

# Ohio County Profiles



Department of  
Development

Prepared by the Office of Strategic Research

## Region 10

**2006 Population:** 591,743

**Land Area:** 5,019.0 square miles

### Regional Economic Development Office Location:

2146 Southgate Parkway

Cambridge, OH 43725-3082

Phone: (740) 439-2263 Fax: (740) 439-1524



### Taxes

Taxable value of real property	\$7,799,303,290
Residential	\$5,245,198,070
Agriculture	\$1,006,475,380
Industrial	\$348,858,620
Commercial	\$1,156,076,410
Mineral	\$42,694,810
Ohio income tax liability	\$276,735,614
Average per return	\$1,083.78

### Land Use/Land Cover

	Percent
Urban (Residential/Commercial/Industrial/ Transportation and Urban Grasses)	2.66%
Cropland	18.38%
Pasture	12.52%
Forest	65.38%
Open Water	0.83%
Wetlands (Wooded/Herbaceous)	0.16%
Bare/Mines	0.08%

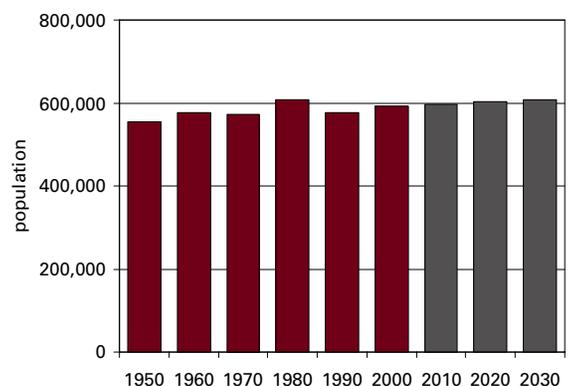
### Largest Areas

	Census 2000	Est. 2006
Zanesville, Muskingum Co.	25,586	25,361
Steubenville, Jefferson Co.	19,015	19,199
New Philadelphia, Tusc. Co.	17,056	17,433
Dover, Tuscarawas Co.	12,210	12,504
East Liverpool, Colu. Co.	13,089	12,305
Salem, Columbiana Co.	12,197	11,974
Coshocton, Coshocton Co.	11,682	11,643
Cambridge, Guernsey Co.	11,520	11,454
Richland twp UB, Belm. Co.	8,514	8,814
Falls twp, Muskingum Co.	8,585	8,704

UB: Unincorporated Balance

### Total Population

Census		Estimated		Projected	
1800	8,766	1900	401,328	2001	592,687
1810	55,367	1910	459,004	2002	593,986
1820	117,768	1920	502,941	2003	594,103
1830	189,588	1930	527,190	2004	594,124
1840	266,322	1940	547,529	2005	592,286
1850	288,570	1950	554,456	2006	591,743
1860	277,171	1960	577,263		
1870	284,715	1970	573,224		
1880	332,717	1980	606,873		
1890	368,568	1990	575,712		
		2000	592,776		
				2010	596,410
				2020	604,360
				2030	607,810



Population by Race	Number	Percent
Total Population	592,776	100.0%
White	567,659	95.8%
African-American	14,545	2.5%
Native American	1,277	0.2%
Asian	1,710	0.3%
Pacific Islander	133	0.0%
Other	1,417	0.2%
Two or More Races	6,035	1.0%
Hispanic (may be of any race)	3,938	0.7%
<b>Total Minority</b>	<b>27,497</b>	<b>4.6%</b>

Educational Attainment	Number	Percent
Persons 25 years and over	395,310	100.0%
No high school diploma	83,585	21.1%
High school graduate	183,994	46.5%
Some college, no degree	62,835	15.9%
Associate degree	21,171	5.4%
Bachelor's degree	28,705	7.3%
Master's degree or higher	15,020	3.8%

Family Type by Employment Status	Number	Percent
Total Families	162,702	100.0%
Married couple, husband and wife in labor force	63,432	39.0%
Married couple, husband in labor force, wife not	31,779	19.5%
Married couple, wife in labor force, husband not	9,341	5.7%
Married couple, husband and wife not in labor force	27,135	16.7%
Male householder, in labor force	6,496	4.0%
Male householder, not in labor force	2,033	1.2%
Female householder, in labor force	14,288	8.8%
Female householder, not in labor force	8,198	5.0%

Household Income in 1999	Number	Percent
Total Households	229,170	100.0%
Less than \$10,000	25,029	10.9%
\$10,000 to \$19,999	38,881	17.0%
\$20,000 to \$29,999	38,172	16.7%
\$30,000 to \$39,999	33,579	14.7%
\$40,000 to \$49,999	26,826	11.7%
\$50,000 to \$59,999	21,283	9.3%
\$60,000 to \$74,999	20,403	8.9%
\$75,000 to \$99,999	14,653	6.4%
\$100,000 to \$149,999	6,773	3.0%
\$150,000 to \$199,999	1,625	0.7%
\$200,000 or more	1,946	0.8%
<b>Median household income</b>	<b>\$33,524</b>	

Population by Age	Number	Percent
Total Population	592,776	100.0%
Under 6 years	45,181	7.6%
6 to 17 years	103,462	17.5%
18 to 24 years	48,823	8.2%
25 to 44 years	162,893	27.5%
45 to 64 years	141,124	23.8%
65 years and more	91,293	15.4%
<b>Median Age</b>	<b>38.2</b>	

Family Type by Presence of Own Children Under 18	Number	Percent
Total Families	162,702	100.0%
Married-couple families with own children	55,869	34.3%
Male householder, no wife present, with own children	4,857	3.0%
Female householder, no husband present, with own children	12,991	8.0%
Families with no own children	88,985	54.7%

Poverty Status in 1999 of Families By Family Type by Presence Of Related Children	Number	Percent
Total Families	162,702	100.0%
Family income above poverty level	146,855	90.3%
Family income below poverty level	15,847	9.7%
Married couple, with related children	4,103	25.9%
Male householder, no wife present, with related children	1,183	7.5%
Female householder, no husband present, with related children	6,269	39.6%
Families with no related children	4,292	27.1%

Ratio of Income in 1999 To Poverty Level	Number	Percent
Population for whom poverty status is determined	576,666	100.0%
Below 50% of poverty level	29,630	5.1%
50% to 99% of poverty level	42,373	7.3%
100% to 149% of poverty level	59,984	10.4%
150% to 199% of poverty level	65,435	11.3%
200% of poverty level or more	379,244	65.8%

Residence in 1995	Number	Percent
Population 5 years and over	555,426	100.0%
Same house in 1995	358,128	64.5%
Different house, same county	126,730	22.8%
Different county, same state	44,891	8.1%
Different state	23,397	4.2%
Puerto Rico or U.S. islands	119	0.0%
Foreign country	2,161	0.4%

## Travel Time To Work

	Number	Percent
Workers 16 years and over	255,162	100.0%
Less than 15 minutes	90,934	35.6%
15 to 29 minutes	84,910	33.3%
30 to 44 minutes	38,049	14.9%
45 to 59 minutes	16,178	6.3%
60 minutes or more	16,263	6.4%
Worked at home	8,828	3.5%

**Mean travel time** 23.2 minutes

## Housing Units

	Number	Percent
Total housing units	251,740	100.0%
Occupied housing units	229,181	91.0%
Owner occupied	172,432	68.5%
Renter occupied	56,749	22.5%
Vacant housing units	22,559	9.0%

## Year Structure Built

	Number	Percent
Total housing units	251,740	100.0%
Built 1995 to March 2000	18,136	7.2%
Built 1990 to 1994	12,017	4.8%
Built 1980 to 1989	23,667	9.4%
Built 1970 to 1979	40,607	16.1%
Built 1960 to 1969	28,651	11.4%
Built 1950 to 1959	30,219	12.0%
Built 1940 to 1949	21,917	8.7%
Built 1939 or earlier	76,526	30.4%

**Median year built** 1950

## Value for Specified Owner-Occupied Housing Units

	Number	Percent
Specified owner-occupied housing units	129,316	100.0%
Less than \$20,000	4,302	3.3%
\$20,000 to \$39,999	14,133	10.9%
\$40,000 to \$59,999	22,717	17.6%
\$60,000 to \$79,999	26,371	20.4%
\$80,000 to \$99,999	24,418	18.9%
\$100,000 to \$124,999	15,005	11.6%
\$125,000 to \$149,999	9,392	7.3%
\$150,000 to \$199,999	7,912	6.1%
\$200,000 to \$249,999	2,776	2.1%
\$250,000 to \$499,999	1,957	1.5%
\$500,000 to \$999,999	232	0.2%
\$1,000,000 or more	101	0.1%

**Median value** \$77,828

## House Heating Fuel

	Number	Percent
Occupied housing units	229,181	100.0%
Utility gas	126,019	55.0%
Bottled, tank or LP gas	20,555	9.0%
Electricity	43,290	18.9%
Fuel oil, kerosene, etc	29,427	12.8%
Coal, coke or wood	7,449	3.3%
Solar energy or other fuel	2,160	0.9%
No fuel used	281	0.1%

## Gross Rent

	Number	Percent
Specified renter-occupied housing units	54,534	100.0%
Less than \$100	1,038	1.9%
\$100 to \$199	4,350	8.0%
\$200 to \$299	6,516	11.9%
\$300 to \$399	12,046	22.1%
\$400 to \$499	11,841	21.7%
\$500 to \$599	7,155	13.1%
\$600 to \$699	3,491	6.4%
\$700 to \$799	1,231	2.3%
\$800 to \$899	536	1.0%
\$900 to \$999	178	0.3%
\$1,000 to \$1,499	157	0.3%
\$1,500 or more	168	0.3%
No cash rent	5,827	10.7%

**Median gross rent** \$403

Median gross rent as a percentage of household income in 1999

## Selected Monthly Owner Costs for Specified Owner-Occupied Housing Units

	Number	Percent
Specified owner-occupied housing units with a mortgage	74,006	100.0%
Less than \$400	5,284	7.1%
\$400 to \$599	18,097	24.5%
\$600 to \$799	20,801	28.1%
\$800 to \$999	13,799	18.6%
\$1,000 to \$1,249	8,935	12.1%
\$1,250 to \$1,499	3,713	5.0%
\$1,500 to \$1,999	2,351	3.2%
\$2,000 to \$2,999	746	1.0%
\$3,000 or more	280	0.4%

**Median monthly owners cost** \$731

Median monthly owners cost as a percentage of household income

## Vital Statistics

	Number	Rate
Births / rate per 1,000 women aged 15-44	7,026	61.7
Teen births / rate per 1,000 females 15-17	211	16.8
Deaths / rate per 100,000 population	6,509	1,097.2
Marriages / rate per 1,000 population	3,859	6.5
Divorces / rate per 1,000 population	2,243	3.8

## Migration

## Agriculture

Land in farms (acres)	1,445,000
Number of farms	9,440
Average size (acres)	153
Total cash receipts	\$469,527,000
Per farm	\$49,528

## Education

Public schools	249
Students (Average Daily Membership)	91,553
Expenditures per student	\$8,035
Student-teacher ratio	
Graduation rate	
Teachers (Full Time Equivalent)	5,422.8
Non-public schools	34
Students	4,146
4-year public universities	0
Branches	5
2-year public colleges	3
Private universities and colleges	3
Public libraries (Main / Branches)	24 / 31

## Transportation

Registered motor vehicles	688,511
Passenger cars	414,317
Noncommercial trucks	134,517
Total license revenue	\$19,046,837.38
Interstate highway miles	147.90
Turnpike miles	0.00
U.S. highway miles	345.71
State highway miles	1,694.83
Commercial airports	17

## Voting

Number of precincts	556
Number of registered voters	375,663
Voted in 2006 election	204,614
Percent turnout	54.5%

## Health Care

Physicians (MDs & DOs)	708
Registered hospitals	16
Number of beds	2,562
Licensed nursing homes	67
Number of beds	5,631
Licensed residential care	26
Number of beds	1,433
Adults with employer-based insurance	56.8%
Children with employer-based insurance	57.3%

## State Parks, Forests, Nature Preserves, And Wildlife Areas

Facilities	59
Acreage	107,305.20

## Communications

Television stations	2
Radio stations	23
Daily newspapers	9
Circulation	166,724

## Crime

Total crimes reported in Uniform Crime Report	9,853
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## Finance

FDIC insured financial institutions (HQs)	20
Assets	\$21,656,635,000
Branch offices	255
Institutions represented	44

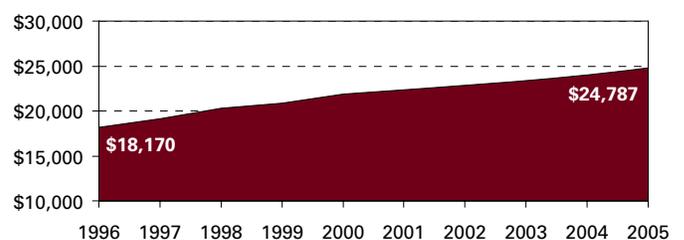
## Transfer Payments

Total transfer payments	\$3,503,652,000
Payments to individuals	\$3,343,692,000
Retirement and disability	\$1,401,775,000
Medical payments	\$1,464,348,000
Income maintenance (Supplemental SSI, family assistance, food stamps, etc)	\$324,345,000
Unemployment benefits	\$64,927,000
Veterans benefits	\$69,135,000
Federal education and training assistance	\$17,581,000
Other payments to individuals	\$1,581,000
Total personal income	\$14,681,141,000
Dependency ratio	23.9%

## Federal Expenditures

Direct expenditures or obligations	\$3,171,260,459
Retirement and disability	\$1,536,143,980
Other direct payments	\$784,205,760
Grant awards	\$658,461,817
Highway planning and construction	\$34,784,687
Temporary assistance to needy families	\$39,476,983
Medical assistance program	\$420,502,245
Procurement contract awards	\$60,824,158
Dept. of Defense	\$29,406,609
Salary and wages	\$131,624,744
Dept. of Defense	\$14,920,000
Other federal assistance	\$359,105,535
Direct loans	\$14,391,374
Guaranteed loans	\$146,683,547
Insurance	\$198,030,614

## Per Capita Personal Income



## Civilian Labor Force

	2002	2003	2004	2005	2006
Civilian labor force	283,000	285,700	284,200	284,200	283,000
Employed	265,000	265,800	263,800	264,900	265,600
Unemployed	18,000	19,800	20,500	19,300	17,400
Unemployment rate	6.4	6.9	7.2	6.8	6.1

## Employment and Wages by Sector

NAICS Industrial Sector	Average Annual Employment		Total Wages (in thousands of dollars)	
	2004	2005	2004	2005
Total covered under Ohio UC Law	207,674	206,600	\$5,677,803	\$5,801,927
Private Sector	177,384	176,874	\$4,774,368	\$4,900,149
Agriculture, forestry, fishing and hunting	799	837	\$17,134	\$17,821
Mining	2,757	2,900	\$133,582	\$151,793
Utilities	1,796	1,747	\$118,266	\$123,891
Construction	9,559	9,446	\$303,838	\$300,324
Manufacturing	40,103	39,282	\$1,432,257	\$1,485,314
Wholesale trade	6,405	6,309	\$214,355	\$214,171
Retail trade	30,383	30,016	\$572,591	\$566,751
Transportation and warehousing	5,302	4,795	\$174,486	\$163,437
Information	2,669	2,511	\$84,278	\$78,685
Finance and insurance	4,906	4,980	\$157,779	\$164,024
Real estate and rental and leasing	1,742	1,799	\$35,132	\$36,503
Professional and technical services	3,236	2,838	\$101,811	\$93,562
Management of companies and enterprises	541	446	\$23,675	\$21,525
Administrative and waste services	7,242	7,862	\$148,814	\$172,963
Educational services	1,713	1,764	\$39,094	\$41,844
Health care and social assistance	27,442	28,282	\$796,566	\$817,157
Arts, entertainment, and recreation	1,999	1,929	\$24,429	\$23,528
Accommodation and food services	18,392	18,073	\$180,222	\$178,482
Other services, except public administration	6,485	6,487	\$112,331	\$113,147
State and Local Government	30,293	29,727	\$903,432	\$901,777
State government	3,129	3,064	\$120,957	\$122,565
Local government	27,164	26,663	\$782,475	\$779,214
Federal Government	1,937	1,901	\$89,220	\$87,144

-1 or \$0 indicates suppression for confidentiality

## Business Numbers

	2002	2003	2004	2005	2006
Business starts	1,095	1,342	1,053	892	1,064
Active businesses	12,065	12,271	12,341	12,156	12,097

## Residential

### Construction

	2002	2003	2004	2005	2006
Total units	670	619	921	720	480
Total valuation (000)	\$56,208	\$72,027	\$93,382	\$83,265	\$61,689
Total single-unit bldgs	428	477	631	502	357
Average cost per unit	\$109,130	\$133,674	\$121,791	\$146,587	\$144,503
Total multi-unit bldg units	242	142	290	218	123
Average cost per unit	\$39,258	\$58,200	\$57,006	\$44,396	\$82,130

## Major Employers

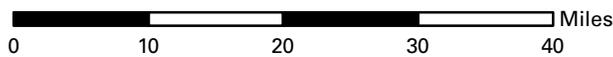
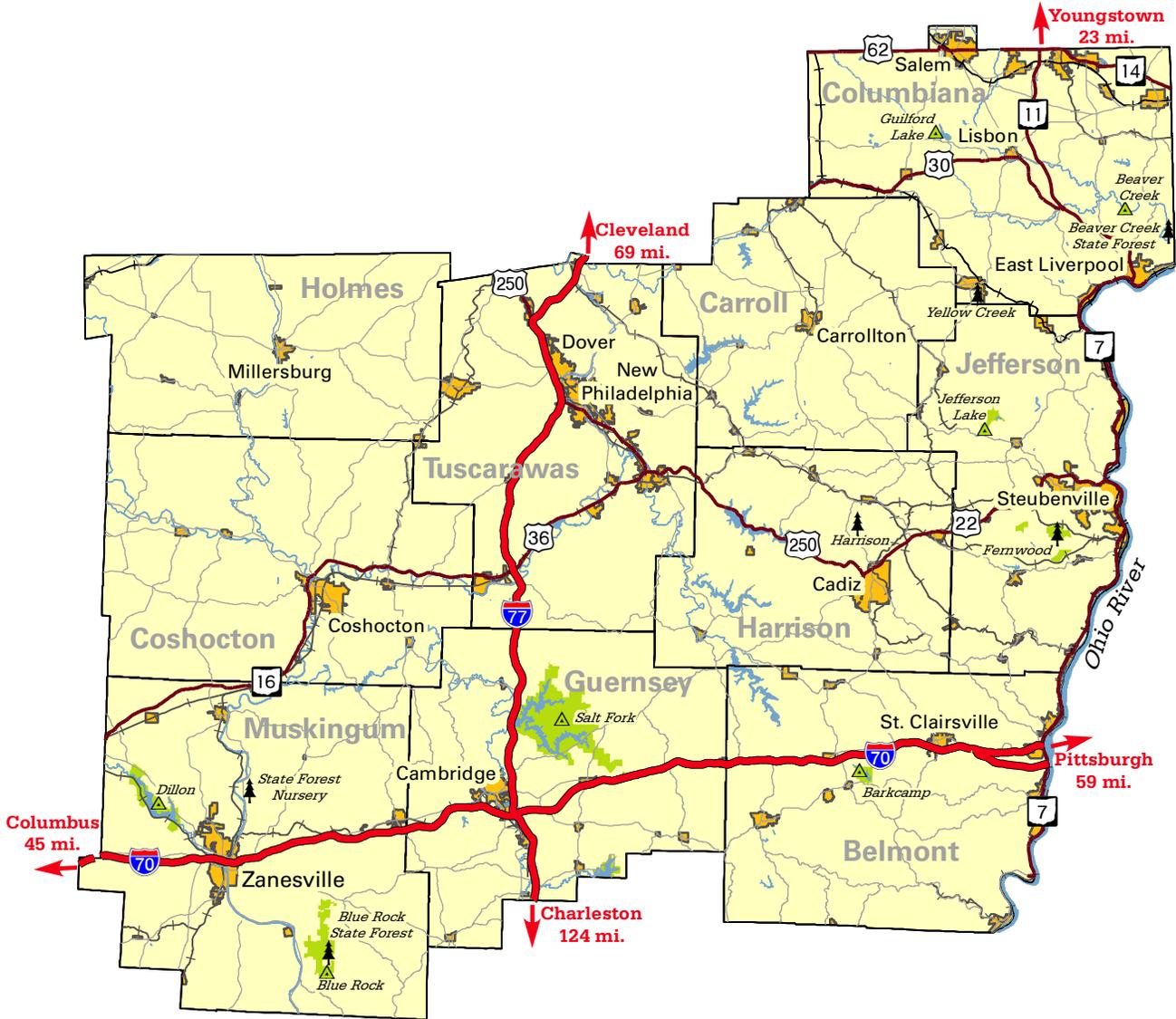
AK Steel Holding Corp	Mfg
American Axle & Manufacturing Holding	Mfg
American Electric Power Co	Utility
Blackhawk Automotive Plastics Inc	Mfg
Colgate-Palmolive Co	Mfg
Commercial Vehicle Group/Mayflower	Mfg
Detroit Diesel	Mfg
FirstEnergy Corp	Utility
Kraft Foods Inc	Mfg
Longaberger Co	Mfg
Owens-Illinois/Owens-Brockway	Mfg
Titanium Metals Corp/Timet	Mfg
Wal-Mart Stores Inc	Trade
Wayne-Dalton Corp	Mfg
Wheeling-Pittsburgh Steel Corp	Mfg

# Region 10

## East Central Ohio



Department of  
Development



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Population (2006): 591,743  
Area: 5,019.0 sq. mi.



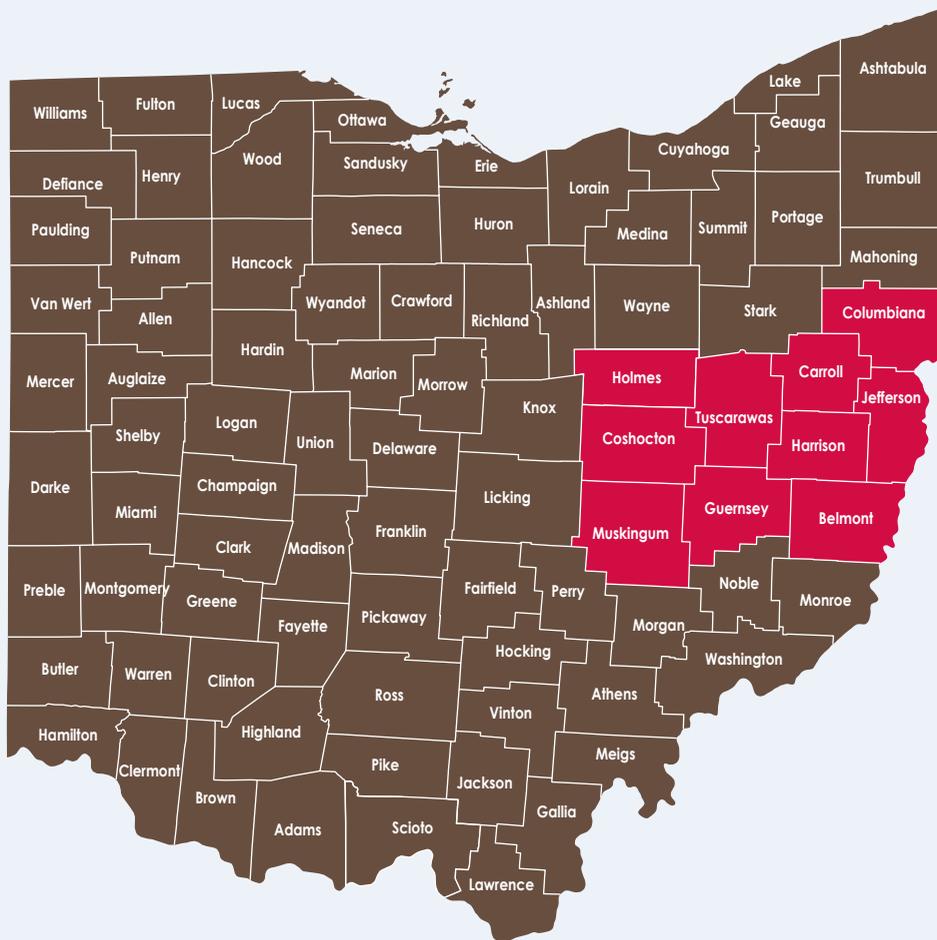
### 2007 Ohio Private Investment List

Region	County	Company	City	NAICS	Product	Type	Jobs	Investment	Square Feet	New	Exp
10	Columbiana	Baltic Avenue Enterprises	East Palestine	62311	Nursing home	Health	30	\$5,500,000	31,800		Exp
10	Coshocton	American Electric Power	Coshocton	221112	Electric power	Utility		\$430,000,000			Exp
10	Jefferson	Wheeling Pittsburgh Steel	Mingo Junction	331111	Steel	MF		\$5,000,000			Exp
10	Muskingum	Avon Products Inc	Washington Twp	44612	Cosmetics	DW	450	\$115,000,000	590,000	New	
10	Muskingum	AK Steel	Zanesville	331111	Electrical steel	MF		\$33,000,000			Exp
10	Muskingum	Enviro-Flow	Zanesville	42461	Plastic manholes	DW			60,000	New	
10	Muskingum	Bilco Co	Zanesville	326199	Plastic molders	MF	25	\$2,000,000			Exp
10	Muskingum	Finton Equipment	Zanesville	42832	Farm equipment	DW	3	\$1,600,000	11,000	New	
10	Muskingum	Heritage Stone	Zanesville	32739	Artificial building stone	MF		\$3,000,000	140,000		Exp
10	Muskingum	Mattingly Foods Inc	Zanesville	42449	Canned food products	DW		\$2,700,000	46,800		Exp
10	Muskingum	Primerose Retirement	Zanesville	62311	Assisted living	Health	25	\$7,000,000	101,000	New	
10	Muskingum	Bateman Road	Zanesville	23731	Road improvements	Highway		\$1,300,000			Exp
10	Muskingum	Sewer projects	Zanesville	23799	Sonoro/Coopermill	Water		\$3,000,000			Exp
10	Tuscarawas	Eagle Machinery & Supply	Sugarcreek	333512	Machine tools	MF	3	\$1,500,000	30,000	New	
10	Tuscarawas	Boltaron Performance Products	Newcomerstown	326113	Plastic products	MF		\$3,000,000			Exp
<b>Region 10</b>	<b>Totals</b>						<b>536</b>	<b>\$613,600,000</b>	<b>1,010,600</b>		

# Workforce Analysis

East Central Ohio

Economic Development Region 10



*Belmont, Carroll, Columbiana, Coshocton,  
Guernsey, Harrison, Holmes, Jefferson,  
Muskingum and Tuscarawas Counties*

Workforce Analysis  
Economic Development Region 10



October  
2007

# Workforce Analysis Economic Development Region 10 East Central Ohio

## Table of Contents

Preface.....	iii
Executive Summary.....	v
I. Understanding the Local Labor Market.....	1
II. Economic Indicators .....	3
Population Trends.....	3
Demographic Traits.....	3
Employment Trends.....	4
Unemployment Rate Trends .....	5
Per Capita Income Trends .....	6
Residential Construction Permit Trends.....	7
III. Employment Projections to 2014 .....	9
Projections by Industry Sector .....	9
Projections by Occupational Group.....	10
High Prospect Occupations .....	11
IV. Education & Training.....	15
Educational Attainment.....	15
Institutions and Degree Completions.....	15
Skills-Based Projections .....	16
Technical Notes.....	19
References.....	20
Appendix A: Ohio's Economic Development Regions .....	21
Appendix B: Ohio's Metropolitan Statistical Areas .....	22
Appendix C: Detailed County-to-County Commuting Patterns .....	23
Appendix D: Major Employers by County .....	27
Appendix E: Postsecondary Institutions.....	30
Appendix F: Degree Completers by Program Class.....	31

## Executive Summary

- This region contains portions of the Canton-Massillon, Weirton-Steubenville and Wheeling MSAs. Almost every county has a negative net flow of commuters.
- The counties in East Central Ohio are all part of the Appalachian Region. Nine counties were designated as economically “transitional” and one as “at-risk.”
- Total population in 2006 was about 592,000, an increase of 0.5 percent from 1995. This region has an older age profile than the rest of the state.
- Nonfarm payroll employment was approximately 207,600 in 2006, a drop of 4.1 percent from 2000.
- The 2006 unemployment rate was 6.1 percent, down 1.1 percentage points from the last peak in 2004. East Central Ohio unemployment rates have remained above state and national rates for the last ten years.
- Per capita income in 2005 was \$24,787, a compound annual increase of 3.5 percent.
- The decline to 480 residential construction permits granted in 2006 mirrored state and national trends. Average unit valuation was about \$129,000.
- East Central Ohio is projected to add 10,500 jobs in net from 2004 to 2014. The fastest-growing industry sectors with substantial new job creation will be professional and business services; education and health services; and construction.
- The fastest-growing occupational groups will be computer and mathematical; healthcare; and business and financial operations.
- This region has a lower level of overall educational attainment than the rest of the state. However, there is faster growth in the number of postsecondary degrees being awarded.
- There are 17 postsecondary training providers in East Central Ohio offering almost 600 different programs. There were nearly 4,000 degrees and certificates awarded in 2006.
- The most important workplace skills through 2014 will be reading comprehension, speaking and critical thinking.

## I. Understanding the Local Labor Market

Labor economists define a *labor market* as a geographic area in which both the demand and supply for labor are met primarily within that region.<sup>1</sup> In other words, it is an area where there are jobs and the majority of workers needed for those jobs. An important first step in identifying local labor markets is to examine the commuting patterns of individuals who live or work in the area. These patterns are one of the primary inputs used to define metropolitan areas.

East Central Ohio contains portions of three different metropolitan areas—the Canton-Massillon MSA in Carroll County, the Weirton-Steubenville MSA in Jefferson County and the Wheeling MSA in Belmont County. But almost every county in the region has a negative net flow of commuters. Only Holmes and Muskingum Counties have net inflows of commuters. In total, over 33,000 workers in net commute outside the region to their jobs. This total excludes commuting between counties within the region.

**Figure 1: Regional Commuting Patterns**

County	In-Commuters			Out-Commuters			Net Comparisons	
	Working in the County	In-Commuters	Percent of In-Commuters	Employed Living in the County	Out-Commuters	Percent of Out-Commuters	Net Flow of Commuters	Percent of Total Commuters
Belmont	23,944	6,097	25.5%	27,889	10,042	36.0%	-3,945	-24.4%
Carroll	7,947	2,412	30.4%	12,882	7,347	57.0%	-4,935	-50.6%
Columbiana	37,705	7,790	20.7%	49,461	19,546	39.5%	-11,756	-43.0%
Coshocton	13,993	1,912	13.7%	16,585	4,504	27.2%	-2,592	-40.4%
Guernsey	15,528	3,276	21.1%	16,644	4,392	26.4%	-1,116	-14.6%
Harrison	4,416	1,282	29.0%	6,585	3,451	52.4%	-2,169	-45.8%
Holmes	17,493	5,340	30.5%	16,456	4,303	26.1%	1,037	10.8%
Jefferson	25,922	6,150	23.7%	28,793	9,021	31.3%	-2,871	-18.9%
Muskingum	37,875	8,000	21.1%	37,774	7,899	20.9%	101	0.6%
Tuscarawas	37,247	6,440	17.3%	42,093	11,286	26.8%	-4,846	-27.3%
<b>East Central Ohio</b>	<b>222,070</b>	<b>27,339</b>	<b>12.3%</b>	<b>255,162</b>	<b>60,461</b>	<b>23.7%</b>	<b>-33,122</b>	<b>-37.7%</b>

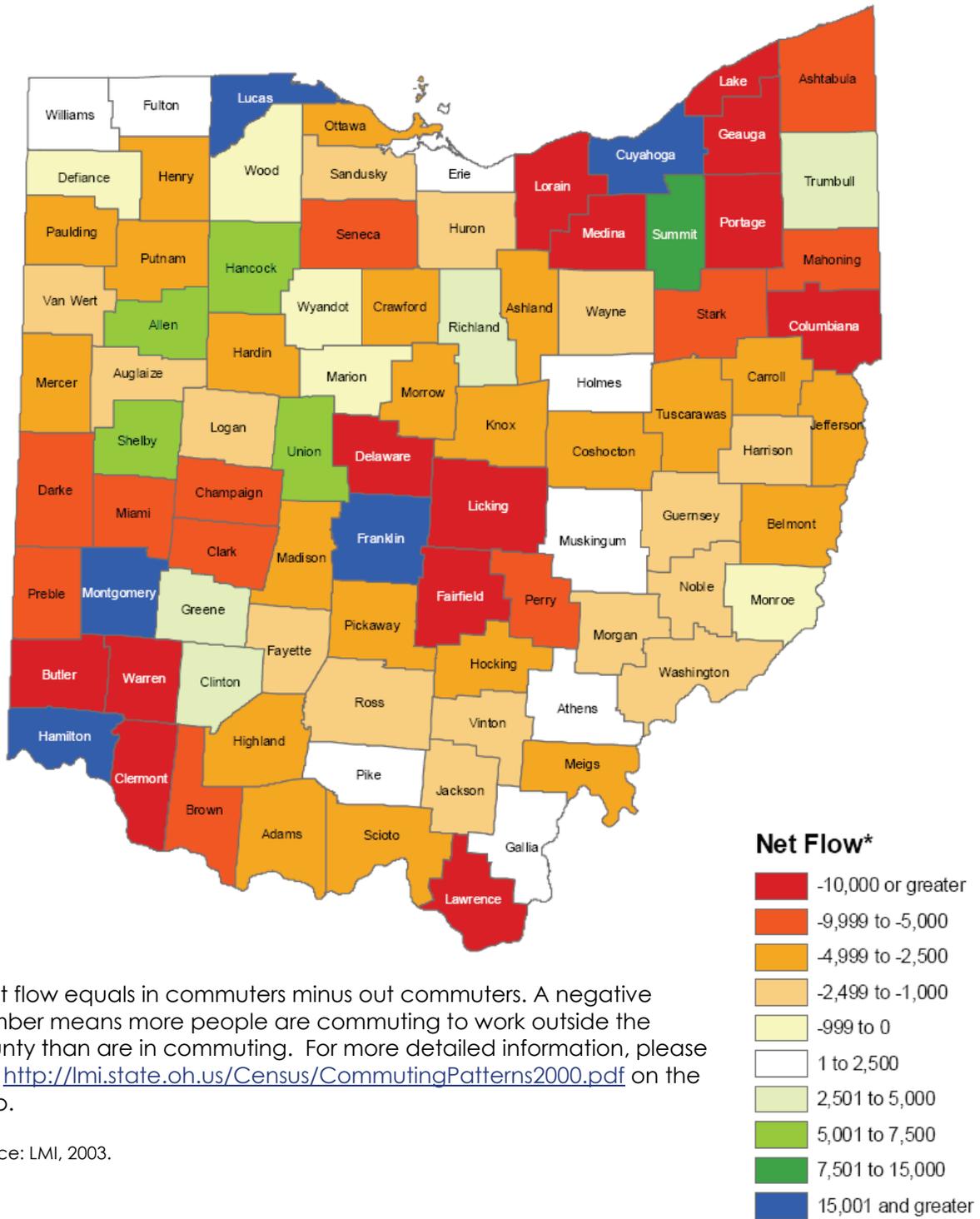
Figure 2 on the next page shows a visual summary of the net flow of commuters from the 2000 decennial census. Most workers commuting into a county to work usually do so from adjacent counties. Detailed county-to-county commuting is shown in Appendix C.

The counties in East Central Ohio are all part of the Appalachian Region. The Appalachian Regional Commission designated nine counties in this EDR as “transitional” for fiscal year 2007, meaning their economic indices (comprised of unemployment, per capita market income, and the poverty rate) ranks in the middle 50 percent nationally, and one county (Guernsey) as “at-risk,” meaning their indices rank below 75 percent of counties nationally.<sup>2</sup>

<sup>1</sup> Goldstein, 2005 (p. 1).

<sup>2</sup> Appalachian Regional Commission [ARC], 2006.

Figure 2: Net Flow of Ohio Commuters



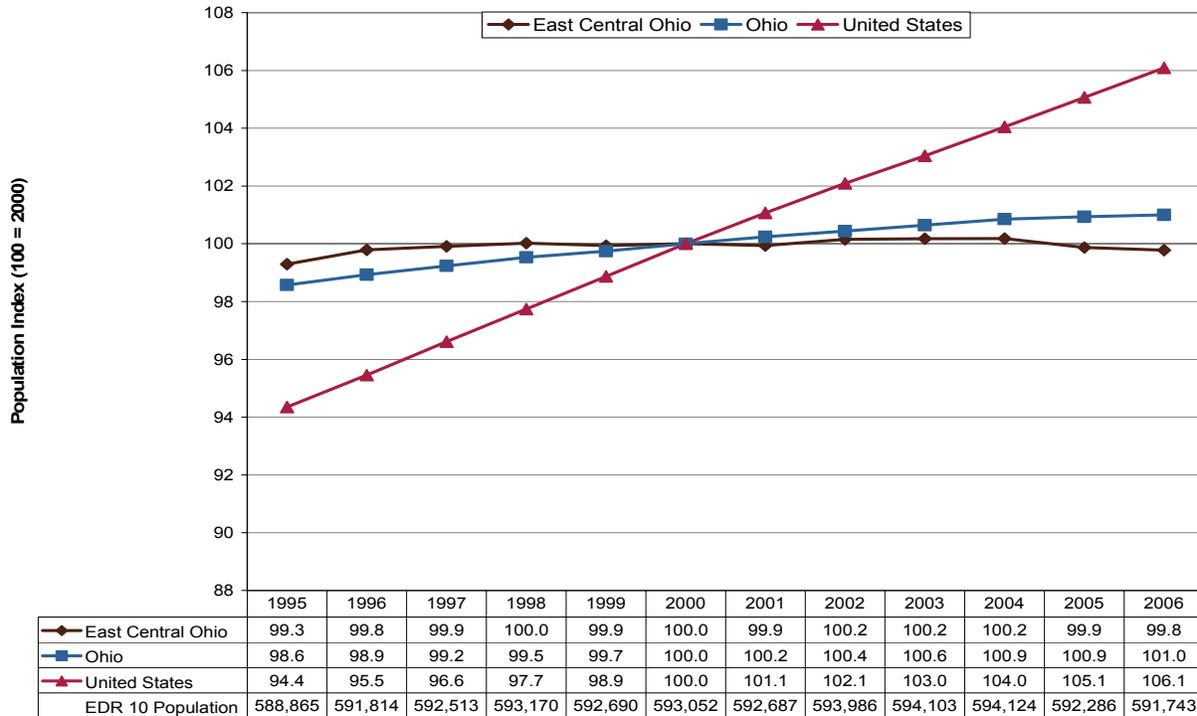
\*Net flow equals in commuters minus out commuters. A negative number means more people are commuting to work outside the county than are in commuting. For more detailed information, please visit <http://lmi.state.oh.us/Census/CommutingPatterns2000.pdf> on the web.

Source: LMI, 2003.

## II. Economic Indicators

**Population Trends.** Total regional population in 2006 was approximately 592,000 residents. As Figure 3 below shows, there has been very little change in population in the past ten years; East Central Ohio has only grown about half a percent since 1995. For comparison, Ohio's population increased 2.5 percent while national population increased 12.4 percent.

**Figure 3: Population Trends, 1995-2006**



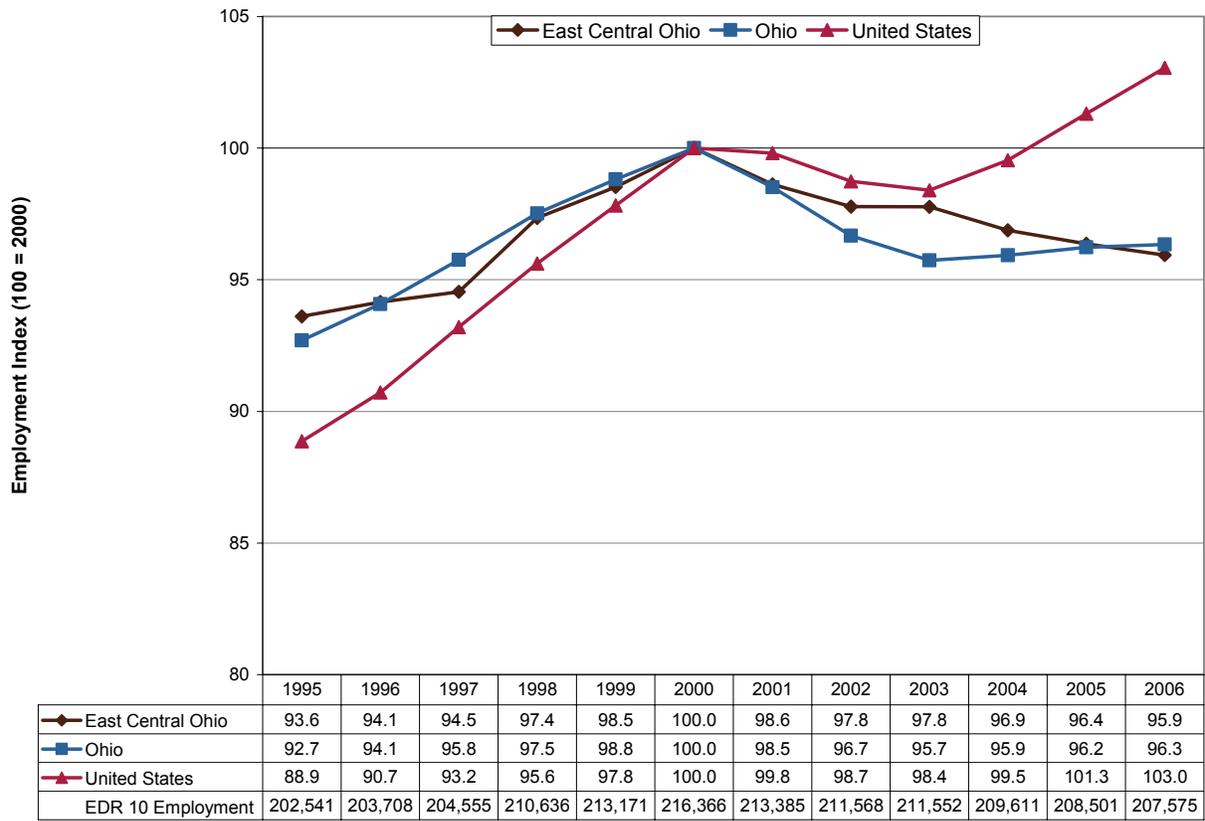
**Demographic Traits.** Population estimates for 2006, shown in Figure 4 below, reveal differences between this EDR and the rest of the state and nation. As is common for much of Appalachia, this region is older than the rest of the state. 27.0 percent of residents are 55 or older, compared with only 24.3 percent across Ohio. There is also a smaller young population: 31.5 percent are younger than 25, compared with 33.7 percent statewide.

**Figure 4: Demographic Characteristics, 2006**

	United States		Ohio		East Central Ohio	
<b>Total</b>	<b>299,238,484</b>	<b>100.0%</b>	<b>11,478,006</b>	<b>100.0%</b>	<b>591,743</b>	<b>100.0%</b>
Under 5	20,417,636	6.8%	734,735	6.4%	35,624	6.0%
5 to 14	40,337,284	13.5%	1,534,571	13.4%	75,956	12.8%
15 to 24	42,435,426	14.2%	1,597,458	13.9%	75,112	12.7%
25 to 34	40,415,979	13.5%	1,459,394	12.7%	76,701	13.0%
35 to 44	43,666,950	14.6%	1,621,662	14.1%	78,219	13.2%
45 to 54	43,278,174	14.5%	1,738,480	15.1%	90,324	15.3%
55 to 64	31,586,683	10.6%	1,259,712	11.0%	68,089	11.5%
65 and older	37,260,352	12.5%	1,531,994	13.3%	91,718	15.5%

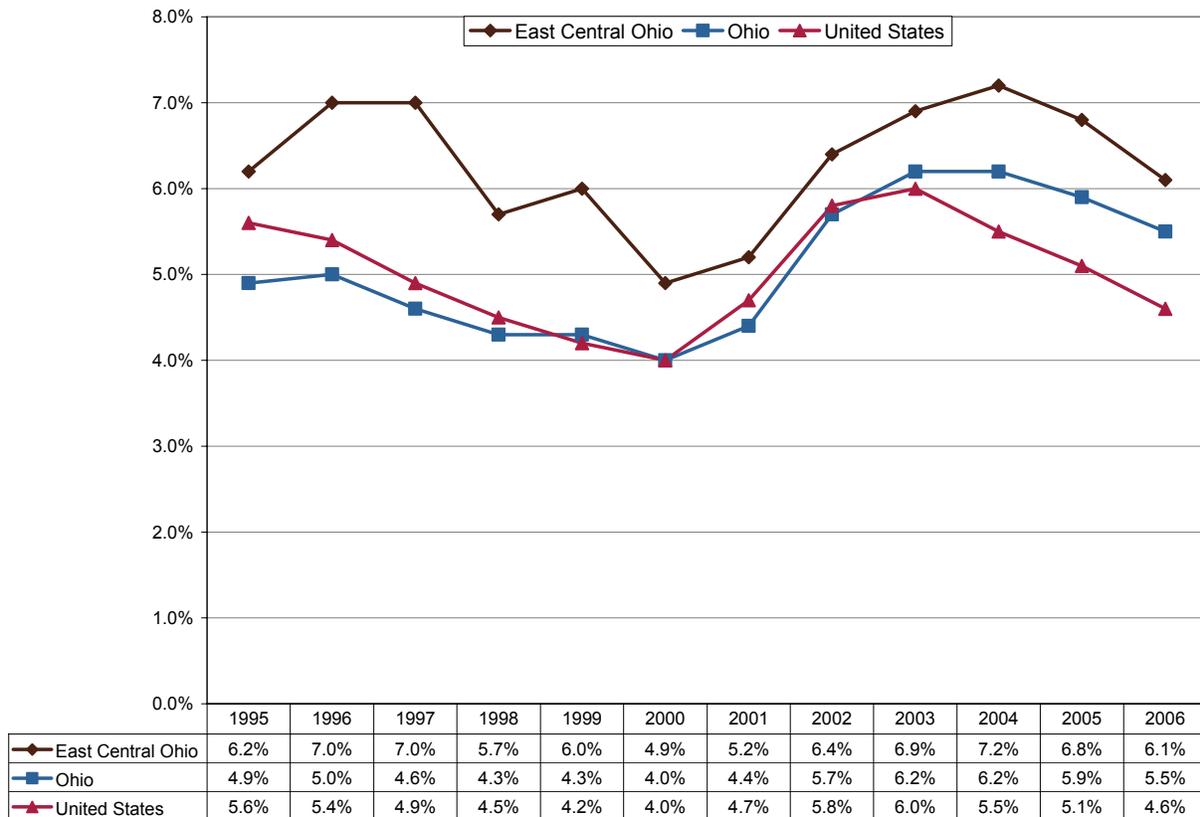
**Employment Trends.** Total nonfarm payroll employment in East Central Ohio was about 207,600 in 2006, down 4.1 percent from 2000. Like the rest of the state, this region has suffered significant job loss since the recession of 2001 and has not shown any real recovery since then. Statewide, Ohio's employment has fallen 3.7 percent since 2000. The United States as a whole has recovered from the recession and grew 3.0 percent in net.

**Figure 5: Nonfarm Employment Trends, 1995-2006**



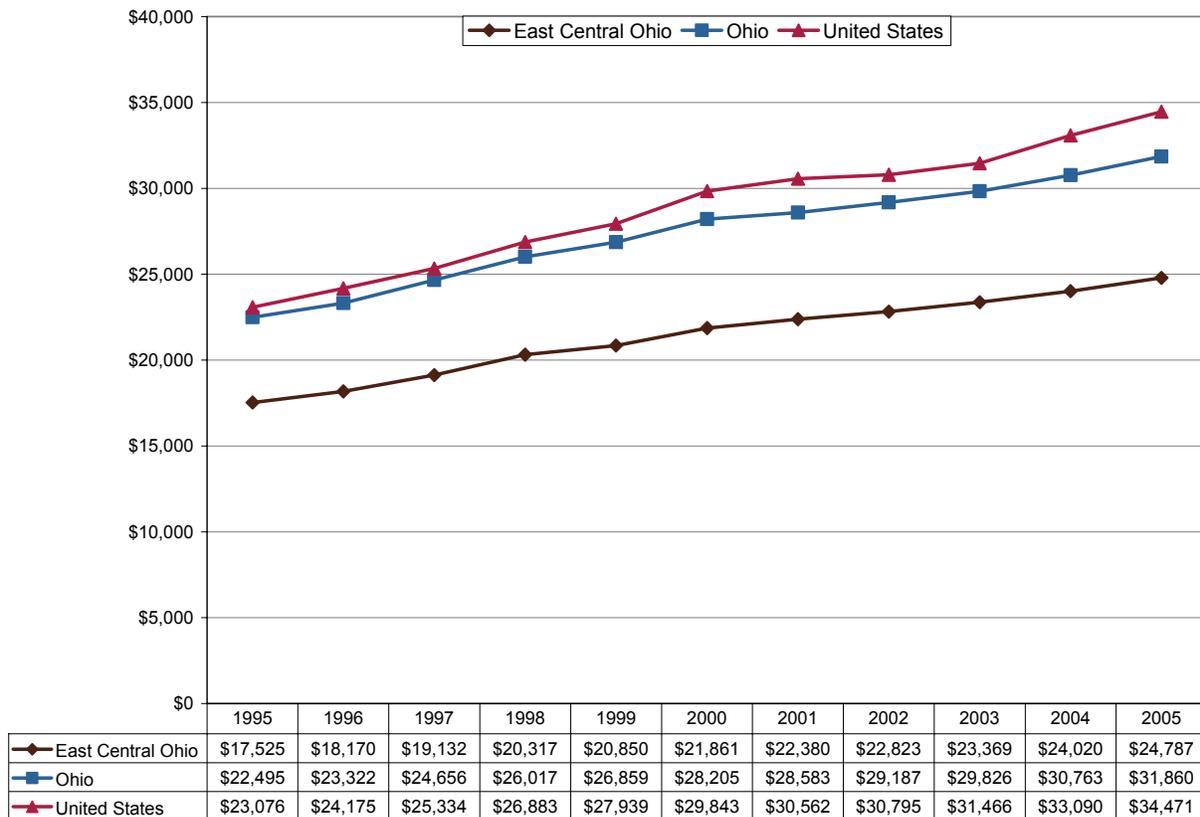
**Unemployment Rate Trends.** The unemployed are those in the non-institutional population 16 years or older who were not employed during the reference week but were actively seeking work, waiting to be called back to a job after a layoff, or waiting to report within 30 days to a new job. The regional unemployment rate in 2006 was 6.1 percent, significantly higher than the Ohio and U.S. rates for that year. Since the most recent peak in 2004, the unemployment rate has fallen 1.1 percentage points. For comparison, the 2006 Ohio unemployment rate was 5.5 percent and the national unemployment rate was 4.6 percent, having dropped 0.7 and 1.4 percentage points from their peaks in 2003, respectively.

**Figure 6: Unemployment Trends, 1995-2006**



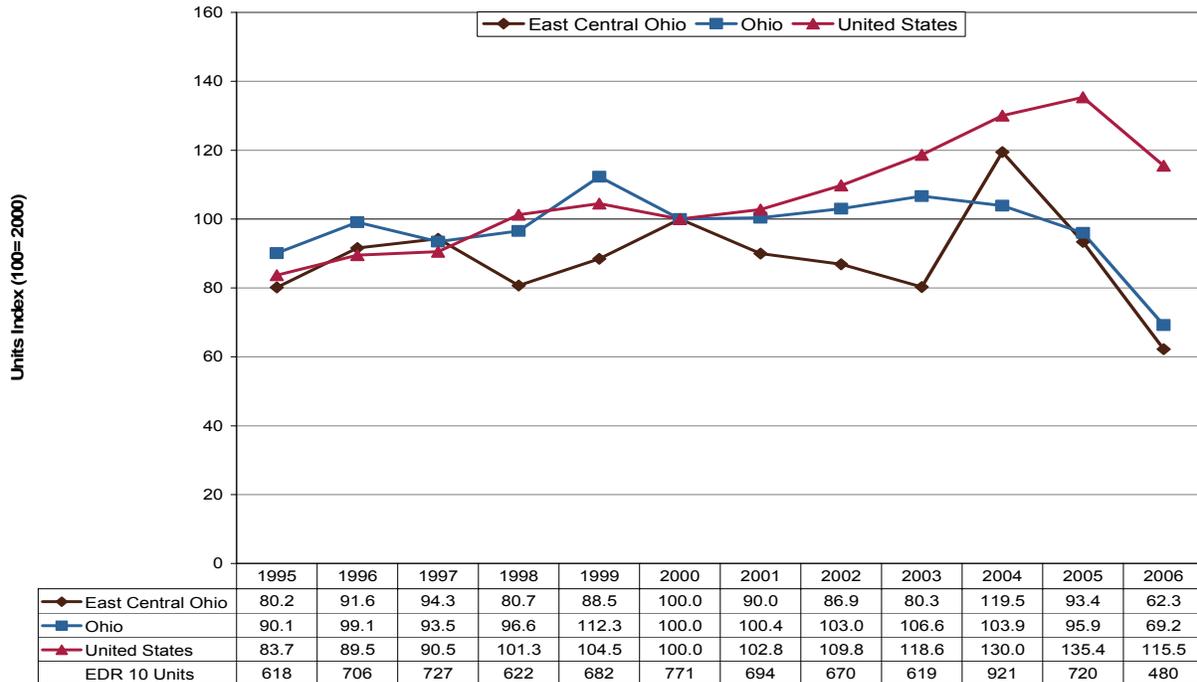
**Per Capita Income Trends.** East Central Ohio's per capita income was \$24,787 in 2005, far below the state and national income levels for that year. In general, income in rural areas tend to be lower than in more urbanized areas, and this region is highly rural. Since 1995, regional per capita income has grown at a 3.5 percent annual compound rate, the same rate as Ohio as a whole. National per capita income increased 4.1 percent during the same period.

**Figure 7: Per Capita Income, 1995-2005**

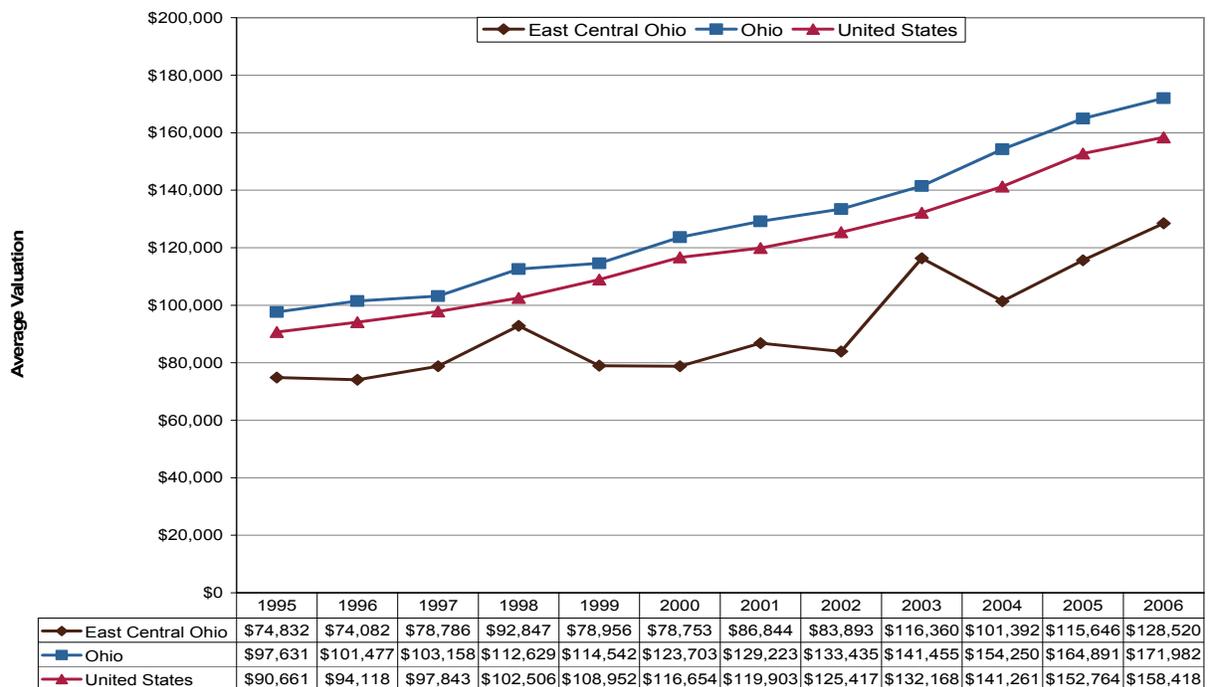


**Residential Construction Permit Trends.** As Figures 8 and 9 below indicate, construction trends have varied widely in the last few years. The jump in permits and decline in average valuation in 2004 was due to a large number of multi-unit permits issued that year. The decline to 480 permits granted in 2006 mirrored state and national trends. Average valuation was about \$158,000.

**Figure 8: Number of New Residential Building Permits, 1995-2006**



**Figure 9: Valuation of New Residential Building Permits, 1995-2006**



### III. Employment Projections to 2014

**Projections by Industry Sector.** Figure 10 below shows employment projections from the Job Outlook to 2014 for East Central Ohio arranged by industry sector. As of 2004, 26.4 percent of total employment was in goods-producing industries such as construction and manufacturing, significantly higher than the statewide average of only 19.9 percent. Another 67.3 percent is in service-providing industries like retail and health care. The remaining 6.3 percent consists of the self-employed, private household and unpaid family workers.

From 2004 to 2014, East Central Ohio is projected to add 10,500 jobs, primarily in service-providing industries. Real estate and rental and leasing will be the fastest-growing sector during this period, creating 300 net new jobs (16.7%). Education and health services—which includes hospitals, clinics and private schools—will also see exceptional growth, driven by an aging population and new emerging medical technologies. Other fast-growing sectors include professional and business services; construction; and finance and insurance. Manufacturing is expected to shed 4,100 jobs during this period (-10.2%).

**Figure 10: East Central Ohio Projections to 2014 by Industry Sector**

Industry Sector	2004 Annual Employment	2014 Projected Employment	Change in Employment 2004-2014	Percent Change 2004-2014
<b>Total Employment</b>	<b>237,300</b>	<b>247,800</b>	<b>10,500</b>	<b>4.4%</b>
<b>Goods-Producing</b>	<b>62,600</b>	<b>59,200</b>	<b>-3,400</b>	<b>-5.4%</b>
Natural Resources and Mining	13,000	12,100	-900	-6.9%
Construction	9,600	11,100	1,500	15.6%
Manufacturing	40,100	36,000	-4,100	-10.2%
<b>Service-Providing</b>	<b>159,700</b>	<b>173,700</b>	<b>14,000</b>	<b>8.8%</b>
Trade, Transportation and Utilities	44,700	47,500	2,800	6.3%
Retail Trade	30,400	32,200	1,800	5.9%
Information	2,700	2,900	200	7.4%
Financial Activities	7,100	7,900	800	11.3%
Finance and Insurance	5,300	5,900	600	11.3%
Real Estate and Rental and Leasing	1,700	2,000	300	17.6%
Professional and Business Services	12,000	14,000	2,000	16.7%
Education and Health Services	31,700	36,800	5,100	16.1%
Leisure and Hospitality	20,400	21,500	1,100	5.4%
Arts, Entertainment & Recreation	2,000	2,100	100	5.0%
Accommodation and Food Services	18,400	19,500	1,100	6.0%
Other Services	9,600	10,400	800	8.3%
Government	31,600	32,700	1,100	3.5%
Federal Government	1,900	1,900	0	0.0%
State Government	3,100	3,100	0	0.0%
Local Government	26,500	27,800	1,300	4.9%
<b>Self-Employed, Private Household and Unpaid Family Workers</b>	<b>15,000</b>	<b>14,900</b>	<b>-100</b>	<b>-0.7%</b>

**Projections by Occupational Group.** Figure 11 shows the region's employment projections arranged by major occupational group. In 2004, the largest occupational groups here were office and administrative support; production; and sales and related occupations.

From 2004 to 2014, healthcare occupations are projected to add about 3,750 jobs in net, or 17.8 percent. Again, this is related to expected strong demand for healthcare services. Other fast-growing occupational groups during this period will include computer and mathematical (21.7%); business and financial operations (12.4%); and personal care and service (11.5%).

On average, there will be about 6,700 job openings per year in this region from 2004 to 2014. The two groups with the largest number of average annual openings—sales and related and food preparation and serving related—tend to have high replacement needs. Also note that although production occupations are expected to lose about 2,200 workers during this period, there will be over 700 average annual openings. In general, three out of every four job openings are for replacement hires.

**Figure 11: East Central Ohio Projections to 2014 by Occupational Group**

Occupational Group	2004 Annual Empl.	2014 Proj. Empl.	Change in Employment		Avg. Ann. Openings
			2004-2014	Percent	
<b>Total, All Occupations</b>	<b>237,300</b>	<b>247,800</b>	<b>10,500</b>	<b>4.4%</b>	<b>6,731</b>
Management Occupations	17,020	16,660	-360	-2.1%	202
Business and Financial Operations Occupations	5,660	6,360	700	12.4%	174
Computer and Mathematical Occupations	1,380	1,680	300	21.7%	48
Architecture and Engineering Occupations	2,110	2,200	90	4.3%	62
Life, Physical, and Social Science Occupations	640	670	30	4.7%	19
Community and Social Services Occupations	3,430	3,690	260	7.6%	91
Legal Occupations	470	500	30	6.4%	9
Education, Training, and Library Occupations	13,710	14,980	1,270	9.3%	437
Arts, Design, Entertainment, Sports, & Media Occ.	2,320	2,480	160	6.9%	59
Healthcare Occupations, total	21,120	24,870	3,750	17.8%	745
Protective Service Occupations	3,850	3,960	110	2.9%	118
Food Preparation and Serving Related Occupations	20,450	21,480	1,030	5.0%	895
Building & Grounds Cleaning & Maintenance Occup.	8,150	8,820	670	8.2%	231
Personal Care and Service Occupations	6,080	6,780	700	11.5%	211
Sales and Related Occupations	25,180	26,630	1,450	5.8%	1,001
Office and Administrative Support Occupations	30,810	30,710	-100	-0.3%	758
Farming, Fishing, and Forestry Occupations	1,020	960	-60	-5.9%	26
Construction and Extraction Occupations	14,020	15,610	1,590	11.3%	424
Installation, Maintenance, and Repair Occupations	10,590	11,010	420	4.0%	290
Production Occupations	29,130	26,930	-2,200	-7.6%	706
Transportation and Material Moving Occupations	20,160	20,820	660	3.3%	497

**High Prospect Occupations.** A high prospect occupation is one that pays at least \$12 per hour on average and is expected to have at least ten average annual openings. There are about 80 such occupations identified for East Central Ohio. Figure 12 shows these high prospect occupations arranged by required education and training.

**Figure 12: High Prospect Occupations in East Central Ohio**

Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
<b>Occupations Requiring Short-Term On-the-Job Training (up to one month)</b>							
43-4111	Interviewers, except Eligibility and Loan	290	320	30	10.3%	11	\$12.03
43-5052	Postal Service Mail Carriers	740	700	-40	-5.4%	23	\$21.02
43-5061	Production, Planning, and Expediting Clerks	440	450	10	2.3%	12	\$15.58
43-5071	Shipping, Receiving, and Traffic Clerks	1,260	1,220	-40	-3.2%	26	\$12.86
51-9198	Helpers--Production Workers	1,750	1,720	-30	-1.7%	49	\$12.93
53-3033	Truck Drivers, Light or Delivery Services	2,570	2,850	280	10.9%	52	\$13.48
53-7051	Industrial Truck and Tractor Operators	1,520	1,500	-20	-1.3%	29	\$12.33
<b>Occupations Requiring Moderate-Term On-the-Job Training (one to twelve months combined experience/training)</b>							
33-3012	Correctional Officers and Jailers	550	540	-10	-1.8%	11	\$17.54
41-2022	Parts Salespersons	660	580	-80	-12.1%	19	\$12.64
41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	310	340	30	9.7%	11	\$30.26
41-4012	Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.	1,790	1,900	110	6.1%	58	\$28.82
43-3031	Bookkeeping, Accounting, and Auditing Clerks	2,810	2,790	-20	-0.7%	53	\$12.45
43-3051	Payroll and Timekeeping Clerks	310	330	20	6.5%	10	\$12.93
43-4051	Customer Service Representatives	1,630	1,870	240	14.7%	48	\$13.64
43-6011	Executive Secretaries & Administrative Assistants	1,370	1,430	60	4.4%	32	\$16.46
47-2051	Cement Masons and Concrete Finishers	370	430	60	16.2%	14	\$18.04
47-2061	Construction Laborers	1,320	1,350	30	2.3%	21	\$17.44
47-2073	Operating Engineers & Other Con. Equip. Op.	980	1,070	90	9.2%	34	\$16.09
47-2181	Roofers	370	430	60	16.2%	15	\$14.32
47-4051	Highway Maintenance Workers	1,610	1,820	210	13.0%	44	\$14.81
49-9042	Maintenance and Repair Workers, General	2,770	2,850	80	2.9%	61	\$14.44
51-4011	Computer-Controlled Machine Tool Oper., M/P	590	530	-60	-10.2%	10	\$13.24
51-4021	Extruding & Drawing Machine Setters, O/T, M/P	360	260	-100	-27.8%	12	\$13.91
51-4031	Cutting/Punching/Press Machine S/O/T, M/P	800	600	-200	-25.0%	19	\$13.74
51-4072	Molding/Coremaking/Casting Mach. S/O/T, M/P	670	530	-140	-20.9%	17	\$13.55
51-7041	Sawing Mach. Setters/Operators/Tenders, Wood	600	500	-100	-16.7%	17	\$13.35
51-9023	Mixing/Blending Mach. Setter/Operator/Tenders	420	400	-20	-4.8%	11	\$13.97
51-9041	Extrud/Form/Pressing/Compacting Mach. S/O/T	1,040	890	-150	-14.4%	27	\$15.45
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	1,170	1,010	-160	-13.7%	27	\$14.89
53-3032	Truck Drivers, Heavy and Tractor-Trailer	4,100	4,440	340	8.3%	101	\$16.62
53-7032	Excavating & Loading Machine & Dragline Oper.	270	290	20	7.4%	10	\$15.96
<b>Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training)</b>							
27-2022	Coaches and Scouts <sup>†</sup>	480	530	50	10.4%	14	\$31,922
33-2011	Fire Fighters	710	770	60	8.5%	27	\$15.36
33-3051	Police and Sheriff's Patrol Officers	1,160	1,210	50	4.3%	35	\$16.83
47-2031	Carpenters	2,750	3,100	350	12.7%	80	\$14.05
47-2111	Electricians	1,220	1,320	100	8.2%	34	\$18.55
47-2152	Plumbers, Pipefitters and Steamfitters	700	800	100	14.3%	26	\$20.83
47-2211	Sheet Metal Workers	320	350	30	9.4%	11	\$21.68
49-3021	Automotive Body and Related Repairers	390	430	40	10.3%	12	\$14.55
49-9021	Heating, AC, & Refrigeration Mechanics/Installers	350	420	70	20.0%	12	\$16.89

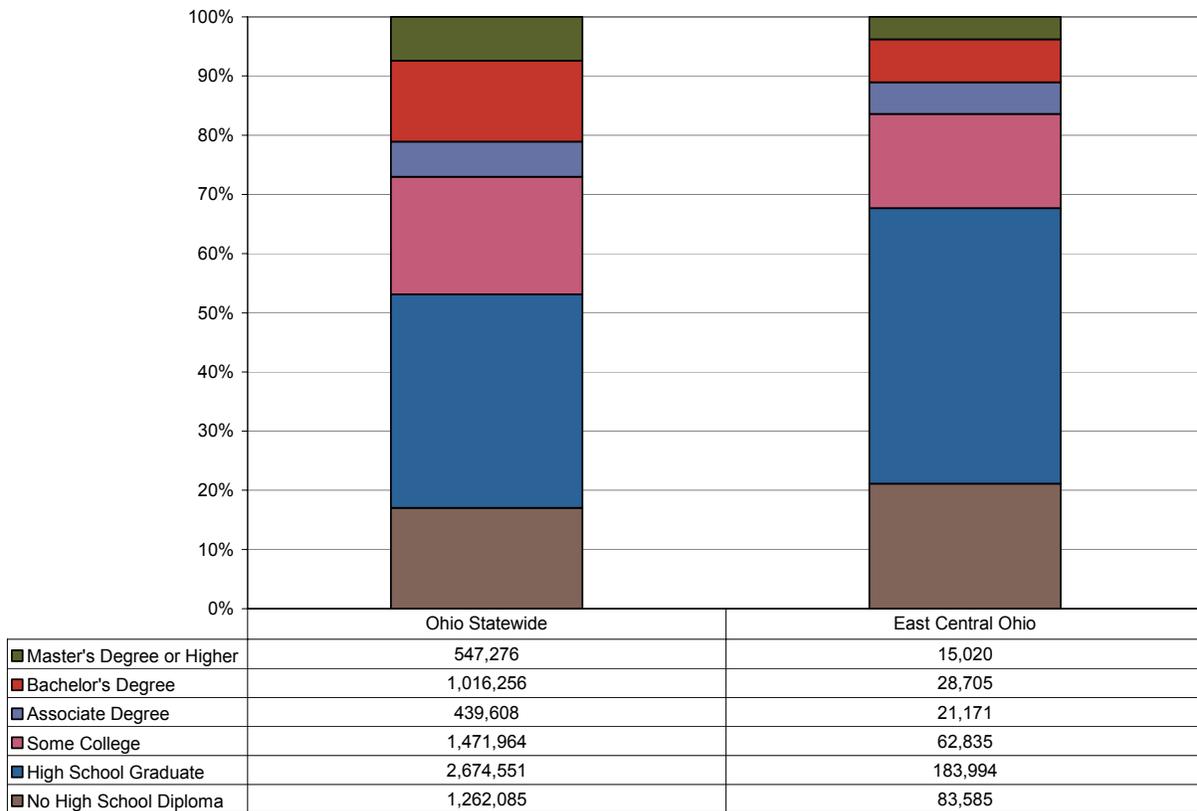
Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
<b>Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training) [con't]</b>							
49-9041	Industrial Machinery Mechanics	530	530	0	0.0%	11	\$17.19
51-4041	Machinists	980	950	-30	-3.1%	23	\$14.86
51-4121	Welders, Cutters, Solderers, and Brazers	920	930	10	1.1%	27	\$14.86
51-8031	Water/Liquid Waste Treatment Plant/System Op.	300	320	20	6.7%	12	\$16.67
<b>Occupations Requiring Work Experience in a Related Occupation</b>							
11-9051	Food Service Managers	670	690	20	3.0%	13	\$20.29
13-1051	Cost Estimators	390	450	60	15.4%	15	\$24.45
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	2,890	2,920	30	1.0%	55	\$17.31
41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	550	540	-10	-1.8%	10	\$29.94
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	1,400	1,400	0	0.0%	30	\$17.84
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	910	1,020	110	12.1%	27	\$27.20
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	820	860	40	4.9%	25	\$23.54
51-1011	FL Sup/Mgrs of Production/Operating Workers	2,240	2,170	-70	-3.1%	47	\$22.01
53-1031	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op	440	510	70	15.9%	17	\$25.48
<b>Occupations Requiring Postsecondary Vocational Training</b>							
29-2061	Licensed Practical & Licensed Vocat. Nurses	1,990	2,110	120	6.0%	55	\$16.04
49-3023	Automotive Service Technicians and Mechanics	1,470	1,630	160	10.9%	55	\$16.66
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	650	730	80	12.3%	25	\$15.30
<b>Occupations Requiring an Associate Degree</b>							
29-1111	Registered Nurses <sup>†</sup>	4,500	5,360	860	19.1%	180	\$23.49
29-1126	Respiratory Therapists	250	290	40	16.0%	12	\$20.68
29-2034	Radiologic Technologists and Technicians	430	500	70	16.3%	15	\$20.37
31-2021	Physical Therapist Assistants	210	270	60	28.6%	10	\$19.72
<b>Occupations Requiring a Bachelor's Degree</b>							
13-2011	Accountants and Auditors	1,230	1,390	160	13.0%	39	\$24.48
15-1031	Computer Software Engineers, Applications	300	440	140	46.7%	17	\$35.22
17-2112	Industrial Engineers	340	370	30	8.8%	11	\$29.85
21-1021	Child, Family and School Social Workers	350	390	40	11.4%	10	\$17.52
21-1022	Medical and Public Health Social Workers	390	440	50	12.8%	12	\$19.80
25-2021	Elementary School Teachers, ex.Special Ed. <sup>†</sup>	2,840	3,080	240	8.5%	87	\$43,290
25-2022	Middle School Teachers, ex. Special & Voc. Ed. <sup>†</sup>	1,160	1,200	40	3.4%	30	\$43,916
25-2031	Secondary Sch. Teachers, ex. Spec. & Voc. Ed. <sup>†</sup>	2,320	2,460	140	6.0%	79	\$43,973
25-2041	Special Ed. Teachers, Pre./Kinder./Elem. Sch. <sup>†</sup>	460	550	90	19.6%	20	\$42,171
25-2042	Special Education Teachers, Middle School <sup>†</sup>	250	290	40	16.0%	10	\$44,918
25-2043	Special Education Teachers, Secondary School <sup>†</sup>	510	560	50	9.8%	17	\$45,397
41-3021	Insurance Sales Agents	890	940	50	5.6%	26	\$25.70
<b>Occupations Requiring Work Experience plus a Bachelor's Degree</b>							
11-1011	Chief Executives	580	610	30	5.2%	14	\$57.77
11-1021	General and Operations Managers	2,040	2,210	170	8.3%	55	\$39.78
11-9111	Medical and Health Services Managers	350	390	40	11.4%	11	\$32.39
25-2032	Vocational Education Teachers, Secondary Sch. <sup>†</sup>	280	300	20	7.1%	10	\$48,085

Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
<b>Occupations Requiring a First Professional Degree</b>							
29-1051	Pharmacists	380	450	70	18.4%	14	\$43.75
<p>*May 2005 wages aged to April 2006. Wages in <i>italics</i> are statewide figures because EDR wages were unavailable.</p> <p>**Abbreviations</p> <p>FL Sup/Mgrs = First-Line Supervisors/Managers</p> <p>M/P = Metal and Plastic</p> <p>O/T = Operators and Tenders</p> <p>S/O/T = Setters, Operators and Tenders</p> <p>†Annual earnings, typically for a 9½ month school year</p> <p>‡Training requirements may be met through a two-year associate's degree; a three-year diploma; or a four-year bachelor's degree.</p> <p>Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, 2007a.</p>							

## IV. Education & Training

**Educational Attainment.** Figure 13 below shows levels of educational attainment among adults 25 or older in the region and statewide. This EDR has a lower level of overall educational attainment than the rest of Ohio. There is a larger proportion of adults here without a high school diploma (21.1%). Only 16.4 percent of adults have an associate's degree or higher, compared with 27.0 percent statewide.

**Figure 13: Educational Attainment, 2000**



**Institutions and Degree Completions.** However, educational attainment appears to be growing at a faster rate than statewide. There are about 17 postsecondary training providers in East Central Ohio offering nearly 600 different programs: 4 public adult schools with vocational programs; 8 two-year technical and community colleges; and 5 four-year colleges and universities. Nearly 4,000 postsecondary awards were granted in 2006—6.7 percent higher than the prior year. For comparison, Ohio grew 3.7 percent. The fastest growth was in postsecondary award programs less than 2 years long—important in many production trades. Details on educational institutions and program completers are available in Appendices E and F, respectively.

**Figure 14: East Central Ohio Degree Completions**

Award Type	2005	2006	Percent Growth
Postsec. Awards; < 2 yrs.	1,197	1,314	9.8%
Associate's Degrees	1,333	1,415	6.2%
Bachelor's Degrees	819	882	7.7%
Master's Degrees	256	238	-7.0%
All Other Awards	59	61	3.4%
Totals	3,664	3,910	6.7%

**Skills-Based Projections.** The Bureau of Labor Market Information recently analyzed occupational projections to determine the workplace skills that will be in demand in 2014. There are 35 skills that have been identified as potentially related to a job by the Occupational Information Network (O\*NET) system. Skills are learned capabilities that allow workers to master and perform the specific activities of their jobs. On average, each occupation has about five skills associated with it. For additional details on how the skills-based projections analysis was conducted, please refer to the Technical Notes at the end of this report.

Figure 15 on the next page ranks all 35 skills by the projected need for training and gives several importance measures for both Central Ohio and the entire state. The first, supply rank, ranks the skills based on how many jobs today require each. Percent demand gives the proportion of average annual openings through 2014 that will require a skill, with higher percentages indicating stronger demand. The gap index is the difference between the available supply of a workplace skill and its projected demand, standardized to a range of 0 to 100. A higher gap index indicates stronger need for training. Finally, the replacement index gives the proportion of projected annual openings requiring a given skill that will arise to replace exiting workers (e.g. through dismissals, retirements, etc.) rather than to fill a new position. Demand for skills with higher replacement indices may be tempered with poor employment growth.

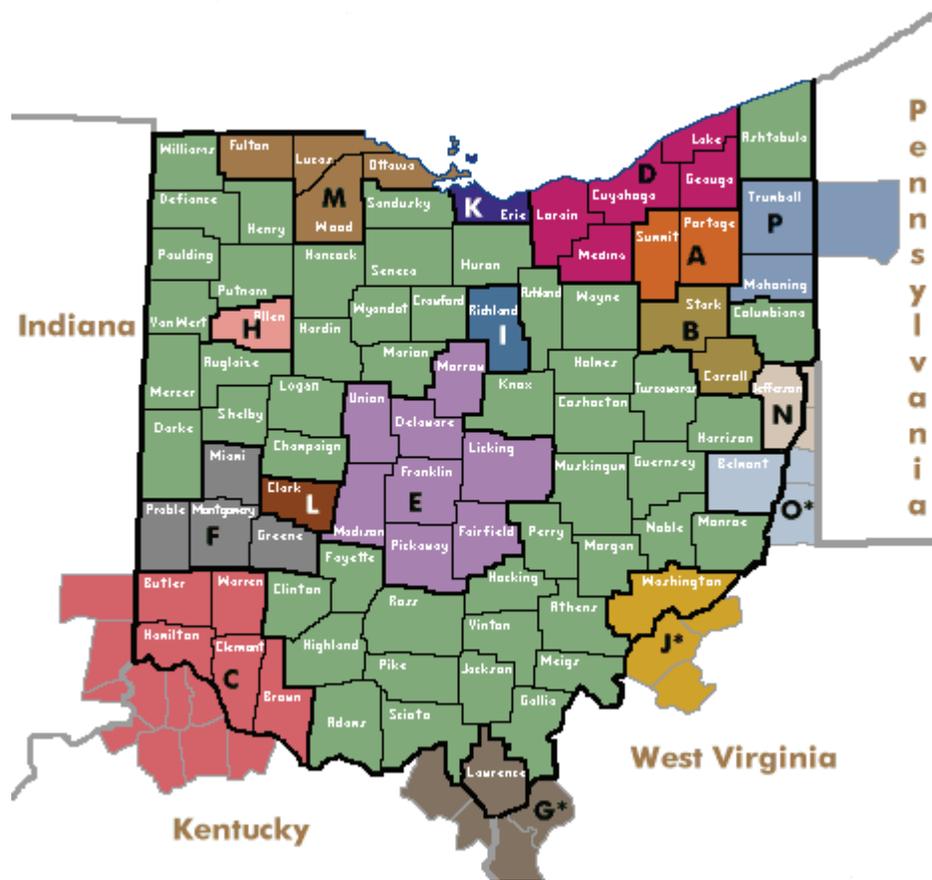
As is the case in most of Ohio, reading comprehension will be the most important workplace skill in the coming years. It will be required in nearly half (47.4%) of all projected openings through 2014. It also has the largest gap between available supply and projected future demand. Other workplace skills with high projected skills gap indices include speaking, critical thinking, active listening and coordination.

In comparing with Ohio's figures, one can see a few skills that will be in higher demand in this region than across the state. These include equipment maintenance; repairing; operation monitoring; operation and control; and equipment selection—all production-related skills. This will clearly continue to be an important trade in East Central Ohio in the future, despite net employment declines.

**Figure 15: Projected Skills Needs for 2014**

Skill	East Central Ohio				Ohio	
	Supply Rank	Percent Demand	Gap Index	Repl. Index	Percent Demand	Gap Index
Reading Comprehension	1	47.4%	100	70	48.3%	100
Speaking	4	36.9%	97	68	38.4%	91
Critical Thinking	3	41.0%	94	70	41.9%	94
Active Listening	2	45.2%	91	72	46.6%	97
Coordination	5	35.6%	89	68	36.8%	89
Active Learning	7	34.8%	86	70	37.4%	86
Monitoring	8	32.1%	83	69	34.3%	83
Writing	9	30.5%	80	69	33.6%	80
Instructing	6	34.9%	77	70	34.1%	77
Time Management	10	29.3%	74	69	31.6%	74
Social Perceptiveness	12	28.4%	71	68	28.6%	69
Learning Strategies	11	29.9%	69	69	31.3%	71
Service Orientation	13	24.0%	66	67	25.4%	66
Persuasion	14	21.3%	63	70	22.2%	60
Judgment and Decision Making	16	20.3%	60	69	23.6%	63
Mathematics	18	18.2%	57	65	18.9%	54
Complex Problem Identification	17	19.0%	54	70	21.3%	57
Negotiation	21	10.7%	51	72	12.0%	49
Management of Personnel Resources	20	10.2%	49	73	10.1%	46
Equipment Selection	15	17.3%	46	74	16.0%	51
Repairing	24	7.8%	43	72	5.9%	20
Installation	25	7.5%	40	74	7.6%	40
Management of Financial Resources	27	5.6%	37	71	6.6%	37
Equipment Maintenance	19	12.6%	34	79	9.3%	34
Troubleshooting	22	9.8%	31	77	11.0%	43
Systems Evaluation	32	2.9%	29	61	4.3%	29
Operations Analysis	29	3.4%	26	66	5.2%	31
Science	31	2.9%	23	70	3.9%	23
Management of Material Resources	30	3.0%	20	72	3.5%	14
Systems Analysis	33	1.6%	17	51	3.2%	26
Technology Design	34	1.4%	14	55	2.9%	17
Programming	35	0.4%	11	37	1.0%	9
Operation and Control	26	6.7%	9	86	5.4%	6
Operation Monitoring	23	8.2%	6	87	6.8%	3
Quality Control	28	4.9%	3	84	6.0%	11

## Appendix B: Ohio's Metropolitan Statistical Areas



- A. **Akron MSA:** Portage and Summit Counties.
- B. **Canton-Massillon MSA:** Carroll and Stark Counties.
- C. **Cincinnati-Midletown MSA:** Brown, Butler, Clermont, Hamilton and Warren Counties in Ohio; Dearborn, Franklin and Ohio Counties in Indiana; and Boone, Bracken, Campbell, Gallatin, Grant, Kenton and Pendleton Counties in Kentucky.
- D. **Cleveland-Elyria-Mentor MSA:** Cuyahoga, Geauga, Lake, Lorain and Medina Counties.
- E. **Columbus MSA:** Delaware, Fairfield, Franklin, Licking, Madison, Morrow, Pickaway and Union Counties
- F. **Dayton MSA:** Greene, Miami, Montgomery and Preble Counties
- G. **Huntington-Ashland MSA\*:** Cabell and Wayne Counties in West Virginia; Boyd and Greenup Counties in Kentucky; and Lawrence County in Ohio.
- H. **Lima MSA:** Allen County.
- I. **Mansfield MSA:** Richland County.
- J. **Parkersburg-Marietta-Vienna MSA\*:** Pleasants, Wirt and Wood Counties in West Virginia and Washington County in Ohio.
- K. **Sandusky MSA:** Erie County.
- L. **Springfield MSA:** Clark County.
- M. **Toledo MSA:** Fulton, Lucas, Ottawa and Wood Counties.
- N. **Weirton-Steubenville MSA:** Jefferson County in Ohio and Brooke and Hancock Counties in West Virginia.
- O. **Wheeling MSA\*:** Marshall and Ohio Counties in West Virginia and Belmont County in Ohio.
- P. **Youngstown-Warren-Boardman MSA:** Mahoning and Trumbull Counties in Ohio and Mercer County in Pennsylvania.

\*Statistical Areas in other states that include Ohio counties.

Appendix C: Detailed County-to-County Commuting Patterns

<b>Belmont</b>			Percent of workers that work outside the county -			36.0%		
			Average commute time in minutes -			23.5		
Number of workers 16+ years of age living in Belmont County						Number of workers 16+ years of age working in Belmont County		
27,889						23,944		
Commute Out To		Number	Percent	Commute In From		Number	Percent	
Ohio Co. WV	4,603	16.5%	Ohio Co. WV	1,876	7.8%			
Jefferson Co. OH	1,129	4.0%	Jefferson Co. OH	1,236	5.2%			
Marshall Co. WV	1,064	3.8%	Marshall Co. WV	858	3.6%			
Monroe Co. OH	626	2.2%	Monroe Co. OH	596	2.5%			
Guernsey Co. OH	466	1.7%	Harrison Co. OH	361	1.5%			
Harrison Co. OH	280	1.0%	Guernsey Co. OH	318	1.3%			
Wetzel Co. WV	227	0.8%	Brooke Co. WV	155	0.6%			
Allegheny Co. PA	206	0.7%	Noble Co. OH	103	0.4%			
Franklin Co. OH	141	0.5%	Washington Co. PA	75	0.3%			
Washington Co. PA	138	0.5%	Muskingum Co. OH	38	0.2%			

<b>Carroll</b>			Percent of workers that work outside the county -			57.0%		
			Average commute time in minutes -			27.5		
Number of workers 16+ years of age living in Carroll County						Number of workers 16+ years of age working in Carroll County		
12,882						7,947		
Commute Out To		Number	Percent	Commute In From		Number	Percent	
Stark Co. OH	5,125	39.8%	Stark Co. OH	956	12.0%			
Tuscarawas Co. OH	840	6.5%	Columbiana Co. OH	453	5.7%			
Columbiana Co. OH	297	2.3%	Tuscarawas Co. OH	289	3.6%			
Summit Co. OH	271	2.1%	Jefferson Co. OH	265	3.3%			
Jefferson Co. OH	178	1.4%	Harrison Co. OH	188	2.4%			
Harrison Co. OH	160	1.2%	Holmes Co. OH	76	1.0%			
Cuyahoga Co. OH	73	0.6%	Mahoning Co. OH	44	0.6%			
Wayne Co. OH	73	0.6%	Mercer Co. PA	16	0.2%			
Mahoning Co. OH	47	0.4%	Clark Co. OH	13	0.2%			
Portage Co. OH	37	0.3%	Geauga Co. OH	12	0.2%			

<b>Columbiana</b>			Percent of workers that work outside the county -			39.5%		
			Average commute time in minutes -			22.7		
Number of workers 16+ years of age living in Columbiana County						Number of workers 16+ years of age working in Columbiana County		
49,461						37,705		
Commute Out To		Number	Percent	Commute In From		Number	Percent	
Mahoning Co. OH	7,371	14.9%	Mahoning Co. OH	3,684	9.8%			
Stark Co. OH	3,306	6.7%	Hancock Co. WV	831	2.2%			
Beaver Co. PA	1,889	3.8%	Stark Co. OH	640	1.7%			
Trumbull Co. OH	1,719	3.5%	Jefferson Co. OH	632	1.7%			
Hancock Co. WV	1,488	3.0%	Beaver Co. PA	443	1.2%			
Allegheny Co. PA	735	1.5%	Trumbull Co. OH	344	0.9%			
Jefferson Co. OH	517	1.0%	Carroll Co. OH	297	0.8%			
Summit Co. OH	464	0.9%	Portage Co. OH	182	0.5%			
Carroll Co. OH	453	0.9%	Lawrence Co. PA	152	0.4%			
Portage Co. OH	316	0.6%	Allegheny Co. PA	88	0.2%			

<b>Coshocton</b>			Percent of workers that work outside the county -	27.2%	
			Average commute time in minutes -	22.4	
Number of workers 16+ years of age living in Coshocton County			16,585	Number of workers 16+ years of age working in Coshocton County	13,993
Commute Out To	Number	Percent	Commute In From	Number	Percent
Muskingum Co. OH	1,393	8.4%	Tuscarawas Co. OH	709	5.1%
Tuscarawas Co. OH	780	4.7%	Muskingum Co. OH	464	3.3%
Holmes Co. OH	774	4.7%	Guernsey Co. OH	210	1.5%
Licking Co. OH	536	3.2%	Licking Co. OH	92	0.7%
Franklin Co. OH	271	1.6%	Knox Co. OH	71	0.5%
Wayne Co. OH	178	1.1%	Holmes Co. OH	68	0.5%
Knox Co. OH	100	0.6%	Franklin Co. OH	34	0.2%
Guernsey Co. OH	94	0.6%	Belmont Co. OH	31	0.2%
Stark Co. OH	89	0.5%	Washington Co. OH	25	0.2%
Ross Co. OH	34	0.2%	Harrison Co. OH	18	0.1%

<b>Guernsey</b>			Percent of workers that work outside the county -	26.4%	
			Average commute time in minutes -	23.7	
Number of workers 16+ years of age living in Guernsey County			16,644	Number of workers 16+ years of age working in Guernsey County	15,528
Commute Out To	Number	Percent	Commute In From	Number	Percent
Muskingum Co. OH	1,815	10.9%	Noble Co. OH	1,069	6.9%
Noble Co. OH	438	2.6%	Muskingum Co. OH	793	5.1%
Franklin Co. OH	396	2.4%	Belmont Co. OH	466	3.0%
Belmont Co. OH	318	1.9%	Tuscarawas Co. OH	153	1.0%
Tuscarawas Co. OH	249	1.5%	Coshocton Co. OH	94	0.6%
Coshocton Co. OH	210	1.3%	Monroe Co. OH	84	0.5%
Licking Co. OH	127	0.8%	Washington Co. OH	83	0.5%
Stark Co. OH	88	0.5%	Morgan Co. OH	80	0.5%
Summit Co. OH	81	0.5%	Perry Co. OH	56	0.4%
Cuyahoga Co. OH	52	0.3%	Franklin Co. OH	39	0.3%

<b>Harrison</b>			Percent of workers that work outside the county -	52.4%	
			Average commute time in minutes -	28.8	
Number of workers 16+ years of age living in Harrison County			6,585	Number of workers 16+ years of age working in Harrison County	4,416
Commute Out To	Number	Percent	Commute In From	Number	Percent
Tuscarawas Co. OH	1,410	21.4%	Jefferson Co. OH	383	8.7%
Jefferson Co. OH	593	9.0%	Belmont Co. OH	280	6.3%
Belmont Co. OH	361	5.5%	Tuscarawas Co. OH	182	4.1%
Stark Co. OH	292	4.4%	Carroll Co. OH	160	3.6%
Carroll Co. OH	188	2.9%	Guernsey Co. OH	52	1.2%
Ohio Co. WV	83	1.3%	Holmes Co. OH	41	0.9%
Brooke Co. WV	65	1.0%	Stark Co. OH	27	0.6%
Wayne Co. OH	62	0.9%	Brooke Co. WV	18	0.4%
Holmes Co. OH	34	0.5%	Allegheny Co. PA	13	0.3%
Allegheny Co. PA	33	0.5%	Hamilton Co. OH	12	0.3%

<b>Holmes</b>			Percent of workers that work outside the county -	26.1%			
			Average commute time in minutes -	21.6			
Number of workers 16+ years of age living in Holmes County			16,456	Number of workers 16+ years of age working in Holmes County	17,493		
Commute Out To			Number	Percent	Commute In From	Number	Percent
Wayne Co. OH	2,411	14.7%	Tuscarawas Co. OH	1,983	11.3%		
Tuscarawas Co. OH	538	3.3%	Wayne Co. OH	1,247	7.1%		
Ashland Co. OH	352	2.1%	Coshocton Co. OH	774	4.4%		
Stark Co. OH	200	1.2%	Stark Co. OH	480	2.7%		
Summit Co. OH	104	0.6%	Ashland Co. OH	437	2.5%		
Carroll Co. OH	76	0.5%	Knox Co. OH	106	0.6%		
Medina Co. OH	72	0.4%	Richland Co. OH	96	0.5%		
Knox Co. OH	70	0.4%	Summit Co. OH	39	0.2%		
Coshocton Co. OH	68	0.4%	Harrison Co. OH	34	0.2%		
Richland Co. OH	64	0.4%	Carroll Co. OH	27	0.2%		

<b>Jefferson</b>			Percent of workers that work outside the county -	31.3%			
			Average commute time in minutes -	22.2			
Number of workers 16+ years of age living in Jefferson County			28,793	Number of workers 16+ years of age working in Jefferson County	25,922		
Commute Out To			Number	Percent	Commute In From	Number	Percent
Brooke Co. WV	2,377	8.3%	Brooke Co. WV	1,296	5.0%		
Belmont Co. OH	1,236	4.3%	Belmont Co. OH	1,129	4.4%		
Allegheny Co. PA	1,094	3.8%	Hancock Co. WV	1,007	3.9%		
Hancock Co. WV	784	2.7%	Harrison Co. OH	593	2.3%		
Ohio Co. WV	706	2.5%	Columbiana Co. OH	517	2.0%		
Columbiana Co. OH	632	2.2%	Ohio Co. WV	436	1.7%		
Harrison Co. OH	383	1.3%	Carroll Co. OH	178	0.7%		
Carroll Co. OH	265	0.9%	Allegheny Co. PA	175	0.7%		
Stark Co. OH	195	0.7%	Washington Co. PA	171	0.7%		
Beaver Co. PA	154	0.5%	Marshall Co. WV	147	0.6%		

<b>Muskingum</b>			Percent of workers that work outside the county -	20.9%			
			Average commute time in minutes -	24.2			
Number of workers 16+ years of age living in Muskingum County			37,774	Number of workers 16+ years of age working in Muskingum County	37,875		
Commute Out To			Number	Percent	Commute In From	Number	Percent
Licking Co. OH	2,667	7.1%	Guernsey Co. OH	1,815	4.8%		
Franklin Co. OH	2,078	5.5%	Perry Co. OH	1,451	3.8%		
Guernsey Co. OH	793	2.1%	Coshocton Co. OH	1,393	3.7%		
Perry Co. OH	570	1.5%	Licking Co. OH	1,100	2.9%		
Coshocton Co. OH	464	1.2%	Morgan Co. OH	707	1.9%		
Fairfield Co. OH	211	0.6%	Franklin Co. OH	275	0.7%		
Morgan Co. OH	211	0.6%	Noble Co. OH	274	0.7%		
Delaware Co. OH	80	0.2%	Fairfield Co. OH	158	0.4%		
Noble Co. OH	76	0.2%	Tuscarawas Co. OH	124	0.3%		
Washington Co. OH	72	0.2%	Belmont Co. OH	92	0.2%		

<b>Tuscarawas</b>			Percent of workers that work outside the county -		26.8%
			Average commute time in minutes -		21.6
Number of workers 16+ years of age living in Tuscarawas County			42,093		
Commute Out To			Number	Percent	
Stark Co. OH	5,707	13.6%			
Holmes Co. OH	1,983	4.7%			
Coshocton Co. OH	709	1.7%			
Wayne Co. OH	688	1.6%			
Summit Co. OH	606	1.4%			
Carroll Co. OH	289	0.7%			
Harrison Co. OH	182	0.4%			
Guernsey Co. OH	153	0.4%			
Cuyahoga Co. OH	128	0.3%			
Muskingum Co. OH	124	0.3%			
			Number of workers 16+ years of age working in Tuscarawas County		37,247
			Commute In From	Number	Percent
			Stark Co. OH	1,679	4.5%
			Harrison Co. OH	1,410	3.8%
			Carroll Co. OH	840	2.3%
			Coshocton Co. OH	780	2.1%
			Holmes Co. OH	538	1.4%
			Guernsey Co. OH	249	0.7%
			Summit Co. OH	150	0.4%
			Wayne Co. OH	125	0.3%
			Jefferson Co. OH	89	0.2%
			Belmont Co. OH	73	0.2%

Source: U.S. Census Bureau, 2004.

## Appendix D: Major Employers by County

<b>Belmont</b>	
Barnesville Hospital Association	Health Care
Belmont Community Hospital	Health Care
Belmont County Government	Government
Belmont County Technical College	Education
Commercial Vehicle Group/Mayflower	Manufacturing
East Ohio Regional Hospital	Health Care
Kroger Co.	Retail
Ohio Valley Coal Co.	Mining
State of Ohio	Government
Wal-Mart Stores, Inc.	Retail
Wheeling-Pittsburgh Steel Corp.	Manufacturing
<b>Carroll</b>	
American Axle & Manufacturing Holding	Manufacturing
Ashi Tec Corp./Metaldyne Corp.	Manufacturing
Atwood Lake Resort	Recreation
Carroll Health Care Center, Inc.	Health Care
Carrollton Exempt Villiage Board of Education	Government
GBS Corporation	Manufacturing
Summitville Tiles, Inc.	Manufacturing
<b>Columbiana</b>	
Bain Capital/American Standard, Inc.	Manufacturing
Blackhawk Automotive Plastics, Inc.	Manufacturing
Columbiana County Government	Government
East Liverpool City Board of Education	Government
East Liverpool City Hospital	Health Care
Fresh Mark, Inc.	Manufacturing
Salem City Board of Education	Government
Salem Community Hospital	Health Care
Wal-Mart Stores, Inc.	Retail
<b>Coshocton</b>	
AK Steel Holding Corp.	Manufacturing
American Electric Power Co.	Utilities
Coshocton City Board of Education	Government
Coshocton County Government	Government
Coshocton County Memorial Hospital	Health Care
Kraft Foods, Inc.	Manufacturing
McWane Corp./Clow Water Systems	Manufacturing
Riverview Local Board of Education	Government
Smurfit-Stone Container Corp.	Manufacturing
<b>Guernsey</b>	
Cambridge City Board of Education	Government
Colgagte-Palmolive Co.	Manufacturing
Daimler AG/Detroit Diesel	Manufacturing
Federal-Mogul Corp.	Manufacturing
Guernsey County Government	Government
Plastech Engineered Products	Manufacturing
Southeastern Ohio Regional Medical Center	Health Care
State of Ohio	Government
Wal-Mart Stores, Inc.	Retail

<b>Harrison</b>	
CamOhio LLC	Mining
Carriage Inn of Cadiz	Health Care
Freeport Press, Inc.	Manufacturing
Gables Care Center	Health Care
Harrison Community Hospital	Health Care
Harrison County Government	Government
Harrison Hills City Board of Education	Government
McDonough Corp./L.J. Smith	Manufacturing
Saint-Gobain/Bayform	Manufacturing
<b>Holmes</b>	
Case Foods, Inc.	Manufacturing
Collins & Aikman Corp.	Manufacturing
East Holmes Local Board of Education	Government
Owens-Illinois, Inc.	Manufacturing
Pomerene Hospital	Health Care
Robin Industries	Manufacturing
Sperry & Rice Manufacturing Co., LLC	Manufacturing
Wayne-Dalton Corp.	Manufacturing
Weaver Leather Goods, Inc.	Manufacturing
West Holmes Local Board of Education	Government
<b>Jefferson</b>	
American Electric Power	Utilities
Buckeye Local Board of Education	Government
Edison Local Board of Education	Government
FirstEnergy Corp.	Utilities
Franciscan University of Steubenville	Education
Indian Creek Local Board of Education	Government
Steubenville City Board of Education	Government
Titanium Metals Corp./Timet	Manufacturing
Trinity Health System	Health Care
Wal-Mart Stores, Inc.	Retail
Wheeling-Pittsburgh Steel Corp.	Manufacturing
<b>Muskingum</b>	
5 B's, Inc.	Manufacturing
AK Steel Holding Corp.	Manufacturing
AutoZone, Inc.	Retail
Dollar General Corp.	Retail
Genesis Health Care System	Health Care
Lear Corp.	Manufacturing
Longaberger Co.	Manufacturing
Muskingum College	Education
Muskingum County Government	Government
Owens-Illinois/Owens-Brockway	Manufacturing
Wendy's International/New Bakery Co.	Manufacturing
Zanesville City Board of Education	Government

## Tuscarawas

Alamo Group/Gradall Industries	Manufacturing
Allied Machine & Engineering	Manufacturing
Dover City Board of Education	Government
New Philadelphia City Board of Education	Government
Sanwa Shutter Corp./Genie Co.	Manufacturing
Smurfit-Stone Container Corp.	Manufacturing
Union Hospital	Health Care
Wal-Mart Stores, Inc.	Retail
Zimmer Holdings, Inc.	Manufacturing

Source: Ohio Department of Development, 2007.  
Employers are listed in alphabetical order.

## Appendix E: Postsecondary Institutions

Name	Type	Address	Telephone	URL
Adult Center for Education	Pub. Adult Sch.	400 Richards Rd, Zanesville, OH 43701	(740) 455-3111	www.mid-east.k12.oh.us
Allegheny Wesleyan College	Four-Year	2161 Woodsdale Rd, Salem, OH 44460	(330) 337-6403	awc.edu
Belmont Technical College	Two-Year	120 Fox Shannon Pl, Saint Clairsville, OH 43950	(740) 695-9500	www.btc.edu
Buckeye Joint Vocational School	Pub. Adult Sch.	545 University Dr NE, New Philadelphia, OH 44663	(330) 308-5720	www.buckeyecareercenter.org
Century School of Cosmetology	Two-Year	434 Market St, Steubenville, OH 43952	(740) 282-3312	century-school.bizhosting.com/
Columbiana County Vocational School	Pub. Adult Sch.	9364 St Rt 45, Lisbon, OH 44432	(330) 424-9561	www.ccctc.k12.oh.us/
Franciscan University of Steubenville	Four-Year	1235 University Blvd, Steubenville, OH 43952	(740) 283-3771	www.franciscan.edu
Hannah E Mullins School of Practical Nursing	Pub. Adult Sch.	230 North Lincoln Avenue, Suite 3, Salem, OH 44460	(330) 332-8940	www.salem.k12.oh.us/mullins/mullins.html
Jefferson Community College	Two-Year	4000 Sunset Blvd, Steubenville, OH 43952	(740) 264-5591	www.jcc.edu
Kent State University-East Liverpool Campus	Two-Year	400 E 4th St, East Liverpool, OH 43920	(330) 382-7400	www.eliv.kent.edu
Kent State University-Salem Campus	Four-Year	2491 State Route 45 South, Salem, OH 44460	(330) 332-0361	www.salem.kent.edu
Kent State University-Tuscarawas Campus	Two-Year	330 University Dr N.E., New Philadelphia, OH 44663	(330) 339-3391	www.tusc.kent.edu
Muskingum College	Four-Year	163 Stormont Street, New Concord, OH 43762	(740) 826-8114	www.muskingum.edu
Ohio University-Eastern Campus	Four-Year	45425 National Rd W, Saint Clairsville, OH 43950	(740) 695-1720	www.eastern.ohiou.edu
Ohio University-Zanesville Campus	Four-Year	1425 Newark Rd, Zanesville, OH 43701	(740) 453-0762	www.zanesville.ohiou.edu/
Ohio Valley College of Technology	Two-Year	16808 Saint Clair Ave, East Liverpool, OH 43920	(330) 385-1070	
Trinity Health System School of Nursing	Two-Year	380 Summit Ave, Steubenville, OH 43952	(740) 283-7467	www.trinityson.com
Valley Beauty School	Two-Year	627 Main St, Zanesville, OH 43701	(740) 452-6821	
Zane State College	Two-Year	1555 Newark Rd, Zanesville, OH 43701	(740) 454-2501	www.zanestate.edu

Source: *Integrated Postsecondary Educational Data System (IPEDS)*, *College Opportunities Online (COOL)*  
<http://nces.ed.gov/collegenavigator>

Appendix F: Degree Completers by Program Class for Economic Development Region 10

Program Class	2005 Completions					2006 Completions				
	Assoc. Degrees	Bachelor's Degrees	Master's Degrees	Doctoral Degrees	First-Prof. Degrees	Assoc. Degrees	Bachelor's Degrees	Master's Degrees	Doctoral Degrees	First-Prof. Degrees
Agriculture, Agriculture Operations and Related Sciences	2					10				
Area, Ethnic, Cultural and Gender Studies							1			
Communication, Journalism and Related Programs		43					45			
Communications Technologies/Technicians and Support Services	7					10				
Computer and Information Sciences and Support Services	102	17				120	7			
Personal and Culinary Services	9					10				
Education	32	118	174			33	112	135		
Engineering	1	3				3	1			
Engineering Technologies/Technicians	117					137				
Foreign Languages, Literatures and Linguistics		18					15			
Family and Consumer Sciences/Human Sciences	55					44				
Legal Professions and Studies	9	6				8	2			
English Language and Literature/Letters		42					54			
Liberal Arts and Sciences, General Studies and Humanities	164	8				171	13			
Library Science						3				
Biological and Biomedical Sciences		46					45			
Mathematics and Statistics		18					16			
Multi/Interdisciplinary Studies		3					4			
Parks, Recreation, Leisure and Fitness Studies	9					20				
Philosophy and Religious Studies		36	3				46	4		
Theology and Religious Vocations	8	142	31			3	165	61		
Physical Sciences		9					10			
Psychology		38	21				36	19		
Security and Protective Services	87	1				81	4			
Public Administration and Social Service Professions	27	5				24	11			
Social Sciences		24					35			
Mechanic and Repair Technologies/Trades	6									
Precision Production	22					10				
Visual and Performing Arts		19					21			
Health Professions and Related Clinical Sciences	469	76	7			527	78	6		
Business, Management, Marketing and Related Support Services	207	112	20			201	111	13		
History		35					50			
<b>Total, All Programs</b>	<b>1,333</b>	<b>819</b>	<b>256</b>	<b>0</b>	<b>0</b>	<b>1,415</b>	<b>882</b>	<b>238</b>	<b>0</b>	<b>0</b>

Source: Integrated Postsecondary Educational Data System (IPEDS), College Opportunities Online (COOL)

<http://nces.ed.gov/collegenavigator>

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Office of Workforce Development  
Bureau of Labor Market Information

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