissions, very low population, and very low population and VMT growth rates. The data used for EPA's analysis includes 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, 1999 C/MSA boundaries (OMB).</p>		
2000 Population: 11,998	VOC (tpy): 483	%drive to work: 95 Norfolk--Virginia Beach--
1990-2000 growth: 4.0%	NOx (tpy): 593	Wind direction: not considered
2000-2010 growth: 11.7%	1999 Veh. mi. travelled (mln): 85	Topographical features: not considered

Winchester City, Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Frederick Co., VA		
MSA or CMSA: - outside -		
<p>Justification: EPA is deferring the effective date of the 8-hour ozone nonattainment designation for Frederick, VA and the City of Winchester because these two jurisdictions have an Early Action Compact agreement with EPA. Frederick County, VA and the City of Winchester, VA are not part of any 1999 C/MSA. Under this agreement, this area must attain the 8-hour ozone standard by no later than December 31, 2007.</p>		
2000 Population: 23,585	VOC (tpy): 1,907	%drive to work: 19 Washington--Baltimore, DC
1990-2000 growth: 7.5%	NOx (tpy): 1,321	Wind direction: not considered
2000-2010 growth: 6.4%	1999 Veh. mi. travelled (mln): 197	Topographical features: not considered

Berkeley County, West Virginia

2004 Designation: Nonattainment		County design value: 86
Area: Berkeley & Jefferson Cos, WV		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is designating Berkeley and Jefferson Counties as an 8-hour ozone nonattainment area separate from the Washington D.C. nonattainment area. EPA examined specific data for the area and concludes that the data support the case for separation of these 2 counties from the Washington D.C. area. Population density, VMT growth, percentage of utility NOx emissions and percentage of commuters into the Washington D.C. area support the separation of this "Panhandle" Area from the core Washington D.C. area and show that this "Panhandle" Area is different from the Washington D.C. core. The counties have an approved Early Action Compact (EAC). As an EAC area, the effective date of the counties' nonattainment designation is deferred as long as the EAC milestones are met. If any EAC milestones or requirements are not met, nonattainment designations would become effective, thereby triggering the statutory requirements for the area's classification. Data supporting EPA's designation include 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, and 1999 C/MSA boundaries (OMB).		
2000 Population: 75,905	VOC (tpy): 5,913	%drive to work: 90 Washington--Baltimore, DC
1990-2000 growth: 28.1%	NOx (tpy): 8,843	Wind direction: not considered
2000-2010 growth: 18.6%	1999 Veh. mi. travelled (mln): 891	Topographical features: not considered

Boone County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 25,535	VOC (tpy): 1,537	%drive to work: 35 Charleston, WV MSA
1990-2000 growth: -1.3%	NOx (tpy): 1,639	Wind direction: not considered
2000-2010 growth: -6.3%	1999 Veh. mi. travelled (mln): 219	Topographical features: not considered

Brooke County, West Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Steubenville-Weirton, OH-WV		
MSA or CMSA: Steubenville-Weirton, OH-WV		
Justification: The Steubenville-Weirton 8-hour ozone nonattainment area consists of Brooke County, WV, Hancock County, WV, and Jefferson County, OH. These three counties make up the entire 1999 Steubenville-Weirton MSA.		
		%drive to work: 76 Steubenville--Weirton,

2000 Population: 25,447	VOC (tpy): 4,115	OH
1990-2000 growth: -5.7%	NOx (tpy): 2,352	Wind direction: not considered
2000-2010 growth: -2.1%	1999 Veh. mi. travelled (mln): 200	Topographical features: not considered

Cabell County, West Virginia

2004 Designation: Nonattainment		County design value: 88
Area: Huntington-Ashland, WV-KY		
MSA or CMSA: Huntington-Ashland, WV-KY-OH		
Justification: The West Virginia portion of the Huntington-Ashland 8-hour ozone nonattainment area consists of Cabell and Wayne counties. These counties are the only WV counties that make up the Huntington-Ashland MSA. The Huntington-Ashland MSA includes a total of 6 counties. In addition to Cabell County and Wayne County, it includes Boyd County, KY, Carter County, KY, Greenup County, KY, and Lawrence County, OH. The entire Huntington-Ashland nonattainment area consists of Cabell County, Wayne County and Boyd County.		
2000 Population: 96,784	VOC (tpy): 6,996	%drive to work: 88 Huntington--Ashland, WV--
1990-2000 growth: -0.0%	NOx (tpy): 12,732	Wind direction: not considered
2000-2010 growth: -2.1%	1999 Veh. mi. travelled (mln): 938	Topographical features: not considered

Clay County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 10,330	VOC (tpy): 1,101	%drive to work: 30 Charleston, WV MSA
1990-2000 growth: 3.5%	NOx (tpy): 557	Wind direction: not considered
2000-2010 growth: -12.9%	1999 Veh. mi. travelled (mln): 116	Topographical features: not considered

Fayette County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 47,579	VOC (tpy): 4,010	%drive to work: 12 Charleston, WV

		MSA
1990-2000 growth: -0.8%	NOx (tpy): 5,071	Wind direction: not considered
2000-2010 growth: -8.9%	1999 Veh. mi. travelled (mln): 546	Topographical features: not considered

Hampshire County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 20,203	VOC (tpy): 3,030	%drive to work: 8 Washington--Baltimore, DC
1990-2000 growth: 22.4%	NOx (tpy): 934	Wind direction: not considered
2000-2010 growth: 10.8%	1999 Veh. mi. travelled (mln): 129	Topographical features: not considered

Hancock County, West Virginia

2004 Designation: Nonattainment		County design value: 86
Area: Steubenville-Weirton, OH-WV		
MSA or CMSA: Steubenville-Weirton, OH-WV		
Justification: The Steubenville-Weirton 8-hour ozone nonattainment area consists of Brooke County, WV, Hancock County, WV, and Jefferson County, OH. These three counties make up the entire 1999 Steubenville-Weirton MSA.		
2000 Population: 32,667	VOC (tpy): 3,537	%drive to work: 75 Steubenville--Weirton, OH
1990-2000 growth: -7.3%	NOx (tpy): 4,710	Wind direction: not considered
2000-2010 growth: -3.3%	1999 Veh. mi. travelled (mln): 250	Topographical features: not considered

Hardy County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 12,669	VOC (tpy): 3,114	%drive to work: 4 Washington--Baltimore, DC
1990-2000 growth: 15.4%	NOx (tpy): 1,464	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	

2000-2010 growth: 11.7%	112	Topographical features: not considered
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Jackson County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 28,000	VOC (tpy): 3,136	%drive to work: 6 Parkersburg--Marietta, WV
1990-2000 growth: 7.9%	NOx (tpy): 3,986	Wind direction: not considered
2000-2010 growth: 0.4%	1999 Veh. mi. travelled (mln): 513	Topographical features: not considered

Jefferson County, West Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Berkeley & Jefferson Cos, WV		
MSA or CMSA: Washington-Baltimore, DC-MD-VA-WV		
Justification: EPA is designating Berkeley and Jefferson Counties as an 8-hour ozone nonattainment area separate from the Washington D.C. nonattainment area. EPA examined specific data for the area and concludes that the data support the case for separation of these 2 counties from the Washington D.C. area. Population density, VMT growth, percentage of utility NOx emissions and percentage of commuters into the Washington D.C. area support the separation of this "Panhandle" Area from the core Washington D.C. area and show that this "Panhandle" Area is different from the Washington D.C. core. The counties have an approved Early Action Compact (EAC). As an EAC area, the effective date of the counties' nonattainment designation is deferred as long as the EAC milestones are met. If any EAC milestones or requirements are not met, EPA would withdraw the deferred effective date thereby triggering the nonattainment designation and statutory requirements. Data supporting EPA's designation include 2003 air quality data, 2002 census population, 1990-2010 population growth rate (in general), 1999 NEI, 1999 VMT, air quality modeling information, and 1999 C/MSA boundaries (OMB).		
2000 Population: 42,190	VOC (tpy): 3,026	%drive to work: 96 Washington--Baltimore, DC
1990-2000 growth: 17.4%	NOx (tpy): 2,917	Wind direction: not considered
2000-2010 growth: 16.9%	1999 Veh. mi. travelled (mln): 333	Topographical features: not considered

Kanawha County, West Virginia

2004 Designation: Nonattainment		County design value: 86
Area: Charleston, WV		
MSA or CMSA: Charleston, WV		
Justification: The Charleston 8-hour ozone nonattainment area consists of Kanawha and Putnam		

Counties in West Virginia. These two counties make up the entire 1999 Charleston, WV MSA.		
2000 Population: 200,073	VOC (tpy): 17,482	%drive to work: 95 Charleston, WV MSA
1990-2000 growth: -3.6%	NOx (tpy): 32,690	Wind direction: not considered
2000-2010 growth: -5.1%	1999 Veh. mi. travelled (mln): 2,509	Topographical features: not considered

Lincoln County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 22,108	VOC (tpy): 1,658	%drive to work: 19 Huntington--Ashland, WV--
1990-2000 growth: 3.4%	NOx (tpy): 1,389	Wind direction: not considered
2000-2010 growth: -5.0%	1999 Veh. mi. travelled (mln): 210	Topographical features: not considered

Marshall County, West Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Wheeling, WV-OH		
MSA or CMSA: Wheeling, WV-OH		
Justification: The Wheeling 8-hour ozone nonattainment area consists of Marshall County, WV and Ohio County, WV. The 1999 Wheeling MSA includes these two counties plus Belmont, OH.		
2000 Population: 35,519	VOC (tpy): 4,685	%drive to work: 83 Wheeling, WV--OH MSA
1990-2000 growth: -4.9%	NOx (tpy): 53,910	Wind direction: not considered
2000-2010 growth: -0.1%	1999 Veh. mi. travelled (mln): 232	Topographical features: not considered

Mason County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 25,957	VOC (tpy): 3,644	%drive to work: 7 Huntington--Ashland, WV--
1990-2000 growth: 3.1%	NOx (tpy): 43,996	Wind direction: not considered

2000-2010 growth: -2.7%	1999 Veh. mi. travelled (mln): 198	Topographical features: not considered
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Mingo County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 28,253	VOC (tpy): 1,553	%drive to work: 1 Huntington--Ashland, WV--
1990-2000 growth: -16.3%	NOx (tpy): 2,878	Wind direction: not considered
2000-2010 growth: -6.4%	1999 Veh. mi. travelled (mln): 200	Topographical features: not considered

Monongalia County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: 79
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 81,866	VOC (tpy): 6,494	%drive to work: 2 Pittsburgh, PA MSA
1990-2000 growth: 8.4%	NOx (tpy): 35,919	Wind direction: not considered
2000-2010 growth: 11.3%	1999 Veh. mi. travelled (mln): 1,001	Topographical features: not considered

Morgan County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 14,943	VOC (tpy): 1,608	%drive to work: 41 Washington--Baltimore, DC
1990-2000 growth: 23.2%	NOx (tpy): 1,060	Wind direction: not considered
2000-2010 growth: 10.4%	1999 Veh. mi. travelled (mln): 100	Topographical features: not considered

Ohio County, West Virginia

2004 Designation: Nonattainment		County design value: 87
Area: Wheeling, WV-OH		
MSA or CMSA: Wheeling, WV-OH		
Justification: The Wheeling 8-hour ozone nonattainment area consists of Marshall County, WV and Ohio County, WV. The 1999 Wheeling MSA includes these two counties plus Belmont, OH.		
2000 Population: 47,427	VOC (tpy): 3,082	%drive to work: 88 Wheeling, WV--OH MSA
1990-2000 growth: -6.8%	NOx (tpy): 3,593	Wind direction: not considered
2000-2010 growth: -1.7%	1999 Veh. mi. travelled (mln): 427	Topographical features: not considered

Pleasants County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 7,514	VOC (tpy): 1,438	%drive to work: 35 Parkersburg--Marietta, WV
1990-2000 growth: -0.4%	NOx (tpy): 26,215	Wind direction: not considered
2000-2010 growth: -3.4%	1999 Veh. mi. travelled (mln): 54	Topographical features: not considered

Preston County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 29,334	VOC (tpy): 2,752	%drive to work: 1 Pittsburgh, PA MSA
1990-2000 growth: 1.0%	NOx (tpy): 5,686	Wind direction: not considered
2000-2010 growth: -4.1%	1999 Veh. mi. travelled (mln): 390	Topographical features: not considered

Putnam County, West Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Charleston, WV		
MSA or CMSA: Charleston, WV		

Justification: The Charleston 8-hour ozone nonattainment area consists of Kanawha and Putnam Counties in West Virginia. These two counties make up the entire 1999 Charleston, WV MSA.

2000 Population: 51,589	VOC (tpy): 4,711	%drive to work: 89 Charleston, WV MSA
1990-2000 growth: 20.4%	NOx (tpy): 59,135	Wind direction: not considered
2000-2010 growth: 10.0%	1999 Veh. mi. travelled (mln): 511	Topographical features: not considered

Raleigh County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 79,220	VOC (tpy): 6,215	%drive to work: 2 Charleston, WV MSA
1990-2000 growth: 3.1%	NOx (tpy): 4,900	Wind direction: not considered
2000-2010 growth: -10.7%	1999 Veh. mi. travelled (mln): 1,078	Topographical features: not considered

Ritchie County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 10,343	VOC (tpy): 781	%drive to work: 23 Parkersburg--Marietta, WV
1990-2000 growth: 1.1%	NOx (tpy): 721	Wind direction: not considered
2000-2010 growth: -5.0%	1999 Veh. mi. travelled (mln): 75	Topographical features: not considered

Roane County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 15,446	VOC (tpy): 1,628	%drive to work: 25 Charleston, WV

		MSA
1990-2000 growth: 2.1%	NOx (tpy): 1,130	Wind direction: not considered
2000-2010 growth: -4.7%	1999 Veh. mi. travelled (mln): 221	Topographical features: not considered

Tyler County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 9,592	VOC (tpy): 2,138	%drive to work: 8 Parkersburg--Marietta, WV
1990-2000 growth: -2.1%	NOx (tpy): 1,232	Wind direction: not considered
2000-2010 growth: 1.3%	1999 Veh. mi. travelled (mln): 64	Topographical features: not considered

Wayne County, West Virginia

2004 Designation: Nonattainment		County design value: N/A
Area: Huntington-Ashland, WV-KY		
MSA or CMSA: Huntington-Ashland, WV-KY-OH		
Justification: The West Virginia portion of the Huntington-Ashland 8-hour ozone nonattainment area consists of Cabell and Wayne counties. These counties are the only WV counties that make up the Huntington-Ashland MSA. The Huntington-Ashland MSA includes a total of 6 counties. In addition to Cabell County and Wayne County, it includes Boyd County, KY, Carter County, KY, Greenup County, KY, and Lawrence County, OH. The entire Huntington-Ashland nonattainment area consists of Cabell County, Wayne County and Boyd County.		
2000 Population: 42,903	VOC (tpy): 5,095	%drive to work: 89 Huntington--Ashland, WV--
1990-2000 growth: 3.0%	NOx (tpy): 6,602	Wind direction: not considered
2000-2010 growth: 0.3%	1999 Veh. mi. travelled (mln): 325	Topographical features: not considered

Wetzel County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 17,693	VOC (tpy): 2,053	%drive to work: 8 Wheeling, WV--OH

		MSA
1990-2000 growth: -8.1%	NOx (tpy): 4,475	Wind direction: not considered
2000-2010 growth: -11.7%	1999 Veh. mi. travelled (mln): 158	Topographical features: not considered

Wirt County, West Virginia

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating this county as unclassifiable/attainment. EPA's analysis of the 11 factors indicates that this county does not contribute to a violation at a nearby monitor. EPA, therefore, concludes that this county should be designated as unclassifiable/attainment.		
2000 Population: 5,873	VOC (tpy): 712	%drive to work: 54 Parkersburg--Marietta, WV
1990-2000 growth: 13.1%	NOx (tpy): 214	Wind direction: not considered
2000-2010 growth: -10.3%	1999 Veh. mi. travelled (mln): 26	Topographical features: not considered

Wood County, West Virginia

2004 Designation: Nonattainment		County design value: 87
Area: Parkersburg-Marietta, WV-OH		
MSA or CMSA: Parkersburg-Marietta, WV-OH		
Justification: The West Virginia portion of the Parkersburg-Marietta Area 8-hour ozone nonattainment area consists only of Wood, WV. The Parkersburg-Marietta MSA is a 2 county MSA consisting of Wood, WV and Washington, OH.		
2000 Population: 87,986	VOC (tpy): 8,265	%drive to work: 93 Parkersburg--Marietta, WV
1990-2000 growth: 1.2%	NOx (tpy): 7,145	Wind direction: not considered
2000-2010 growth: -4.6%	1999 Veh. mi. travelled (mln): 943	Topographical features: not considered

Brown County, Wisconsin

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: Green Bay, WI		
Justification: Monitoring attainment of the standard. Is not part of a C/MSA/MSA with a violating monitor. Low growth.		
2000 Population: 226,778	VOC (tpy): 13,957	%drive to work: 92 Green Bay, WI MSA
1990-2000 growth: 16.5%	NOx (tpy): 25,654	Wind direction: not considered
	1999 Veh. mi. travelled (mln):	

2000-2010 growth: -0.6%	2,246	Topographical features: not considered
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Calumet County, Wisconsin

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Appleton-Oshkosh-Neenah, WI		
Justification: The county does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor. It has low population, emissions, and growth for this area. Does not contribute to the nonattainment area.		
2000 Population: 40,631	VOC (tpy): 2,980	%drive to work: 3 Green Bay, WI MSA
1990-2000 growth: 18.5%	NOx (tpy): 2,277	Wind direction: not considered
2000-2010 growth: -7.0%	1999 Veh. mi. travelled (mln): 369	Topographical features: not considered

Dodge County, Wisconsin

2004 Designation: Unclassifiable/Attainment		County design value: 82
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: Monitoring attainment of the standard. Is not part of a C/MSA/MSA with a violating monitor. Low population, emissions, and growth for this area. Prevailing winds are from the southwest and northeast. The county is west of the nonattainment area and does not contribute to the nonattainment area.		
2000 Population: 85,897	VOC (tpy): 6,359	%drive to work: 19 Milwaukee--Racine, WI CMS
1990-2000 growth: 12.2%	NOx (tpy): 4,874	Wind direction: not considered
2000-2010 growth: -2.2%	1999 Veh. mi. travelled (mln): 774	Topographical features: not considered

Door County, Wisconsin

2004 Designation: Nonattainment		County design value: 94
Area: Door County, WI		
MSA or CMSA: - outside -		
Justification: Door County contains a monitor that is violating the standard. The State recommended this county as nonattainment and we agree. We are designating Door County as the Door County nonattainment area.		
2000 Population: 27,961	VOC (tpy): 6,135	%drive to work: 5 Green Bay, WI MSA
1990-2000 growth: 8.8%	NOx (tpy): 1,997	Wind direction: not considered
2000-2010 growth: -3.1%	1999 Veh. mi. travelled (mln): 275	Topographical features: not considered

Fond du Lac County, Wisconsin

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2004 Designation: Unclassifiable/Attainment		County design value: 80
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: This county is monitoring attainment of the standard. It is not part of a C/MSA/MSA with a violating monitor. Prevailing winds are from the southwest and northeast. The county is west of the nonattainment area and does not contribute to the nonattainment area.		
2000 Population: 97,296	VOC (tpy): 6,376	%drive to work: 2 Sheboygan, WI MSA
1990-2000 growth: 8.0%	NOx (tpy): 5,223	Wind direction: not considered
2000-2010 growth: -2.0%	1999 Veh. mi. travelled (mln): 816	Topographical features: not considered

Jefferson County, Wisconsin

2004 Designation: Unclassifiable/Attainment		County design value: 83
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: 2001-2003 data shows the county is monitoring attainment of the standard. It is not part of a C/MSA/MSA with a violating monitor. It is outside of the presumptive nonattainment area.		
2000 Population: 74,021	VOC (tpy): 5,642	%drive to work: 18 Milwaukee--Racine, WI CMS
1990-2000 growth: 9.2%	NOx (tpy): 5,284	Wind direction: not considered
2000-2010 growth: 3.2%	1999 Veh. mi. travelled (mln): 876	Topographical features: not considered

Kenosha County, Wisconsin

2004 Designation: Nonattainment		County design value: 101
Area: Milwaukee-Racine, WI		
MSA or CMSA: Chicago-Gary-Kenosha, IL-IN-WI		
Justification: Kenosha County contains a monitor in violation of the standard. Although Kenosha County is part of the Chicago-Gary-Kenosha, IL-IN-WI C/MSA, it was included as part of the Milwaukee-Racine nonattainment area for the one-hour standard. Both the Chicago-Gary area and the Milwaukee-Racine area are using the Kenosha site as the design monitor for the 1-hour standard. Wisconsin recommended that the county be designated nonattainment as part of the Milwaukee-Racine area for the 8-hour standard and EPA agrees.		
2000 Population: 149,577	VOC (tpy): 8,549	%drive to work: 13 Milwaukee--Racine, WI CMS
1990-2000 growth: 16.7%	NOx (tpy): 30,856	Wind direction: not considered
2000-2010 growth: 2.1%	1999 Veh. mi. travelled (mln): 1,276	Topographical features: not considered

Kewaunee County, Wisconsin

2004 Designation: Nonattainment		County design value: 93
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Area: Kewaunee County, WI		
MSA or CMSA: - outside -		
Justification: Kewaunee County contains a monitor that is violating the standard. The State recommended this county as nonattainment and we agree. We are designating Kewaunee County as the Kewaunee County nonattainment area.		
2000 Population: 20,187	VOC (tpy): 3,202	%drive to work: 33 Green Bay, WI MSA
1990-2000 growth: 6.9%	NOx (tpy): 1,500	Wind direction: not considered
2000-2010 growth: -2.2%	1999 Veh. mi. travelled (mln): 188	Topographical features: not considered

Manitowoc County, Wisconsin

2004 Designation: Nonattainment		County design value: 90
Area: Manitowoc County, WI		
MSA or CMSA: - outside -		
Justification: Manitowoc County contains a monitor that is violating the standard. The State recommended this county as nonattainment and we agree. We are designating Manitowoc County as the Manitowoc County nonattainment area.		
2000 Population: 82,887	VOC (tpy): 7,489	%drive to work: 9 Sheboygan, WI MSA
1990-2000 growth: 3.1%	NOx (tpy): 6,813	Wind direction: not considered
2000-2010 growth: 2.1%	1999 Veh. mi. travelled (mln): 1,041	Topographical features: not considered

Milwaukee County, Wisconsin

2004 Designation: Nonattainment		County design value: 94
Area: Milwaukee-Racine, WI		
MSA or CMSA: Milwaukee-Racine, WI		
Justification: Milwaukee County contains a monitor in violation of the standard and is part of the Milwaukee-Racine C/MSA. Wisconsin recommended that the county be designated nonattainment along with the rest of the C/MSA and EPA agrees. EPA is designating Milwaukee County as part of the Milwaukee-Racine nonattainment area.		
2000 Population: 940,164	VOC (tpy): 43,378	%drive to work: 98 Milwaukee--Racine, WI CMS
1990-2000 growth: -2.0%	NOx (tpy): 57,709	Wind direction: not considered
2000-2010 growth: 12.3%	1999 Veh. mi. travelled (mln): 9,265	Topographical features: not considered

Ozaukee County, Wisconsin

2004 Designation: Nonattainment		County design value: 98
Area: Milwaukee-Racine, WI		
MSA or CMSA: Milwaukee-Racine, WI		
Justification: Ozaukee County contains a monitor in violation of the standard and is part of the		

Milwaukee-Racine C/MSA. Wisconsin recommended that the county be designated nonattainment along with the rest of the C/MSA and EPA agrees. We are designating Ozaukee County as part of the Milwaukee-Racine nonattainment area.

2000 Population: 82,317	VOC (tpy): 6,074	%drive to work: 96 Milwaukee--Racine, WI CMS
1990-2000 growth: 13.0%	NOx (tpy): 6,965	Wind direction: not considered
2000-2010 growth: 5.9%	1999 Veh. mi. travelled (mln): 948	Topographical features: not considered

Racine County, Wisconsin

2004 Designation: Nonattainment		County design value: 95
Area: Milwaukee-Racine, WI		
MSA or CMSA: Milwaukee-Racine, WI		
Justification: Racine County contains a monitor in violation of the standard and is part of the Milwaukee-Racine C/MSA. Wisconsin recommended that the county be designated nonattainment along with the rest of the C/MSA and EPA agrees. We are designating Racine County as part of the Milwaukee-Racine nonattainment area.		
2000 Population: 188,831	VOC (tpy): 8,584	%drive to work: 88 Milwaukee--Racine, WI CMS
1990-2000 growth: 7.9%	NOx (tpy): 7,528	Wind direction: not considered
2000-2010 growth: 1.1%	1999 Veh. mi. travelled (mln): 1,388	Topographical features: not considered

Sheboygan County, Wisconsin

2004 Designation: Nonattainment		County design value: 100
Area: Sheboygan, WI		
MSA or CMSA: Sheboygan, WI		
Justification: Sheboygan County contains a monitor in violation of the standard. Wisconsin recommended that the county be designated nonattainment and EPA agrees. We are designating Sheboygan County as the Sheboygan County nonattainment area.		
2000 Population: 112,646	VOC (tpy): 7,825	%drive to work: 88 Sheboygan, WI MSA
1990-2000 growth: 8.4%	NOx (tpy): 21,997	Wind direction: not considered
2000-2010 growth: -3.5%	1999 Veh. mi. travelled (mln): 1,115	Topographical features: not considered

Walworth County, Wisconsin

2004 Designation: Unclassifiable/Attainment		County design value: 84
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: The county does not contain a violating monitor. It is not part of a C/MSA/MSA with a violating monitor.		

2000 Population: 93,759	VOC (tpy): 6,631	%drive to work: 16 Milwaukee--Racine, WI CMS
1990-2000 growth: 25.0%	NOx (tpy): 6,065	Wind direction: not considered
2000-2010 growth: - 3.4%	1999 Veh. mi. travelled (mln): 1,191	Topographical features: not considered

Washington County, Wisconsin

2004 Designation: Nonattainment		County design value: 83
Area: Milwaukee-Racine, WI		
MSA or CMSA: Milwaukee-Racine, WI		
Justification: Washington County is monitoring attainment of the standard, but is part of the Milwaukee-Racine C/MSA. Wisconsin recommended that the county be designated nonattainment along with the rest of the C/MSA and EPA agrees. We are designating Washington County as part of the Milwaukee-Racine nonattainment area.		
2000 Population: 117,493	VOC (tpy): 5,778	%drive to work: 96 Milwaukee--Racine, WI CMS
1990-2000 growth: 23.3%	NOx (tpy): 5,662	Wind direction: not considered
2000-2010 growth: 7.6%	1999 Veh. mi. travelled (mln): 1,080	Topographical features: not considered

Waukesha County, Wisconsin

2004 Designation: Nonattainment		County design value: 81
Area: Milwaukee-Racine, WI		
MSA or CMSA: Milwaukee-Racine, WI		
Justification: Waukesha County is monitoring attainment of the standard, but is part of the Milwaukee-Racine C/MSA. Wisconsin recommended that the county be designated nonattainment along with the rest of the C/MSA and EPA agrees. We are designating Waukesha County as part of the Milwaukee-Racine nonattainment area.		
2000 Population: 360,767	VOC (tpy): 18,295	%drive to work: 97 Milwaukee--Racine, WI CMS
1990-2000 growth: 18.4%	NOx (tpy): 17,024	Wind direction: not considered
2000-2010 growth: 2.7%	1999 Veh. mi. travelled (mln): 3,482	Topographical features: not considered

Winnebago County, Wisconsin

2004 Designation: Unclassifiable/Attainment		County design value: 82
Area: - attainment -		
MSA or CMSA: Appleton-Oshkosh-Neenah, WI		
Justification: This county is monitoring attainment of the standard. It is not part of a C/MSA/MSA with a violating monitor. Prevailing winds are from the southwest and northeast. The county is		

northwest/west of the nonattainment area and does not contribute to the nonattainment area.		
2000 Population: 156,763	VOC (tpy): 12,037	%drive to work: 1 Green Bay, WI MSA
1990-2000 growth: 11.7%	NOx (tpy): 7,661	Wind direction: not considered
2000-2010 growth: 0.1%	1999 Veh. mi. travelled (mln): 1,286	Topographical features: not considered

Laramie County, Wyoming

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Cheyenne, WY		
Justification: Laramie County is not within the Denver-Boulder-Greeley C/MSA and is in excess of 100 miles from the violating monitors in the Denver C/MSA. This county does not have an ozone monitor. Laramie County lies to the northwest of the Denver-Boulder-Greeley C/MSA, wholly within the State of Wyoming, with a rural, open setting. There is no indication from information available to EPA and from the ozone dispersion modeling that was developed for the Denver Early Action Compact ozone plan (that was approved by the Colorado Air Quality Control Commission on March 12, 2004 and submitted to EPA Air Docket no. 2003-0090) that Laramie County, Wyoming is contributing to ozone violations in the Denver C/MSA. Further, an evaluation of the eleven factors listed in the 8-hour ozone designation boundary guidance (ref. March 28, 2000) for Laramie County, Wyoming indicates that this county is not contributing to the ozone violations in the adjacent C/MSA.		
2000 Population: 81,607	VOC (tpy): 7,195	%drive to work:
1990-2000 growth: 11.6%	NOx (tpy): 35,484	Wind direction: not considered
2000-2010 growth: 6.2%	1999 Veh. mi. travelled (mln): 1,002	Topographical features: not considered

Sutter County, California

2004 Designation: Nonattainment		County design value: 88
Area: Sacramento Metro, CA		
MSA or CMSA: Yuba City, CA		
Justification: The southern portion of Sutter county is being designated nonattainment because of its inclusion in the Sacramento Metro 1-hour nonattainment area and its proximity to Sacramento county where there is a greater potential for growth from the Sacramento area. The Sutter Buttes nonattainment area consists of the Sutter Buttes around the highest elevations of the Sutter Buttes in northern Sutter County (see case ID #1080). EPA is designating the northern portion of Sutter county, excluding Sutter Buttes, as designated attainment/unclassifiable.		
2000 Population: 78,930	VOC (tpy): 6,378	%drive to work: 17 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 22.5%	NOx (tpy): 5,976	Wind direction: not considered
2000-2010 growth:	1999 Veh. mi. travelled	

27.2%	(mln): 674	Topographical features: not considered
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Sutter County, California

2004 Designation: Unclassifiable/Attainment		County design value: 88
Area: - attainment -		
MSA or CMSA: Yuba City, CA		
<p>Justification: This area includes the northern portion of Sutter county excluding the Sutter-Buttes nonattainment area. Air monitoring data in the populated parts of this area of Sutter county, including Yuba City, show attainment of the 8-hour ozone standard. The Yuba City site has a Design Value of 79 ppb. Two sites just outside this area also show attainment. They are Colusa, 4 miles away, with a DV of 75 ppb; and Pleasant Grove, 7 miles away, with a DV of 82 ppb. This area is mostly rural with one small city and is separated from the Sacramento urban area by miles of rural areas.</p> <p>The southern portion of Sutter County is designated nonattainment because of its inclusion in the Sacramento Metro 1-hour nonattainment area and its proximity to Sacramento County where there is a greater potential for growth from the Sacramento area. EPA is designating the remainder of Sutter County which excluding Sutter Buttes and southern Sutter County attainment/unclassifiable.</p>		
2000 Population: 78,930	VOC (tpy): 6,378	%drive to work: 17 Sacramento--Yolo, CA C/MSA
1990-2000 growth: 22.5%	NOx (tpy): 5,976	Wind direction: not considered
2000-2010 growth: 27.2%	1999 Veh. mi. travelled (mln): 674	Topographical features: not considered

Anderson County, Kansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
		%drive to work: 15 Kansas City, MO--

2000 Population: 8,110	VOC (tpy): 834	KS MSA
1990-2000 growth: 3.9%	NOx (tpy): 2,010	Wind direction: not considered
2000-2010 growth: -15.0%	1999 Veh. mi. travelled (mln): 74	Topographical features: not considered

Atchison County, Kansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 16,774	VOC (tpy): 1,171	%drive to work: 11 Kansas City, MO-- KS MSA
1990-2000 growth: -0.9%	NOx (tpy): 1,350	Wind direction: not considered
2000-2010 growth: -13.1%	1999 Veh. mi. travelled (mln): 137	Topographical features: not considered

Douglas County, Kansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Lawrence, KS		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested</p>		

attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 99,962	VOC (tpy): 4,862	%drive to work: 16 Kansas City, MO--KS MSA
1990-2000 growth: 22.2%	NOx (tpy): 11,298	Wind direction: not considered
2000-2010 growth: 2.0%	1999 Veh. mi. travelled (mln): 701	Topographical features: not considered

Franklin County, Kansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 24,784	VOC (tpy): 1,755	%drive to work: 28 Kansas City, MO--KS MSA
1990-2000 growth: 12.7%	NOx (tpy): 3,042	Wind direction: not considered
2000-2010 growth: -10.4%	1999 Veh. mi. travelled (mln): 399	Topographical features: not considered

Jefferson County, Kansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
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Area: - attainment -

MSA or CMSA: - outside -

Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.

On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 18,426	VOC (tpy): 1,363	%drive to work: 12 Kansas City, MO--KS MSA
1990-2000 growth: 15.9%	NOx (tpy): 1,816	Wind direction: not considered
2000-2010 growth: -4.4%	1999 Veh. mi. travelled (mln): 269	Topographical features: not considered

Johnson County, Kansas

2004 Designation: Unclassifiable	County design value: N/A
Area: Kansas City, KS-MO	
MSA or CMSA: Kansas City, MO-KS	
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.	
On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.	
EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be	

revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.		
2000 Population: 451,086	VOC (tpy): 25,244	%drive to work: 98 Kansas City, MO--KS MSA
1990-2000 growth: 27.0%	NOx (tpy): 23,235	Wind direction: not considered
2000-2010 growth: 23.0%	1999 Veh. mi. travelled (mln): 4,379	Topographical features: not considered

Leavenworth County, Kansas

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Kansas City, MO-KS		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p>		
<p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 68,691	VOC (tpy): 3,490	%drive to work: 94 Kansas City, MO--KS MSA
1990-2000 growth: 6.7%	NOx (tpy): 3,394	Wind direction: not considered
2000-2010 growth: 16.4%	1999 Veh. mi. travelled (mln): 601	Topographical features: not considered

Linn County, Kansas

2004 Designation: Unclassifiable		County design value: 75
Area: Kansas City, KS-MO		
MSA or CMSA: - outside -		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003</p>		

which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 9,570	VOC (tpy): 1,069	%drive to work: 41 Kansas City, MO--KS MSA
1990-2000 growth: 15.9%	NOx (tpy): 37,368	Wind direction: not considered
2000-2010 growth: -8.3%	1999 Veh. mi. travelled (mln): 138	Topographical features: not considered

Miami County, Kansas

2004 Designation: Unclassifiable		County design value: N/A
Area: Kansas City, KS-MO		
MSA or CMSA: Kansas City, MO-KS		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 28,351	VOC (tpy): 1,739	%drive to work: 94 Kansas City, MO--KS MSA
1990-2000 growth: 20.8%	NOx (tpy): 6,610	Wind direction: not considered
2000-2010 growth: -1.8%	1999 Veh. mi. travelled (mln): 265	Topographical features: not considered

Wyandotte County, Kansas

2004 Designation: Unclassifiable		County design value: 80
Area: Kansas City, KS-MO		
MSA or CMSA: Kansas City, MO-KS		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 157,882	VOC (tpy): 13,598	%drive to work: 98 Kansas City, MO--KS MSA
1990-2000 growth: -2.5%	NOx (tpy): 16,877	Wind direction: not considered
2000-2010 growth: -0.3%	1999 Veh. mi. travelled (mln): 1,838	Topographical features: not considered

Bates County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004</p>		

monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 16,653	VOC (tpy): 1,914	%drive to work: 33 Kansas City, MO--KS MSA
1990-2000 growth: 10.8%	NOx (tpy): 1,673	Wind direction: not considered
2000-2010 growth: 1.9%	1999 Veh. mi. travelled (mln): 172	Topographical features: not considered

Buchanan County, Missouri

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: St Joseph, MO		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 85,998	VOC (tpy): 6,558	%drive to work: 9 Kansas City, MO--KS MSA
1990-2000 growth: 3.5%	NOx (tpy): 9,085	Wind direction: not considered
2000-2010 growth: -5.3%	1999 Veh. mi. travelled (mln): 861	Topographical features: not considered

Caldwell County, Missouri

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		

On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

This county is adjacent to an area that is unclassifiable.

2000 Population: 8,969	VOC (tpy): 969	%drive to work: 43 Kansas City, MO--KS MSA
1990-2000 growth: 7.0%	NOx (tpy): 1,192	Wind direction: not considered
2000-2010 growth: 2.3%	1999 Veh. mi. travelled (mln): 123	Topographical features: not considered

Carroll County, Missouri

2004 Designation: Unclassifiable/Attainment	County design value: N/A
Area: - attainment -	
MSA or CMSA: - outside -	
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.	
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p>	
<p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>	
This county is adjacent to an area that is unclassifiable.	

2000 Population: 10,285	VOC (tpy): 1,458	%drive to work: 16 Kansas City, MO--KS MSA
1990-2000 growth: -4.3%	NOx (tpy): 2,107	Wind direction: not considered
2000-2010 growth: -9.1%	1999 Veh. mi. travelled (mln): 79	Topographical features: not considered

Cass County, Missouri

2004 Designation: Unclassifiable		County design value: 79
Area: Kansas City, MO-KS		
MSA or CMSA: Kansas City, MO-KS		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 82,092	VOC (tpy): 5,184	%drive to work: 98 Kansas City, MO--KS MSA
1990-2000 growth: 28.6%	NOx (tpy): 4,170	Wind direction: not considered
2000-2010 growth: 21.8%	1999 Veh. mi. travelled (mln): 803	Topographical features: not considered

Clay County, Missouri

2004 Designation: Unclassifiable		County design value: 84
Area: Kansas City, MO-KS		
MSA or CMSA: Kansas City, MO-KS		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the</p>		

states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 184,006	VOC (tpy): 12,442	%drive to work: 98 Kansas City, MO--KS MSA
1990-2000 growth: 19.9%	NOx (tpy): 10,122	Wind direction: not considered
2000-2010 growth: 9.3%	1999 Veh. mi. travelled (mln): 1,981	Topographical features: not considered

Clinton County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Kansas City, MO-KS		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 18,979	VOC (tpy): 1,802	%drive to work: 80 Kansas City, MO--KS MSA
1990-2000 growth: 14.4%	NOx (tpy): 1,643	Wind direction: not considered
2000-2010 growth: 13.1%	1999 Veh. mi. travelled (mln): 329	Topographical features: not considered

DeKalb County, Missouri

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2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 11,597	VOC (tpy): 1,272	%drive to work: 23 Kansas City, MO--KS MSA
1990-2000 growth: 16.4%	NOx (tpy): 984	Wind direction: not considered
2000-2010 growth: 20.8%	1999 Veh. mi. travelled (mln): 166	Topographical features: not considered

Henry County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations</p>		

and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 21,997	VOC (tpy): 3,367	%drive to work: 13 Kansas City, MO--KS MSA
1990-2000 growth: 9.7%	NOx (tpy): 7,850	Wind direction: not considered
2000-2010 growth: 3.5%	1999 Veh. mi. travelled (mln): 197	Topographical features: not considered

Jackson County, Missouri

2004 Designation: Unclassifiable	County design value: N/A	
Area: Kansas City, MO-KS		
MSA or CMSA: Kansas City, MO-KS		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 654,880	VOC (tpy): 38,562	%drive to work: 99 Kansas City, MO--KS MSA
1990-2000 growth: 3.4%	NOx (tpy): 57,877	Wind direction: not considered
2000-2010 growth: 0.9%	1999 Veh. mi. travelled (mln): 7,657	Topographical features: not considered

Johnson County, Missouri

2004 Designation: Unclassifiable/Attainment	County design value: N/A	
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty,</p>		

Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 48,258	VOC (tpy): 3,620	%drive to work: 23 Kansas City, MO--KS MSA
1990-2000 growth: 13.5%	NOx (tpy): 2,769	Wind direction: not considered
2000-2010 growth: 13.5%	1999 Veh. mi. travelled (mln): 521	Topographical features: not considered

Lafayette County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Kansas City, MO-KS		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 32,960	VOC (tpy): 3,406	%drive to work: 93 Kansas City, MO--KS MSA
1990-2000 growth: 6.0%	NOx (tpy): 4,080	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln):	Topographical features: not considered

Pettis County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p> <p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 39,403	VOC (tpy): 3,766	%drive to work: 2 Kansas City, MO--KS MSA
1990-2000 growth: 11.2%	NOx (tpy): 4,810	Wind direction: not considered
2000-2010 growth: 0.1%	1999 Veh. mi. travelled (mln): 349	Topographical features: not considered

Platte County, Missouri

2004 Designation: Unclassifiable		County design value: 80
Area: Kansas City, MO-KS		
MSA or CMSA: Kansas City, MO-KS		
<p>Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.</p> <p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p>		

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 73,781	VOC (tpy): 5,120	%drive to work: 97 Kansas City, MO--KS MSA
1990-2000 growth: 27.5%	NOx (tpy): 12,643	Wind direction: not considered
2000-2010 growth: 17.1%	1999 Veh. mi. travelled (mln): 975	Topographical features: not considered

Ray County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: Kansas City, MO-KS		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.		
<p>On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.</p>		
<p>EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.</p>		
2000 Population: 23,354	VOC (tpy): 2,146	%drive to work: 97 Kansas City, MO--KS MSA
1990-2000 growth: 6.3%	NOx (tpy): 3,324	Wind direction: not considered
2000-2010 growth: 6.5%	1999 Veh. mi. travelled (mln): 277	Topographical features: not considered

Saline County, Missouri

2004 Designation: Unclassifiable/Attainment		County design value: N/A
Area: - attainment -		
MSA or CMSA: - outside -		
Justification: EPA is designating the Kansas City, MO-KS counties of Cass, Clay, Jackson and Platte		

in Missouri and Johnson, Linn, Miami and Wyandotte counties in Kansas as unclassifiable.

On July 8, 2003, Missouri had requested that EPA flag ozone air quality data collected at the Liberty, Watkins Mill, and Rocky Creek monitoring sites in Kansas city for the days of April 12 and 13, 2003, and not include it in the designations process. EPA had responded with a letter December 12, 2003 which explained that the Kansas City area is eligible for an attainment designation if requested by the states. On January 22, 2004, the state of Kansas amended its recommendation and requested attainment for the area. On February 5, 2004, the state of Missouri revised its recommendation and requested attainment. EPA designated Kansas City as unclassifiable based on monitoring data from 2001-2003. EPA excluded a monitored value for April 12, 2003 in calculating the design value for the area.

EPA will work with both states to continue to evaluate the attainment status based on the 2004 monitoring data, as well as determine that appropriate boundaries should the area monitor violations and be designated nonattainment. The decision to designate the area as unclassifiable will allow EPA to evaluate the additional data from 2004 to determine whether and how the designation should be revised. EPA will determine whether to revise the area's designation after reviewing the 2004 data.

2000 Population: 23,756	VOC (tpy): 2,647	%drive to work: 6 Kansas City, MO--KS MSA
1990-2000 growth: 1.0%	NOx (tpy): 3,850	Wind direction: not considered
2000-2010 growth: -7.6%	1999 Veh. mi. travelled (mln): 440	Topographical features: not considered