OhioEPA
State of Ohio Environmental Protection Agency

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August 30, 2004

Bharat Mathur
Acting Regional Administrator
U.S. EPA, Region 5
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: PM 2.5 letter to Governor Taft

Dear Mr. Mathur:

I am responding on behalf of Governor Taft to your June 29, 2004 letter identifying U.S. EPA's proposed PM 2.5 nonattainment boundaries. I appreciate the opportunity to clarify our recommendations and to provide additional information in support of the final State of Ohio recommendations.

In general, I believe that the boundaries U.S. EPA is proposing are too broad. U.S. EPA is incorporating areas into the nonattainment regions that are not experiencing nonattainment air quality and do not include sources which will need to be controlled by the state to resolve the nonattainment air quality problem. The addition of these areas will unnecessarily subject several counties to new source review requirements which could further impact growth in areas which are already economically depressed. I wish to provide an alternative set of boundaries which will both define the problem more appropriately and allow the State of Ohio to implement a solution.

The nonattainment levels of PM 2.5 in Ohio consists of two major components. First, there is a regional component associated primarily, but not entirely, with sulfur dioxide and oxides of nitrogen from coal fired electric generating utilities. The second component is an urban/industrial component which is not as well defined at this time, but is impacting air quality in our urban cores.

The first component (sulfates, nitrates) has been significantly reduced by Title IV of the 1990 Clean Air Act Amendments. Monitors throughout the state and the region have shown measurable reductions as utilities implemented sulfur dioxide control programs to comply with phase two acid rain requirements. The Clean Air Interstate Rule (CAIR) should also result in significant additional air quality improvements throughout the region. U.S. EPA has previously indicated that several of our nonattainment areas will be solved by the implementation of CAIR. It is inconsistent for U.S. EPA to now attempt to ascribe culpability to emission sources surrounding an urban area which is forecasted by U.S. EPA to attain the standards without the need for additional local controls.

Ohio EPA's remaining concern is the identification and control of those sources associated with the urban/industrial excess in areas where the CAIR requirements will not be sufficient to attain the standards. U.S. EPA has made major assumptions about the source of the urban excess concentrations which have been found at the violating monitors. An extensive analysis was prepared by U.S. EPA which purports to identify the location of the sources of the urban excess. In this weighted emissions analysis, all emissions within and adjacent to the metropolitan area have been assumed to have equal potential to contribute to the urban excess. We believe this fundamental assumption underlying the weighted emissions analysis is flawed.

As was clearly demonstrated in Scioto County, local industrial sources can have a significant impact on monitored PM 2.5 concentrations. A monitor currently having a three year average above the standard has read values below the standard since the closing of New Boston Coke on April 2, 2002. Likewise, the distribution of monitored concentrations in cities such as Cleveland, Cincinnati, Detroit, Indianapolis, St. Louis and Chicago, as presented in PM 2.5 in Urban Areas in the Upper Midwest (Lake Michigan Air Directors, February 2004, enclosed) clearly shows the limited areal extent of the PM 2.5 urban excess. A significant component of these emissions is likely to be primary and secondary organic carbon from local industrial sources and nearby onroad and offroad diesel emissions. Suburban controls will not affect these contributors to elevated concentrations. While a certain component of the urban excess may be attributable to onroad light duty vehicles, it is not conceivable that an urban and suburban wide automobile control program would be developed to address the urban PM 2.5 violations.

The inclusion of adjacent "power plant" counties represents an inconsistent implementation of U.S. EPA's findings that all power plants in the NOx SIP Call/CAIR region contribute to nonattainment. For U.S. EPA to be consistent, all areas containing coal fired power plants should be designated nonattainment. Based on the technical support for both the NOx SIP call and the Clean Air Interstate Rule, U.S. EPA has indicated that all power plants within the region contribute significantly to nonattainment, but yet only counties with power plants that are in or adjacent to an area with a measured violation are included into the nonattainment area.

The inconsistent application of a nonattainment designations will put a number of counties in Ohio at a disadvantage to similar power plant counties in other states. This is especially unfortunate given the faulty logic U.S. EPA has used to justify this eleventh hour inclusion. For example, the inclusion of Adams County will not affect the ability of the Scioto County monitor to reach attainment. Air quality data indicate that the Scioto County monitor is already attaining the standard without the implementation of the CAIR requirements or the area being designated nonattainment.

Including all power plant counties, though, is not what we would propose. Ohio EPA does not believe that designating power plant counties nonattainment will improve air quality or in any way assist states in developing plans to bring attainment to these areas. Adams, Ashtabula, Belmont, Coshocton and Gallia Counties should not be designated nonattainment.

Washington County has been identified by U.S. EPA as an additional county that would be included as part of the Parkersburg-Marietta nonattainment area. Washington County is part of the Parkersburg-Marietta MSA. In addition to the CAIR requirements, though, Ohio EPA believes that the recently approved SIP revision to the AMP Ohio Gorsuch facility greatly reduces the potential emissions of PM 2.5 precursors. The monitor in this area is also trending downward and should attain the standard by January 2005. Washington County should be excluded from the list of nonattainment areas.

In addition, Ohio EPA believes that Geauga County should not be included in the nonattainment designation for the Cleveland nonattainment area. U.S. EPA has proposed to include Geauga County even though it only has a weighted emissions score of 3.6. U.S. EPA has cited commuting patterns and population growth as the justifications for inclusion even though Geauga County has the second lowest total commuting numbers in the MSA. It does have a high percentage of commuters, but that represents a high percentage of a small number. The only County in the MSA with lower commuting numbers than Geauga County is Ashtabula County.

It should also be noted that population growth in Geauga County has occurred primarily in the population sector greater than 50 years old. There was a significant decrease in population aged between 20-40 years old. People are moving to Geauga County to retire, not to commute to downtown Cleveland.

The State of Ohio also believes that Scioto, Lawrence, Lucas, Mahoning and Trumbull Counties and Wood County, West Virginia are now monitoring attainment of the standard and are not significantly contributing to air quality problems. Air quality data for these counties over the most recent ten quarters of ambient data are attaining the PM 2.5 standards. It is clear that these areas will have collected three years of attainment air quality data by the time the U.S. EPA designations become effective in 2005.

Columbiana, Wood and Washington Counties are also part of Metropolitan areas which the State of Ohio believes are now attaining the PM 2.5 ambient standards. As noted above, design values in Lucas, Mahoning and Trumbull Counties for the most recent ten quarters are below the PM 2.5 standards. Inclusion of these counties as nonattainment would serve no purpose. Air quality trends have clearly shown improvement and no local controls will be necessary. These areas should not be classified nonattainment and efforts

should not be expended developing State Implementation Plans for these areas. Nonattainment new source review should not apply. Likewise, resources should not be expended to designate an area nonattainment only to immediately initiate an effort to redesignate the area back to attainment.

Please call if you have any questions.

Sincerely,

Christopher Jones
Director

enclosures

Attachments

Additional Information Concerning Counties Which Should be Excluded from the Nonattainment Designations..

Ohio Department of Development County Population Projections

PM 2.5 in Urban Areas in the Upper Midwest Midwest RPO, Feb. 2004

PM 2.5 Ambient Data Summary

EIS 1999-2002 Point Source Emissions Summary

Cleveland/Erie wind rose

Additional Information Concerning Counties
Which Should be Excluded from the Nonattainment Designations

Power Plant Controls

Several facilities have installed controls in response to the NOx SIP call. These facilities include: SCR : Avon Lake, Eastlake, Cardinal, Gavin, Keiger Creek, Killen, Miami Fort, Sammis, Stuart and Zimmer. With respect to the counties which we are requesting to be excluded from the nonattainment list, Killen and Stuart are in Adams County and Gavin and Kyger Creek are in Gallia County.

Ohio EPA is also in the process of reviewing permit applications and modeling protocols for the installation of sulfur dioxide scrubbers for several facilities. A permit application (or a determination of environmentally beneficial project by the Director) for scrubbers at Miami Fort units 7 and 8 is currently being processed. Modeling protocols have been submitted for scrubber installations at Cardinal, Killen and Stuart. Killen and Stuart are in Adams County. The rise in the cost of SO2 allowances is partially responsible for driving these utilities to install this equipment.

Geauga and Ashtabula Counties

Geauga and Ashtabula Counties are part of the Cleveland/Akron/Ashtabula combined metropolitan statistical area. These counties only combine for 6.6% of the CMSA population, have the lowest VMT in the proposed nonattainment area and, on an annual average basis, are downwind of the monitored violations. While neither of these counties are currently monitored, there are monitors measuring attainment between these counties and the monitors exhibiting the urban excess. Ohio does not believe that these areas are experiencing or significantly contributing to the nonattainment problems in Cleveland or Akron.

Based on data from the EPA Clean Air Markets database, Emissions have been reduced at the Ashtabula plant since 1996 due to various unit retirements and reductions inutilization. In fact, it appears that emissions at the plant have been reduced from approximately 67,000 tons of SO2 to 2600 tons and a reduction in NOx emissions from approximately 4800 to 1700 tons over the same period. In addition Ashtabula County is generally downwind of the Cleveland nonattainment area. Windroses from Cleveland and Erie, PA, based on National Weather Service meteorological data collected from 1984 - 1992, show that there are relatively few occurrences of winds that would transport emissions from Ashtabula County to Cleveland. Additional emission controls on sources in Ashtabula County would do little or nothing to achieve attainment in the Cleveland area.

Washington County
Washington County is part of the Parkersburg/Marietta MSA. The area has one monitor, located in Wood County, West Virginia. Annual average concentrations for this monitor have been significantly decreasing. Annual average concentrations for the period 2001 to present are 2001, 17.4 ug/m3, 2002, 15.8 ug/m3, 2003, 14.9 ug/m3 and 2004 (so far) 12.7 ug/m3. The most recent three year average, including the 2004 partial year, is 14.47 ug/m3. The improvement at this monitor is obviously attributable to reductions associated with compliance with Title IV of the Clean Air Act Amendments of 1990. This area will clearly attain the annual PM 2.5 standard by the proposed effective date for PM 2.5 designations in early 2005.

Scioto County
Scioto County contains one monitoring location. Based on the complete three year period 2001-2003, that monitor was not attaining the PM 2.5 annual standard. The peak three year average annual concentration for the period 1999-2001 was 22.03 ug/m3. The three year annual average concentration for the period 2001-2003 at that monitor was 17.23 ug/m3. Based on the most recent 10 quarters, (January 2002-June 2004), the highest annual average concentration is 14.37 ug/m3. The improvement at this monitor is obviously attributable to the shutdown of the New Boston Coke facility in April of 2002 as well as the reductions associated with the compliance with Title IV of the Clean Air Act Amendments of 1990. This area will clearly attain the annual PM 2.5 standard by the proposed effective date for PM 2.5 designations in early 2005.

Lawrence County
Lawrence County contains one monitoring location. Based on the complete three year period 2001-2003, that monitor was not attaining the PM 2.5 annual standard. The peak three year average annual concentration for the period 1999-2001 was 17.67 ug/m3. The three year annual average concentration for the period 2001-2003 at that monitor was 15.83 ug/m3. Based on the most recent 10 quarters, (January 2002-June 2004), the highest annual average concentration is 14.03 ug/m3. The improvement at this monitor is obviously attributable to reductions associated with compliance with Title IV of the Clean Air Act Amendments of 1990. This area will clearly attain the annual PM 2.5 standard by the proposed effective date for PM 2.5 designations in early 2005.

Toledo MSA
The Toledo MSA contains three monitoring locations. Based on the complete three year period 2001-2003, there was one monitor not attaining the PM 2.5 annual standard. The peak three year average annual concentration for the period 1999-2001 was 16.97 ug/m3. The three year annual average concentration for the period 2001-2003 at that monitor was 15.07 ug/m3. Based on the most recent 10 quarters, (January 2002-June 2004), the highest annual average concentration is 14.03 ug/m3. The improvement in this area is obviously attributable to the reductions associated with compliance with Title IV of the Clean Air Act Amendments of 1990. This area will clearly attain the annual PM 2.5 standard by the proposed effective date for PM 2.5 designations in early 2005.

Youngstown MSA

The Youngstown MSA currently contains four monitors. During the period 2001-2003, there were two monitors with three years worth of data. The peak three year average annual concentration for the period 1999-2001 was 16.43 ug/m3. The highest three year annual average concentration for the period 2001-2003 was 15.20 ug/m3. Based n the most recent 10 quarters, (January 2002-June 2004), the highest annual average concentration is14.10 ug/m3. The improvement in this area is obviously attributable to the reductions associated with compliance with Title IV of the Clean Air Act Amendments of 1990. This area will clearly attain the annual PM 2.5 standard by the proposed effective date for PM 2.5 designations in early 2005.

Columbiana County

Columbiana County is part of the Youngstown/Warren MSA. The MSA also includes Mahoning and Trumbull Counties. Columbiana County should be excluded from this MSA nonattainment even if the remainder of the MSA is retained. Columbiana County should be excluded due to:

- Proximity to the source region/nonattainment area: Columbiana County is located south of the Youngstown urban/industrial area. The area would not be expected to be impacted by, nor should it be considered a receptor for, the Youngstown area.
- Population: The population of Columbiana County is 112,075 which is 19% of the total MSA (594,746).
- Emissions: Columbiana County emissions of SO2, VOC and NOx are 1 291, 6157 and 5511 tons per year, respectively. MSA total emissions of VOC and NOx are 40,968 and 39,376 tons per year, respectively. Columbiana County is near the Steubenville and Canton MSA's but is northeast (downwind) of a primarily rural/agricultural area.
- Land use: Columbiana County is over 96% wooded or agricultural.

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: GEAUGA

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	6,270	3,200	3,070	6,110	3,180	2,930	6,330	3,230	3,100
5-9	6,770	3,460	3,310	7,250	3,670	3,580	6,550	3,410	3,140
10-14	7,370	3,730	3,630	7,790	3,980	3,810	7,290	3,690	3,600
15-19	6,710	3,430	3,280	7,380	3,750	3,630	6,980	3,580	3,410
20-24	5,660	2,840	2,810	4,760	2,450	2,310	6,690	3,350	3,340
25-29	3,930	1,970	1,950	4,140	1,950	2,190	4,900	2,470	2,430
30-34	4,600	2,250	2,350	4,390	2,100	2,290	4,730	2,210	2,520
35-39	5,990	2,940	3,060	6,020	2,890	3,130	4,960	2,400	2,560
40-44	7,260	3,450	3,810	7,320	3,670	3,650	6,280	3,030	3,250
45-49	8,360	4,120	4,240	7,820	3,730	4,080	7,360	3,660	3,690
50-54	7,560	3,830	3,730	8,440	4,170	4,270	7,700	3,690	4,010
55-59	6,730	3,280	3,450	7,330	3,710	3,620	8,200	4,020	4,180
60-64	5,230	2,570	2,650	6,260	3,000	3,260	6,890	3,410	3,480
65-69	3,680	1,830	1,850	4,790	2,320	2,470	5,780	2,730	3,050
70-74	2,790	1,280	1,520	3,130	1,470	1,650	4,240	1,980	2,260
75-79	2,290	1,000	1,290	2,310	990	1,310	2,620	1,150	1,470
80-84	1,740	690	1,050	1,810	720	1,080	1,800	710	1,090
85+	1,520	460	1,070	1,770	500	1,270	1,970	660	1,320
TOTAL	94,440	46,320	48,120	98,820	48,270	50,550	101,290	49,390	51,900

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	6,810	3,530	3,280	7,220	3,700	3,530	7,620	3,930	3,690
5-9	7,060	3,580	3,480	7,040	3,640	3,400	7,660	3,900	3,750
10-14	7,310	3,790	3,520	7,080	3,590	3,490	7,490	3,870	3,620
15-19	7,290	3,700	3,600	6,880	3,580	3,300	7,080	3,600	3,480
20-24	5,530	2,850	2,680	6,930	3,480	3,440	6,010	3,140	2,870
25-29	5,560	2,670	2,880	5,600	2,850	2,750	6,240	3,080	3,170
30-34	5,240	2,560	2,680	5,850	2,800	3,050	5,780	2,900	2,890
35-39	5,780	2,680	3,100	5,520	2,700	2,820	6,450	3,070	3,390
40-44	5,950	2,950	3,000	5,910	2,750	3,160	6,100	3,020	3,080
45-49	6,690	3,230	3,460	5,960	2,930	3,030	6,140	2,850	3,290
50-54	7,410	3,700	3,710	6,600	3,200	3,400	5,970	2,940	3,030
55-59	7,490	3,580	3,910	7,210	3,570	3,640	6,430	3,090	3,330
60-64	7,680	3,700	3,980	7,070	3,300	3,770	6,780	3,290	3,490
65-69	6,370	3,110	3,260	7,140	3,390	3,750	6,570	3,020	3,550
70-74	5,020	2,260	2,760	5,630	2,650	2,980	6,260	2,850	3,410
75-79	3,490	1,540	1,960	4,170	1,760	2,410	4,640	2,050	2,590
80-84	2,060	840	1,210	2,700	1,130	1,570	3,220	1,300	1,920
85+	2,070	670	1,400	2,290	840	1,450	2,740	1,050	1,690
TOTAL	104,810	50,940	53,880	106,790	51,860	54,940	109,180	52,950	56,230

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	6,370	3,250	3,130	6,160	3,150	3,010	-3.4%	-2.9%	-3.9%
5-9	6,580	3,380	3,200	7,320	3,710	3,610	11.3%	9.9%	12.7%
10-14	6,500	3,340	3,170	7,830	3,990	3,840	20.4%	19.5%	21.3%
15-19	5,940	3,160	2,780	6,600	3,400	3,210	11.3%	7.6%	15.4%
20-24	4,540	2,340	2,200	3,710	1,930	1,780	-18.1%	-17.3%	-19.0%
25-29	4,880	2,340	2,540	3,770	1,880	1,890	-22.8%	-19.9%	-25.5%
30-34	6,430	3,090	3,340	5,190	2,510	2,690	-19.2%	-18.8%	-19.5%
35-39	6,910	3,470	3,440	6,890	3,250	3,640	-0.2%	-6.2%	5.8%
40-44	6,840	3,340	3,500	8,300	4,110	4,190	21.3%	22.9%	19.7%
45-49	5,850	2,910	2,940	7,680	3,870	3,810	31.3%	33.2%	29.5%
50-54	4,460	2,250	2,200	6,950	3,400	3,550	56.0%	51.1%	61.1%
55-59	3,720	1,850	1,870	5,580	2,810	2,770	50.1%	51.7%	48.6%
60-64	3,500	1,750	1,750	4,030	2,050	1,990	15.1%	16.9%	13.4%
65-69	3,030	1,440	1,590	3,160	1,500	1,650	4.2%	4.6%	3.8%
70-74	2,270	1,030	1,240	2,730	1,290	1,450	20.2%	25.0%	16.3%
75-79	1,640	690	960	2,240	970	1,270	36.4%	42.2%	32.2%
80-84	940	350	600	1,470	540	930	55.9%	56.4%	55.6%
85+	750	180	560	1,280	350	940	72.3%	91.7%	66.1%
TOTAL	81,130	40,130	41,000	90,900	44,700	46,190	12.0%	11.4%	12.7%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: ASHTABULA

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	6,520	3,280	3,240	5,760	2,880	2,870	5,500	2,750	2,750
5-9	7,350	3,610	3,730	7,200	3,560	3,630	6,420	3,160	3,260
10-14	8,150	4,080	4,070	8,080	3,970	4,110	7,920	3,920	4,010
15-19	7,650	4,010	3,640	7,870	3,960	3,910	7,800	3,850	3,950
20-24	4,870	2,450	2,430	5,460	2,860	2,600	5,650	2,800	2,860
25-29	3,850	1,800	2,050	3,610	1,710	1,900	4,170	2,110	2,070
30-34	6,840	3,450	3,390	4,850	2,420	2,430	4,600	2,330	2,270
35-39	7,760	3,980	3,770	7,890	4,130	3,760	5,910	3,110	2,800
40-44	8,370	4,260	4,110	8,320	4,330	3,990	8,450	4,470	3,980
45-49	8,210	4,120	4,090	8,370	4,310	4,060	8,320	4,380	3,940
50-54	7,680	3,900	3,780	8,150	4,120	4,030	8,300	4,300	4,000
55-59	6,490	3,220	3,270	7,480	3,820	3,650	7,930	4,030	3,900
60-64	5,250	2,580	2,670	6,230	3,070	3,150	7,120	3,600	3,520
65-69	4,160	2,010	2,150	4,940	2,430	2,510	5,810	2,860	2,960
70-74	3,500	1,580	1,920	3,680	1,710	1,980	4,340	2,050	2,290
75-79	3,230	1,370	1,850	2,940	1,270	1,660	3,080	1,370	1,710
80-84	2,260	850	1,400	2,330	890	1,440	2,140	820	1,310
85+	1,790	450	1,350	1,830	440	1,380	1,890	460	1,430
TOTAL	103,920	51,010	52,900	104,970	51,890	53,080	105,370	52,370	53,000

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	5,610	2,810	2,810	5,850	2,930	2,920	5,880	2,940	2,940
5-9	6,200	3,050	3,160	6,300	3,090	3,200	6,570	3,230	3,340
10-14	7,190	3,540	3,660	6,940	3,410	3,540	7,080	3,470	3,610
15-19	7,660	3,810	3,860	6,930	3,430	3,500	6,700	3,310	3,390
20-24	5,730	2,770	2,960	5,500	2,680	2,820	4,920	2,380	2,540
25-29	4,450	2,090	2,360	4,480	2,040	2,440	4,340	2,000	2,340
30-34	5,220	2,760	2,460	5,470	2,730	2,740	5,550	2,710	2,840
35-39	5,720	3,060	2,660	6,300	3,460	2,840	6,610	3,470	3,140
40-44	6,520	3,480	3,040	6,320	3,420	2,890	6,920	3,840	3,080
45-49	8,460	4,520	3,930	6,550	3,550	3,000	6,360	3,500	2,860
50-54	8,260	4,380	3,890	8,390	4,510	3,880	6,540	3,570	2,960
55-59	8,080	4,210	3,870	8,040	4,270	3,770	8,170	4,410	3,760
60-64	7,550	3,800	3,750	7,680	3,950	3,730	7,650	4,020	3,630
65-69	6,620	3,330	3,300	7,000	3,490	3,510	7,120	3,630	3,490
70-74	5,080	2,390	2,690	5,750	2,770	2,980	6,080	2,910	3,170
75-79	3,610	1,630	1,980	4,200	1,890	2,310	4,740	2,180	2,550
80-84	2,250	890	1,360	2,620	1,060	1,560	3,050	1,230	1,820
85+	1,850	450	1,410	1,890	470	1,420	2,140	590	1,550
TOTAL	106,090	52,960	53,130	106,200	53,150	53,050	106,420	53,390	53,030

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	7,310	3,830	3,480	6,730	3,350	3,370	-8.1%	-12.4%	-3.2%
5-9	7,620	3,860	3,760	7,470	3,750	3,720	-1.9%	-2.8%	-1.0%
10-14	7,760	3,930	3,830	7,960	4,140	3,810	2.6%	5.4%	-0.3%
15-19	7,400	3,730	3,670	7,280	3,710	3,570	-1.6%	-0.4%	-2.8%
20-24	5,980	2,870	3,120	5,230	2,600	2,630	-12.6%	-9.2%	-15.6%
25-29	6,960	3,370	3,580	5,930	2,890	3,050	-14.7%	-14.5%	-15.0%
30-34	7,800	3,830	3,970	6,790	3,360	3,430	-13.0%	-12.4%	-13.5%
35-39	7,830	3,940	3,890	7,850	3,940	3,910	0.3%	0.2%	0.4%
40-44	6,740	3,300	3,440	8,220	4,080	4,140	22.1%	23.6%	20.6%
45-49	5,630	2,750	2,880	7,730	3,900	3,830	37.3%	41.8%	33.1%
50-54	4,640	2,250	2,390	6,650	3,280	3,370	43.5%	45.9%	41.2%
55-59	4,570	2,200	2,370	5,440	2,690	2,750	19.2%	22.5%	16.0%
60-64	4,920	2,340	2,580	4,390	2,110	2,280	-10.9%	-9.9%	-11.8%
65-69	4,590	2,120	2,470	3,950	1,860	2,100	-13.8%	-12.2%	-15.2%
70-74	3,940	1,690	2,250	3,880	1,720	2,160	-1.4%	2.1%	-4.0%
75-79	2,890	1,160	1,730	3,140	1,330	1,820	8.8%	14.8%	4.8%
80-84	1,860	650	1,210	2,260	860	1,400	21.8%	32.3%	16.2%
85+	1,400	420	980	1,810	500	1,320	29.3%	18.3%	34.0%
TOTAL	99,820	48,220	51,600	102,730	50,070	52,660	2.9%	3.8%	2.1%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: ADAMS

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	1,970	1,040	930	1,900	950	950	1,980	1,050	930
5-9	1,890	900	990	2,120	1,150	960	2,080	1,040	1,050
10-14	2,040	1,050	990	2,090	990	1,100	2,100	1,150	950
15-19	1,880	940	930	2,030	1,040	990	1,770	810	960
20-24	1,810	880	920	1,540	750	790	1,800	920	880
25-29	1,780	890	890	1,550	740	810	1,670	830	840
30-34	1,840	920	920	1,900	960	940	1,690	800	890
35-39	1,970	1,030	950	1,990	980	1,010	2,090	1,080	1,010
40-44	2,030	990	1,040	2,180	1,150	1,030	2,050	1,030	1,020
45-49	2,170	1,060	1,110	2,080	1,030	1,050	2,230	1,170	1,050
50-54	1,920	990	920	2,200	1,080	1,110	2,100	1,050	1,050
55-59	1,720	860	860	1,930	990	940	2,230	1,090	1,140
60-64	1,440	690	750	1,780	870	900	1,880	950	930
65-69	1,200	600	600	1,370	680	690	1,640	810	830
70-74	890	400	480	1,070	510	560	1,110	530	580
75-79	760	340	420	710	320	390	860	380	480
80-84	480	190	290	500	200	300	470	190	280
85+	480	140	340	480	140	330	520	170	350
TOTAL	28,260	13,920	14,340	29,410	14,560	14,850	30,280	15,050	15,240

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	1,890	930	950	1,990	1,070	910	1,850	900	950
5-9	2,180	1,210	970	2,150	1,060	1,100	2,260	1,280	970
10-14	2,370	1,170	1,200	2,160	1,210	960	2,520	1,230	1,290
15-19	2,090	1,140	950	1,900	900	1,000	2,150	1,200	950
20-24	1,310	550	760	1,760	960	790	1,290	560	730
25-29	1,440	720	730	1,510	670	840	1,290	710	590
30-34	1,850	940	910	1,660	810	840	1,750	820	930
35-39	1,910	900	1,010	2,130	1,110	1,020	1,950	950	1,010
40-44	2,390	1,260	1,130	2,010	980	1,030	2,530	1,350	1,180
45-49	2,130	1,100	1,030	2,470	1,300	1,170	2,130	1,080	1,050
50-54	2,290	1,220	1,080	2,210	1,150	1,060	2,580	1,370	1,210
55-59	2,160	1,070	1,090	2,390	1,260	1,130	2,310	1,190	1,120
60-64	2,310	1,120	1,190	2,130	1,050	1,080	2,530	1,310	1,220
65-69	1,790	930	860	2,150	1,040	1,100	2,060	1,050	1,000
70-74	1,470	690	780	1,440	720	720	1,920	890	1,030
75-79	870	410	460	1,170	510	660	1,120	560	570
80-84	560	220	340	580	240	330	760	300	470
85+	470	140	330	540	170	370	510	160	360
TOTAL	31,490	15,720	15,770	32,340	16,220	16,120	33,510	16,890	16,620

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	1,840	950	890	1,760	830	920	-4.7%	-12.4%	3.6%
5-9	2,000	990	1,010	2,050	1,050	1,000	2.8%	6.4%	-0.7%
10-14	2,170	1,110	1,060	2,120	1,080	1,040	-2.3%	-2.5%	-2.2%
15-19	2,120	1,080	1,030	1,980	980	1,000	-6.5%	-9.9%	-2.9%
20-24	1,680	850	830	1,680	830	850	0.3%	-1.7%	2.3%
25-29	1,790	880	910	1,740	880	860	-3.0%	-0.2%	-5.6%
30-34	1,870	890	980	1,830	950	890	-2.1%	5.9%	-9.5%
35-39	1,830	920	910	1,990	960	1,040	8.9%	4.3%	13.6%
40-44	1,660	850	820	2,150	1,050	1,100	29.4%	24.6%	34.4%
45-49	1,430	700	730	1,910	990	920	33.1%	40.6%	26.0%
50-54	1,240	620	610	1,700	860	840	37.8%	38.3%	37.3%
55-59	1,160	560	600	1,480	720	760	28.1%	28.8%	27.5%
60-64	1,160	590	570	1,300	650	650	12.0%	11.1%	12.9%
65-69	1,110	520	590	1,090	520	570	-1.2%	0.6%	-2.7%
70-74	870	400	470	940	450	490	8.2%	14.4%	3.0%
75-79	670	280	400	710	310	400	6.3%	13.8%	1.0%
80-84	440	180	260	490	180	310	11.4%	0.6%	18.8%
85+	350	110	250	410	110	300	16.4%	1.9%	22.8%
TOTAL	25,370	12,450	12,920	27,330	13,400	13,930	7.7%	7.6%	7.9%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
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OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: SCIOTO

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	5,200	2,660	2,540	5,100	2,610	2,490	4,840	2,480	2,360
5-9	5,080	2,650	2,430	5,150	2,630	2,520	5,120	2,630	2,490
10-14	5,000	2,540	2,460	5,170	2,740	2,440	5,120	2,630	2,490
15-19	5,370	2,860	2,510	5,210	2,750	2,460	5,430	2,980	2,450
20-24	5,600	2,990	2,610	4,830	2,590	2,240	5,140	2,750	2,390
25-29	5,400	2,860	2,530	5,130	2,760	2,380	4,920	2,710	2,200
30-34	5,330	2,700	2,630	5,400	2,800	2,600	4,990	2,620	2,370
35-39	5,330	2,720	2,610	5,370	2,730	2,640	5,350	2,770	2,590
40-44	5,540	2,730	2,810	5,200	2,630	2,570	5,180	2,590	2,600
45-49	5,790	2,820	2,960	5,340	2,590	2,740	5,000	2,470	2,530
50-54	5,240	2,610	2,630	5,610	2,710	2,900	5,140	2,460	2,680
55-59	4,740	2,300	2,440	5,050	2,500	2,550	5,370	2,550	2,820
60-64	3,740	1,720	2,020	4,420	2,100	2,320	4,640	2,250	2,390
65-69	3,320	1,500	1,820	3,400	1,530	1,870	3,880	1,780	2,100
70-74	2,730	1,170	1,560	2,840	1,200	1,640	2,880	1,190	1,690
75-79	2,450	950	1,500	2,180	880	1,300	2,270	880	1,390
80-84	1,730	550	1,180	1,760	590	1,170	1,600	560	1,040
85+	1,590	470	1,130	1,660	470	1,180	1,900	580	1,320
TOTAL	79,180	38,820	40,360	78,820	38,820	40,000	78,790	38,880	39,910

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	4,830	2,470	2,360	4,860	2,490	2,370	5,110	2,620	2,490
5-9	4,810	2,460	2,350	4,810	2,460	2,350	4,840	2,480	2,360
10-14	5,180	2,690	2,490	4,870	2,510	2,360	4,860	2,510	2,350
15-19	5,460	2,920	2,530	5,790	3,150	2,640	5,300	2,880	2,420
20-24	5,140	2,860	2,280	5,660	3,100	2,560	5,640	3,110	2,520
25-29	4,900	2,670	2,230	5,190	2,980	2,210	5,540	3,110	2,430
30-34	4,840	2,600	2,240	4,690	2,480	2,210	5,050	2,830	2,230
35-39	4,990	2,620	2,370	4,770	2,540	2,230	4,670	2,460	2,210
40-44	5,190	2,640	2,550	4,790	2,450	2,340	4,590	2,390	2,200
45-49	4,970	2,430	2,540	4,960	2,450	2,510	4,570	2,270	2,300
50-54	4,830	2,350	2,480	4,760	2,270	2,490	4,770	2,310	2,460
55-59	4,940	2,330	2,600	4,580	2,190	2,400	4,560	2,140	2,420
60-64	4,960	2,300	2,660	4,490	2,060	2,430	4,230	1,970	2,260
65-69	4,130	1,940	2,190	4,340	1,930	2,410	3,990	1,770	2,220
70-74	3,300	1,410	1,890	3,490	1,500	1,990	3,690	1,510	2,180
75-79	2,310	890	1,420	2,660	1,050	1,610	2,800	1,120	1,680
80-84	1,680	570	1,110	1,770	600	1,170	1,970	680	1,300
85+	1,850	580	1,280	2,030	650	1,390	2,080	650	1,420
TOTAL	78,330	38,740	39,590	78,510	38,840	39,670	78,270	38,820	39,450

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	5,320	2,690	2,630	5,030	2,600	2,420	-5.6%	-3.3%	-7.9%
5-9	6,070	3,180	2,900	5,120	2,600	2,520	-15.7%	-18.1%	-13.1%
10-14	6,290	3,210	3,080	5,520	2,870	2,660	-12.2%	-10.7%	-13.8%
15-19	6,220	3,170	3,050	6,020	3,230	2,790	-3.2%	1.8%	-8.5%
20-24	4,960	2,520	2,440	5,260	2,720	2,530	6.0%	8.2%	3.7%
25-29	5,890	3,050	2,840	5,400	2,780	2,620	-8.3%	-8.8%	-7.8%
30-34	6,400	3,340	3,060	5,340	2,720	2,620	-16.5%	-18.5%	-14.3%
35-39	5,910	3,120	2,800	5,720	2,850	2,870	-3.3%	-8.4%	2.4%
40-44	5,210	2,630	2,580	5,960	2,950	3,010	14.4%	12.3%	16.5%
45-49	4,240	1,990	2,250	5,400	2,720	2,680	27.3%	36.6%	19.1%
50-54	4,030	1,930	2,100	4,900	2,410	2,490	21.4%	24.4%	18.6%
55-59	3,750	1,760	2,000	3,980	1,860	2,130	6.0%	5.6%	6.5%
60-64	4,090	1,850	2,240	3,740	1,730	2,010	-8.4%	-6.5%	-10.1%
65-69	3,720	1,570	2,150	3,240	1,480	1,760	-13.0%	-6.0%	-18.1%
70-74	2,960	1,210	1,750	3,120	1,310	1,810	5.4%	8.3%	3.4%
75-79	2,220	800	1,420	2,460	910	1,550	11.0%	15.0%	8.8%
80-84	1,670	560	1,110	1,600	540	1,060	-4.3%	-3.4%	-4.7%
85+	1,380	400	980	1,410	380	1,030	2.4%	-4.8%	5.3%
TOTAL	80,330	38,960	41,370	79,200	38,650	40,540	-1.4%	-0.8%	-2.0%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: LAWRENCE

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	3,540	1,790	1,750	3,660	1,840	1,820	4,130	2,090	2,040
5-9	3,700	1,910	1,790	3,450	1,700	1,750	3,520	1,750	1,770
10-14	4,330	2,210	2,120	3,480	1,760	1,720	3,540	1,770	1,770
15-19	4,940	2,600	2,340	4,420	2,300	2,120	4,020	2,100	1,920
20-24	4,880	2,490	2,400	5,790	3,110	2,690	4,830	2,570	2,270
25-29	3,370	1,580	1,790	5,680	3,000	2,680	5,490	2,900	2,590
30-34	3,670	1,710	1,960	3,040	1,350	1,680	5,490	2,870	2,620
35-39	4,330	2,130	2,200	3,370	1,500	1,870	3,040	1,340	1,700
40-44	4,440	2,060	2,380	4,250	2,070	2,180	3,260	1,410	1,850
45-49	4,610	2,190	2,420	4,270	1,900	2,360	4,170	1,970	2,190
50-54	4,230	2,060	2,170	4,420	2,030	2,390	4,060	1,810	2,250
55-59	3,930	1,880	2,050	3,870	1,860	2,010	4,140	1,840	2,300
60-64	3,200	1,500	1,710	3,530	1,610	1,910	3,460	1,630	1,830
65-69	2,650	1,180	1,480	2,670	1,170	1,500	3,080	1,320	1,760
70-74	2,260	1,010	1,250	2,170	880	1,290	2,310	980	1,330
75-79	1,840	680	1,160	1,760	700	1,060	1,660	580	1,070
80-84	1,450	550	890	1,340	430	900	1,380	510	870
85+	1,200	390	810	1,750	650	1,100	1,770	620	1,150
TOTAL	62,580	29,920	32,670	62,910	29,880	33,040	63,350	30,060	33,290

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	3,940	1,980	1,960	3,970	2,010	1,960	3,530	1,770	1,760
5-9	4,020	1,980	2,040	3,800	1,900	1,910	3,850	1,890	1,960
10-14	3,270	1,590	1,680	4,110	2,050	2,060	3,520	1,710	1,810
15-19	3,650	1,870	1,780	3,820	1,930	1,890	4,240	2,170	2,070
20-24	5,000	2,680	2,310	4,060	2,140	1,930	4,900	2,580	2,320
25-29	5,750	3,160	2,590	4,690	2,470	2,220	5,090	2,800	2,290
30-34	5,100	2,630	2,470	5,550	3,020	2,530	4,280	2,190	2,090
35-39	5,140	2,620	2,520	5,090	2,610	2,480	5,170	2,750	2,420
40-44	2,970	1,290	1,690	5,010	2,530	2,490	4,990	2,530	2,460
45-49	3,100	1,250	1,840	2,920	1,210	1,710	4,800	2,320	2,480
50-54	3,990	1,810	2,180	2,920	1,180	1,740	2,770	1,060	1,710
55-59	3,690	1,620	2,070	3,730	1,640	2,100	2,600	1,020	1,570
60-64	3,720	1,570	2,150	3,310	1,420	1,890	3,340	1,380	1,960
65-69	2,880	1,270	1,610	3,260	1,280	1,980	2,730	1,080	1,650
70-74	2,520	990	1,530	2,490	1,060	1,430	2,670	950	1,720
75-79	1,810	680	1,130	1,930	660	1,280	1,960	740	1,220
80-84	1,230	370	860	1,430	500	930	1,430	420	1,010
85+	2,060	770	1,290	1,880	650	1,240	2,200	800	1,400
TOTAL	63,830	30,130	33,700	63,990	30,240	33,750	64,060	30,160	33,900

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	4,110	2,070	2,040	3,840	2,000	1,840	-6.7%	-3.6%	-9.8%
5-9	4,620	2,340	2,280	4,240	2,140	2,100	-8.1%	-8.3%	-7.8%
10-14	4,910	2,540	2,370	4,410	2,270	2,140	-10.1%	-10.6%	-9.7%
15-19	5,040	2,600	2,430	4,480	2,230	2,250	-11.1%	-14.5%	-7.5%
20-24	3,980	1,900	2,080	3,650	1,780	1,880	-8.2%	-6.8%	-9.6%
25-29	4,270	1,950	2,320	3,840	1,830	2,020	-9.9%	-6.2%	-13.0%
30-34	4,760	2,300	2,450	4,340	2,150	2,190	-8.8%	-6.8%	-10.7%
35-39	4,460	2,110	2,350	4,560	2,160	2,410	2.2%	1.9%	2.4%
40-44	4,320	2,070	2,250	4,700	2,290	2,410	8.8%	10.9%	6.9%
45-49	3,700	1,800	1,900	4,450	2,160	2,290	20.3%	20.4%	20.2%
50-54	3,330	1,560	1,770	4,200	2,070	2,130	26.3%	32.8%	20.5%
55-59	3,010	1,440	1,570	3,580	1,710	1,870	18.9%	18.7%	19.1%
60-64	3,110	1,420	1,690	3,050	1,440	1,610	-2.0%	1.5%	-4.9%
65-69	2,830	1,260	1,570	2,620	1,210	1,410	-7.4%	-4.4%	-9.8%
70-74	2,090	870	1,220	2,430	1,040	1,390	16.1%	19.5%	13.7%
75-79	1,610	610	1,000	1,870	770	1,100	16.4%	25.6%	10.7%
80-84	990	340	660	1,160	410	750	16.6%	21.5%	14.2%
85+	700	230	470	890	260	630	27.5%	11.7%	35.3%
TOTAL	61,830	29,420	32,420	62,320	29,900	32,420	0.8%	1.6%	0.0%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: GALLIA

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	1,870	970	900	2,050	1,040	1,020	2,140	1,110	1,040
5-9	1,920	990	930	1,800	950	850	2,010	1,010	1,000
10-14	2,140	1,050	1,090	1,870	960	910	1,830	970	860
15-19	2,520	1,310	1,210	2,370	1,170	1,200	2,170	1,110	1,060
20-24	2,590	1,370	1,220	2,810	1,490	1,320	2,550	1,300	1,250
25-29	1,840	920	920	2,520	1,360	1,160	2,570	1,360	1,200
30-34	1,790	880	920	1,820	900	920	2,470	1,320	1,150
35-39	1,830	860	970	1,740	840	910	1,830	890	930
40-44	2,370	1,150	1,220	1,820	830	990	1,720	810	910
45-49	2,450	1,200	1,260	2,320	1,100	1,220	1,790	800	980
50-54	2,200	1,080	1,120	2,390	1,140	1,250	2,260	1,050	1,210
55-59	1,890	930	960	2,090	1,000	1,080	2,280	1,060	1,220
60-64	1,610	750	860	1,730	820	910	1,920	900	1,020
65-69	1,390	660	730	1,430	640	790	1,590	730	850
70-74	1,180	530	650	1,230	560	670	1,280	540	740
75-79	830	360	470	970	390	580	980	400	580
80-84	640	200	440	620	230	380	750	250	500
85+	520	130	390	660	160	500	650	160	490
TOTAL	31,580	15,340	16,250	32,230	15,560	16,670	32,780	15,770	17,000

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	2,180	1,100	1,080	2,010	1,050	960	2,030	1,030	1,010
5-9	2,070	1,090	980	2,100	1,060	1,050	1,930	1,030	900
10-14	1,960	970	980	2,130	1,130	1,000	2,050	1,020	1,030
15-19	2,090	1,100	990	2,400	1,200	1,200	2,420	1,270	1,140
20-24	2,470	1,300	1,180	2,380	1,310	1,080	2,720	1,400	1,320
25-29	2,450	1,270	1,180	2,210	1,160	1,040	2,260	1,270	990
30-34	2,540	1,330	1,200	2,380	1,210	1,160	2,180	1,130	1,050
35-39	2,420	1,280	1,140	2,540	1,310	1,230	2,320	1,170	1,150
40-44	1,820	860	960	2,380	1,230	1,150	2,530	1,280	1,250
45-49	1,690	770	920	1,790	820	960	2,330	1,170	1,160
50-54	1,750	760	990	1,640	720	910	1,750	790	970
55-59	2,150	970	1,180	1,640	690	950	1,540	660	880
60-64	2,090	940	1,150	1,960	860	1,100	1,500	600	900
65-69	1,720	780	940	1,920	840	1,080	1,750	740	1,010
70-74	1,400	620	790	1,540	660	890	1,700	710	990
75-79	1,060	400	660	1,130	450	670	1,270	490	790
80-84	730	260	470	840	270	580	840	290	550
85+	770	190	580	790	190	600	890	210	690
TOTAL	33,360	15,990	17,360	33,770	16,150	17,620	34,020	16,250	17,780

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	2,110	1,100	1,010	1,960	1,020	940	-7.0%	-7.2%	-6.8%
5-9	2,420	1,300	1,120	2,110	1,030	1,080	-13.0%	-20.6%	-4.2%
10-14	2,370	1,210	1,160	2,250	1,180	1,080	-5.1%	-3.2%	-7.0%
15-19	2,440	1,290	1,150	2,420	1,250	1,170	-0.9%	-3.1%	1.6%
20-24	2,050	1,000	1,050	2,050	1,030	1,030	0.2%	3.3%	-2.8%
25-29	2,300	1,110	1,190	1,830	910	920	-20.3%	-17.9%	-22.6%
30-34	2,580	1,240	1,340	1,820	870	960	-29.3%	-30.3%	-28.5%
35-39	2,300	1,130	1,180	2,400	1,180	1,220	4.2%	5.0%	3.5%
40-44	2,070	1,030	1,040	2,490	1,230	1,260	20.6%	19.4%	21.8%
45-49	1,830	880	950	2,260	1,130	1,130	23.8%	28.8%	19.2%
50-54	1,630	810	820	1,990	1,000	990	22.2%	23.4%	21.0%
55-59	1,500	740	770	1,750	830	920	16.3%	13.2%	19.2%
60-64	1,380	700	680	1,520	740	780	10.1%	6.8%	13.5%
65-69	1,300	550	750	1,320	630	700	2.1%	14.4%	-7.0%
70-74	940	410	530	1,040	500	540	10.5%	22.4%	1.3%
75-79	820	330	480	830	310	520	1.3%	-6.0%	6.4%
80-84	530	180	350	530	180	350	-0.8%	-2.7%	0.3%
85+	390	140	250	490	150	340	26.4%	10.2%	35.2%
TOTAL	30,950	15,130	15,820	31,070	15,170	15,900	0.4%	0.2%	0.5%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: COSHOCTON

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	2,230	1,150	1,080	2,250	1,160	1,090	2,440	1,260	1,180
5-9	2,460	1,240	1,220	2,290	1,180	1,110	2,420	1,250	1,170
10-14	2,610	1,320	1,290	2,530	1,280	1,250	2,270	1,180	1,090
15-19	2,560	1,300	1,260	2,580	1,300	1,280	2,130	1,060	1,070
20-24	2,630	1,400	1,230	2,380	1,200	1,180	2,340	1,190	1,140
25-29	1,910	960	950	2,540	1,360	1,180	2,470	1,240	1,230
30-34	2,200	1,150	1,050	1,960	980	990	2,700	1,460	1,240
35-39	2,340	1,150	1,190	2,240	1,190	1,050	2,070	1,060	1,010
40-44	2,730	1,350	1,380	2,370	1,170	1,200	2,270	1,220	1,050
45-49	2,910	1,440	1,470	2,710	1,340	1,370	2,360	1,160	1,190
50-54	2,620	1,330	1,290	2,860	1,410	1,450	2,690	1,320	1,370
55-59	2,360	1,150	1,200	2,550	1,280	1,270	2,810	1,370	1,440
60-64	1,800	840	950	2,230	1,070	1,150	2,410	1,190	1,220
65-69	1,640	760	880	1,630	740	890	2,000	940	1,070
70-74	1,260	570	690	1,440	640	800	1,440	630	810
75-79	1,160	480	680	1,040	440	600	1,160	480	680
80-84	860	310	550	830	300	530	800	290	510
85+	600	170	430	640	170	470	670	180	490
TOTAL	36,890	18,080	18,810	37,070	18,210	18,860	37,420	18,470	18,950

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	2,400	1,230	1,160	2,360	1,220	1,140	2,080	1,080	1,000
5-9	2,550	1,320	1,230	2,660	1,380	1,280	2,540	1,320	1,220
10-14	2,540	1,320	1,230	2,530	1,320	1,210	2,850	1,490	1,370
15-19	2,220	1,150	1,060	1,920	980	940	2,450	1,290	1,170
20-24	1,770	860	910	1,840	980	860	1,380	680	700
25-29	2,190	1,130	1,050	1,910	930	980	1,620	900	720
30-34	2,590	1,280	1,310	2,440	1,290	1,140	2,100	1,000	1,100
35-39	2,800	1,540	1,260	2,760	1,410	1,350	2,600	1,420	1,180
40-44	2,140	1,110	1,030	2,840	1,590	1,250	2,870	1,490	1,380
45-49	2,260	1,230	1,030	2,140	1,110	1,030	2,830	1,600	1,230
50-54	2,330	1,140	1,190	2,260	1,210	1,050	2,120	1,080	1,040
55-59	2,620	1,270	1,350	2,310	1,120	1,190	2,210	1,170	1,040
60-64	2,660	1,280	1,380	2,490	1,180	1,300	2,220	1,060	1,160
65-69	2,180	1,040	1,140	2,390	1,120	1,280	2,260	1,040	1,220
70-74	1,750	790	960	1,920	890	1,030	2,090	940	1,150
75-79	1,200	490	700	1,400	590	810	1,590	690	900
80-84	830	300	530	930	330	600	990	370	620
85+	690	190	500	730	200	530	810	220	590
TOTAL	37,700	18,660	19,030	37,820	18,840	18,980	37,610	18,820	18,780

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	2,560	1,300	1,260	2,350	1,180	1,170	-8.0%	-9.0%	-6.9%
5-9	2,920	1,530	1,390	2,620	1,320	1,300	-10.2%	-13.7%	-6.3%
10-14	2,690	1,400	1,300	2,850	1,460	1,390	5.7%	4.1%	7.4%
15-19	2,430	1,220	1,210	2,800	1,480	1,320	15.4%	21.2%	9.5%
20-24	2,010	990	1,010	1,850	940	910	-7.9%	-5.8%	-10.0%
25-29	2,480	1,160	1,330	2,090	1,090	1,000	-15.8%	-6.1%	-24.3%
30-34	2,780	1,350	1,430	2,280	1,100	1,180	-18.3%	-19.0%	-17.6%
35-39	2,680	1,340	1,340	2,730	1,340	1,390	1.8%	-0.3%	3.9%
40-44	2,480	1,230	1,240	2,930	1,460	1,480	18.4%	18.2%	18.6%
45-49	1,950	950	1,000	2,660	1,360	1,300	35.9%	42.6%	29.4%
50-54	1,880	910	970	2,410	1,190	1,220	28.2%	30.3%	26.3%
55-59	1,650	810	840	1,900	910	990	15.0%	12.3%	17.7%
60-64	1,810	850	960	1,820	870	950	0.4%	2.1%	-1.1%
65-69	1,600	720	880	1,430	670	760	-10.7%	-7.6%	-13.3%
70-74	1,360	590	760	1,430	640	800	5.5%	7.3%	4.2%
75-79	990	380	600	1,160	470	680	17.4%	24.1%	13.1%
80-84	660	230	430	780	290	490	18.9%	28.4%	13.9%
85+	510	150	360	580	170	410	14.4%	12.9%	15.0%
TOTAL	35,430	17,120	18,310	36,660	17,910	18,750	3.5%	4.6%	2.4%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
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OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: BELMONT

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	3,180	1,630	1,560	3,310	1,700	1,610	3,460	1,770	1,690
5-9	3,430	1,770	1,650	3,170	1,620	1,550	3,150	1,600	1,550
10-14	4,200	2,170	2,030	3,430	1,770	1,660	3,280	1,670	1,610
15-19	5,110	2,720	2,400	4,310	2,260	2,050	4,120	2,190	1,930
20-24	5,330	3,020	2,320	5,700	3,280	2,420	5,220	3,040	2,190
25-29	3,600	1,950	1,640	5,260	2,930	2,330	5,470	3,100	2,370
30-34	3,900	2,130	1,770	3,550	1,920	1,630	5,050	2,790	2,270
35-39	4,180	2,180	2,000	3,760	2,000	1,750	3,350	1,760	1,590
40-44	4,920	2,490	2,430	4,110	2,120	1,990	3,640	1,910	1,740
45-49	5,700	2,760	2,940	4,750	2,340	2,410	3,940	1,960	1,970
50-54	5,380	2,660	2,720	5,500	2,610	2,890	4,540	2,190	2,360
55-59	4,700	2,360	2,340	5,160	2,500	2,650	5,220	2,420	2,800
60-64	3,320	1,570	1,740	4,370	2,130	2,240	4,770	2,240	2,530
65-69	3,050	1,350	1,710	3,020	1,390	1,630	3,930	1,870	2,070
70-74	2,620	1,130	1,490	2,670	1,130	1,540	2,630	1,150	1,480
75-79	2,730	1,020	1,710	2,160	850	1,310	2,210	840	1,370
80-84	2,210	790	1,420	2,100	700	1,410	1,820	660	1,170
85+	1,650	440	1,210	1,710	470	1,240	1,780	490	1,290
TOTAL	69,200	34,130	35,070	68,030	33,730	34,300	67,600	33,640	33,960

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	3,390	1,740	1,650	3,190	1,630	1,560	2,870	1,480	1,390
5-9	3,430	1,750	1,680	3,200	1,630	1,570	3,130	1,590	1,540
10-14	3,130	1,580	1,540	3,560	1,810	1,750	3,060	1,540	1,530
15-19	3,420	1,790	1,630	3,960	2,090	1,860	3,780	1,970	1,810
20-24	4,920	2,910	2,000	4,500	2,700	1,810	5,310	3,160	2,140
25-29	5,220	2,980	2,240	4,650	2,710	1,940	4,820	2,820	2,000
30-34	5,400	3,050	2,350	4,990	2,820	2,160	4,540	2,640	1,900
35-39	4,860	2,620	2,230	5,150	2,860	2,290	4,640	2,560	2,080
40-44	3,270	1,700	1,580	4,710	2,510	2,210	4,980	2,730	2,250
45-49	3,470	1,750	1,720	3,090	1,530	1,560	4,450	2,280	2,170
50-54	3,760	1,820	1,940	3,270	1,590	1,680	2,900	1,370	1,530
55-59	4,340	2,050	2,300	3,530	1,660	1,870	3,090	1,470	1,620
60-64	4,850	2,170	2,680	4,000	1,810	2,190	3,220	1,450	1,770
65-69	4,340	1,970	2,370	4,370	1,900	2,470	3,610	1,560	2,050
70-74	3,410	1,550	1,860	3,760	1,620	2,140	3,760	1,560	2,200
75-79	2,170	850	1,310	2,810	1,150	1,650	3,070	1,190	1,880
80-84	1,750	580	1,170	1,880	680	1,190	2,190	790	1,410
85+	1,690	480	1,220	1,690	470	1,220	1,910	590	1,320
TOTAL	66,810	33,360	33,450	66,320	33,170	33,150	65,340	32,740	32,600

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	4,190	2,140	2,050	3,530	1,830	1,700	-15.8%	-14.4%	-17.3%
5-9	4,730	2,390	2,340	4,120	2,130	1,990	-12.8%	-10.8%	-14.9%
10-14	4,920	2,500	2,420	4,650	2,420	2,230	-5.6%	-3.2%	-8.0%
15-19	4,870	2,520	2,350	4,630	2,390	2,230	-4.9%	-5.0%	-4.9%
20-24	3,850	1,890	1,960	3,780	2,100	1,680	-1.9%	11.2%	-14.5%
25-29	4,360	2,060	2,290	4,040	2,220	1,820	-7.3%	7.7%	-20.7%
30-34	5,490	2,610	2,880	4,340	2,320	2,030	-20.9%	-11.2%	-29.6%
35-39	5,440	2,660	2,780	5,020	2,570	2,450	-7.8%	-3.4%	-12.0%
40-44	4,980	2,520	2,460	5,870	2,910	2,960	17.9%	15.7%	20.2%
45-49	3,700	1,810	1,890	5,590	2,820	2,770	51.0%	55.3%	46.9%
50-54	3,610	1,680	1,930	4,940	2,530	2,410	37.0%	50.8%	24.9%
55-59	3,500	1,620	1,880	3,590	1,760	1,820	2.5%	8.7%	-2.8%
60-64	4,120	1,850	2,270	3,380	1,540	1,840	-18.0%	-16.9%	-19.0%
65-69	4,030	1,750	2,270	3,010	1,370	1,640	-25.2%	-22.1%	-27.6%
70-74	3,610	1,450	2,160	3,320	1,370	1,950	-8.0%	-5.8%	-9.5%
75-79	2,770	1,080	1,700	2,780	1,090	1,690	0.3%	1.6%	-0.6%
80-84	1,660	540	1,120	2,140	710	1,430	29.2%	33.3%	27.2%
85+	1,260	330	920	1,500	380	1,120	19.6%	13.8%	21.6%
TOTAL	71,070	33,410	37,670	70,230	34,470	35,750	-1.2%	3.2%	-5.1%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: COSHOCTON

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	2,230	1,150	1,080	2,250	1,160	1,090	2,440	1,260	1,180
5-9	2,460	1,240	1,220	2,290	1,180	1,110	2,420	1,250	1,170
10-14	2,610	1,320	1,290	2,530	1,280	1,250	2,270	1,180	1,090
15-19	2,560	1,300	1,260	2,580	1,300	1,280	2,130	1,060	1,070
20-24	2,630	1,400	1,230	2,380	1,200	1,180	2,340	1,190	1,140
25-29	1,910	960	950	2,540	1,360	1,180	2,470	1,240	1,230
30-34	2,200	1,150	1,050	1,960	980	990	2,700	1,460	1,240
35-39	2,340	1,150	1,190	2,240	1,190	1,050	2,070	1,060	1,010
40-44	2,730	1,350	1,380	2,370	1,170	1,200	2,270	1,220	1,050
45-49	2,910	1,440	1,470	2,710	1,340	1,370	2,360	1,160	1,190
50-54	2,620	1,330	1,290	2,860	1,410	1,450	2,690	1,320	1,370
55-59	2,360	1,150	1,200	2,550	1,280	1,270	2,810	1,370	1,440
60-64	1,800	840	950	2,230	1,070	1,150	2,410	1,190	1,220
65-69	1,640	760	880	1,630	740	890	2,000	940	1,070
70-74	1,260	570	690	1,440	640	800	1,440	630	810
75-79	1,160	480	680	1,040	440	600	1,160	480	680
80-84	860	310	550	830	300	530	800	290	510
85+	600	170	430	640	170	470	670	180	490
TOTAL	36,890	18,080	18,810	37,070	18,210	18,860	37,420	18,470	18,950

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	2,400	1,230	1,160	2,360	1,220	1,140	2,080	1,080	1,000
5-9	2,550	1,320	1,230	2,660	1,380	1,280	2,540	1,320	1,220
10-14	2,540	1,320	1,230	2,530	1,320	1,210	2,850	1,490	1,370
15-19	2,220	1,150	1,060	1,920	980	940	2,450	1,290	1,170
20-24	1,770	860	910	1,840	980	860	1,380	680	700
25-29	2,190	1,130	1,050	1,910	930	980	1,620	900	720
30-34	2,590	1,280	1,310	2,440	1,290	1,140	2,100	1,000	1,100
35-39	2,800	1,540	1,260	2,760	1,410	1,350	2,600	1,420	1,180
40-44	2,140	1,110	1,030	2,840	1,590	1,250	2,870	1,490	1,380
45-49	2,260	1,230	1,030	2,140	1,110	1,030	2,830	1,600	1,230
50-54	2,330	1,140	1,190	2,260	1,210	1,050	2,120	1,080	1,040
55-59	2,620	1,270	1,350	2,310	1,120	1,190	2,210	1,170	1,040
60-64	2,660	1,280	1,380	2,490	1,180	1,300	2,220	1,060	1,160
65-69	2,180	1,040	1,140	2,390	1,120	1,280	2,260	1,040	1,220
70-74	1,750	790	960	1,920	890	1,030	2,090	940	1,150
75-79	1,200	490	700	1,400	590	810	1,590	690	900
80-84	830	300	530	930	330	600	990	370	620
85+	690	190	500	730	200	530	810	220	590
TOTAL	37,700	18,660	19,030	37,820	18,840	18,980	37,610	18,820	18,780

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	2,560	1,300	1,260	2,350	1,180	1,170	-8.0%	-9.0%	-6.9%
5-9	2,920	1,530	1,390	2,620	1,320	1,300	-10.2%	-13.7%	-6.3%
10-14	2,690	1,400	1,300	2,850	1,460	1,390	5.7%	4.1%	7.4%
15-19	2,430	1,220	1,210	2,800	1,480	1,320	15.4%	21.2%	9.5%
20-24	2,010	990	1,010	1,850	940	910	-7.9%	-5.8%	-10.0%
25-29	2,480	1,160	1,330	2,090	1,090	1,000	-15.8%	-6.1%	-24.3%
30-34	2,780	1,350	1,430	2,280	1,100	1,180	-18.3%	-19.0%	-17.6%
35-39	2,680	1,340	1,340	2,730	1,340	1,390	1.8%	-0.3%	3.9%
40-44	2,480	1,230	1,240	2,930	1,460	1,480	18.4%	18.2%	18.6%
45-49	1,950	950	1,000	2,660	1,360	1,300	35.9%	42.6%	29.4%
50-54	1,880	910	970	2,410	1,190	1,220	28.2%	30.3%	26.3%
55-59	1,650	810	840	1,900	910	990	15.0%	12.3%	17.7%
60-64	1,810	850	960	1,820	870	950	0.4%	2.1%	-1.1%
65-69	1,600	720	880	1,430	670	760	-10.7%	-7.6%	-13.3%
70-74	1,360	590	760	1,430	640	800	5.5%	7.3%	4.2%
75-79	990	380	600	1,160	470	680	17.4%	24.1%	13.1%
80-84	660	230	430	780	290	490	18.9%	28.4%	13.9%
85+	510	150	360	580	170	410	14.4%	12.9%	15.0%
TOTAL	35,430	17,120	18,310	36,660	17,910	18,750	3.5%	4.6%	2.4%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: LUCAS

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	28,810	14,770	14,030	27,290	13,990	13,310	25,800	13,230	12,570
5-9	30,400	15,640	14,760	28,000	14,350	13,650	26,780	13,790	13,000
10-14	33,020	16,850	16,170	29,920	15,460	14,450	27,180	13,920	13,260
15-19	35,470	17,930	17,550	33,990	17,300	16,700	31,560	16,090	15,470
20-24	31,500	15,680	15,820	34,290	17,140	17,150	32,790	16,580	16,210
25-29	29,150	14,170	14,970	30,120	14,820	15,300	32,150	16,070	16,080
30-34	30,490	14,920	15,570	27,960	13,600	14,350	28,860	14,190	14,680
35-39	29,230	14,470	14,760	29,200	14,280	14,920	27,010	13,190	13,820
40-44	32,620	15,850	16,770	28,070	13,930	14,140	28,330	13,870	14,460
45-49	34,250	16,680	17,570	31,490	15,260	16,230	27,090	13,420	13,670
50-54	31,400	15,280	16,120	32,890	15,970	16,920	30,300	14,600	15,700
55-59	26,660	12,900	13,760	29,530	14,200	15,320	31,000	14,890	16,110
60-64	18,680	8,700	9,980	24,170	11,480	12,690	26,930	12,690	14,240
65-69	14,750	6,730	8,020	16,380	7,410	8,970	21,410	9,870	11,540
70-74	12,520	5,330	7,190	12,660	5,550	7,110	13,970	6,070	7,910
75-79	12,470	4,950	7,520	10,080	3,900	6,180	10,290	4,120	6,170
80-84	9,030	3,200	5,830	9,140	3,370	5,770	7,240	2,520	4,730
85+	8,830	2,550	6,280	9,700	2,950	6,750	10,660	3,490	7,170
TOTAL	449,290	216,600	232,690	444,870	214,960	229,910	439,370	212,600	226,770

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	24,920	12,770	12,150	23,110	11,860	11,260	21,280	10,910	10,370
5-9	25,280	12,960	12,320	24,550	12,630	11,920	22,750	11,670	11,080
10-14	26,500	13,680	12,810	24,710	12,660	12,040	24,360	12,570	11,790
15-19	28,780	14,700	14,080	28,550	14,570	13,980	26,800	13,700	13,110
20-24	30,420	15,400	15,020	27,580	14,030	13,560	27,370	13,910	13,460
25-29	31,390	15,750	15,640	28,440	14,390	14,040	26,120	13,190	12,930
30-34	31,330	15,650	15,680	30,440	15,260	15,180	27,850	14,090	13,760
35-39	28,020	13,770	14,260	30,600	15,320	15,270	29,820	14,940	14,880
40-44	26,190	12,800	13,390	27,320	13,430	13,900	29,900	14,970	14,930
45-49	27,460	13,400	14,060	25,360	12,360	13,000	26,570	13,000	13,570
50-54	26,110	12,890	13,230	26,500	12,840	13,650	24,530	11,890	12,640
55-59	28,620	13,620	15,000	24,610	12,010	12,600	25,050	11,990	13,060
60-64	28,310	13,330	14,980	26,180	12,210	13,970	22,520	10,770	11,740
65-69	23,800	10,890	12,910	25,120	11,480	13,640	23,190	10,500	12,700
70-74	18,370	8,150	10,220	20,360	8,960	11,400	21,590	9,490	12,090
75-79	11,340	4,490	6,850	14,860	6,060	8,800	16,440	6,650	9,800
80-84	7,710	2,840	4,870	8,300	2,980	5,320	11,010	4,160	6,840
85+	10,090	3,260	6,830	10,290	3,430	6,860	10,710	3,570	7,140
TOTAL	434,650	210,360	224,290	426,860	206,470	220,400	417,870	201,970	215,900

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	36,100	18,330	17,770	31,180	15,940	15,240	-13.6%	-13.0%	-14.3%
5-9	34,320	17,380	16,940	34,320	17,540	16,780	0.0%	0.9%	-0.9%
10-14	32,170	16,390	15,780	34,300	17,650	16,650	6.6%	7.7%	5.5%
15-19	34,940	17,570	17,370	32,770	16,500	16,270	-6.2%	-6.1%	-6.3%
20-24	35,520	17,430	18,090	31,700	15,420	16,280	-10.8%	-11.5%	-10.0%
25-29	38,620	18,820	19,800	32,380	15,860	16,520	-16.2%	-15.7%	-16.6%
30-34	39,510	19,170	20,340	30,680	15,090	15,590	-22.4%	-21.3%	-23.4%
35-39	36,000	17,560	18,440	33,850	16,410	17,440	-6.0%	-6.6%	-5.4%
40-44	31,490	15,340	16,150	35,600	17,350	18,260	13.1%	13.1%	13.0%
45-49	23,780	11,440	12,340	32,860	16,070	16,790	38.2%	40.5%	36.1%
50-54	20,070	9,590	10,480	28,540	13,940	14,600	42.2%	45.4%	39.3%
55-59	19,110	8,950	10,170	20,690	9,830	10,860	8.3%	9.9%	6.8%
60-64	20,800	9,640	11,160	16,740	7,870	8,870	-19.5%	-18.3%	-20.6%
65-69	19,460	8,570	10,890	14,810	6,580	8,230	-23.9%	-23.2%	-24.4%
70-74	15,230	6,140	9,080	15,570	6,720	8,850	2.2%	9.3%	-2.6%
75-79	11,440	4,290	7,160	12,990	5,100	7,890	13.5%	18.9%	10.3%
80-84	7,700	2,490	5,220	8,770	3,000	5,770	13.8%	20.6%	10.6%
85+	6,100	1,490	4,600	7,310	1,900	5,410	19.9%	27.4%	17.4%
TOTAL	462,360	220,580	241,780	455,050	218,760	236,290	-1.6%	-0.8%	-2.3%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
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OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: WOOD

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	7,090	3,620	3,470	7,060	3,640	3,420	7,800	3,990	3,810
5-9	7,350	3,720	3,640	7,450	3,770	3,680	7,180	3,700	3,480
10-14	7,990	4,020	3,970	7,830	3,940	3,890	7,520	3,800	3,720
15-19	13,360	6,290	7,070	12,270	5,750	6,510	12,410	5,810	6,600
20-24	15,770	7,620	8,150	18,190	8,610	9,570	15,580	7,390	8,190
25-29	5,490	3,000	2,490	8,510	4,390	4,110	10,330	5,110	5,220
30-34	7,240	3,720	3,520	3,570	2,100	1,470	8,410	4,330	4,080
35-39	7,250	3,500	3,740	7,290	3,730	3,570	3,630	2,130	1,510
40-44	8,650	4,230	4,420	7,460	3,590	3,860	7,270	3,710	3,560
45-49	9,280	4,570	4,710	8,660	4,260	4,400	7,390	3,560	3,820
50-54	8,450	4,130	4,320	9,150	4,490	4,660	8,460	4,120	4,330
55-59	7,370	3,660	3,710	8,050	3,900	4,160	8,800	4,270	4,530
60-64	4,900	2,360	2,540	6,830	3,290	3,540	7,550	3,560	3,990
65-69	3,760	1,760	2,000	4,440	2,100	2,340	6,220	2,930	3,290
70-74	3,220	1,410	1,810	3,260	1,440	1,820	3,870	1,750	2,110
75-79	2,780	1,150	1,630	2,750	1,110	1,640	2,720	1,120	1,600
80-84	2,040	730	1,320	2,100	790	1,310	2,030	740	1,290
85+	1,970	580	1,390	2,160	640	1,520	2,350	770	1,580
TOTAL	123,960	60,060	63,900	127,020	61,550	65,470	129,500	62,800	66,700

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	8,710	4,490	4,220	9,290	4,750	4,540	9,070	4,670	4,400
5-9	8,150	4,140	4,010	8,930	4,590	4,340	9,640	4,900	4,740
10-14	7,650	3,920	3,730	8,270	4,190	4,070	9,400	4,820	4,590
15-19	11,880	5,570	6,310	12,650	5,980	6,670	13,430	6,720	6,710
20-24	17,290	8,160	9,120	15,300	7,260	8,030	18,990	9,770	9,220
25-29	8,170	4,100	4,070	8,910	4,420	4,480	7,760	3,930	3,830
30-34	8,410	4,200	4,210	8,050	4,030	4,030	7,030	3,550	3,490
35-39	8,450	4,330	4,120	8,510	4,250	4,260	8,110	4,040	4,070
40-44	3,880	2,240	1,640	8,450	4,320	4,130	8,720	4,340	4,380
45-49	7,290	3,740	3,550	3,850	2,230	1,620	8,460	4,350	4,110
50-54	7,300	3,510	3,790	7,090	3,610	3,480	3,840	2,230	1,620
55-59	8,060	3,890	4,170	6,990	3,320	3,670	6,760	3,410	3,340
60-64	8,170	3,850	4,320	7,550	3,550	4,000	6,500	2,990	3,500
65-69	6,860	3,170	3,690	7,450	3,420	4,030	6,870	3,170	3,700
70-74	5,370	2,410	2,960	5,960	2,640	3,320	6,440	2,830	3,610
75-79	3,260	1,370	1,890	4,420	1,860	2,560	4,970	2,060	2,900
80-84	2,060	770	1,290	2,380	910	1,480	3,270	1,280	1,990
85+	2,360	750	1,600	2,430	810	1,610	2,620	900	1,720
TOTAL	133,330	64,620	68,700	136,480	66,150	70,330	141,880	69,960	71,910

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	7,260	3,700	3,560	7,070	3,580	3,490	-2.7%	-3.2%	-2.1%
5-9	8,020	4,170	3,850	7,850	3,950	3,900	-2.2%	-5.2%	1.1%
10-14	7,760	3,980	3,780	8,340	4,210	4,120	7.4%	5.7%	9.2%
15-19	11,670	5,370	6,300	12,470	5,990	6,480	6.8%	11.5%	2.8%
20-24	14,570	6,760	7,810	13,800	6,710	7,090	-5.3%	-0.7%	-9.2%
25-29	8,550	4,230	4,320	7,370	3,810	3,570	-13.8%	-10.0%	-17.5%
30-34	8,800	4,340	4,460	7,110	3,440	3,670	-19.3%	-20.8%	-17.8%
35-39	8,600	4,190	4,400	8,650	4,230	4,410	0.6%	0.9%	0.3%
40-44	7,730	3,840	3,890	9,340	4,590	4,750	20.8%	19.5%	22.2%
45-49	5,710	2,850	2,860	8,680	4,280	4,400	52.1%	50.3%	54.0%
50-54	4,670	2,320	2,350	7,700	3,870	3,830	64.7%	66.5%	62.9%
55-59	4,320	2,080	2,250	5,240	2,590	2,650	21.4%	24.9%	18.1%
60-64	4,150	2,030	2,120	4,130	2,000	2,130	-0.4%	-1.3%	0.5%
65-69	3,660	1,660	1,990	3,650	1,670	1,980	-0.1%	0.7%	-0.8%
70-74	2,970	1,230	1,740	3,320	1,480	1,840	11.6%	19.8%	5.8%
75-79	2,160	830	1,330	2,780	1,100	1,680	28.9%	33.8%	25.9%
80-84	1,480	480	1,010	1,930	670	1,260	30.3%	40.5%	25.5%
85+	1,200	320	880	1,650	430	1,220	37.6%	34.5%	38.8%
TOTAL	113,270	54,370	58,900	121,070	58,600	62,460	6.9%	7.8%	6.1%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request

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OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: COLUMBIANA

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	6,430	3,330	3,100	6,150	3,150	3,000	6,700	3,450	3,240
5-9	6,900	3,540	3,360	6,250	3,220	3,030	6,280	3,220	3,060
10-14	7,370	3,820	3,560	6,680	3,440	3,250	6,180	3,200	2,990
15-19	6,960	3,520	3,440	7,530	3,890	3,640	6,120	3,130	2,990
20-24	7,190	3,800	3,390	8,030	4,190	3,840	7,360	3,870	3,480
25-29	6,700	3,640	3,060	8,140	4,510	3,630	8,590	4,680	3,910
30-34	7,270	3,960	3,310	6,550	3,600	2,950	8,380	4,690	3,690
35-39	7,420	3,870	3,550	6,810	3,630	3,180	6,490	3,510	2,980
40-44	8,370	4,260	4,110	7,070	3,610	3,460	6,650	3,500	3,150
45-49	9,260	4,680	4,580	8,210	4,130	4,080	6,980	3,560	3,420
50-54	8,630	4,340	4,290	8,890	4,380	4,520	7,940	3,910	4,030
55-59	7,120	3,560	3,560	8,210	4,060	4,150	8,540	4,150	4,400
60-64	5,530	2,650	2,880	6,580	3,190	3,390	7,670	3,690	3,980
65-69	4,500	2,080	2,420	4,980	2,300	2,680	5,970	2,800	3,170
70-74	3,760	1,680	2,080	3,970	1,740	2,240	4,320	1,900	2,420
75-79	3,620	1,470	2,150	3,180	1,310	1,870	3,240	1,320	1,920
80-84	2,780	1,020	1,760	2,730	990	1,730	2,410	900	1,510
85+	1,870	580	1,290	1,970	600	1,370	2,050	620	1,420
TOTAL	111,680	55,800	55,880	111,950	55,940	56,010	111,870	56,090	55,780

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	6,580	3,370	3,210	6,690	3,440	3,240	6,150	3,150	3,000
5-9	6,470	3,310	3,160	6,640	3,400	3,240	6,440	3,290	3,150
10-14	6,010	3,080	2,920	6,430	3,310	3,130	6,350	3,260	3,090
15-19	6,380	3,290	3,090	5,720	2,930	2,780	6,660	3,420	3,240
20-24	7,480	3,970	3,510	6,390	3,390	2,990	7,210	3,860	3,350
25-29	8,530	4,740	3,790	8,030	4,480	3,540	7,700	4,370	3,330
30-34	8,390	4,620	3,770	8,710	4,880	3,820	7,820	4,430	3,390
35-39	7,810	4,280	3,530	8,250	4,470	3,780	8,080	4,430	3,650
40-44	6,080	3,210	2,880	7,620	4,120	3,500	7,790	4,120	3,670
45-49	6,500	3,380	3,130	5,990	3,150	2,850	7,460	3,980	3,480
50-54	6,640	3,260	3,380	6,240	3,140	3,090	5,650	2,830	2,820
55-59	7,530	3,630	3,900	6,350	3,070	3,290	5,870	2,890	2,980
60-64	7,900	3,710	4,190	7,010	3,280	3,730	5,840	2,710	3,130
65-69	6,910	3,200	3,700	7,180	3,250	3,930	6,320	2,850	3,470
70-74	5,260	2,330	2,930	6,030	2,660	3,370	6,320	2,710	3,610
75-79	3,670	1,480	2,190	4,290	1,770	2,520	5,060	2,060	3,000
80-84	2,490	900	1,590	2,760	1,010	1,750	3,260	1,200	2,060
85+	1,910	570	1,330	1,960	580	1,370	2,040	600	1,430
TOTAL	112,520	56,330	56,190	112,290	56,350	55,940	112,000	56,150	55,850

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	7,560	3,870	3,690	6,620	3,400	3,220	-12.5%	-12.1%	-12.9%
5-9	7,950	4,110	3,830	7,530	3,880	3,650	-5.2%	-5.7%	-4.7%
10-14	8,300	4,290	4,010	8,180	4,190	3,990	-1.5%	-2.4%	-0.5%
15-19	8,040	4,140	3,890	7,750	4,050	3,700	-3.6%	-2.2%	-5.1%
20-24	6,290	3,070	3,220	5,990	3,100	2,890	-4.8%	0.9%	-10.3%
25-29	7,350	3,500	3,860	6,830	3,670	3,160	-7.1%	4.8%	-18.0%
30-34	8,640	4,150	4,490	7,350	3,870	3,480	-14.9%	-6.7%	-22.5%
35-39	8,690	4,300	4,390	8,520	4,360	4,160	-1.9%	1.6%	-5.3%
40-44	7,370	3,630	3,740	9,350	4,710	4,630	26.9%	29.8%	24.0%
45-49	6,000	2,940	3,060	8,870	4,540	4,330	47.8%	54.4%	41.5%
50-54	5,320	2,550	2,770	7,390	3,740	3,650	39.0%	46.7%	31.9%
55-59	5,040	2,440	2,590	5,890	2,900	2,990	17.0%	18.8%	15.2%
60-64	5,640	2,630	3,020	4,970	2,370	2,600	-11.9%	-9.7%	-13.9%
65-69	5,500	2,490	3,010	4,440	2,080	2,360	-19.3%	-16.6%	-21.6%
70-74	4,230	1,780	2,450	4,480	1,940	2,540	5.9%	8.7%	3.8%
75-79	3,130	1,270	1,860	3,710	1,490	2,220	18.6%	17.5%	19.4%
80-84	1,900	670	1,230	2,460	880	1,580	29.9%	31.8%	28.9%
85+	1,340	370	970	1,760	540	1,220	31.3%	44.1%	26.3%
TOTAL	108,280	52,200	56,080	112,080	55,700	56,370	3.5%	6.7%	0.5%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: TRUMBULL

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	13,010	6,670	6,340	12,980	6,680	6,300	12,700	6,510	6,190
5-9	13,920	7,150	6,760	13,170	6,750	6,420	13,110	6,750	6,370
10-14	15,190	7,790	7,400	14,200	7,300	6,900	13,010	6,660	6,350
15-19	15,140	7,650	7,490	14,930	7,670	7,260	13,360	6,850	6,500
20-24	14,670	7,550	7,120	13,600	6,910	6,690	14,490	7,550	6,940
25-29	11,790	6,070	5,720	13,120	6,650	6,470	13,490	6,850	6,630
30-34	13,090	6,580	6,500	11,570	5,910	5,650	13,110	6,610	6,490
35-39	14,250	7,130	7,120	13,150	6,630	6,530	11,520	5,910	5,610
40-44	16,030	7,800	8,230	14,210	7,160	7,050	12,970	6,520	6,450
45-49	17,470	8,570	8,890	15,690	7,600	8,090	13,900	6,940	6,960
50-54	16,530	7,970	8,560	16,820	8,210	8,620	15,130	7,260	7,860
55-59	15,360	7,350	8,010	15,700	7,470	8,230	16,080	7,730	8,340
60-64	11,510	5,460	6,040	14,100	6,570	7,530	14,540	6,740	7,800
65-69	9,260	4,290	4,970	10,320	4,840	5,490	12,690	5,780	6,900
70-74	8,030	3,570	4,450	7,990	3,550	4,440	8,940	4,010	4,930
75-79	7,400	2,960	4,440	6,600	2,740	3,860	6,490	2,670	3,810
80-84	5,880	2,190	3,700	5,470	1,990	3,480	4,930	1,850	3,080
85+	4,720	1,610	3,110	5,090	1,850	3,240	5,570	2,130	3,440
TOTAL	223,230	108,380	114,850	218,730	106,480	112,260	215,990	105,330	110,660

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	12,920	6,640	6,280	12,140	6,220	5,920	11,820	6,080	5,740
5-9	12,850	6,590	6,260	13,050	6,710	6,330	12,290	6,300	5,990
10-14	13,400	6,890	6,500	12,700	6,500	6,200	13,320	6,850	6,470
15-19	12,770	6,550	6,220	12,600	6,480	6,120	12,490	6,420	6,070
20-24	11,910	6,190	5,720	12,420	6,510	5,920	11,300	5,920	5,380
25-29	12,980	6,680	6,300	11,820	6,140	5,670	11,000	5,690	5,310
30-34	13,260	6,690	6,570	12,960	6,630	6,330	11,600	5,980	5,620
35-39	13,170	6,650	6,520	13,190	6,670	6,520	13,010	6,660	6,350
40-44	11,500	5,940	5,550	12,990	6,540	6,440	13,140	6,690	6,460
45-49	12,660	6,330	6,330	11,210	5,730	5,480	12,670	6,340	6,330
50-54	13,340	6,610	6,720	12,160	6,020	6,140	10,710	5,440	5,280
55-59	14,360	6,790	7,560	12,720	6,210	6,510	11,510	5,610	5,900
60-64	14,760	6,910	7,850	13,300	6,130	7,160	11,650	5,540	6,110
65-69	13,060	5,960	7,100	13,290	6,090	7,200	11,960	5,430	6,520
70-74	10,940	4,780	6,160	11,300	4,940	6,360	11,480	5,030	6,440
75-79	7,360	3,070	4,280	8,890	3,610	5,280	9,290	3,780	5,510
80-84	4,860	1,810	3,050	5,530	2,090	3,440	6,650	2,460	4,190
85+	5,020	1,960	3,060	5,150	2,080	3,070	5,100	2,070	3,030
TOTAL	211,100	103,070	108,040	207,410	101,320	106,090	200,990	98,310	102,690

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	15,350	7,770	7,580	13,780	7,080	6,700	-10.2%	-9.0%	-11.6%
5-9	15,910	8,110	7,790	15,360	7,900	7,470	-3.4%	-2.7%	-4.2%
10-14	16,010	8,320	7,700	16,040	8,130	7,900	0.1%	-2.2%	2.7%
15-19	16,470	8,450	8,020	15,180	7,730	7,450	-7.8%	-8.5%	-7.1%
20-24	14,540	7,180	7,360	11,890	6,120	5,770	-18.2%	-14.7%	-21.5%
25-29	15,820	7,580	8,240	13,100	6,620	6,480	-17.2%	-12.7%	-21.4%
30-34	17,760	8,580	9,180	14,330	7,160	7,170	-19.3%	-16.6%	-21.9%
35-39	17,640	8,500	9,150	16,250	7,930	8,320	-7.9%	-6.7%	-9.0%
40-44	16,920	8,230	8,690	17,830	8,820	9,000	5.3%	7.2%	3.6%
45-49	13,660	6,690	6,970	17,120	8,320	8,800	25.3%	24.3%	26.3%
50-54	11,790	5,670	6,120	16,080	7,810	8,270	36.4%	37.6%	35.3%
55-59	11,190	5,350	5,830	12,440	6,050	6,390	11.2%	13.0%	9.6%
60-64	11,890	5,450	6,440	10,290	4,870	5,420	-13.5%	-10.7%	-15.9%
65-69	11,390	5,130	6,260	9,270	4,310	4,960	-18.6%	-15.9%	-20.8%
70-74	9,080	3,830	5,260	9,150	3,930	5,220	0.7%	2.7%	-0.8%
75-79	6,170	2,410	3,760	7,990	3,260	4,730	29.5%	35.2%	25.9%
80-84	3,630	1,270	2,360	5,260	1,860	3,390	45.0%	46.7%	44.1%
85+	2,600	720	1,890	3,780	1,090	2,690	45.5%	52.3%	42.9%
TOTAL	227,810	109,230	118,580	225,120	108,970	116,150	-1.2%	-0.2%	-2.1%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

OHIO DEPARTMENT OF DEVELOPMENT
POPULATION PROJECTIONS BY AGE AND SEX: 2005-2030
COUNTY: MAHONING

AGE COHORTS	2005 TOTAL POP	2005 MALE POP	2005 FEMALE POP	2010 TOTAL POP	2010 MALE POP	2010 FEMALE POP	2015 TOTAL POP	2015 MALE POP	2015 FEMALE POP
0-4	14,150	7,260	6,890	13,590	6,960	6,630	13,010	6,680	6,340
5-9	15,390	7,760	7,630	14,090	7,220	6,870	13,620	6,970	6,650
10-14	17,300	8,850	8,450	15,610	7,910	7,700	14,070	7,250	6,820
15-19	17,420	8,920	8,500	17,480	8,930	8,550	15,850	8,010	7,840
20-24	16,470	8,380	8,090	16,100	8,310	7,800	17,070	8,840	8,230
25-29	14,280	7,140	7,140	14,820	7,460	7,360	15,640	8,080	7,560
30-34	14,200	7,110	7,090	13,920	6,950	6,970	14,750	7,420	7,330
35-39	15,250	7,640	7,610	14,080	7,090	7,000	13,820	6,900	6,920
40-44	17,560	8,570	8,990	15,180	7,640	7,540	14,000	7,030	6,970
45-49	20,230	9,780	10,440	17,130	8,330	8,800	14,760	7,360	7,410
50-54	19,270	9,400	9,870	19,510	9,330	10,180	16,460	7,890	8,570
55-59	16,290	7,860	8,430	18,210	8,730	9,480	18,530	8,690	9,840
60-64	11,820	5,390	6,430	15,020	7,070	7,950	16,790	7,840	8,940
65-69	9,980	4,420	5,560	10,570	4,690	5,880	13,390	6,090	7,310
70-74	9,340	3,910	5,430	8,830	3,740	5,090	9,210	3,890	5,310
75-79	9,670	3,810	5,870	7,620	2,980	4,640	7,230	2,840	4,390
80-84	7,900	2,890	5,010	7,330	2,640	4,690	5,880	2,080	3,800
85+	6,150	2,050	4,100	6,670	2,310	4,360	7,080	2,570	4,510
TOTAL	252,660	121,140	131,520	245,760	118,280	127,480	241,170	116,430	124,740

AGE COHORTS	2020 TOTAL POP	2020 MALE POP	2020 FEMALE POP	2025 TOTAL POP	2025 MALE POP	2025 FEMALE POP	2030 TOTAL POP	2030 MALE POP	2030 FEMALE POP
0-4	12,920	6,620	6,300	12,370	6,350	6,020	11,880	6,090	5,790
5-9	12,980	6,660	6,320	12,880	6,600	6,280	12,350	6,340	6,010
10-14	13,790	7,100	6,690	13,230	6,820	6,400	13,040	6,730	6,320
15-19	14,510	7,470	7,040	14,880	7,680	7,200	13,870	7,160	6,710
20-24	15,120	7,740	7,380	14,910	7,860	7,050	14,530	7,650	6,870
25-29	15,960	8,220	7,740	14,820	7,600	7,230	14,130	7,450	6,670
30-34	15,370	7,910	7,460	15,880	8,140	7,750	14,680	7,500	7,170
35-39	14,590	7,330	7,260	15,230	7,790	7,440	15,750	8,060	7,690
40-44	13,720	6,840	6,880	14,500	7,240	7,270	15,150	7,740	7,410
45-49	13,570	6,750	6,820	13,320	6,550	6,770	14,080	6,950	7,130
50-54	14,170	6,950	7,220	13,050	6,370	6,680	12,780	6,170	6,610
55-59	15,560	7,310	8,250	13,420	6,430	6,990	12,330	5,890	6,440
60-64	17,070	7,790	9,280	14,320	6,530	7,800	12,360	5,760	6,600
65-69	14,940	6,760	8,180	15,150	6,660	8,480	12,770	5,620	7,150
70-74	11,680	5,060	6,610	12,960	5,580	7,380	13,200	5,530	7,660
75-79	7,530	2,960	4,570	9,560	3,860	5,700	10,560	4,240	6,320
80-84	5,610	2,010	3,600	6,010	2,170	3,830	7,400	2,730	4,670
85+	6,290	2,280	4,010	6,090	2,300	3,790	5,930	2,250	3,670
TOTAL	235,350	113,750	121,600	232,590	112,540	120,050	226,800	109,880	116,920

AGE COHORTS	CENSUS 1990 TOTAL POP	CENSUS 1990 MALE POP	CENSUS 1990 FEMALE POP	CENSUS 2000 TOTAL POP	CENSUS 2000 MALE POP	CENSUS 2000 FEMALE POP	% CHANGE 1990-2000 TOTAL POP	% CHANGE 1990-2000 MALE POP	% CHANGE 1990-2000 FEMALE POP
0-4	17,330	8,890	8,430	15,330	7,730	7,600	-11.5%	-13.1%	-9.8%
5-9	18,060	9,130	8,930	17,480	8,910	8,570	-3.2%	-2.4%	-4.0%
10-14	18,380	9,330	9,050	17,740	9,140	8,590	-3.5%	-2.0%	-5.0%
15-19	18,400	9,370	9,020	17,330	8,760	8,580	-5.8%	-6.5%	-5.0%
20-24	16,340	8,030	8,310	14,810	7,390	7,420	-9.4%	-7.9%	-10.8%
25-29	17,790	8,400	9,400	14,280	7,130	7,140	-19.8%	-15.0%	-24.0%
30-34	20,750	9,840	10,910	15,350	7,680	7,670	-26.0%	-22.0%	-29.7%
35-39	20,390	9,860	10,530	17,700	8,630	9,070	-13.2%	-12.5%	-13.9%
40-44	17,810	8,710	9,100	20,720	10,090	10,630	16.3%	15.8%	16.8%
45-49	13,900	6,500	7,400	20,030	9,880	10,150	44.1%	52.0%	37.2%
50-54	12,430	5,840	6,590	17,160	8,440	8,720	38.1%	44.5%	32.4%
55-59	12,930	5,920	7,010	12,800	5,990	6,820	-1.0%	1.1%	-2.7%
60-64	15,240	6,980	8,260	11,100	5,090	6,010	-27.1%	-27.0%	-27.3%
65-69	15,370	6,850	8,520	10,760	4,730	6,040	-30.0%	-31.0%	-29.1%
70-74	12,320	5,250	7,070	11,990	5,070	6,920	-2.7%	-3.4%	-2.1%
75-79	8,520	3,350	5,170	10,610	4,270	6,340	24.6%	27.5%	22.7%
80-84	5,000	1,710	3,290	7,150	2,600	4,540	42.9%	52.3%	38.1%
85+	3,880	1,100	2,790	5,220	1,480	3,750	34.4%	34.3%	34.5%
TOTAL	264,810	125,050	139,760	257,560	122,990	134,560	-2.7%	-1.6%	-3.7%

Note: The cohort totals may not add to total population due to rounding. Technical documentation is available upon request.
Issued by: Ohio Department of Development , Office of Strategic Research (JH), July, 2003

Annual

Site	County	Year						Average '99-'01	Average '00-'02	Average '01-'03	Average '02-'04
		1999	2000	2001	2002	2003	2004				
39-009-0003	Athens	13.9	13.9	12.4	12.7	12.3	9.7	13.40	13.00	12.47	11.57
39-017-0003	Butler	18.8	17.0	16.4	16.8	15.4	12.9	17.38	16.72	16.20	15.03
39-017-0016			18.9	15.9	15.3	15.8	14.0	17.38	16.68	15.67	15.03
39-017-0017			17.9	15.8	15.5	14.7	13.3	16.87	16.41	15.33	14.50
39-017-1004				11.6	13.9	15.0	12.6			13.50	13.83
39-017-1004(3)						13.4	15.4				
39-023-0005	Clark		16.4	14.8	15.1	14.1	13.0	15.60	15.43	14.67	14.07
39-035-0013	Cuyahoga	17.9	19.7	17.7	16.9	16.7		18.42	18.09	17.10	16.80
39-035-0027		18.4	17.2	17.8	16.5	15.4	14.8	17.80	17.17	16.57	15.57
39-035-0034			15.6	15.0	14.3	13.4	11.7	15.30	14.97	14.23	13.13
39-035-0038		21.0	20.1	19.8	17.7	17.6	17.0	20.30	19.20	18.37	17.43
39-035-0045		13.9	18.8	17.4	16.2	16.4	14.9	18.10	17.47	16.67	15.83
39-035-0060		18.6	19.5	17.7	17.5	17.2	16.4	18.60	18.23	17.47	17.03
39-035-0060 (3)					13.4	18.4					
39-035-0065		17.6	18.5	16.6	15.8	15.6	14.9	17.57	16.97	16.00	15.43
39-035-0066		14.5	15.4	14.6	14.2	13.9	11.7	14.83	14.73	14.23	13.27
39-035-1002		15.6	15.0	14.8	15.1	13.9	12.7	15.13	14.97	14.60	13.90
39-049-0024	Franklin	18.4	17.8	17.9	15.8	16.4	13.8	18.03	17.17	16.70	15.33
39-049-0025		17.7	17.1	16.9	16.1	15.5	13.9	17.23	16.70	16.17	15.17
39-049-0028 (3)			4.1	11.7	10.3	9.9	11.6			10.63	10.60
39-049-0029 (3)			10.4	12.5	10.8	10.2	12.0			11.17	11.00
39-049-0081		17.1	18.3	16.8	16.2	14.9	13.2	17.40	17.10	15.97	14.77
39-053-0003 (5)	Gallia				13.7	15.1	13.3				14.03
39-057-0005	Greene					9.5	11.6				
39-061-0014	Hamilton	20.1	19.3	18.6	17.9	17.0	13.8	19.33	18.60	17.83	16.23
39-061-0040		15.7	16.7	15.9	15.3	15.5	14.0	16.10	15.97	15.57	14.93
39-061-0040 (3)				15.3	14.8	14.6	13.0			14.90	14.13
39-061-0041		18.6	17.3	16.1	15.1	15.3	13.4	17.33	16.17	15.50	14.60
39-061-0042			20.6	17.6	16.8	16.7	15.0	19.10	18.33	17.03	16.17
39-061-0043			19.1	16.1	15.4	15.7	14.3	17.60	16.87	15.73	15.13
39-061-7001		17.5	17.2	16.8	16.1	16.0	14.6	17.17	16.70	16.30	15.57
39-061-8001		20.9	19.3	17.0	17.0	17.3	15.0	19.07	17.77	17.10	16.43
39-081-0016	Jefferson	19.6	19.2	18.2	17.6	17.7	13.5	19.00	18.33	17.83	16.27
39-081-1001		18.4	17.4	18.9	17.1	17.3	12.5	18.23	17.80	17.77	15.63
39-085-1001	Lake	14.1	14.0	14.0	13.6	12.7	10.9	14.03	13.87	13.43	12.40
39-087-0010	Lawrence	17.9	17.4	17.7	15.5	14.3	12.3	17.67	16.87	15.83	14.03
39-093-0016	Lorain		13.5	14.6	14.0	13.1	11.7	14.05	14.03	13.90	12.93
39-093-2003		15.3	15.6	14.5				15.13			
39-093-3002					14.0	11.8	10.9				12.23
39-095-0024	Lucas	15.7	19.5	15.7	15.0	14.5	12.6	16.97	16.73	15.07	14.03
39-095-0024 (3)					7.4	9.8	8.4				8.53
39-095-0025		13.5	15.7	14.4	15.3	14.3	12.4	14.53	15.13	14.67	14.00
39-095-0026		16.5	15.1	15.5	14.9	14.3	11.9	15.70	15.17	14.90	13.70
39-099-0005	Mahoning	16.9	16.0	16.4	14.8	14.4	13.1	16.43	15.73	15.20	14.10
39-099-0014					13.2	15.0	13.5				13.90
39-099-0014 (3)					8.8	11.5	9.8				10.03
39-113-0014	Montgomery	17.4	18.3	17.5				17.73			
39-113-0031		16.2	16.3	16.1	15.2	14.4	13.0	16.20	15.87	15.23	14.20
39-113-0031 (3)				15.1	18.4	19.9	18.6			17.80	18.97
39-113-0032				16.0	16.2	15.9	13.5		16.10	16.03	15.20
39-113-0032 (3)					17.4	18.6	16.6				17.53
39-133-0002	Portage	15.0	15.7	15.2	14.6	12.7	11.7	15.30	15.17	14.17	13.00
39-135-1001	Preble	14.7	15.2	13.5	13.5	13.6	11.9	14.47	14.07	13.53	13.00
39-135-1001 (3)						11.2	14.6				12.90
39-145-0013	Scioto	24.7	21.1	20.3	16.7	14.7	11.7	22.03	19.37	17.23	14.37
39-145-0013 (3)						19.9					
39-151-0017	Stark	18.4	18.7	17.8	17.4	16.8	14.6	18.30	17.97	17.33	16.27
39-151-0020		17.1	16.9	16.6	15.8	15.0	13.3	16.87	16.43	15.80	14.70
39-151-0020 (3)					11.2	10.9	9.2				10.43
39-153-0017	Summit	18.0	16.6	17.6	16.7	15.4	14.1	17.40	16.97	16.57	15.40
39-153-0017 (3)					9.1	11.3	13				11.13
39-153-0023		16.5	16.3	15.9	16.8	14.2	12.8	16.23	16.33	15.63	14.60
39-155-0007	Trumbull	16.7	15.7	16.2	15.0	14.0	12.8	16.20	15.63	15.07	13.93

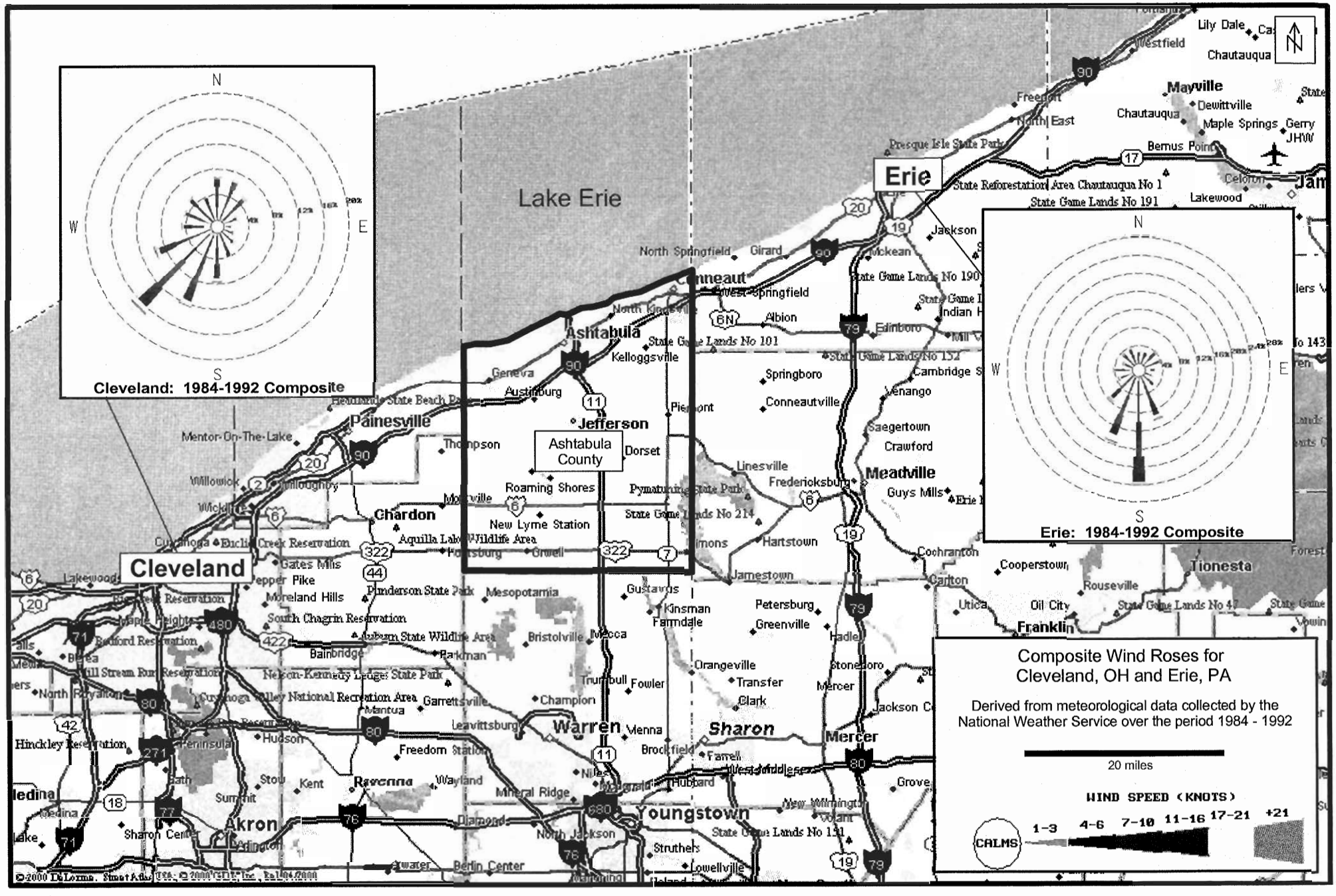
5 Aug 04

(3) continuous
(5) Speciation

Site	County	Year						Average	Average	Average	Average
		1999	2000	2001	2002	2003	2004	'99-'01	'00-'02	'01-'03	'02-'04
39-009-0003	Athens	36.5	30.4	31.8	32.7	29.2	33.1	32.90	31.63	31.23	31.67
39-017-0003	Butler	37.0	38.1	41.7	40.7	38.6	28.4	38.93	40.17	40.33	35.90
39-017-0016			43.8	41.5	33.6	34.8	28.1		39.63	36.63	32.17
39-017-0017			38.7	44.8	33.8	34.6	28.1		39.10	37.73	32.17
39-017-1004				16.5	30.9	33.0	26.0			26.80	29.97
39-017-1004(3)						24.0	34.3				
39-023-0005	Clark		39.9	37.0	34.1	31.2	29.5	38.45	37.00	34.10	31.60
39-035-0013	Cuyahoga	39.7	44.6	43.2	40.1	38.5		42.50	42.63	40.60	39.30
39-035-0027		47.8	42.6	44.9	40.9	41.3	37.0	45.10	42.80	42.37	39.73
39-035-0034			38.1	39.7	36.8	37.2	32.9		38.20	37.90	35.63
39-035-0038		49.2	42.4	47.3	44.5	47.3	39.0	46.30	44.73	46.37	43.60
39-035-0045		21.7	43.6	43.1	38.4	42.2	36.0	36.13	41.70	41.23	38.87
39-035-0060		43.0	45.8	42.7	39.8	45.5	42.2	43.83	42.77	42.67	42.50
39-035-0060 (3)					40.8	44.8					
39-035-0065		41.3	43.3	42.2	37.3	39.1	36.1	42.27	40.93	39.53	37.50
39-035-0066		33.8	36.9	40.2	35.3	34.4	32.0	36.97	37.47	36.63	33.90
39-035-1002		34.4	28.1	39.8	35.7	31.9	29.9	34.10	34.53	35.80	32.50
39-049-0024	Franklin	39.8	40.0	41.0	39.2	39.2	29.8	40.27	40.07	39.80	36.07
39-049-0025		39.6	41.0	39.0	40.2	37.0	29.9	39.87	40.07	38.73	35.70
39-049-0028 (3)			10.9	39.8	32.9	29.4	41.5		27.87	34.03	34.60
39-049-0029 (3)			34.8	37.2	36.1	30.6	32.4		36.03	34.63	33.03
39-049-0081		36.5	36.5	41.3	39.3	33.7	29.2	38.10	39.03	38.10	34.07
39-053-0003 (5)	Gallia				48.0	35.6	23.7				35.77
39-057-0005	Greene					18.2	25.5				
39-061-0014	Hamilton	40.5	44.3	44.0	43.7	37.8	27.7	42.93	44.00	41.83	36.40
39-061-0040		34.1	34.3	5.0	37.7	31.9	25.5	24.47	25.67	24.87	31.70
39-061-0040 (3)				42.2	40.2	35.5	26.3			39.30	34.00
39-061-0041		37.8	38.0	41.9	33.6	34.4	26.7	39.23	37.83	36.63	31.57
39-061-0042			44.8	46.6	40.0	33.8	27.4		43.80	40.13	33.73
39-061-0043			41.2	40.1	34.8	37.3	29.4		38.70	37.40	33.83
39-061-7001		38.0	39.1	42.3	40.7	37.1	27.6	39.80	40.70	40.03	35.13
39-061-8001		39.5	40.1	37.0	40.1	35.8	28.4	38.87	39.07	37.63	34.77
39-081-0016	Jefferson	40.0	47.3	47.0	47.5	37.0		44.77	47.27	43.83	
39-081-1001		42.2	35.0	45.4	42.3	40.9	26.3	40.87	40.90	42.87	36.50
39-085-1001	Lake	34.1	39.5	44.3	39.2	36.2	31.8	39.30	41.00	39.90	35.73
39-087-0010	Lawrence	34.2	40.2	41.0	42.4	29.3	28.8	38.47	41.20	37.57	33.50
39-093-0016	Lorain		46.3	36.9	32.3	36.1	28.3		38.50	35.10	32.23
39-093-2003		37.5	38.5	42.6				39.53			
39-093-3002					35.8	31.4	31.1				
39-095-0024	Lucas	41.0	35.1	36.7	37.3	36.4	28.7	37.60	36.37	36.80	34.13
39-095-0024 (3)					15.7	29.2	21.4				22.10
39-095-0025		30.7	38.3	35.0	39.0	34.4	27.6	34.67	37.43	36.13	33.67
39-095-0026		40.0	36.1	38.3	38.1	36.7	26.7	38.13	37.50	37.70	33.83
39-099-0005	Mahoning	38.6	34.6	45.7	38.3	31.3	34.1	39.63	39.53	38.43	34.57
39-099-0014					27.8	36.0	35.1				32.97
39-099-0014 (3)					26.9	30.0	31.0				29.30
39-113-0014	Montgomery	33.6	42.6	40.2				38.80			
39-113-0031		34.6	36.4	41.9	38.1	37.0	27.4	37.63	38.80	39.00	34.17
39-113-0031 (3)				29.6	46.6	46.7	39.6			40.97	44.30
39-113-0032				42.4	36.9	42.7	28.0			40.67	35.87
39-113-0032 (3)					48.8	43.0	28.4				40.07
39-133-0002	Portage	34.0	35.9	42.7	37.0	30.7	30.2	37.53	38.53	36.80	32.63
39-135-1001	Preble	32.8	35.7	38.4	29.0	34.3	23.6	35.63	34.37	33.90	28.97
39-135-1001 (3)						24.7	32.2				
39-145-0013	Scioto	43.2	43.5	49.2	42.1	32.8	24.8	45.30	44.93	41.37	33.23
39-145-0013 (3)											
39-151-0017	Stark	42.1	40.1	45.0	41.0	34.2	33.7	42.40	42.03	40.07	36.30
39-151-0020		41.3	37.5	44.2	39.8	34.5	31.8	41.00	40.50	39.50	35.37
39-151-0020 (3)					37.6	30.4	25.0				31.00
39-153-0017	Summit	40.6	37.5	45.6	42.3	36.9	33.3	41.23	41.80	41.60	37.50
39-153-0017 (3)					26.2	31.2	33.0				30.13
39-153-0023		42.3	36.8	42.6	41.5	33.4	28.7	40.57	40.30	39.17	34.53
39-155-0007	Trumbull	38.5	35.0	46.3	38.1	34.9	31.4	39.93	39.80	39.77	34.80

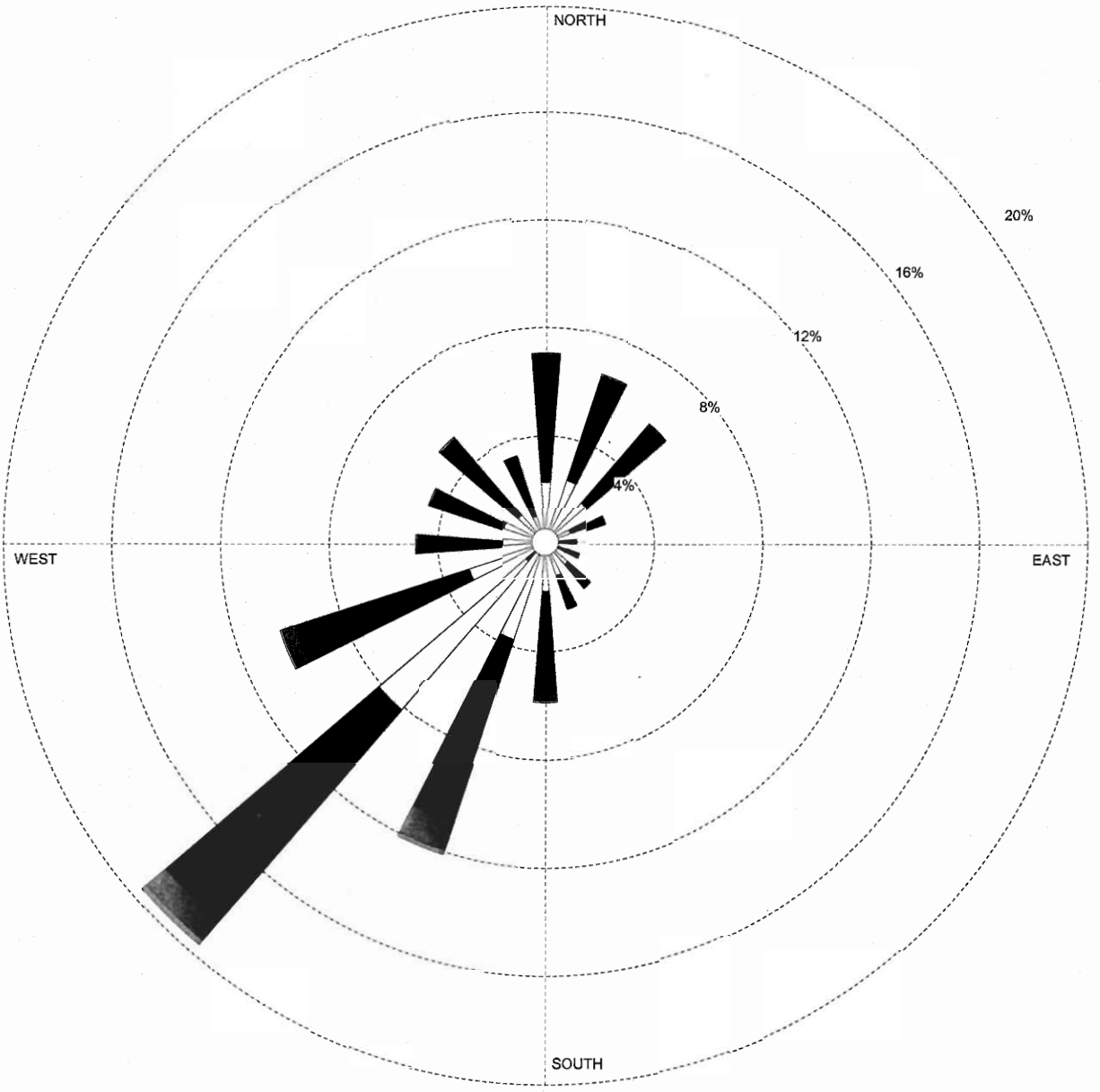
5 Aug 04

(3) continuous
(5) Speciation

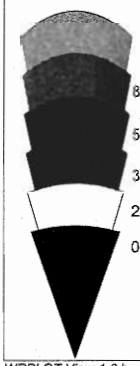

Lake Erie
Cleveland
Erie
Ashtabula
Ashtabula County
Jefferson
Painesville
Chardon
Akron
Youngstown
Warren
Sharon
Mercer
Meadville
Franklin
Tionesta
Cleveland: 1984-1992 Composite
Erie: 1984-1992 Composite
Composite Wind Roses for
Cleveland, OH and Erie, PA
Derived from meteorological data collected by the
National Weather Service over the period 1984 - 1992
20 miles
WIND SPEED (KNOTS)
CALMS
1-3
4-6
7-10
11-16
17-21
+21

WIND ROSE PLOT

STATION #14820 - CLEVELAND/HOPKINS INT'L ARPT, OH



Wind Speed (m/s)



MODELER	DATE	COMPANY NAME
	8/17/2004	**1985-1987, 1990-1991**
DISPLAY	UNIT	COMMENTS
Wind Speed	**m/s**	
AVG. WIND SPEED	CALM WINDS	
4.47 m/s	**4.02%**	
ORIENTATION	PLOT YEAR-DATE-TIME	PROJECT/PLOT NO.
Direction (blowing from)	**87 88 89 90 91 January 1 - December 31 Midnight - 11 PM**	

Point Sources (Title V)

EIS COUNTY SUMMARY 1999-2002

Adams

	1999	2000	2001	2002
VOC	269.12	290.84	255.95	268.29
PM	2484.31	3701.08	3745.26	3373.66
SO2	128083.09	130317.27	124603.86	137240.06
NOx	63906.12	54391.46	49352.59	54917.38

Allen

	1999	2000	2001	2002
VOC	2499.14	2308.52	2021.72	2019.86
PM	1083.39	799.96	716.11	735.95
SO2	3580.75	4475.22	4572.66	4089.95
NOx	4687.30	4562.24	4527.40	4549.65

Ashland

	1999	2000	2001	2002
VOC	50.31	54.07	41.12	70.02
PM	145.94	40.52	44.00	41.63
SO2	0.15	13.11	20.37	20.44
NOx	6.52	10.99	38.14	44.05

Ashtabula

	1999	2000	2001	2002
VOC	449.44	368.69	307.98	2276.77
PM	727.76	798.57	367.85	596.79
SO2	26989.58	8613.48	11886.68	8396.24
NOx	2367.95	2996.76	3274.60	3098.49

EIS COUNTY SUMMARY 1999-2002

Athens

	1999	2000	2001	2002
VOC	54.77	52.05	21.53	61.53
PM	43.31	40.04	45.53	38.18
SO2	368.74	514.11	1157.97	1141.32
NOx	587.11	582.98	891.41	1247.90

Auglaize

	1999	2000	2001	2002
VOC	72.55	357.20	301.66	293.16
PM	195.84	197.81	133.90	142.13
SO2	1967.43	2368.58	1877.40	1984.34
NOx	381.13	425.67	366.69	402.93

Belmont

	1999	2000	2001	2002
VOC	101.33	101.69	89.90	84.63
PM	626.12	692.85	672.42	341.99
SO2	49190.89	46934.80	49841.03	35369.33
NOx	5928.83	6941.12	7811.63	6745.36

Brown

	1999	2000	2001	2002
VOC	35.04	27.92	40.26	0.00
PM	8.30	9.92	1.61	0.00
SO2	0.00	0.09	0.00	0.00
NOx	4.39	2.97	0.00	0.00

EIS COUNTY SUMMARY 1999-2002

Butler

	1999	2000	2001	2002
VOC	1455.81	1477.23	1241.25	1117.66
PM	4027.94	4226.62	4032.77	3620.14
SO2	9353.32	10435.17	10776.16	10156.80
NOx	8353.54	7855.94	7625.57	6407.99

Carroll

	1999	2000	2001	2002
VOC	31.80	26.55	32.20	34.60
PM	12.62	10.37	11.41	17.18
SO2	9.21	7.25	8.00	8.13
NOx	884.67	587.79	998.27	908.69

Champaign

	1999	2000	2001	2002
VOC	0.77	0.72	0.53	1.09
PM	1.07	10.03	13.91	3.59
SO2	0.08	0.89	63.50	2.52
NOx	7.02	6.60	39.84	11.19

Clark

	1999	2000	2001	2002
VOC	283.68	267.33	213.86	189.91
PM	23.41	16.45	10.03	9.96
SO2	12.53	14.69	6.99	7.65
NOx	54.48	58.83	33.89	44.78

EIS COUNTY SUMMARY 1999-2002

Clermont

	1999	2000	2001	2002
VOC	276.32	251.82	217.33	255.44
PM	3181.19	1984.21	2317.92	2377.73
SO2	94421.83	91071.48	83738.61	91617.20
NOx	45152.59	40501.04	38057.33	39819.61

Columbiana

	1999	2000	2001	2002
VOC	127.21	138.68	99.60	138.21
PM	289.25	234.87	203.67	188.67
SO2	42.60	44.81	38.18	39.36
NOx	387.53	393.12	351.95	353.60

Coshocton

	1999	2000	2001	2002
VOC	684.47	750.04	651.61	591.05
PM	333.25	538.08	478.43	1321.05
SO2	40564.60	51155.79	41150.02	142829.46
NOx	7969.45	9819.66	8223.39	27884.12

Crawford

	1999	2000	2001	2002
VOC	158.13	151.83	137.92	132.60
PM	298.61	314.85	350.06	303.86
SO2	9.81	9.83	19.22	7.20
NOx	97.17	96.37	75.83	67.46

EIS COUNTY SUMMARY 1999-2002

Cuyahoga

	1999	2000	2001	2002
VOC	2571.70	2403.88	1764.47	1581.82
PM	2437.22	2419.54	1939.26	1600.33
SO2	7428.27	7418.68	7841.11	7451.74
NOx	4643.81	4720.90	4147.05	4282.34

Darke

	1999	2000	2001	2002
VOC	220.56	215.33	207.90	207.58
PM	42.32	32.60	33.42	13.59
SO2	97.23	65.98	61.88	22.79
NOx	164.99	133.54	164.66	125.34

Defiance

	1999	2000	2001	2002
VOC	1255.94	1136.01	1057.66	1075.96
PM	1763.20	1633.98	1566.08	1355.60
SO2	65.55	63.48	55.57	80.42
NOx	1586.68	2123.19	2627.42	1908.92

Delaware

	1999	2000	2001	2002
VOC	158.28	182.97	134.55	131.72
PM	0.07	33.90	20.22	0.22
SO2	0.00	0.00	0.00	0.00
NOx	11.07	10.74	9.73	8.72

EIS COUNTY SUMMARY 1999-2002

Erie

	1999	2000	2001	2002
VOC	421.35	378.10	317.91	334.16
PM	294.77	334.82	331.42	429.15
SO2	320.93	267.33	330.28	341.03
NOx	353.32	358.37	319.90	375.61

Fairfield

	1999	2000	2001	2002
VOC	128.03	144.73	170.76	154.61
PM	157.36	177.39	165.57	160.72
SO2	258.10	255.67	179.32	201.03
NOx	1617.98	1690.23	1652.08	1693.58

Fayette

	1999	2000	2001	2002
VOC	93.55	103.78	101.00	139.08
PM	63.21	82.90	96.06	95.16
SO2	0.12	0.30	0.24	0.17
NOx	24.22	80.08	72.40	49.78

Franklin

	1999	2000	2001	2002
VOC	1671.44	1548.88	1196.11	1210.70
PM	617.13	552.92	441.51	342.46
SO2	954.56	948.36	957.81	497.06
NOx	2253.09	1627.69	1257.70	1122.85

EIS COUNTY SUMMARY 1999-2002

Fulton

	1999	2000	2001	2002
VOC	326.96	328.14	308.17	396.83
PM	129.97	384.68	391.24	416.03
SO2	138.12	150.20	161.09	57.32
NOx	558.04	383.19	373.66	534.23

Gallia

	1999	2000	2001	2002
VOC	293.83	321.99	326.60	293.37
PM	921.49	1735.84	1655.79	1896.26
SO2	150029.04	148188.39	143019.72	106285.70
NOx	76096.90	66298.71	56161.49	68963.49

Geauga

	1999	2000	2001	2002
VOC	21.44	22.75	14.97	7.43
PM	8.99	8.79	6.84	11.84
SO2	0.05	0.06	0.05	0.05
NOx	4.95	6.24	4.08	4.64

Greene

	1999	2000	2001	2002
VOC	119.06	15.97	17.88	17.36
PM	1425.34	1381.54	1331.53	1356.83
SO2	1388.16	1504.01	1437.49	1368.67
NOx	3526.98	4037.84	3975.79	3699.77

EIS COUNTY SUMMARY 1999-2002

Guernsey

	1999	2000	2001	2002
VOC	101.38	138.35	148.89	158.03
PM	25.85	20.02	14.31	58.22
SO2	758.58	528.22	533.35	615.07
NOx	1480.40	1317.45	2091.71	2121.04

Hamilton

	1999	2000	2001	2002
VOC	1795.03	1610.28	1097.45	1162.66
PM	3094.68	2898.18	2568.29	3018.37
SO2	85484.85	89168.58	81325.12	92937.33
NOx	29694.52	29259.11	21970.31	21990.46

Hancock

	1999	2000	2001	2002
VOC	1209.32	1065.59	901.73	775.22
PM	167.54	110.76	128.28	90.96
SO2	3.06	0.37	5.59	0.33
NOx	83.27	90.20	67.03	78.99

Harrison

	1999	2000	2001	2002
VOC	0.00	0.00	0.00	0.00
PM	0.00	12.51	9.10	10.26
SO2	0.00	0.00	0.00	0.00
NOx	0.00	0.00	153.93	93.05

EIS COUNTY SUMMARY 1999-2002

Henry

	1999	2000	2001	2002
VOC	140.95	140.66	137.39	116.00
PM	51.86	57.97	55.84	64.08
SO2	2753.06	3174.37	3081.76	3356.81
NOx	258.63	289.02	282.77	271.67

Highland

	1999	2000	2001	2002
VOC	30.34	28.23	25.27	29.19
PM	0.04	0.03	0.03	0.03
SO2	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.00	0.00

Hocking

	1999	2000	2001	2002
VOC	4.44	5.14	4.89	4.56
PM	64.07	67.25	57.41	56.72
SO2	38.89	38.29	38.50	35.89
NOx	893.68	862.35	873.95	881.68

Holmes

	1999	2000	2001	2002
VOC	30.36	23.11	26.23	18.51
PM	6.93	5.56	6.02	3.82
SO2	0.10	0.11	0.11	0.09
NOx	242.69	185.97	310.49	229.88

EIS COUNTY SUMMARY 1999-2002

Huron

	1999	2000	2001	2002
VOC	1791.60	1419.36	1395.86	1289.57
PM	70.89	77.48	76.25	58.56
SO2	3.06	5.15	19.26	2.07
NOx	73.86	74.28	70.22	75.29

Jackson

	1999	2000	2001	2002
VOC	125.72	103.72	78.05	75.40
PM	111.23	101.53	108.70	112.46
SO2	5.92	4.96	5.85	5.31
NOx	25.47	22.20	23.04	21.74

Jefferson

	1999	2000	2001	2002
VOC	444.44	402.04	400.84	394.95
PM	3427.38	3247.72	3247.94	3559.25
SO2	266349.20	245939.89	218669.45	221198.70
NOx	95417.56	63596.76	57740.02	64139.64

Knox

	1999	2000	2001	2002
VOC	4.62	1.56	0.15	0.05
PM	44.71	31.02	23.33	18.35
SO2	1.01	1.32	0.06	0.01
NOx	16.59	8.32	1.24	0.81

EIS COUNTY SUMMARY 1999-2002

Lake

	1999	2000	2001	2002
VOC	691.99	633.26	392.86	433.35
PM	1280.85	1233.83	914.12	832.77
SO2	120766.86	65122.01	48981.36	70140.18
NOx	19938.36	16204.40	14868.30	22049.09

Lawrence

	1999	2000	2001	2002
VOC	699.62	378.37	111.81	28.57
PM	325.12	7.58	7.20	4.50
SO2	49.64	16.57	3.83	0.00
NOx	128.25	48.29	19.68	4.91

Licking

	1999	2000	2001	2002
VOC	440.28	373.80	260.43	205.41
PM	820.58	747.83	568.10	724.36
SO2	196.23	240.45	302.76	262.92
NOx	1587.60	1704.25	1202.44	809.00

Logan

	1999	2000	2001	2002
VOC	691.29	576.74	599.34	465.29
PM	295.07	340.16	279.58	174.06
SO2	3.26	1.97	4.50	5.31
NOx	64.88	51.26	49.46	49.04

EIS COUNTY SUMMARY 1999-2002

Lorain

	1999	2000	2001	2002
VOC	1583.57	1428.90	1048.59	1043.04
PM	1524.27	2149.59	1640.25	1585.60
SO2	32969.27	22352.10	33762.61	46546.92
NOx	20546.24	13082.09	11350.61	19064.09

Lucas

	1999	2000	2001	2002
VOC	4388.94	4289.50	3362.96	3532.46
PM	1938.33	1839.83	1818.56	1878.42
SO2	16526.67	16851.04	18969.54	24399.50
NOx	16807.06	17333.67	15274.72	13609.38

Madison

	1999	2000	2001	2002
VOC	99.24	54.09	47.27	37.05
PM	8.08	1.75	0.62	0.46
SO2	0.58	0.33	0.32	0.63
NOx	9.25	4.71	3.93	5.67

Mahoning

	1999	2000	2001	2002
VOC	321.41	366.00	361.92	254.61
PM	632.97	548.13	462.91	356.74
SO2	2345.66	2548.29	2274.38	1285.74
NOx	623.52	506.43	534.04	546.02

EIS COUNTY SUMMARY 1999-2002

Marion

	1999	2000	2001	2002
VOC	755.46	878.48	724.64	731.83
PM	288.66	241.05	211.85	233.68
SO2	368.97	659.76	456.23	309.84
NOx	279.22	315.31	370.64	325.09

Medina

	1999	2000	2001	2002
VOC	243.09	334.24	276.25	258.33
PM	165.00	170.23	155.45	189.41
SO2	151.04	182.51	186.01	190.57
NOx	212.54	297.32	298.80	119.65

Meigs

	1999	2000	2001	2002
VOC	1.56	0.45	0.37	0.47
PM	0.36	0.51	0.43	0.55
SO2	0.01	0.01	0.01	0.01
NOx	28.08	32.13	26.76	33.66

Mercer

	1999	2000	2001	2002
VOC	34.79	0.00	0.00	0.00
PM	11.24	0.00	0.00	0.00
SO2	0.03	0.00	0.00	0.00
NOx	5.12	0.00	0.00	0.00

EIS COUNTY SUMMARY 1999-2002

Miami

	1999	2000	2001	2002
VOC	127.06	104.47	75.11	82.55
PM	43.95	35.52	29.62	25.63
SO2	19.96	4.29	5.17	1.21
NOx	46.97	38.32	29.85	29.22

Monroe

	1999	2000	2001	2002
VOC	232.73	500.60	341.36	171.26
PM	839.35	743.02	787.93	706.68
SO2	3546.59	3242.76	3426.95	3052.59
NOx	309.85	273.53	194.08	134.93

Montgomery

	1999	2000	2001	2002
VOC	1031.68	852.83	733.22	939.43
PM	378.58	405.48	341.20	415.28
SO2	6556.02	9241.21	8771.11	8289.81
NOx	3841.96	4921.37	4486.70	4172.31

Morgan

	1999	2000	2001	2002
VOC	56.69	35.32	0.00	0.00
PM	12.18	13.92	0.00	0.00
SO2	0.00	0.00	0.00	0.00
NOx	0.18	0.18	0.00	0.00

EIS COUNTY SUMMARY 1999-2002

Muskingum

	1999	2000	2001	2002
VOC	374.39	323.48	288.28	208.98
PM	202.61	221.00	180.13	196.58
SO2	938.91	1013.72	675.62	745.14
NOx	566.88	574.59	499.84	544.40

Noble

	1999	2000	2001	2002
VOC	255.98	172.74	92.21	66.50
PM	1.37	1.53	1.58	0.87
SO2	0.03	0.02	0.02	0.02
NOx	49.46	48.89	52.98	52.91

Ottawa

	1999	2000	2001	2002
VOC	35.25	29.98	29.55	31.83
PM	559.27	640.92	585.14	470.72
SO2	807.94	945.48	947.23	694.45
NOx	668.45	813.44	741.23	682.86

Paulding

	1999	2000	2001	2002
VOC	0.58	0.32	15.80	16.50
PM	407.06	284.70	268.93	329.86
SO2	422.20	388.46	454.30	359.75
NOx	386.57	375.26	402.12	387.60

EIS COUNTY SUMMARY 1999-2002

Perry

	1999	2000	2001	2002
VOC	203.32	55.98	67.38	145.17
PM	266.59	141.76	126.04	140.79
SO2	1.09	1.10	1.12	2.04
NOx	884.02	988.01	901.59	917.11

Pickaway

	1999	2000	2001	2002
VOC	559.24	568.46	549.77	567.84
PM	103.99	134.62	118.03	90.94
SO2	8756.69	10820.38	9564.20	9318.04
NOx	2285.01	2655.29	2394.50	2657.24

Pike

	1999	2000	2001	2002
VOC	24.37	23.33	17.36	23.89
PM	134.64	187.52	182.35	187.61
SO2	3179.10	2945.47	2633.10	2263.84
NOx	16.96	376.15	369.55	304.31

Portage

	1999	2000	2001	2002
VOC	744.24	428.41	374.40	403.12
PM	61.15	80.07	53.24	34.83
SO2	721.41	604.45	239.60	10.58
NOx	108.87	98.06	109.58	91.21

EIS COUNTY SUMMARY 1999-2002

Preble

	1999	2000	2001	2002
VOC	84.33	60.42	60.38	59.77
PM	0.00	0.00	0.00	0.06
SO2	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.00	0.92

Putnam

	1999	2000	2001	2002
VOC	69.41	14.28	11.06	11.86
PM	7.72	5.28	4.38	5.11
SO2	2.55	2.72	2.78	2.25
NOx	130.28	25.21	21.82	15.74

Richland

	1999	2000	2001	2002
VOC	294.28	292.31	257.41	236.78
PM	247.44	267.62	217.18	110.68
SO2	2556.10	3175.13	5849.74	3981.95
NOx	1934.65	2601.77	2979.18	2267.64

Ross

	1999	2000	2001	2002
VOC	1001.91	890.72	981.88	820.16
PM	631.95	692.94	656.21	628.97
SO2	29841.51	29513.40	28007.63	24146.52
NOx	4327.29	4211.26	3941.19	3433.39

EIS COUNTY SUMMARY 1999-2002

Sandusky

	1999	2000	2001	2002
VOC	737.14	667.00	647.11	594.34
PM	662.66	862.25	903.93	742.47
SO2	2014.60	2108.38	2298.91	1919.34
NOx	3157.84	3283.87	3392.51	3056.25

Scioto

	1999	2000	2001	2002
VOC	849.26	254.00	237.21	199.29
PM	622.77	661.37	705.38	46.14
SO2	1829.17	1802.84	1826.23	24.87
NOx	967.88	1018.16	1098.08	755.22

Seneca

	1999	2000	2001	2002
VOC	108.78	94.12	77.47	71.96
PM	344.39	127.10	150.11	227.50
SO2	46.94	1665.42	2518.96	1998.16
NOx	135.72	429.23	564.47	636.49

Shelby

	1999	2000	2001	2002
VOC	804.32	696.61	771.10	790.51
PM	188.89	169.82	147.79	149.74
SO2	358.55	353.17	389.86	373.52
NOx	282.83	242.93	266.53	272.74

EIS COUNTY SUMMARY 1999-2002

Stark

	1999	2000	2001	2002
VOC	1692.56	1503.94	1259.69	1307.79
PM	1762.08	1432.43	1461.86	1397.05
SO2	1543.87	1623.56	1644.46	1377.76
NOx	2613.06	2211.16	2218.93	1827.83

Summit

	1999	2000	2001	2002
VOC	894.38	609.08	518.28	550.95
PM	221.21	241.87	264.98	287.19
SO2	10895.07	10223.25	11403.11	11055.81
NOx	1513.59	1584.86	1466.64	1443.13

Trumbull

	1999	2000	2001	2002
VOC	2648.31	2387.09	2396.74	2436.52
PM	1942.50	1841.12	1566.87	1490.08
SO2	22039.81	22291.85	28585.16	19693.10
NOx	8041.12	7568.06	5808.26	7188.69

Tuscarawas

	1999	2000	2001	2002
VOC	365.20	318.57	297.77	295.96
PM	311.67	353.70	195.14	188.53
SO2	2592.75	3361.48	2094.06	2018.78
NOx	993.64	1073.07	867.41	651.17

EIS COUNTY SUMMARY 1999-2002

Union

	1999	2000	2001	2002
VOC	1837.89	1772.48	1886.03	1646.27
PM	178.53	182.05	183.41	147.61
SO2	33.22	49.71	57.32	49.82
NOx	90.13	113.64	116.68	101.91

Van Wert

	1999	2000	2001	2002
VOC	371.92	404.92	395.07	393.74
PM	50.33	87.69	93.35	117.56
SO2	747.80	906.95	960.86	1103.89
NOx	109.71	124.28	130.51	181.42

Vinton

	1999	2000	2001	2002
VOC	1.28	2.04	1.77	1.97
PM	0.43	0.67	0.50	0.46
SO2	0.01	0.01	0.01	0.01
NOx	28.48	44.96	31.90	30.19

Warren

	1999	2000	2001	2002
VOC	241.64	222.82	216.42	208.67
PM	61.86	46.51	41.04	44.07
SO2	8.85	14.61	5.69	5.71
NOx	1389.12	1370.03	1357.83	946.89

EIS COUNTY SUMMARY 1999-2002

Washington

	1999	2000	2001	2002
VOC	663.40	684.60	718.65	824.31
PM	1619.61	2131.07	1943.80	1950.31
SO2	106452.37	92781.19	89781.94	128144.72
NOx	23474.49	21913.21	21535.55	30127.76

Wayne

	1999	2000	2001	2002
VOC	365.21	285.93	256.83	164.91
PM	1001.34	689.12	666.02	465.19
SO2	27204.57	26918.50	26005.75	23734.22
NOx	3722.27	3631.73	3361.43	3121.88

Williams

	1999	2000	2001	2002
VOC	777.07	639.79	476.80	455.48
PM	25.82	27.85	27.17	28.49
SO2	19.30	102.55	104.36	2.04
NOx	97.03	43.30	38.53	21.77

Wood

	1999	2000	2001	2002
VOC	451.70	371.66	281.91	427.89
PM	370.24	346.00	346.94	389.20
SO2	304.87	251.99	311.68	285.10
NOx	1084.31	901.72	1025.54	1047.48

EIS COUNTY SUMMARY 1999-2002

Wyandot

	1999	2000	2001	2002
VOC	364.85	391.92	612.75	590.97
PM	383.90	416.20	398.27	379.83
SO2	3.00	3.48	7.62	10.62
NOx	123.34	131.87	177.02	223.29