

# Ohio County Profiles



Department of  
Development

Prepared by the Office of Strategic Research

## Region 5

**2006 Population:** 1,572,165

**Land Area:** 1,726.7 square miles

### Regional Economic Development Office Location:

One West Fourth Street, Suite 425

Cincinnati, OH 45202

Phone: (513) 852-2826 Fax: (513) 852-2840



### Taxes

Taxable value of real property	\$34,110,358,170
Residential	\$25,735,086,800
Agriculture	\$441,272,750
Industrial	\$1,653,760,970
Commercial	\$6,280,237,650
Mineral	\$0
Ohio income tax liability	\$1,539,367,069
Average per return	\$2,159.05

### Land Use/Land Cover

	Percent
Urban (Residential/Commercial/Industrial/ Transportation and Urban Grasses)	17.67%
Cropland	36.98%
Pasture	7.29%
Forest	36.66%
Open Water	1.07%
Wetlands (Wooded/Herbaceous)	0.00%
Bare/Mines	0.32%

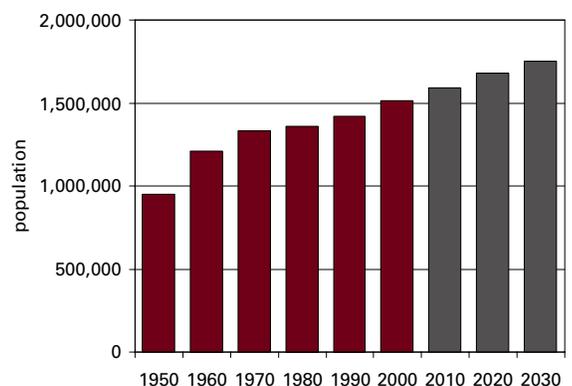
### Largest Areas

	Census 2000	Est. 2006
Cincinnati, Hamilton Co.	331,285	332,252
Hamilton, Butler Co.	60,690	62,130
Green twp, Hamilton Co.	55,660	56,655
Colerain twp, Hamilton Co.	60,144	56,508
West Chester twp UB, Butl Co	52,671	54,893
Middletown, Butler Co.	51,605	51,290
Union twp, Clermont Co.	42,332	43,635
Fairfield, Butler Co.	42,097	42,248
Anderson twp, Hamilton Co.	43,857	40,986
Miami twp, Clermont Co.	36,632	39,619

UB: Unincorporated Balance

### Total Population

Census		Estimated			
1800	15,692	1900	523,543	2001	1,529,686
1810	46,298	1910	585,051	2002	1,537,748
1820	87,167	1920	634,710	2003	1,546,397
1830	121,393	1930	760,574	2004	1,555,853
1840	154,565	1940	806,239	2005	1,565,575
1850	243,648	1950	951,842	2006	1,572,165
1860	312,186	1960	1,209,438		
1870	361,239	1970	1,330,875	Projected	
1880	421,058	1980	1,359,770	2010	1,593,080
1890	482,191	1990	1,421,803	2020	1,676,990
		2000	1,514,470	2030	1,753,660



## Population by Race

	Number	Percent
Total Population	1,514,470	100.0%
White	1,241,542	82.0%
African-American	221,504	14.6%
Native American	3,425	0.2%
Asian	20,974	1.4%
Pacific Islander	380	0.0%
Other	7,830	0.5%
Two or More Races	18,815	1.2%
Hispanic (may be of any race)	16,308	1.1%
<b>Total Minority</b>	<b>281,252</b>	<b>18.6%</b>

## Educational Attainment

	Number	Percent
Persons 25 years and over	970,080	100.0%
No high school diploma	163,563	16.9%
High school graduate	293,721	30.3%
Some college, no degree	190,576	19.6%
Associate degree	61,491	6.3%
Bachelor's degree	168,761	17.4%
Master's degree or higher	91,968	9.5%

## Family Type by Employment Status

	Number	Percent
Total Families	394,685	100.0%
Married couple, husband and wife in labor force	169,628	43.0%
Married couple, husband in labor force, wife not	67,398	17.1%
Married couple, wife in labor force, husband not	18,042	4.6%
Married couple, husband and wife not in labor force	47,793	12.1%
Male householder, in labor force	15,531	3.9%
Male householder, not in labor force	4,772	1.2%
Female householder, in labor force	48,330	12.2%
Female householder, not in labor force	23,191	5.9%

## Household Income in 1999

	Number	Percent
Total Households	591,957	100.0%
Less than \$10,000	51,489	8.7%
\$10,000 to \$19,999	66,931	11.3%
\$20,000 to \$29,999	73,060	12.3%
\$30,000 to \$39,999	71,380	12.1%
\$40,000 to \$49,999	61,778	10.4%
\$50,000 to \$59,999	54,523	9.2%
\$60,000 to \$74,999	66,263	11.2%
\$75,000 to \$99,999	66,874	11.3%
\$100,000 to \$149,999	50,526	8.5%
\$150,000 to \$199,999	13,967	2.4%
\$200,000 or more	15,166	2.6%
<b>Median household income</b>	<b>\$45,066</b>	

## Population by Age

	Number	Percent
Total Population	1,514,470	100.0%
Under 6 years	126,743	8.4%
6 to 17 years	271,143	17.9%
18 to 24 years	146,504	9.7%
25 to 44 years	461,293	30.5%
45 to 64 years	327,555	21.6%
65 years and more	181,232	12.0%
<b>Median Age</b>	<b>35.1</b>	

## Family Type by Presence of Own Children Under 18

	Number	Percent
Total Families	394,685	100.0%
Married-couple families with own children	143,161	36.3%
Male householder, no wife present, with own children	11,038	2.8%
Female householder, no husband present, with own children	45,339	11.5%
Families with no own children	195,147	49.4%

## Poverty Status in 1999 of Families By Family Type by Presence Of Related Children

	Number	Percent
Total Families	394,685	100.0%
Family income above poverty level	367,085	93.0%
Family income below poverty level	27,600	7.0%
Married couple, with related children	4,413	16.0%
Male householder, no wife present, with related children	1,690	6.1%
Female householder, no husband present, with related children	16,615	60.2%
Families with no related children	4,882	17.7%

## Ratio of Income in 1999 To Poverty Level

	Number	Percent
Population for whom poverty status is determined	1,476,042	100.0%
Below 50% of poverty level	67,851	4.6%
50% to 99% of poverty level	76,674	5.2%
100% to 149% of poverty level	92,365	6.3%
150% to 199% of poverty level	101,201	6.9%
200% of poverty level or more	1,137,951	77.1%

## Residence in 1995

	Number	Percent
Population 5 years and over	1,409,207	100.0%
Same house in 1995	756,214	53.7%
Different house, same county	392,918	27.9%
Different county, same state	137,964	9.8%
Different state	103,646	7.4%
Puerto Rico or U.S. islands	269	0.0%
Foreign country	18,196	1.3%

## Travel Time To Work

	Number	Percent
Workers 16 years and over	723,699	100.0%
Less than 15 minutes	181,216	25.0%
15 to 29 minutes	295,074	40.8%
30 to 44 minutes	155,214	21.4%
45 to 59 minutes	44,406	6.1%
60 minutes or more	27,430	3.8%
Worked at home	20,359	2.8%

**Mean travel time** 23.8 minutes

## Housing Units

	Number	Percent
Total housing units	631,104	100.0%
Occupied housing units	591,851	93.8%
Owner occupied	388,960	61.6%
Renter occupied	202,891	32.1%
Vacant housing units	39,253	6.2%

## Year Structure Built

	Number	Percent
Total housing units	631,104	100.0%
Built 1995 to March 2000	51,088	8.1%
Built 1990 to 1994	42,880	6.8%
Built 1980 to 1989	70,286	11.1%
Built 1970 to 1979	97,652	15.5%
Built 1960 to 1969	92,134	14.6%
Built 1950 to 1959	99,045	15.7%
Built 1940 to 1949	53,954	8.5%
Built 1939 or earlier	124,065	19.7%

**Median year built** 1965

## Value for Specified Owner-Occupied Housing Units

	Number	Percent
Specified owner-occupied housing units	341,735	100.0%
Less than \$20,000	880	0.3%
\$20,000 to \$39,999	4,635	1.4%
\$40,000 to \$59,999	14,856	4.3%
\$60,000 to \$79,999	40,012	11.7%
\$80,000 to \$99,999	66,618	19.5%
\$100,000 to \$124,999	58,342	17.1%
\$125,000 to \$149,999	45,423	13.3%
\$150,000 to \$199,999	53,588	15.7%
\$200,000 to \$249,999	23,591	6.9%
\$250,000 to \$499,999	28,367	8.3%
\$500,000 to \$999,999	4,357	1.3%
\$1,000,000 or more	1,066	0.3%

**Median value** \$107,519

## House Heating Fuel

	Number	Percent
Occupied housing units	591,851	100.0%
Utility gas	365,337	61.7%
Bottled, tank or LP gas	19,958	3.4%
Electricity	161,235	27.2%
Fuel oil, kerosene, etc	35,353	6.0%
Coal, coke or wood	2,345	0.4%
Solar energy or other fuel	4,755	0.8%
No fuel used	2,868	0.5%

## Gross Rent

	Number	Percent
Specified renter-occupied housing units	201,505	100.0%
Less than \$100	3,942	2.0%
\$100 to \$199	9,972	4.9%
\$200 to \$299	11,162	5.5%
\$300 to \$399	29,016	14.4%
\$400 to \$499	38,335	19.0%
\$500 to \$599	33,689	16.7%
\$600 to \$699	24,884	12.3%
\$700 to \$799	16,577	8.2%
\$800 to \$899	10,779	5.3%
\$900 to \$999	6,106	3.0%
\$1,000 to \$1,499	7,707	3.8%
\$1,500 or more	3,105	1.5%
No cash rent	6,231	3.1%

**Median gross rent** \$515

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	256,767	100.0%
Less than \$400	3,852	1.5%
\$400 to \$599	16,258	6.3%
\$600 to \$799	38,175	14.9%
\$800 to \$999	49,958	19.5%
\$1,000 to \$1,249	53,459	20.8%
\$1,250 to \$1,499	37,407	14.6%
\$1,500 to \$1,999	34,121	13.3%
\$2,000 to \$2,999	18,068	7.0%
\$3,000 or more	5,469	2.1%

**Median monthly owners cost** \$1,094

Median monthly owners cost as a percentage of household income

## Vital Statistics

	Number	Rate
Births / rate per 1,000 women aged 15-44	21,844	66.6
Teen births / rate per 1,000 females 15-17	728	21.9
Deaths / rate per 100,000 population	13,478	872.8
Marriages / rate per 1,000 population	9,364	6.1
Divorces / rate per 1,000 population	5,045	3.3

## Migration

## Agriculture

Land in farms (acres)	401,000
Number of farms	3,390
Average size (acres)	118
Total cash receipts	\$113,589,000
Per farm	\$33,311

## Education

Public schools	422
Students (Average Daily Membership)	235,737
Expenditures per student	\$9,547
Student-teacher ratio	
Graduation rate	
Teachers (Full Time Equivalent)	13,702.4
Non-public schools	153
Students	44,866
4-year public universities	2
Branches	5
2-year public colleges	1
Private universities and colleges	7
Public libraries (Main / Branches)	9 / 57

## Transportation

Registered motor vehicles	1,574,451
Passenger cars	1,169,151
Noncommercial trucks	180,060
Total license revenue	\$38,984,787.65
Interstate highway miles	155.59
Turnpike miles	0.00
U.S. highway miles	251.95
State highway miles	610.23
Commercial airports	9

## Voting

Number of precincts	1,543
Number of registered voters	1,059,515
Voted in 2006 election	553,843
Percent turnout	52.3%

## Health Care

Physicians (MDs & DOs)	4,704
Registered hospitals	20
Number of beds	5,659
Licensed nursing homes	121
Number of beds	12,630
Licensed residential care	66
Number of beds	6,197
Adults with employer-based insurance	65.5%
Children with employer-based insurance	65.0%

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

Facilities	32
Acreage	5,065.79

## Communications

Television stations	8
Radio stations	35
Daily newspapers	5
Circulation	317,658

## Crime

Total crimes reported in Uniform Crime Report	68,133
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## Finance

FDIC insured financial institutions (HQs)	38
Assets	\$281,736,099,000
Branch offices	573
Institutions represented	56

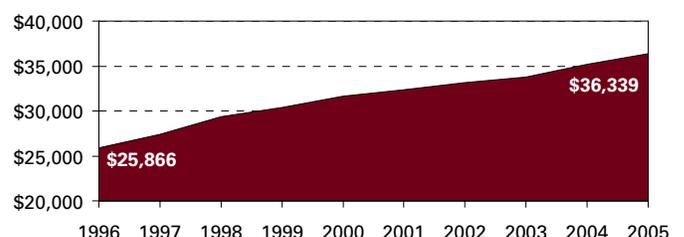
## Transfer Payments

Total transfer payments	\$7,815,526,000
Payments to individuals	\$7,399,154,000
Retirement and disability	\$3,111,267,000
Medical payments	\$3,244,933,000
Income maintenance (Supplemental SSI, family assistance, food stamps, etc)	\$718,530,000
Unemployment benefits	\$136,295,000
Veterans benefits	\$125,965,000
Federal education and training assistance	\$59,264,000
Other payments to individuals	\$2,900,000
Total personal income	\$56,891,801,000
Dependency ratio	13.7%

## Federal Expenditures

Direct expenditures or obligations	\$9,946,153,971
Retirement and disability	\$3,203,190,959
Other direct payments	\$1,742,570,573
Grant awards	\$2,011,068,968
Highway planning and construction	\$119,951,922
Temporary assistance to needy families	\$100,858,932
Medical assistance program	\$1,038,450,296
Procurement contract awards	\$2,244,972,057
Dept. of Defense	\$1,672,436,745
Salary and wages	\$744,351,414
Dept. of Defense	\$52,660,000
Other federal assistance	\$1,745,079,140
Direct loans	\$130,216,476
Guaranteed loans	\$1,039,570,740
Insurance	\$575,291,924

## Per Capita Personal Income



## Civilian Labor Force

	2002	2003	2004	2005	2006
Civilian labor force	791,400	800,300	807,600	812,800	824,400
Employed	749,500	757,300	763,400	769,600	781,800
Unemployed	41,900	43,000	44,200	43,100	42,500
Unemployment rate	5.3	5.4	5.5	5.3	5.2

## 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	781,674	786,835	\$31,383,086	\$32,571,904
Private Sector	698,988	705,475	\$28,096,551	\$29,236,543
Agriculture, forestry, fishing and hunting	407	353	\$8,589	\$7,121
Mining	369	419	\$18,057	\$21,326
Utilities	2,483	2,434	\$158,972	\$164,322
Construction	41,077	40,774	\$1,661,643	\$1,733,622
Manufacturing	101,815	99,588	\$5,531,483	\$5,425,834
Wholesale trade	42,819	44,109	\$2,409,474	\$2,540,879
Retail trade	87,319	85,857	\$2,049,949	\$2,030,606
Transportation and warehousing	19,646	20,420	\$698,911	\$745,202
Information	13,749	13,420	\$788,588	\$795,018
Finance and insurance	39,575	39,961	\$2,242,799	\$2,398,584
Real estate and rental and leasing	11,496	11,258	\$405,213	\$408,968
Professional and technical services	42,919	44,726	\$2,397,021	\$2,529,069
Management of companies and enterprises	27,978	28,776	\$2,596,412	\$2,897,281
Administrative and waste services	54,733	56,747	\$1,362,927	\$1,498,119
Educational services	12,015	12,559	\$308,009	\$329,409
Health care and social assistance	97,419	99,900	\$3,640,985	\$3,847,258
Arts, entertainment, and recreation	13,277	13,041	\$368,524	\$382,545
Accommodation and food services	63,687	65,111	\$795,666	\$821,874
Other services, except public administration	26,155	25,965	\$652,274	\$658,333
State and Local Government	82,687	81,361	\$3,286,536	\$3,335,360
State government	1,910	1,940	\$78,558	\$82,288
Local government	13,524	13,984	\$475,775	\$495,386
Federal Government	11,064	10,920	\$638,282	\$649,398

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## Business Numbers

	2002	2003	2004	2005	2006
Business starts	4,048	4,529	3,767	3,677	4,574
Active businesses	31,029	31,614	32,081	32,233	32,592

## Residential

### Construction

	2002	2003	2004	2005	2006
Total units	8,947	9,083	8,617	8,889	6,305
Total valuation (000)	\$1,134,289	\$1,267,667	\$1,316,029	\$1,501,078	\$1,171,998
Total single-unit bldgs	7,279	7,322	7,051	7,246	4,797
Average cost per unit	\$142,922	\$157,669	\$175,368	\$193,624	\$218,085
Total multi-unit bldg units	1,668	1,761	1,566	1,643	1,508
Average cost per unit	\$56,329	\$64,292	\$50,771	\$59,697	\$83,450

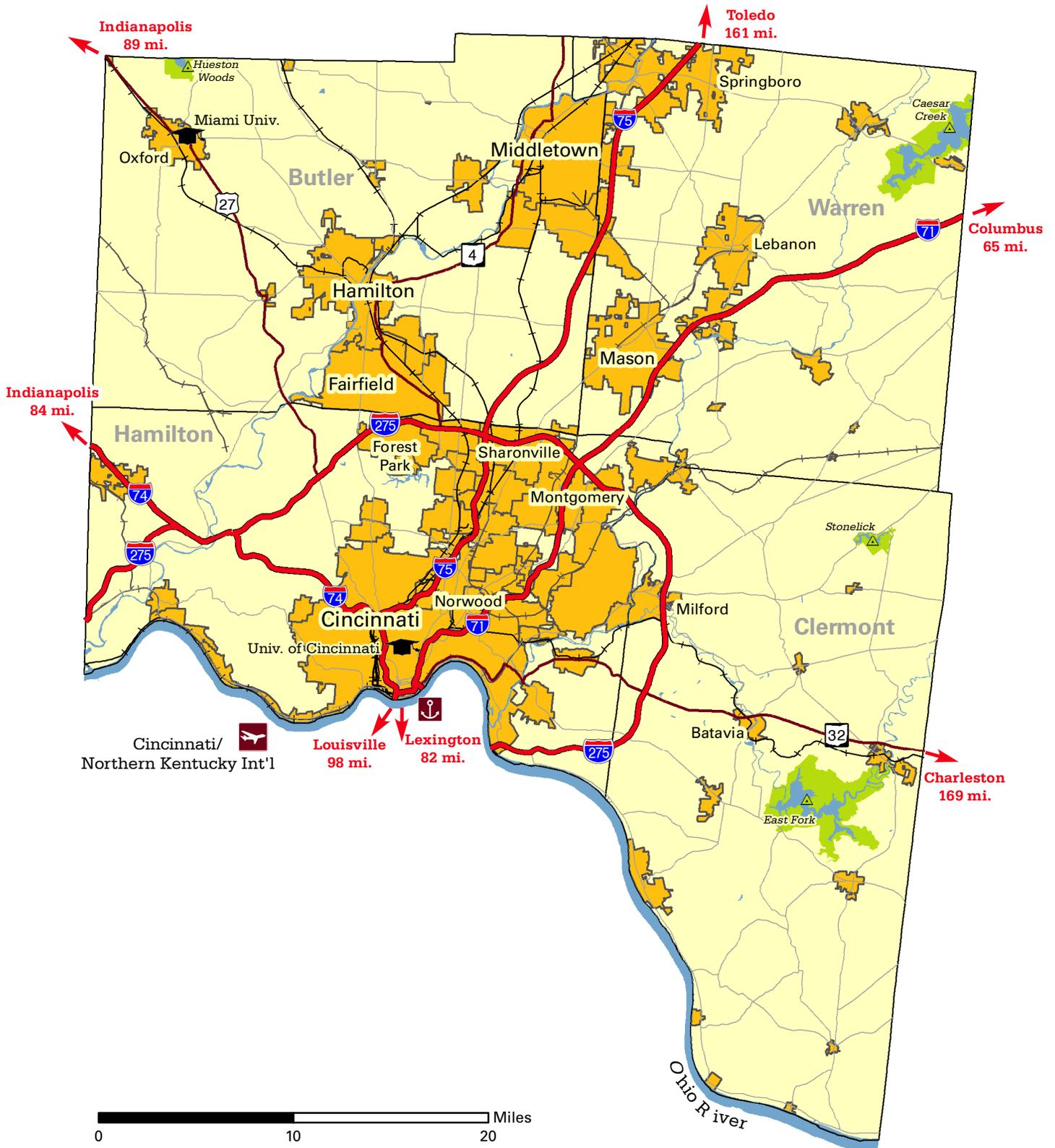
## Major Employers

AK Steel Holding Corp	Mfg
American Financial Group Inc	Ins
Cedar Fair/Kings Island	Serv
Convergys Corp	Serv
Fifth Third Bancorp	Fin
Ford Motor Co	Mfg
General Electric Co	Mfg
International Paper Co	R&D
Kroger Co	Trade
Macy's Inc	Trade
Miami University	Govt
Milacron Inc	Mfg
Procter & Gamble Co	Mfg
Siemens AG/UGS Corp	Serv
University of Cincinnati	Govt

# Region 5 Southwest Ohio



Department of  
Development



One W. Fourth St., Suite 425  
Cincinnati, OH 45202  
Phone: (513) 852-2826  
Fax: (513) 852-2840

Population (2006): 1,572,165  
Area: 1,726.7 sq. mi.

## 2007 Ohio Private Investment List

Region	County	Company	City	NAICS	Product	Type	Jobs	Investment	Square Feet	New	Exp
5	Butler	Amylin Pharmaceuticals	West Chester Twp	325412	Pharmaceuticals	MF	500	\$400,000,000			Exp
5	Butler	Armor Holdings	West Chester Twp	336111	Vehicle armor	MF	150	\$37,000,000	465,000	New	
5	Butler	Duke Realty	West Chester Twp	23311	Spec of - Centre Point VI	SO		\$8,400,000	135,000	New	
5	Butler	Neturen America	Hamilton	332612	Spring wire	MF/F	26	\$18,000,000	70,000	New	
5	Butler	PJAX Freight System	West Chester Twp	48423	Trucking	DW		\$1,000,000	20,000		Exp
5	Butler	Schumacher Dugan	West Chester Twp	23311	Spec of - Towne Center	MX/SO		\$5,000,000	74,000	New	
5	Butler	AK Steel	West Chester Twp	331111	Steel	HQ			136,000	New	
5	Butler	Iwata Bolt USA	Fairfield	332722	Bolts, fasteners	MF/HQ/F	58	\$10,500,000	115,000	New	
5	Butler	Miller Brewing Co	Trenton	31212	Beer	MF		\$20,000,000	30,000		Exp
5	Butler	Opus North Corp	West Chester Twp	23311	Spec dist	SW		\$9,000,000	282,000	New	
5	Butler	Sensus LLC	Hamilton	311999	Flavor extracts	MF	3	\$4,000,000	6,000		Exp
5	Butler	Koch Foods	Fairfield	311615	Meat processing	MF		\$10,000,000			Exp
5	Butler	Residence Inn	West Chester Twp	72111	Hotel	HO		\$10,000,000	84,000	New	
5	Butler	Brown-Campbell	Fairfield	321918	Flooring	MF/DW		\$9,200,000	120,000	New	
5	Butler	Miami University	West Chester Twp	61131	Branch campus	Education		\$7,000,000	23,000	New	
5	Butler	Verizon Wireless	West Chester Twp	51721	Wireless telecommunication	OF		\$20,000,000	74,000	New	
5	Butler	Industrial Developments International	West Chester Twp	23311	Spec dist	SW		\$5,000,000	3,450,600	New	
5	Butler	PAC National / Compartir	Middletown	322232	Envelopes	MF	50	\$13,400,000			Exp
5	Clermont	Freeman Schwabe Machinery	Union Twp	333291	Industrial machinery	MF	25	\$1,620,000	25,000	New	
5	Clermont	Smyth Automotive	Union Twp	42312	Auto parts	DW		\$2,000,000	45,000		Exp
5	Clermont	Tata America / TCS	Miami Twp	541512	Computer software	OF/F	1,000	\$20,000,000	194,000	New	
5	Clermont	Key Resin Co	Union Twp	325998	Floor coatings	MF	6	\$2,010,000		New	
5	Clermont	Multi-Color Corp	Union Twp	323111	Labels	MF	83	\$25,600,000	247,000	New	
5	Clermont	Sun Chemical	Union Twp	325131	Ink	MF/F	10	\$5,000,000			Exp
5	Clermont	Plastikos Corp	Batavia	326199	Thermoformed plastics	MF	11	\$1,250,000			Exp
5	Hamilton	Cole Realty	Arlington Heights	23311	Spec dist - Galbraith Business Center	SW		\$2,500,000	52,000	New	
5	Hamilton	Duke Realty	Blue Ash	23311	Spec of - Landings ph 2	SO		\$25,000,000	240,000	New	
5	Hamilton	Miller Valentine	Cincinnati	23311	Spec of - Waterston	SO		\$5,000,000	80,000	New	
5	Hamilton	Neyer Properties	Cincinnati	23311	Spec of - Keystone Parke	SO		\$5,000,000	112,000	New	
5	Hamilton	Restaurant Depot	Cincinnati	42441	Restaurant supplies	DW		\$2,000,000	55,000	New	
5	Hamilton	Wave Development LLC	Cincinnati	71311	Water park	Amusement		\$20,000,000	41,600	New	
5	Hamilton	AIDCO International	Cincinnati	49311	Logistics	HQ/R&D	1	\$4,800,000	70,000	New	
5	Hamilton	Ford Motor Co	Sharonville	33635	Vehicle transmissions	MF		\$200,000,000			Exp
5	Hamilton	Humana Insurance Co	Cincinnati	544114	Insurance	OF	300	\$86,000,000	250,000		Exp
5	Hamilton	Bear Creek Capital	Sycamore Twp	23311	Spec of	SO			250,000	New	
5	Hamilton	Cincinnati Children's Hospital	Cincinnati	62211	Hospital	OF			721,000		Exp
5	Hamilton	Value Place Hotel	Sharonville	72111	Hotel	HO		\$4,000,000	43,000	New	
5	Hamilton	Banks Intermodal Transit Center	Cincinnati	485111	Transportation hub	Trans		\$76,000,000		New	
5	Hamilton	Collins Ink	Cincinnati	32591	Ink	MF	31	\$4,100,000		New	
5	Hamilton	Procter & Gamble	Cincinnati	488119	Corporate hanger	Trans		\$17,000,000	100,000		Exp
5	Hamilton	Rookwood Corp	Cincinnati	327112	Pottery	HQ/MF	30	\$1,500,000	80,000	New	
5	Hamilton	Wellington Orthopaedic	Anderson Twp	612222	Medical office	Health			37,700	New	

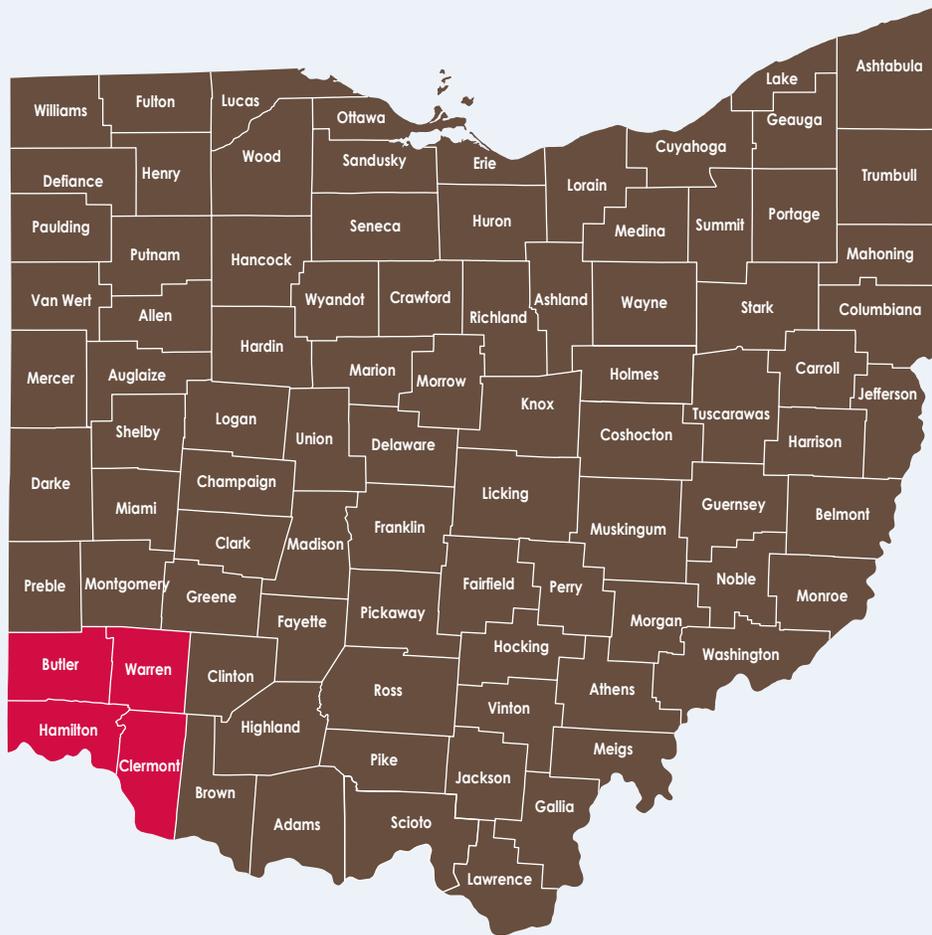
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Region	County	Company	City	NAICS	Product	Type	Jobs	Investment	Square Feet	New	Exp
5	Hamilton	Al Neyer	Evendale	23311	Medical offices	Health		\$2,000,000	33,000	New	
5	Hamilton	Neyer Properties	Sycamore Twp	23311	Spec of - Kenwood Crossing	SO		\$2,000,000	31,600	New	
5	Hamilton	Springhill Suites	Cincinnati	72111	Hotel	HO		\$4,000,000	60,000	New	
5	Hamilton	OMYA Industries	Blue Ash	42352	Calcium carbonates	HQ/F	66	\$875,000	25,000	New	
5	Hamilton	FirstGroup America	Cincinnati	48541	Transportation services	HQ/F	135	\$1,500,000	75,000		Exp
5	Hamilton	Ampac Packaging LLC	Springdale	326111	Plastic bags	MF	30	\$4,100,000			Exp
5	Hamilton	Valley Metal Works	Reading	332322	Sheet metal work	MF	6	\$1,500,000			Exp
5	Hamilton	Kendle International Inc	Cincinnati	541712	Pharmaceutical research	R&D	75	\$4,000,000			Exp
5	Hamilton	Neyer Properties	Evendale	23311	Spec of - Interstate Centre	SO		\$4,300,000	34,600	New	
5	Hamilton	GE Transportation Systems	Cincinnati	48599	Transportation	OF/DW		\$5,000,000	62,800		Exp
5	Warren	BEAR Materials/Renegade	Springboro	326199	Composites	MF	30	\$4,800,000	25,000	New	
5	Warren	Casto Deerfield Ltd	Deerfield Twp	23311	Spec of - Village Square	MX/SO		\$5,000,000	80,000	New	
5	Warren	Holiday Inn Express	Franklin	72111	Hotel	HO		\$3,000,000		New	
5	Warren	A&B Foundry & Machining	Franklin	331524	Aluminum castings	MF	25	\$1,500,000			Exp
5	Warren	Advanced Engineering Solutions	Springboro	336399	Auto parts	MF	72	\$3,500,000	70,000		Exp
5	Warren	Nibco Inc	Franklin	326191	Plastic pipe	MF			80,000	New	
5	Warren	Sinclair Community College	Mason	61121	Branch campus	Education	32	\$5,400,000	17,000	New	
5	Warren	Crucible Materials Corp	Springboro	42351	Metals	DW		\$2,000,000	66,200	New	
5	Warren	Renegade Materials Corp	Springboro	326199	Plastic products	MF		\$1,500,000	25,000	New	
5	Warren	Otterbein Retirement	Springboro	623311	Retirement housing	Health	180	\$20,000,000		New	
5	Warren	Luxtotta / Cole Vision	Mason	339115	Optical lenses	MF/F	250				Exp
5	Warren	Mane Inc	Lebanon	311999	Food flavorings	MF/F	30	\$11,200,000		New	
5	Warren	Stress Engineering	Mason	54133	Engineering	OF		\$4,000,000	34,000	New	
<b>Region 5</b>	<b>Totals</b>						<b>3,215</b>	<b>\$1,189,055,000</b>	<b>8,447,100</b>		

# Workforce Analysis

Southwest Ohio

Economic Development Region 5



*Butler, Clermont, Hamilton  
and Warren Counties*

Workforce Analysis  
Economic Development Region 5



October  
2007

# Workforce Analysis Economic Development Region 5 Southwest Ohio

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## Executive Summary

- The Southwest Ohio EDR is centered around the Cincinnati-Middletown Metropolitan Statistical Area (MSA). Hamilton County has a net inflow of commuters of nearly 122,000 workers.
- Clermont County was rated economically "competitive" by the Appalachian Regional Commission.
- Total population was approximately 1.6 million in 2006, having risen 6.2 percent from 1995. Warren County was one of the 100 fastest growing counties from 2000 to 2006. Demographically, this region is younger than the rest of Ohio.
- Nonfarm payroll employment was about 802,000 in 2006, having recovered nearly all the jobs lost in the last recession..
- The unemployment rate for 2006 was 5.2 percent, 0.3 percentage point lower than the peak in 2004.
- Per capita income was \$36,339 in 2005, having shown a 4.0 percent annual compound rate of growth from 1995.
- About 6,300 residential construction permits were granted in 2006 with an average valuation of \$185,884.
- Southwest Ohio employment is projected to grow 9.2 percent from 2004 to 2014. Health care and social assistance; administrative and waste services; and accommodation and food services are expected to have the most job growth.
- Food preparation and serving; office and administrative support; and sales and related occupations are projected to have the most average annual openings from 2004 to 2014.
- In general, Southwest Ohio has a higher overall level of educational attainment than the rest of Ohio.
- There are 42 postsecondary training providers in Southwest Ohio offering about 1,900 different programs. Over 18,000 degrees and certificates were awarded in 2006.
- Reading comprehension, active listening and critical thinking will be the most highly-demanded workplace skills through 2014.

## 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.

The Southwest Ohio region lies completely within the Cincinnati-Middletown MSA. Since Hamilton County contains the MSA's central city, it has the strongest flow of in-commuters for this region—over 121,000 commuters in net. Interestingly, Warren County has the largest proportion of its labor force commuting in from outside the county. Southwest Ohio draws over 48,000 commuters in total from outside the region. 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
Butler	133,727	43,246	32.3%	160,314	69,833	43.6%	-26,587	-23.5%
Clermont	55,884	20,430	36.6%	88,372	52,918	59.9%	-32,488	-44.3%
Hamilton	519,981	183,735	35.3%	398,564	62,219	15.6%	121,516	49.4%
Warren	62,714	33,244	53.0%	76,548	47,078	61.5%	-13,834	-17.2%
<b>Southwest Ohio</b>	<b>772,306</b>	<b>106,419</b>	<b>13.8%</b>	<b>723,798</b>	<b>58,212</b>	<b>8.0%</b>	<b>48,207</b>	<b>29.3%</b>

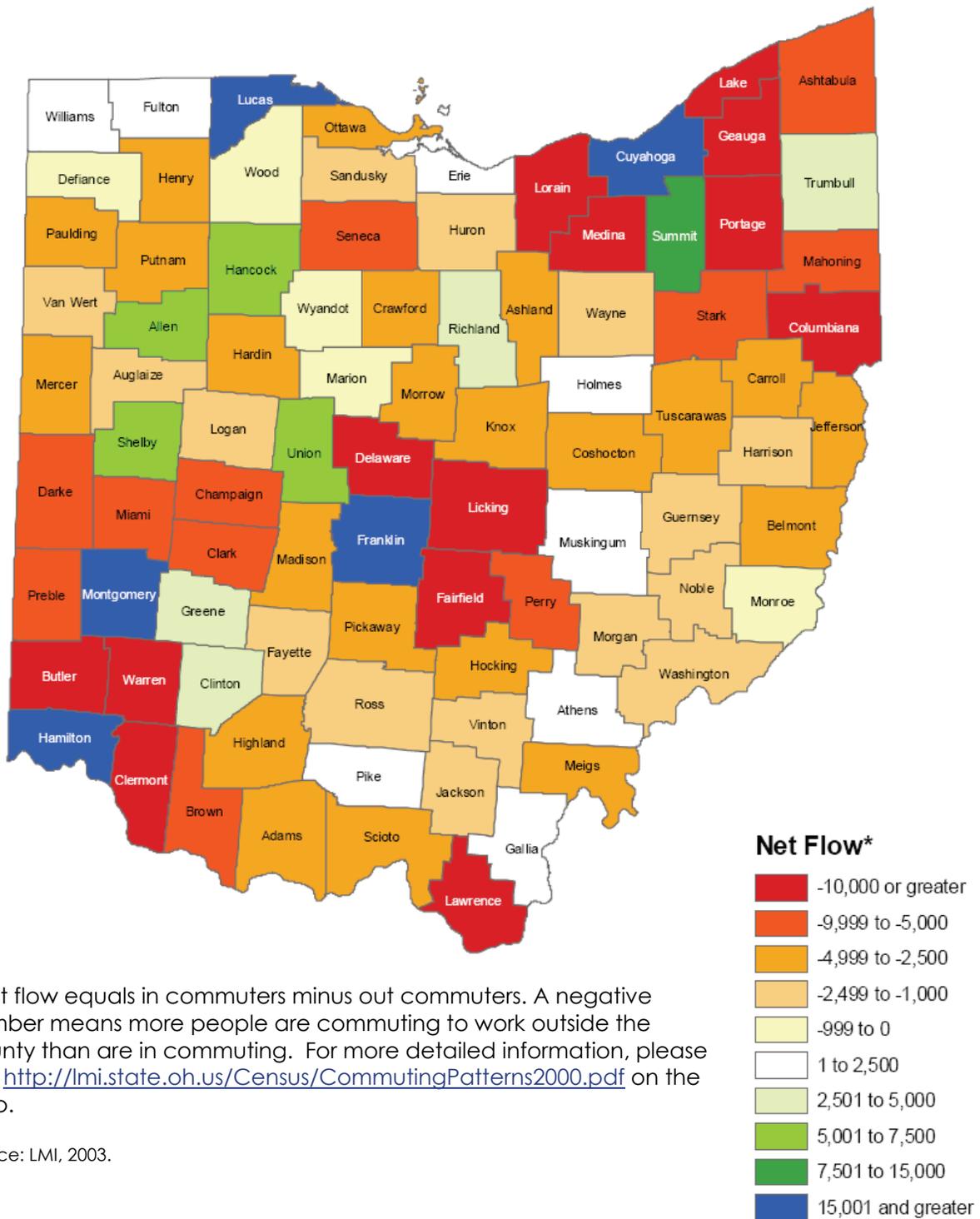
Figure 2 on the next page shows a visual summary of the net flow of commuters from the 2000 decennial census. Most workers commuting into a county to work usually do so from adjacent counties. Detailed county-to-county commuting is shown in Appendix C.

Clermont County, while part of EDR 5, is also part of the Southern Ohio region of Appalachian Ohio. Clermont County was designated as economically “competitive” by the Appalachian Regional Commission for FY 2007, defined as able to compete in the national economy but not in the highest ten percent of counties, as measured by an index of the unemployment rate, per capita market income, and the poverty rate.<sup>2</sup> This was the highest classification attained by any Appalachian Ohio county that year.

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

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

Figure 2: Net Flow of Ohio Commuters



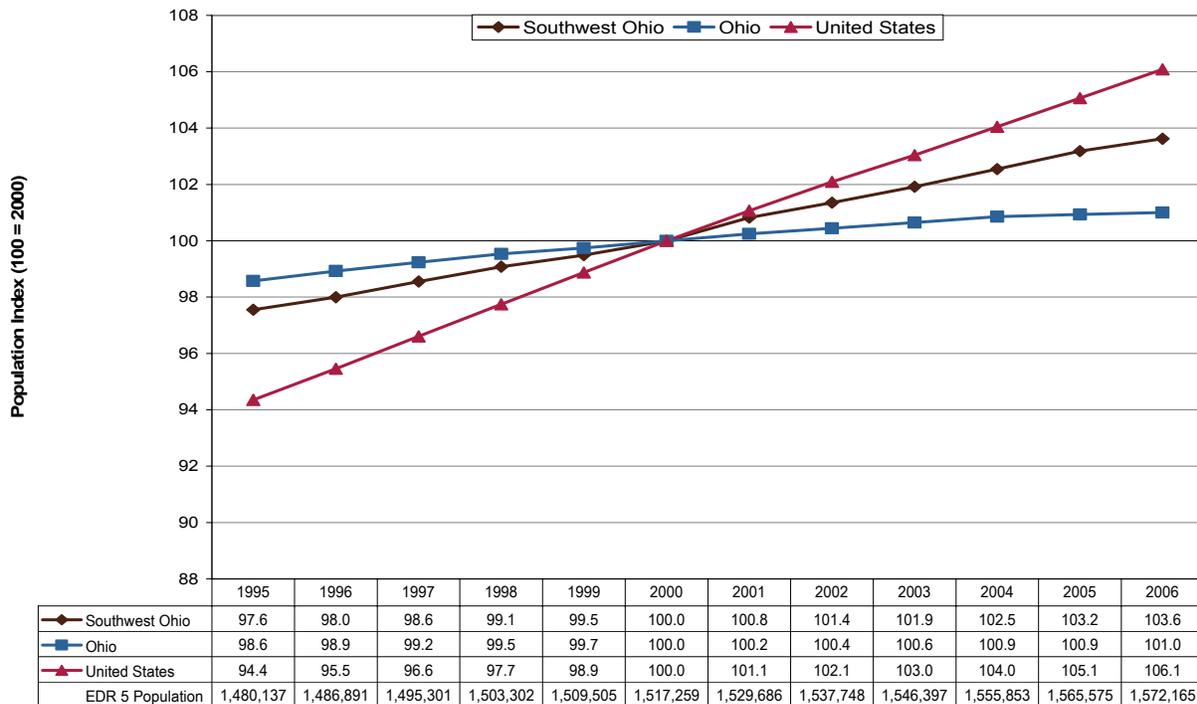
\*Net flow equals in commuters minus out commuters. A negative number means more people are commuting to work outside the county than are in commuting. For more detailed information, please visit <http://lmi.state.oh.us/Census/CommutingPatterns2000.pdf> on the web.

Source: LMI, 2003.

## II. Economic Indicators

**Population Trends.** Regional population was approximately 1.6 million in 2006, a 6.2 percent increase from 1995. As Figure 3 below clearly shows, Southwest Ohio's population has been growing at a much faster rate than the rest of the state over the period of analysis. This has been due in part to growth in Warren County, which was one of the 100 fastest-growing counties in the U.S. from 2000 to 2006.<sup>3</sup> During this period, Ohio's population grew about 2.5 percent to 11.5 million residents. National population grew 12.4 percent.

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



**Demographic Traits.** Age demographics from 2006 reveal differences between this EDR and the rest of the state and nation. As a whole this region is much younger than the rest of Ohio—35.0 percent of residents are 24 or younger, compared with 33.7 percent statewide. The region also has a larger working-age population between 25 and 54 (42.7%).

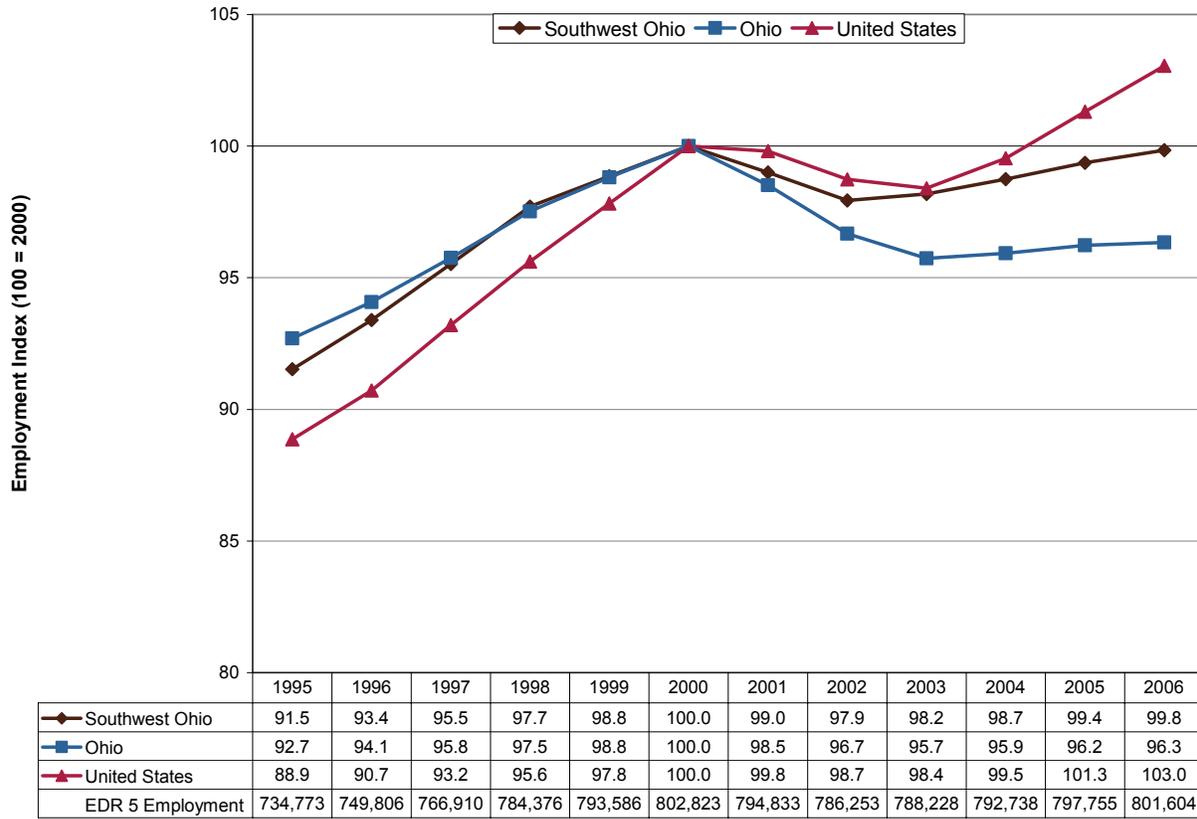
**Figure 4: Demographic Characteristics, 2006**

	United States		Ohio		Southwest Ohio	
<b>Total</b>	<b>299,238,484</b>	<b>100.0%</b>	<b>11,478,006</b>	<b>100.0%</b>	<b>1,572,165</b>	<b>100.0%</b>
Under 5	20,417,636	6.8%	734,735	6.4%	107,826	6.9%
5 to 14	40,337,284	13.5%	1,534,571	13.4%	217,011	13.8%
15 to 24	42,435,426	14.2%	1,597,458	13.9%	225,781	14.4%
25 to 34	40,415,979	13.5%	1,459,394	12.7%	200,018	12.7%
35 to 44	43,666,950	14.6%	1,621,662	14.1%	231,883	14.7%
45 to 54	43,278,174	14.5%	1,738,480	15.1%	238,956	15.2%
55 to 64	31,586,683	10.6%	1,259,712	11.0%	161,815	10.3%
65 and older	37,260,352	12.5%	1,531,994	13.3%	188,875	12.0%

<sup>3</sup> U.S. Census Bureau, 2007a.

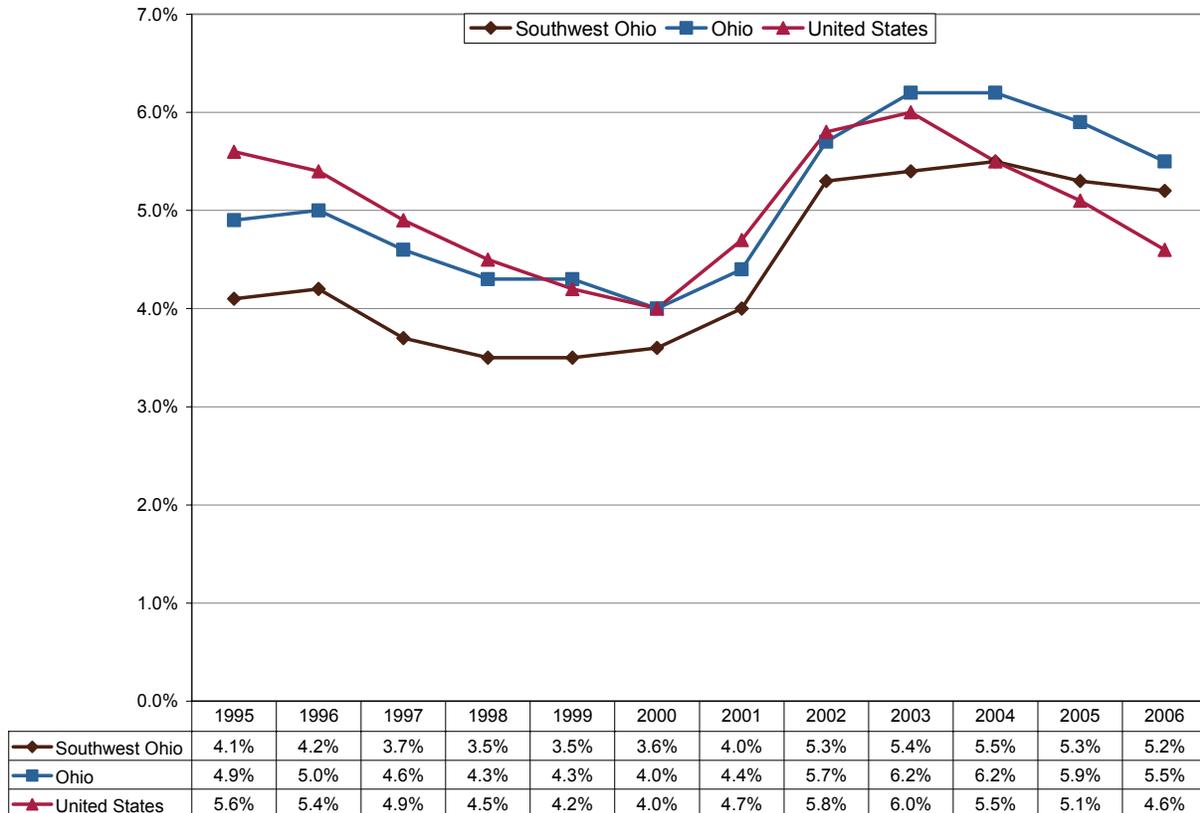
**Employment Trends.** Total nonfarm payroll employment in Southwest Ohio in 2006 was about 802,000. After significant growth during the record economic expansion of the late 1990s, employment growth in this EDR has been relatively slow since the rebound began in 2003. This region has nearly recovered the job losses following the 2001 recession. By comparison, Ohio's nonfarm employment has fallen 3.7 percent since 2000 while U.S. employment rose 3.0 percent.

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



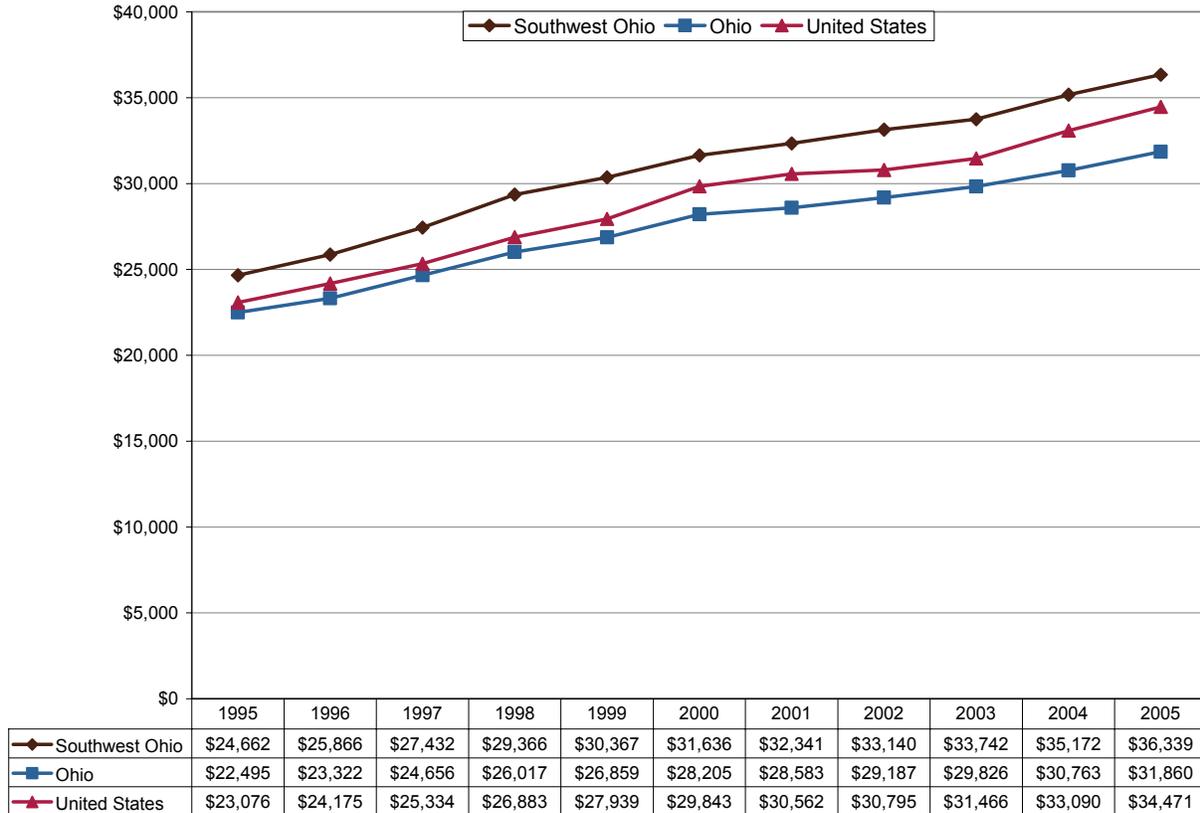
**Unemployment Rate Trends.** The unemployed are those in the non-institutional population 16 years or older who were not employed during the reference week but were actively seeking work, waiting to be called back to a job after a layoff, or waiting to report within 30 days to a new job. The regional unemployment rate in 2006 was 5.2 percent. As with payroll employment, the unemployment rate has been relatively stable in recent years, dropping only three tenths of a percentage point since the peak in 2004. Ohio unemployment fell 0.7 percentage point to 5.5 percent during this same period. National unemployment fell 1.4 percentage points since 2003 to 4.6 percent.

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



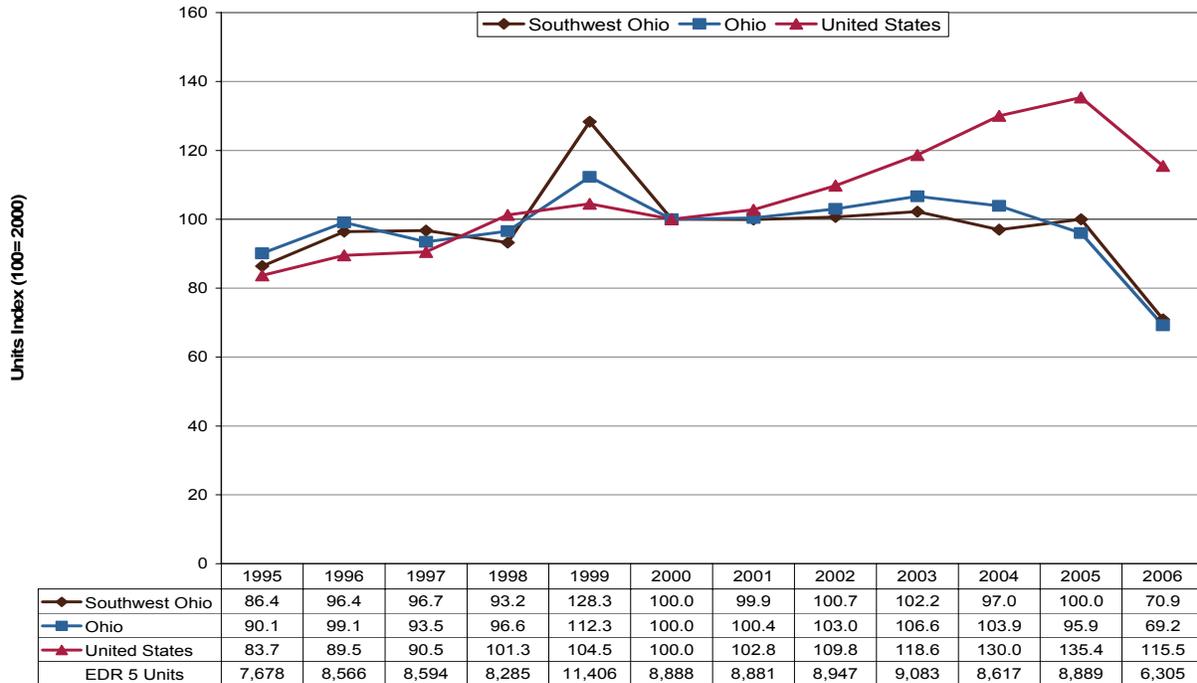
**Per Capita Income Trends.** Regional per capita income in 2005 was \$36,339, higher than both the state and national figures. Income levels in urban areas tend to be higher than in rural areas, and this EDR is highly urbanized. Since 1995, Southwest Ohio's per capita income has grown at a 4.0 percent annual compound rate, slightly slower than the national growth rate but much faster than the 3.5 percent for Ohio.

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

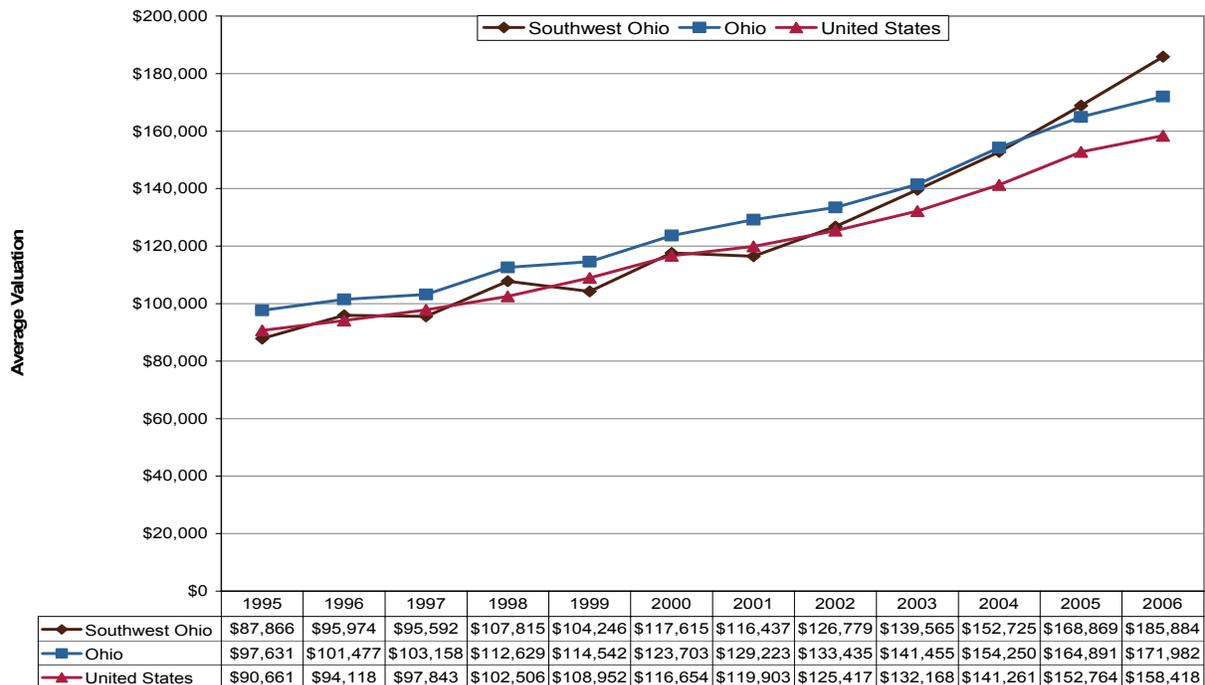


**Residential Construction Permit Trends.** Regional construction trends have been highly similar to statewide trends throughout the period of analysis. Approximately 6,300 units were built in 2006, a significant drop-off from the prior year. Unit valuations have been climbing steadily over this period.

**Figure 8: Number of New Residential Building Permits**



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



### III. Employment Projections to 2014

**Projections by Industry Sector.** Figure 10 below shows projections from the Job Outlook to 2014 for Southwest Ohio. As of 2004, approximately 17.1 percent of all area employment was in goods-producing industries such as manufacturing or construction, lower than the statewide proportion (19.9%). The remaining 82.9 percent of employment was in service-providing industries such as retail or health care.

Between 2004 and 2014, Southwest Ohio is projected to add 79,600 jobs in net (9.2%), the majority in service-providing industries but also a large number in construction (7,000 jobs). The fastest-growing industry sector during this period will be health care and social assistance (23.4%), creating 22,800 jobs in industries such as hospitals, clinics and certain non-profit organizations. Demand for health care will climb in the coming years as the baby boom generation ages and new medical technologies come available. The greatest job losses are expected in manufacturing, which will shed 9,400 jobs (-9.2%) during this period.

**Figure 10: Southwest 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>863,300</b>	<b>942,900</b>	<b>79,600</b>	<b>9.2%</b>
<b>Goods-Producing</b>	<b>147,200</b>	<b>144,400</b>	<b>-2,800</b>	<b>-1.9%</b>
Natural Resources and Mining	4,200	3,800	-400	-9.5%
Construction	41,100	48,100	7,000	17.0%
Manufacturing	101,900	92,500	-9,400	-9.2%
<b>Service-Providing</b>	<b>658,400</b>	<b>740,600</b>	<b>82,200</b>	<b>12.5%</b>
Trade, Transportation and Utilities	151,700	160,200	8,500	5.6%
Wholesale Trade	42,900	45,000	2,100	4.9%
Retail Trade	87,300	90,400	3,100	3.6%
Transportation and Warehousing	19,000	22,700	3,700	19.5%
Utilities	2,500	2,200	-300	-12.0%
Information	13,700	14,600	900	6.6%
Financial Activities	53,000	55,800	2,800	5.3%
Finance and Insurance	41,500	43,800	2,300	5.5%
Real Estate and Rental and Leasing	11,500	12,000	500	4.3%
Professional and Business Services	125,600	150,800	25,200	20.1%
Professional, Scientific & Technical Services	42,900	50,400	7,500	17.5%
Management of Companies and Enterprises	28,000	31,400	3,400	12.1%
Administrative and Waste Services	54,800	69,000	14,200	25.9%
Education and Health Services	109,400	134,200	24,800	22.7%
Educational Services	12,000	14,000	2,000	16.7%
Health Care & Social Assistance	97,400	120,200	22,800	23.4%
Leisure and Hospitality	77,000	87,700	10,700	13.9%
Arts, Entertainment & Recreation	13,300	15,700	2,400	18.0%
Accommodation and Food Services	63,800	72,000	8,200	12.9%
Other Services	35,000	38,900	3,900	11.1%
Government	92,800	98,300	5,500	5.9%
Federal Government	11,100	10,600	-500	-4.5%
State Government	15,500	17,000	1,500	9.7%
Local Government	66,200	70,700	4,500	6.8%
<b>Self-Employed, Private Household and Unpaid Family Workers</b>	<b>57,700</b>	<b>57,900</b>	<b>200</b>	<b>0.3%</b>

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

On average, there will be about 28,000 job openings per year in this region. Healthcare occupations will have the most job growth through 2014, adding nearly 17,000 positions (24.2%). Strong growth will also be seen in construction and extraction occupations (15.9%); food preparation and serving (12.3%); and transportation and material moving (11.1%).

Note that while production occupations are projected to lose approximately 2,200 jobs during the period of analysis (-3.0%), there will still be an average 1,740 annual openings in this group. In general, three out of every four openings are for replacement hires.

**Figure 11: Southwest 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>863,300</b>	<b>942,900</b>	<b>79,600</b>	<b>9.2%</b>	<b>28,392</b>
Management Occupations	44,600	48,510	3,910	8.8%	1,210
Business and Financial Operations Occupations	42,650	48,170	5,520	12.9%	1,365
Computer and Mathematical Occupations	20,970	26,310	5,340	25.5%	817
Architecture and Engineering Occupations	16,620	18,140	1,520	9.1%	549
Life, Physical, and Social Science Occupations	7,660	8,400	740	9.7%	269
Community and Social Services Occupations	11,470	13,490	2,020	17.6%	407
Legal Occupations	5,340	5,870	530	9.9%	140
Education, Training, and Library Occupations	43,650	48,920	5,270	12.1%	1,478
Arts, Design, Entertainment, Sports, & Media Occ.	12,680	13,970	1,290	10.2%	358
Healthcare Occupations, total	69,390	86,160	16,770	24.2%	2,888
Protective Service Occupations	17,820	19,520	1,700	9.5%	748
Food Preparation and Serving Related Occupations	70,840	79,520	8,680	12.3%	3,613
Building & Grounds Cleaning & Maintenance Occup.	26,900	29,520	2,620	9.7%	800
Personal Care and Service Occupations	25,120	27,900	2,780	11.1%	896
Sales and Related Occupations	89,440	93,000	3,560	4.0%	3,158
Office and Administrative Support Occupations	142,120	145,330	3,210	2.3%	3,521
Farming, Fishing, and Forestry Occupations	740	740	0	0.0%	20
Construction and Extraction Occupations	42,660	49,460	6,800	15.9%	1,487
Installation, Maintenance, and Repair Occupations	33,790	35,980	2,190	6.5%	967
Production Occupations	73,020	70,800	-2,220	-3.0%	1,740
Transportation and Material Moving Occupations	65,830	73,170	7,340	11.1%	2,208

**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 45 average annual openings. There are about 100 such occupations identified for Southwest Ohio. Figure 12 shows these high prospect occupations arranged by required education and training.

**Figure 12: High Prospect Occupations in Southwest 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>							
43-3011	Bill and Account Collectors	3,430	3,870	440	12.8%	109	\$14.90
43-4111	Interviewers, except Eligibility and Loan	2,170	2,690	520	24.0%	108	\$12.89
43-4161	Human Resources Assis., ex. Payroll & Timekp	1,700	1,930	230	13.5%	60	\$17.10
43-5052	Postal Service Mail Carriers	1,880	1,780	-100	-5.3%	59	\$22.70
43-5053	Postal Service Mail Sorters/Proc/Proc Mach. Op.	2,180	2,060	-120	-5.5%	58	\$20.60
43-5061	Production, Planning, and Expediting Clerks	2,050	2,080	30	1.5%	53	\$18.74
43-5071	Shipping, Receiving, and Traffic Clerks	4,960	4,860	-100	-2.0%	102	\$14.13
51-9111	Packaging & Filling Machine Operators/Tenders	5,230	5,200	-30	-0.6%	104	\$12.55
51-9198	Helpers--Production Workers	4,430	4,410	-20	-0.5%	124	\$12.30
53-3022	Bus Drivers, School	3,040	3,350	310	10.2%	97	\$12.72
53-3033	Truck Drivers, Light or Delivery Services	6,320	7,000	680	10.8%	126	\$13.22
53-7051	Industrial Truck and Tractor Operators	4,030	4,290	260	6.5%	102	\$14.24
<b>Occupations Requiring Moderate-Term On-the-Job Training (one to twelve months combined experience/training)</b>							
21-1093	Social and Human Service Assistants	1,620	2,020	400	24.7%	69	\$13.75
31-9091	Dental Assistants	1,720	2,320	600	34.9%	108	\$15.17
31-9092	Medical Assistants	2,840	4,240	1,400	49.3%	193	\$12.93
41-4011	Sales Rep., Wholesale & Mfg, Tech./Sci. Prod.	2,320	2,500	180	7.8%	79	\$35.45
41-4012	Sales Rep., Wholesale/Mfg, ex. Tech./Sci. Prod.	12,230	13,250	1,020	8.3%	423	\$31.73
43-3021	Billing & Posting Clerks & Machine Operators	3,710	3,680	-30	-0.8%	63	\$14.81
43-3031	Bookkeeping, Accounting, and Auditing Clerks	10,740	10,850	110	1.0%	212	\$15.48
43-3051	Payroll and Timekeeping Clerks	1,300	1,460	160	12.3%	50	\$15.75
43-4051	Customer Service Representatives	16,250	19,240	2,990	18.4%	541	\$14.73
43-6011	Executive Secretaries & Administrative Assistants	10,470	11,230	760	7.3%	277	\$18.22
43-6014	Secretaries, except Legal, Medical & Executive	10,630	9,890	-740	-7.0%	204	\$14.36
47-2051	Cement Masons and Concrete Finishers	1,180	1,440	260	22.0%	50	\$18.04
47-2061	Construction Laborers	4,990	5,220	230	4.6%	89	\$16.15
47-2073	Operating Engineers & Other Con. Equip. Op.	1,800	2,050	250	13.9%	71	\$22.16
47-2141	Painters, Construction and Maintenance	2,380	2,750	370	15.5%	73	\$17.26
49-9042	Maintenance and Repair Workers, General	10,070	10,870	800	7.9%	273	\$17.27
51-2092	Team Assemblers	8,180	8,590	410	5.0%	252	\$13.80
51-4031	Cutting/Punching/Press Machine S/O/T, M/P	2,550	2,280	-270	-10.6%	59	\$13.57
51-9023	Mixing/Blending Mach. Setter/Operator/Tenders	2,200	1,960	-240	-10.9%	57	\$18.71
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	4,250	3,930	-320	-7.5%	97	\$17.14
53-3032	Truck Drivers, Heavy and Tractor-Trailer	9,070	10,350	1,280	14.1%	276	\$18.15
<b>Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training)</b>							
13-1031	Claims Adjusters, Examiners and Investigators	1,660	1,900	240	14.5%	45	\$25.35
33-2011	Fire Fighters	3,010	3,540	530	17.6%	140	\$17.66
33-3051	Police and Sheriff's Patrol Officers	3,700	4,030	330	8.9%	129	\$23.08
47-2031	Carpenters	8,100	9,570	1,470	18.1%	279	\$18.88
47-2111	Electricians	3,670	4,240	570	15.5%	130	\$21.28
47-2152	Plumbers, Pipefitters and Steamfitters	4,730	5,630	900	19.0%	109	\$21.10
51-4041	Machinists	4,350	4,340	-10	-0.2%	101	\$17.42

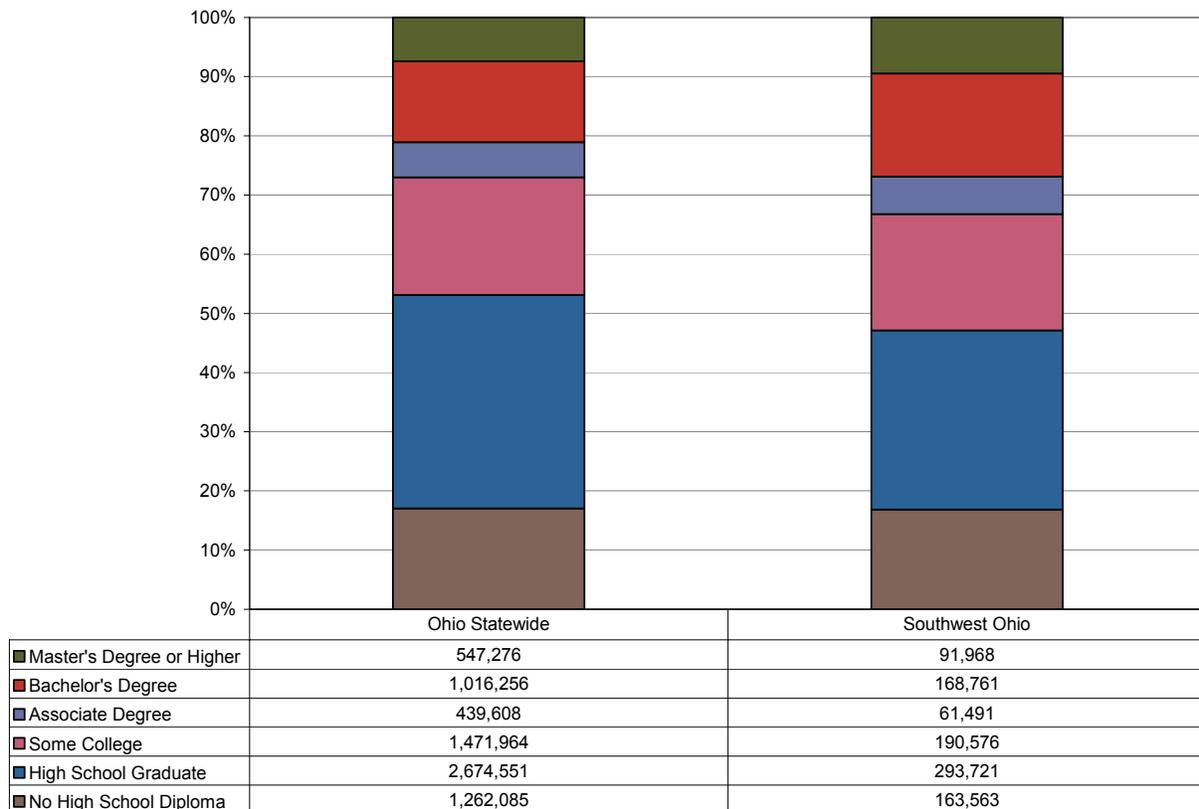
Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
<b>Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training) [con't]</b>							
51-4121	Welders, Cutters, Solderers, and Brazers	2,350	2,320	-30	-1.3%	66	\$17.41
<b>Occupations Requiring Work Experience in a Related Occupation</b>							
11-9051	Food Service Managers	2,470	2,700	230	9.3%	63	\$21.26
13-1023	Purchasing Agents, ex. Whole., Retail, & Farm	1,680	1,740	60	3.6%	48	\$26.98
13-1051	Cost Estimators	1,830	2,180	350	19.1%	76	\$27.15
35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	4,850	5,520	670	13.8%	182	\$14.50
39-1021	First-Line Sup/Mgrs of Personal Serv. Workers	1,310	1,460	150	11.5%	48	\$17.34
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	8,190	8,030	-160	-2.0%	147	\$19.66
41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	3,710	3,680	-30	-0.8%	70	\$39.94
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	7,650	7,910	260	3.4%	190	\$21.70
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	4,680	5,440	760	16.2%	156	\$30.15
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	2,850	3,060	210	7.4%	93	\$26.52
51-1011	FL Sup/Mgrs of Production/Operating Workers	5,120	5,050	-70	-1.4%	107	\$25.36
53-1031	FL Sup/Mgr of Trans/Mat.-Mov. Mach & Veh Op	1,370	1,570	200	14.6%	52	\$23.83
<b>Occupations Requiring Postsecondary Vocational Training</b>							
25-2011	Preschool Teachers, except Special Education	1,560	1,950	390	25.0%	58	\$12.18
29-2041	Emergency Medical Technicians & Paramedics	1,760	2,140	380	21.6%	58	\$15.60
29-2061	Licensed Practical & Licensed Vocat. Nurses	4,730	5,200	470	9.9%	150	\$19.38
43-6013	Medical Secretaries	2,190	2,480	290	13.2%	71	\$12.56
49-3023	Automotive Service Technicians and Mechanics	4,040	4,420	380	9.4%	145	\$18.78
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	1,670	1,900	230	13.8%	66	\$18.54
<b>Occupations Requiring an Associate Degree</b>							
15-1041	Computer Support Specialists	2,830	3,260	430	15.2%	78	\$22.17
29-1111	Registered Nurses <sup>†</sup>	16,390	20,740	4,350	26.5%	778	\$27.64
29-2012	Medical and Clinical Laboratory Technicians	920	1,120	200	21.7%	45	\$15.37
29-2021	Dental Hygienists	1,030	1,390	360	35.0%	45	\$30.85
29-2034	Radiologic Technologists and Technicians	1,390	1,720	330	23.7%	59	\$21.86
31-2021	Physical Therapist Assistants	800	1,120	320	40.0%	45	\$21.78
<b>Occupations Requiring a Bachelor's Degree</b>							
11-9021	Construction Managers	2,410	2,770	360	14.9%	80	\$49.19
13-1071	Employment, Recruitment & Placement Specialists	1,400	1,650	250	17.9%	47	\$25.02
13-2011	Accountants and Auditors	8,170	9,400	1,230	15.1%	277	\$29.53
15-1021	Computer Programmers	3,470	3,400	-70	-2.0%	82	\$29.29
15-1031	Computer Software Engineers, Applications	4,150	5,790	1,640	39.5%	205	\$36.35
15-1032	Comp. Software Engineers, Systems Software	1,540	2,170	630	40.9%	78	\$36.02
15-1051	Computer Systems Analysts	2,640	3,270	630	23.9%	93	\$33.56
15-1071	Network and Computer Systems Administrators	1,950	2,650	700	35.9%	92	\$31.97
15-1081	Network Systems & Data Comm. Analysts	1,820	2,780	960	52.7%	117	\$34.25
17-2112	Industrial Engineers	1,570	1,760	190	12.1%	57	\$34.94
17-2141	Mechanical Engineers	2,890	3,030	140	4.8%	93	\$37.48
19-3021	Market Research Analysts	1,510	1,700	190	12.6%	58	\$31.85
25-2021	Elementary School Teachers, ex.Special Ed. <sup>†</sup>	7,550	8,190	640	8.5%	231	\$48,797
25-2022	Middle School Teachers, ex. Special & Voc. Ed. <sup>†</sup>	3,180	3,270	90	2.8%	79	\$52,634
25-2031	Secondary Sch. Teachers, ex. Spec. & Voc. Ed. <sup>†</sup>	7,280	7,670	390	5.4%	244	\$51,610
25-2043	Special Education Teachers, Secondary School <sup>†</sup>	1,410	1,560	150	10.6%	49	\$49,757
27-1024	Graphic Designers	2,010	2,230	220	10.9%	49	\$19.77
29-2011	Medical and Clinical Laboratory Technologists	1,000	1,230	230	23.0%	50	\$23.79
41-3021	Insurance Sales Agents	3,550	3,650	100	2.8%	95	\$31.76
41-3031	Securities/Commodities/Fin. Serv. Sales Agents	2,260	2,530	270	11.9%	53	\$34.09

Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
<b>Occupations Requiring Work Experience plus a Bachelor's Degree</b>							
11-1011	Chief Executives	2,860	3,120	260	9.1%	80	\$73.13
11-1021	General and Operations Managers	10,100	11,260	1,160	11.5%	307	\$48.82
11-2022	Sales Managers	1,820	2,050	230	12.6%	57	\$49.09
11-3021	Computer and Information Systems Managers	1,760	2,150	390	22.2%	71	\$51.04
11-3031	Financial Managers	2,170	2,370	200	9.2%	51	\$49.53
11-9111	Medical and Health Services Managers	1,600	1,920	320	20.0%	63	\$36.28
13-1111	Management Analysts	4,840	5,630	790	16.3%	145	\$32.09
<b>Occupations Requiring a First Professional Degree</b>							
23-1011	Lawyers	3,350	3,900	550	16.4%	98	\$54.66
29-1051	Pharmacists	1,570	1,820	250	15.9%	55	\$44.53
*May 2005 wages aged to April 2006.							
**Abbreviations							
FL Sup/Mgrs = First-Line Supervisors/Managers							
M/P = Metal and Plastic							
O/T = Operators and Tenders							
S/O/T = Setters, Operators and Tenders							
†Annual earnings, typically for a 9½ month school year							
‡Training requirements may be met through a two-year associate's degree; a three-year diploma; or a four-year bachelor's degree.							
Source: Ohio Department of Job and Family Services, Bureau of Labor Market Information, 2007a.							

## IV. Education & Training

**Educational Attainment.** Figure 13 below shows educational attainment among adults 25 or older in this region and in Ohio. In general, Southwest Ohio has a higher level of overall educational attainment than the rest of the state. The EDR has a much higher proportion of adults with postsecondary degrees, especially people with master's degrees or better: 9.5 percent compared with only 7.4 percent statewide. There is also a larger proportion of adults with bachelor's and associate's degrees—17.4 percent and 6.3 percent, respectively.

**Figure 13: Educational Attainment, 2000**



**Institutions and Degree Completions.** There are 42 postsecondary training providers in Southwest Ohio offering about 1,900 different programs: 3 public adult schools with occupational training; 20 two-year technical and community colleges; 14 four-year colleges and universities; and 5 private technical schools. From 2005 to 2006, the number of awards granted by these institutions grew by 180 (1.0%). For comparison Ohio increased by 3.7 percent. Master's degree completers had the most growth last year. Details on educational institutions and program completers are available in Appendices E and F, respectively.

**Figure 14: Degree Completions in Southwest Ohio**

Award Type	2005	2006	Net Growth
Postsec. Awards; < 2 yrs.	1,758	1,838	80
Associate's Degrees	3,048	3,024	-24
Bachelor's Degrees	9,075	8,973	-102
Master's Degrees	3,237	3,522	285
Doctor's Degrees	462	387	-75
First-Professional Degrees	358	379	21
All Other Awards	310	305	-5
Totals	18,248	18,428	180

**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 Southwest 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.

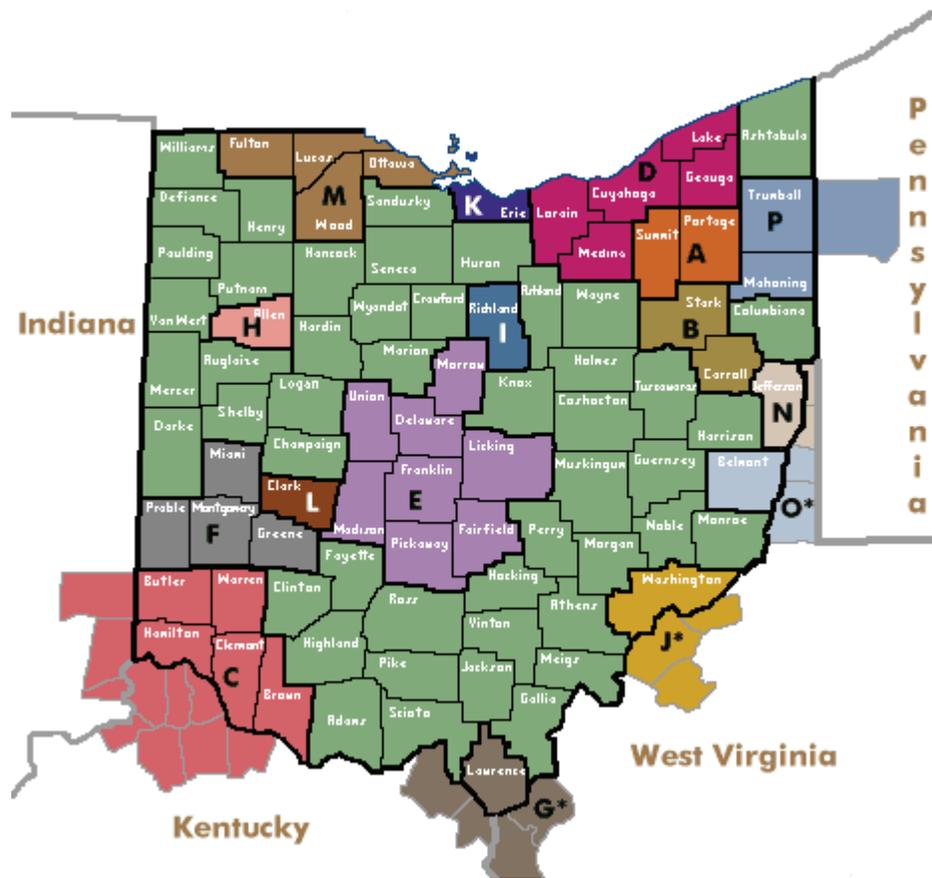
As is the case in much of Ohio, reading comprehension will be in very strong demand through 2014, required in 51.9 percent of all job openings, and has the highest gap between available supply and projected demand. Other highly-ranked skills in Southwest Ohio include active listening, critical thinking, coordination and speaking.

Several workplace skills in Southwest Ohio have higher projected levels of demand than statewide: 21 out of 35 in total, including *all* of the top ten ranked skills. In general, this region will require a much more highly-trained workforce over the next ten years.

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

Skill	Southwest Ohio				Ohio	
	Supply Rank	Percent Demand	Gap Index	Repl. Index	Percent Demand	Gap Index
Reading Comprehension	1	51.9%	100	62	48.3%	100
Active Listening	2	51.0%	97	63	46.6%	97
Critical Thinking	3	45.9%	94	63	41.9%	94
Coordination	6	40.8%	91	60	36.8%	89
Speaking	4	42.1%	89	61	38.4%	91
Active Learning	5	40.8%	86	62	37.4%	86
Monitoring	7	37.7%	83	61	34.3%	83
Instructing	9	36.7%	80	61	34.1%	77
Writing	8	36.2%	77	61	33.6%	80
Time Management	10	34.5%	74	61	31.6%	74
Learning Strategies	11	33.9%	71	61	31.3%	71
Social Perceptiveness	12	29.7%	69	62	28.6%	69
Service Orientation	13	27.3%	66	60	25.4%	66
Judgment and Decision Making	14	26.4%	63	60	23.6%	63
Complex Problem Identification	16	23.4%	60	61	21.3%	57
Persuasion	15	24.0%	57	62	22.2%	60
Mathematics	17	21.7%	54	59	18.9%	54
Equipment Selection	18	18.2%	51	61	16.0%	51
Negotiation	19	12.9%	49	68	12.0%	49
Troubleshooting	21	12.3%	46	62	11.0%	43
Management of Personnel Resources	20	10.9%	43	66	10.1%	46
Installation	23	9.0%	40	62	7.6%	40
Operations Analysis	27	6.7%	37	55	5.2%	31
Equipment Maintenance	22	9.6%	34	67	9.3%	34
Systems Evaluation	30	5.2%	31	48	4.3%	29
Management of Financial Resources	24	7.2%	29	65	6.6%	37
Systems Analysis	32	4.5%	26	49	3.2%	26
Repairing	28	6.4%	23	64	5.9%	20
Technology Design	34	3.9%	20	46	2.9%	17
Science	33	4.6%	17	57	3.9%	23
Quality Control	25	6.7%	14	64	6.0%	11
Management of Material Resources	31	4.1%	11	63	3.5%	14
Operation and Control	29	5.5%	9	72	5.4%	6
Operation Monitoring	26	6.5%	6	75	6.8%	3
Programming	35	1.5%	3	42	1.0%	9

## 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>Butler</b>			Percent of workers that work outside the county - 43.6%		
			Average commute time in minutes - 23.0		
Number of workers 16+ years of age living in Butler County 160,314			Number of workers 16+ years of age working in Butler County 133,727		
Commute Out To	Number	Percent	Commute In From	Number	Percent
Hamilton Co. OH	47,984	29.9%	Hamilton Co. OH	18,452	13.8%
Warren Co. OH	11,133	6.9%	Warren Co. OH	8,586	6.4%
Montgomery Co. OH	4,635	2.9%	Clermont Co. OH	2,912	2.2%
Clermont Co. OH	1,072	0.7%	Montgomery Co. OH	2,622	2.0%
Boone Co. KY	857	0.5%	Preble Co. OH	2,575	1.9%
Kenton Co. KY	696	0.4%	Kenton Co. KY	908	0.7%
Greene Co. OH	400	0.2%	Dearborn Co. IN	750	0.6%
Campbell Co. KY	318	0.2%	Union Co. IN	698	0.5%
Preble Co. OH	239	0.1%	Franklin Co. IN	677	0.5%
Clinton Co. OH	209	0.1%	Campbell Co. KY	652	0.5%

<b>Clermont</b>			Percent of workers that work outside the county - 59.9%		
			Average commute time in minutes - 28.2		
Number of workers 16+ years of age living in Clermont County 88,372			Number of workers 16+ years of age working in Clermont County 55,884		
Commute Out To	Number	Percent	Commute In From	Number	Percent
Hamilton Co. OH	40,090	45.4%	Hamilton Co. OH	8,240	14.7%
Warren Co. OH	3,269	3.7%	Brown Co. OH	4,802	8.6%
Butler Co. OH	2,912	3.3%	Warren Co. OH	1,448	2.6%
Kenton Co. KY	1,630	1.8%	Butler Co. OH	1,072	1.9%
Boone Co. KY	1,422	1.6%	Kenton Co. KY	761	1.4%
Campbell Co. KY	744	0.8%	Campbell Co. KY	579	1.0%
Brown Co. OH	529	0.6%	Adams Co. OH	527	0.9%
Montgomery Co. OH	433	0.5%	Clinton Co. OH	483	0.9%
Clinton Co. OH	403	0.5%	Highland Co. OH	427	0.8%
Dearborn Co. IN	154	0.2%	Boone Co. KY	350	0.6%

<b>Hamilton</b>			Percent of workers that work outside the county - 15.6%		
			Average commute time in minutes - 23.0		
Number of workers 16+ years of age living in Hamilton County 398,465			Number of workers 16+ years of age working in Hamilton County 519,981		
Commute Out To	Number	Percent	Commute In From	Number	Percent
Butler Co. OH	18,452	4.6%	Butler Co. OH	47,984	9.2%
Warren Co. OH	9,303	2.3%	Clermont Co. OH	40,090	7.7%
Clermont Co. OH	8,240	2.1%	Warren Co. OH	21,347	4.1%
Kenton Co. KY	7,937	2.0%	Kenton Co. KY	20,200	3.9%
Boone Co. KY	6,505	1.6%	Campbell Co. KY	14,946	2.9%
Campbell Co. KY	2,739	0.7%	Boone Co. KY	8,351	1.6%
Montgomery Co. OH	1,747	0.4%	Dearborn Co. IN	7,672	1.5%
Dearborn Co. IN	1,335	0.3%	Brown Co. OH	3,945	0.8%
Franklin Co. OH	472	0.1%	Montgomery Co. OH	2,698	0.5%
Ripley Co. IN	295	0.1%	Franklin Co. IN	1,880	0.4%

<b>Warren</b>			Percent of workers that work outside the county -			61.5%					
			Average commute time in minutes -			24.1					
Number of workers 16+ years of age living in Warren County			76,548			Number of workers 16+ years of age working in Warren County			62,714		
Commute Out To			Number	Percent		Commute In From			Number	Percent	
Hamilton Co. OH			21,347	27.9%		Butler Co. OH			11,133	17.8%	
Montgomery Co. OH			11,325	14.8%		Hamilton Co. OH			9,303	14.8%	
Butler Co. OH			8,586	11.2%		Montgomery Co. OH			4,488	7.2%	
Clermont Co. OH			1,448	1.9%		Clermont Co. OH			3,269	5.2%	
Greene Co. OH			1,321	1.7%		Clinton Co. OH			1,079	1.7%	
Clinton Co. OH			1,038	1.4%		Greene Co. OH			797	1.3%	
Boone Co. KY			337	0.4%		Brown Co. OH			347	0.6%	
Franklin Co. OH			286	0.4%		Preble Co. OH			336	0.5%	
Kenton Co. KY			249	0.3%		Campbell Co. KY			322	0.5%	
Clark Co. OH			125	0.2%		Kenton Co. KY			297	0.5%	

Source: U.S. Census Bureau, 2004.

## Appendix D: Major Employers by County

<b>Butler</b>	
AK Steel Holding Corp.	Manufacturing
Amylin Pharmaceuticals, Inc.	Manufacturing
Armor Holdings, Inc.	Manufacturing
Butler County Government	Government
Cincinnati Financial Corp.	Insurance
Cornerstone Brands, Inc.	Retail
Fairfield City Board of Education	Government
Ft. Hamilton Memorial Hospital	Health Care
Hamilton City Board of Education	Government
Lakota Local Board of Education	Government
Liberty Mutual/Ohio Casualty Corp.	Insurance
Mercy Regional Hospital	Health Care
Miami University	Education
Middletown Regional Health System	Health Care
<b>Clermont</b>	
Clermont County Government	Government
Duke Energy Corp.	Utilities
Fifth Third Bank	Finance
International Paper Co.	Research
Meijer, Inc.	Retail
Mercy Health Partners	Health Care
Midland Co./American Modern Insurance	Insurance
Milacron, Inc.	Manufacturing
Milford Exempted Villiage Board of Education	Government
Siemens AG/UGS Corp.	Information
Total Quality Logistics	Transportation
West Clermont Local Board of Education	Government
<b>Hamilton</b>	
American Financial Group, Inc.	Finance
Chiquita Brands International, Inc.	Wholesale
Convergys Corp.	Administrative
Duke Energy Corp.	Utilities
Fifth Third Bancorp	Finance
Ford Motor Co.	Manufacturing
General Electric Co.	Manufacturing
Health Alliance of Greater Cincinnati	Health Care
Johnson & Johnson/Ethicon	Manufacturing
Kroger Co.	Retail
Macy's, Inc.	Retail
Mercy Health Partners	Health Care
Proctor & Gamble Co.	Manufacturing
TriHealth, Inc.	Health Care
University of Cincinnati	Education

## Warren

Aisin Seiki/ADVICS Co., Ltd.	Manufacturing
Blackhawk Automotive Plastics, Inc.	Manufacturing
Cedar Fair/Kings Island	Recreation
Cintas, Corp.	Manufacturing
HJ Heinz/Portion Pac, Inc.	Manufacturing
Luxottica Group SpA	Manufacturing
Macy's, Inc.	Retail
Mason Local Board of Education	Government
Proctor & Gamble Co.	Research
State of Ohio	Government
Sumco Phoenix	Manufacturing
WellPoint, Inc./Anthem	Insurance

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

## Appendix E: Postsecondary Institutions

Name	Type	Address	Telephone	URL
Academy of Court Reporting-Cincinnati	Two-Year	630 Main St, Cincinnati, OH 45202	(513) 723-0551	
Antonelli College	Two-Year	124 E Seventh St, Cincinnati, OH 45202	(513) 241-4338	<a href="http://www.antonellicollege.edu">www.antonellicollege.edu</a>
Art Academy of Cincinnati	Four-Year	1212 Jackson Street, Cincinnati, OH 45202	(513) 562-6262	<a href="http://www.artacademy.edu">www.artacademy.edu</a>
Athenaeum of Ohio	Four-Year	6616 Beechmont Ave, Cincinnati, OH 45230	(513) 231-2223	<a href="http://www.athenaeum.edu">www.athenaeum.edu</a>
Brown Mackie College-Cincinnati	Priv. Bus. & Tech.	1011 Glendale-Milford Rd, Cincinnati, OH 45215	(513) 771-2424	<a href="http://www.brownmackie.edu">www.brownmackie.edu</a>
Butler Tech-D Russel Lee Career Center	Pub. Adult Sch.	3603 Hamilton Middletown Rd, Hamilton, OH 45011	(513) 868-6300	<a href="http://www.butlertech.org">www.butlertech.org</a>
Carousel Beauty College	Two-Year	633 S Breiel Blvd, Middletown, OH 45044	(513) 422-2962	<a href="http://www.carouselbeauty.com">www.carouselbeauty.com</a>
Chatfield College	Two-Year	20918 State Route 251, Saint Martin, OH 45118	(513) 875-3344	<a href="http://www.chatfield.edu">www.chatfield.edu</a>
Christ Hospital School of Nursing	Two-Year	2139 Auburn Avenue, Cincinnati, OH 45219	(513) 585-2498	<a href="http://www.health-alliance.com/">www.health-alliance.com/</a>
Cincinnati Christian University	Four-Year	2700 Glenway Ave, Cincinnati, OH 45204	(513) 244-8100	<a href="http://www.ccuniversity.edu">www.ccuniversity.edu</a>
Cincinnati College of Mortuary Science	Four-Year	645 W North Bend Rd, Cincinnati, OH 45224	(513) 761-2020	<a href="http://www.ccms.edu">www.ccms.edu</a>
Cincinnati State Technical and Community College	Two-Year	3520 Central Parkway, Cincinnati, OH 45223	(513) 569-1500	<a href="http://www.cincinnatiastate.edu">www.cincinnatiastate.edu</a>
College of Art Advertising	Two-Year	4343 Bridgetown Rd, Cincinnati, OH 45211	(513) 574-1010	<a href="http://www.collegeofartadvertising.com">www.collegeofartadvertising.com</a>
College of Mount St. Joseph	Four-Year	5701 Delhi Rd, Cincinnati, OH 45233	(513) 244-4200	<a href="http://www.msjeu">www.msjeu</a>
Eastern Hills Academy of Hair Design	Priv. Bus. & Tech.	7681 Beechmont Ave, Cincinnati, OH 45255	(513) 231-8621	<a href="http://www.schoolsofcosmetology.com">www.schoolsofcosmetology.com</a>
Gods Bible School and College	Four-Year	1810 Young Street, Cincinnati, OH 45202	(513) 721-7944	<a href="http://www.gbs.edu">www.gbs.edu</a>
Good Samaritan College of Nursing & Health Science	Two-Year	375 Dixmyth Ave, Cincinnati, OH 45220	(513) 872-2631	<a href="http://www.gscollege.edu">www.gscollege.edu</a>
Great Oaks Institute of Technology and Career Development	Two-Year	3254 E Kemper Rd, Cincinnati, OH 45246	(513) 771-8925	<a href="http://www.greatoaks.com">www.greatoaks.com</a>
Hebrew Union College-Jewish Institute of Religion	Four-Year	3101 Clifton Ave, Cincinnati, OH 45220	(513) 221-1875	<a href="http://www.huc.edu">www.huc.edu</a>
Institute of Medical-Dental Technology	Priv. Bus. & Tech.	375 Glensprings Dr Ste 201, Cincinnati, OH 45246	(513) 851-8500	<a href="http://imdtcareers.com">imdtcareers.com</a>
International Academy of Hair Design	Two-Year	8419 Colerain Ave, Cincinnati, OH 45239	(513) 741-4777	<a href="http://www.mybeautycareer.com">www.mybeautycareer.com</a>
ITT Technical Institute-Norwood	Two-Year	4750 Wesley Ave, Norwood, OH 45212	(513) 531-8300	<a href="http://www.itt-tech.edu">www.itt-tech.edu</a>
Miami University-Hamilton	Two-Year	1601 University Blvd, Hamilton, OH 45011	(513) 785-3000	<a href="http://www.ham.muohio.edu">www.ham.muohio.edu</a>
Miami University-Middletown	Two-Year	4200 E University Blvd, Middletown, OH 45042	(513) 727-3200	<a href="http://www.mid.muohio.edu">www.mid.muohio.edu</a>
Miami University-Oxford	Four-Year	500 High St, Oxford, OH 45056	(513) 529-1809	<a href="http://www.muohio.edu">www.muohio.edu</a>
Miami-Jacobs Career College-Springboro Branch	Two-Year	875 West Central Ave, Springboro, OH 45066	(937) 746-1830	
Moler Hollywood Beauty Academy	Two-Year	130 E 6th St, Cincinnati, OH 45202	(513) 621-5262	
Moler-Pickens Beauty Academy	Two-Year	5955-S Boymel Dr., Fairfield, OH 45014	(513) 874-5116	
Moore University of Hair Design	Two-Year	7030 Reading Road, Ste. 640, Cincinnati, OH 45237	(513) 531-3100	
Ohio Center for Broadcasting	Priv. Bus. & Tech.	6703 Madison Road, Cincinnati, OH 45227	(513) 271-6060	<a href="http://www.beonair.com">www.beonair.com</a>
Southwestern College	Two-Year	201 E. Second Street, Franklin, OH 45005	(937) 746-6633	<a href="http://www.swcollege.net">www.swcollege.net</a>
Southwestern College	Two-Year	149 Northland Blvd., Cincinnati, OH 45246	(513) 874-0432	<a href="http://www.swcollege.net">www.swcollege.net</a>
Southwestern College of Business	Two-Year	632 Vine St., Suite 200, Cincinnati, OH 45202	(513) 421-3212	<a href="http://www.swcollege.net/c_cincinnati_oh.php">www.swcollege.net/c_cincinnati_oh.php</a>
Temple Baptist College	Four-Year	11965 Kenn Rd, Cincinnati, OH 45240	(513) 851-3800	<a href="http://templebaptistcollege.com">templebaptistcollege.com</a>

## Appendix E: Postsecondary Institutions

Name	Type	Address	Telephone	URL
The Art Institute of Cincinnati	Two-Year	1171 East Kemper Road, Cincinnati, OH 45246	(513) 751-1206	www.theartinstituteofcincinnati.com
The Art Institute of Ohio-Cincinnati	Two-Year	1011 Glendale-Milford Rd, Cincinnati, OH 45215	(513) 771-2821	www.aioc.artinstitutes.edu
Tri State Semi Driver Training Inc	Priv. Bus. & Tech.	6690 Germantown Rd, Middletown, OH 45042	(513) 424-1237	
Union Institute & University	Four-Year	440 E McMillan St, Cincinnati, OH 45206	(800) 486-3116	www.tui.edu
University of Cincinnati-Clermont College	Two-Year	4200 Clermont College Dr, Batavia, OH 45103	(513) 732-5200	www.clc.uc.edu
University of Cincinnati-Main Campus	Four-Year	2624 Clifton Avenue, Cincinnati, OH 45221	(513) 556-6000	www.uc.edu
University of Cincinnati-Raymond Walters College	Two-Year	9555 Plainfield Rd, Blue Ash, OH 45236	(513) 745-5600	www.rwc.uc.edu
University of Phoenix-Cincinnati Campus	Four-Year	9050 Centre Point, Suite 250, West Chester, OH 45069	(513) 772-9600	www.phoenix.edu
US Grant Joint Vocational School	Pub. Adult Sch.	718 West Plane Street, Bethel, OH 45106	(513) 734-6222	www.grantcareer.com
Warren County Career Center	Pub. Adult Sch.	3525 N St Rt 48, Lebanon, OH 45036	(513) 932-5677	www.wccareercenter.com
Western Hills School of Beauty and Hair Design	Two-Year	6490 Glenway, Cincinnati, OH 45211	(513) 574-3818	www.schoolsofcosmetology.com
Xavier University	Four-Year	3800 Victory Parkway, Cincinnati, OH 45207	(513) 745-3000	www.xavier.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 5

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	31	3				17	3			
Natural Resources and Conservation		52	25				49	22		
Architecture and Related Services		156	69				164	86		
Area, Ethnic, Cultural and Gender Studies		45	6				54	8		
Communication, Journalism and Related Programs	2	363	3			3	365	6		
Communications Technologies/Technicians and Support Services	33					29				
Computer and Information Sciences and Support Services	219	129	30			219	104	25		
Personal and Culinary Services	124	49				116	48			
Education	165	809	837	34		133	850	888	37	
Engineering		400	205	50			403	222	56	
Engineering Technologies/Technicians	363	83				338	75			
Foreign Languages, Literatures and Linguistics	19	131	30	5		14	143	16	9	
Family and Consumer Sciences/Human Sciences	39	43	8			37	39	5		
Legal Professions and Studies	58	18			123	87	19			122
English Language and Literature/Letters	7	503	167	9		1	514	210	7	
Liberal Arts and Sciences, General Studies and Humanities	327	285	3			341	293	4		
Library Science	6					5				
Biological and Biomedical Sciences	8	407	43	34		4	381	49	42	
Mathematics and Statistics		46	46	4			49	45	1	
Multi/Interdisciplinary Studies	4	73	106	146		2	71	81	58	
Parks, Recreation, Leisure and Fitness Studies	4	160	54			9	171	64		
Philosophy and Religious Studies		42	22	3			64	25	7	
Theology and Religious Vocations	9	133	88		24	10	97	42		24
Physical Sciences	2	104	28	36		2	108	33	24	
Science Technologies/Technicians	28	7				25	6			
Psychology	3	487	121	61		4	394	146	48	
Security and Protective Services	94	341	93	7		107	357	188		
Public Administration and Social Service Professions	25	122	81			28	104	78		
Social Sciences	11	666	46	11		14	659	51	10	
Mechanic and Repair Technologies/Trades						9				
Transportation and Materials Moving	5					5				
Visual and Performing Arts	183	484	201	26		193	520	208	29	
Health Professions and Related Clinical Sciences	719	436	253	27	211	722	526	286	46	233
Business, Management, Marketing and Related Support Services	560	2,283	651	5		550	2,121	713	9	
History		215	21	4			222	21	4	
<b>Total, All Programs</b>	<b>3,048</b>	<b>9,075</b>	<b>3,237</b>	<b>462</b>	<b>358</b>	<b>3,024</b>	<b>8,973</b>	<b>3,522</b>	<b>387</b>	<b>379</b>

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

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

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State of Ohio  
Department of Job and Family Services  
Office of Workforce Development  
Bureau of Labor Market Information

Ted Strickland, Governor  
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