

Population by Race	Number	Percent
Total Population	1,335,717	100.0%
White	1,192,629	89.3%
African-American	105,407	7.9%
Native American	2,544	0.2%
Asian	12,622	0.9%
Pacific Islander	250	0.0%
Other	3,918	0.3%
Two or More Races	18,347	1.4%
Hispanic (may be of any race)	11,252	0.8%
Total Minority	149,902	11.2%

Educational Attainment	Number	Percent
Persons 25 years and over	878,647	100.0%
No high school diploma	132,078	15.0%
High school graduate	328,980	37.4%
Some college, no degree	178,177	20.3%
Associate degree	46,618	5.3%
Bachelor's degree	129,580	14.7%
Master's degree or higher	63,214	7.2%

Family Type by Employment Status	Number	Percent
Total Families	359,636	100.0%
Married couple, husband and wife in labor force	156,426	43.5%
Married couple, husband in labor force, wife not	63,070	17.5%
Married couple, wife in labor force, husband not	17,178	4.8%
Married couple, husband and wife not in labor force	48,740	13.6%
Male householder, in labor force	14,631	4.1%
Male householder, not in labor force	3,856	1.1%
Female householder, in labor force	37,858	10.5%
Female householder, not in labor force	17,877	5.0%

Household Income in 1999	Number	Percent
Total Households	517,627	100.0%
Less than \$10,000	40,347	7.8%
\$10,000 to \$19,999	62,889	12.1%
\$20,000 to \$29,999	68,350	13.2%
\$30,000 to \$39,999	67,532	13.0%
\$40,000 to \$49,999	58,763	11.4%
\$50,000 to \$59,999	51,770	10.0%
\$60,000 to \$74,999	58,872	11.4%
\$75,000 to \$99,999	54,953	10.6%
\$100,000 to \$149,999	35,919	6.9%
\$150,000 to \$199,999	8,802	1.7%
\$200,000 or more	9,430	1.8%
Median household income	\$43,227	

Population by Age	Number	Percent
Total Population	1,335,717	100.0%
Under 6 years	105,411	7.9%
6 to 17 years	232,452	17.4%
18 to 24 years	119,207	8.9%
25 to 44 years	387,757	29.0%
45 to 64 years	310,711	23.3%
65 years and more	180,179	13.5%
Median Age	36.9	

Family Type by Presence of Own Children Under 18	Number	Percent
Total Families	359,636	100.0%
Married-couple families with own children	126,008	35.0%
Male householder, no wife present, with own children	9,792	2.7%
Female householder, no husband present, with own children	32,477	9.0%
Families with no own children	191,359	53.2%

Poverty Status in 1999 of Families By Family Type by Presence Of Related Children	Number	Percent
Total Families	359,636	100.0%
Family income above poverty level	336,338	93.5%
Family income below poverty level	23,298	6.5%
Married couple, with related children	4,157	17.8%
Male householder, no wife present, with related children	1,424	6.1%
Female householder, no husband present, with related children	13,112	56.3%
Families with no related children	4,605	19.8%

Ratio of Income in 1999 To Poverty Level	Number	Percent
Population for whom poverty status is determined	1,303,873	100.0%
Below 50% of poverty level	52,077	4.0%
50% to 99% of poverty level	63,721	4.9%
100% to 149% of poverty level	87,381	6.7%
150% to 199% of poverty level	105,812	8.1%
200% of poverty level or more	994,882	76.3%

Residence in 1995	Number	Percent
Population 5 years and over	1,248,047	100.0%
Same house in 1995	741,014	59.4%
Different house, same county	308,047	24.7%
Different county, same state	130,033	10.4%
Different state	58,863	4.7%
Puerto Rico or U.S. islands	261	0.0%
Foreign country	9,829	0.8%

Travel Time To Work

	Number	Percent
Workers 16 years and over	644,706	100.0%
Less than 15 minutes	202,798	31.5%
15 to 29 minutes	248,851	38.6%
30 to 44 minutes	106,918	16.6%
45 to 59 minutes	38,312	5.9%
60 minutes or more	29,532	4.6%
Worked at home	18,295	2.8%

Mean travel time **22.7 minutes**

Housing Units

	Number	Percent
Total housing units	547,117	100.0%
Occupied housing units	517,540	94.6%
Owner occupied	374,573	68.5%
Renter occupied	142,967	26.1%
Vacant housing units	29,577	5.4%

Year Structure Built

	Number	Percent
Total housing units	547,117	100.0%
Built 1995 to March 2000	44,407	8.1%
Built 1990 to 1994	32,843	6.0%
Built 1980 to 1989	49,391	9.0%
Built 1970 to 1979	91,148	16.7%
Built 1960 to 1969	77,911	14.2%
Built 1950 to 1959	86,798	15.9%
Built 1940 to 1949	48,714	8.9%
Built 1939 or earlier	115,905	21.2%

Median year built **1967**

Value for Specified Owner-Occupied Housing Units

	Number	Percent
Specified owner-occupied housing units	332,992	100.0%
Less than \$20,000	2,530	0.8%
\$20,000 to \$39,999	9,047	2.7%
\$40,000 to \$59,999	23,316	7.0%
\$60,000 to \$79,999	43,863	13.2%
\$80,000 to \$99,999	58,742	17.6%
\$100,000 to \$124,999	55,741	16.7%
\$125,000 to \$149,999	48,465	14.6%
\$150,000 to \$199,999	49,197	14.8%
\$200,000 to \$249,999	20,062	6.0%
\$250,000 to \$499,999	19,502	5.9%
\$500,000 to \$999,999	2,161	0.6%
\$1,000,000 or more	366	0.1%

Median value **\$105,202**

House Heating Fuel

	Number	Percent
Occupied housing units	517,540	100.0%
Utility gas	412,786	79.8%
Bottled, tank or LP gas	15,050	2.9%
Electricity	56,715	11.0%
Fuel oil, kerosene, etc	24,499	4.7%
Coal, coke or wood	3,871	0.7%
Solar energy or other fuel	3,659	0.7%
No fuel used	960	0.2%

Gross Rent

	Number	Percent
Specified renter-occupied housing units	140,943	100.0%
Less than \$100	2,610	1.9%
\$100 to \$199	7,903	5.6%
\$200 to \$299	7,964	5.7%
\$300 to \$399	15,158	10.8%
\$400 to \$499	26,409	18.7%
\$500 to \$599	26,148	18.6%
\$600 to \$699	20,004	14.2%
\$700 to \$799	13,177	9.3%
\$800 to \$899	6,736	4.8%
\$900 to \$999	3,220	2.3%
\$1,000 to \$1,499	3,967	2.8%
\$1,500 or more	1,270	0.9%
No cash rent	6,377	4.5%

Median gross rent **\$527**

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	232,170	100.0%
Less than \$400	6,344	2.7%
\$400 to \$599	25,201	10.9%
\$600 to \$799	44,166	19.0%
\$800 to \$999	46,599	20.1%
\$1,000 to \$1,249	43,054	18.5%
\$1,250 to \$1,499	27,281	11.8%
\$1,500 to \$1,999	25,130	10.8%
\$2,000 to \$2,999	11,397	4.9%
\$3,000 or more	2,998	1.3%

Median monthly owners cost **\$972**

Median monthly owners cost as a percentage of household income

Vital Statistics

	Number	Rate
Births / rate per 1,000 women aged 15-44	16,301	58.5
Teen births / rate per 1,000 females 15-17	419	14.7
Deaths / rate per 100,000 population	12,699	931.3
Marriages / rate per 1,000 population	8,092	5.9
Divorces / rate per 1,000 population	4,721	3.5

Migration

Agriculture

Land in farms (acres)	632,000
Number of farms	5,620
Average size (acres)	112
Total cash receipts	\$377,638,000
Per farm	\$66,839

Education

Public schools	466
Students (Average Daily Membership)	218,675
Expenditures per student	\$8,912
Student-teacher ratio	
Graduation rate	
Teachers (Full Time Equivalent)	13,286.0
Non-public schools	92
Students	20,423
4-year public universities	2
Branches	3
2-year public colleges	2
Private universities and colleges	5
Public libraries (Main / Branches)	21 / 47

Transportation

Registered motor vehicles	1,423,950
Passenger cars	993,403
Noncommercial trucks	183,293
Total license revenue	\$37,260,444.44
Interstate highway miles	204.94
Turnpike miles	33.96
U.S. highway miles	198.88
State highway miles	970.43
Commercial airports	14

Voting

Number of precincts	1,215
Number of registered voters	940,063
Voted in 2006 election	513,360
Percent turnout	54.6%

Health Care

Physicians (MDs & DOs)	3,077
Registered hospitals	23
Number of beds	5,557
Licensed nursing homes	109
Number of beds	10,766
Licensed residential care	73
Number of beds	5,148
Adults with employer-based insurance	64.1%
Children with employer-based insurance	66.9%

State Parks, Forests, Nature Preserves, And Wildlife Areas

Facilities	30
Acreage	14,954.04

Communications

Television stations	7
Radio stations	26
Daily newspapers	8
Circulation	311,200

Crime

Total crimes reported in Uniform Crime Report	42,590
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Finance

FDIC insured financial institutions (HQs)	18
Assets	\$13,423,678,000
Branch offices	462
Institutions represented	39

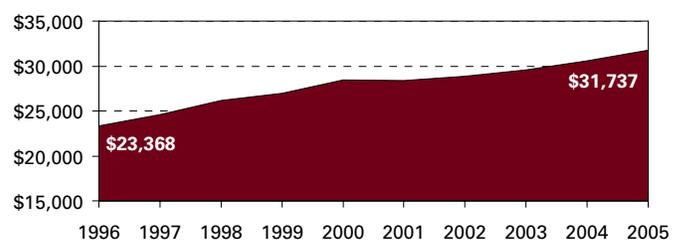
Transfer Payments

Total transfer payments	\$7,198,689,000
Payments to individuals	\$6,831,059,000
Retirement and disability	\$2,992,675,000
Medical payments	\$2,913,554,000
Income maintenance (Supplemental SSI, family assistance, food stamps, etc)	\$592,719,000
Unemployment benefits	\$136,770,000
Veterans benefits	\$109,567,000
Federal education and training assistance	\$82,892,000
Other payments to individuals	\$2,882,000
Total personal income	\$43,230,912,000
Dependency ratio	16.7%

Federal Expenditures

Direct expenditures or obligations	\$7,001,889,315
Retirement and disability	\$3,024,517,196
Other direct payments	\$1,684,143,455
Grant awards	\$1,250,618,829
Highway planning and construction	\$71,993,210
Temporary assistance to needy families	\$88,954,543
Medical assistance program	\$651,015,928
Procurement contract awards	\$716,168,721
Dept. of Defense	\$564,621,230
Salary and wages	\$326,441,114
Dept. of Defense	\$39,204,000
Other federal assistance	\$1,189,700,038
Direct loans	\$353,164,671
Guaranteed loans	\$549,483,133
Insurance	\$287,052,234

Per Capita Personal Income



Civilian Labor Force

	2002	2003	2004	2005	2006
Civilian labor force	706,600	711,900	716,300	723,200	726,800
Employed	667,000	668,700	673,700	682,000	688,300
Unemployed	39,600	43,100	42,600	41,200	38,500
Unemployment rate	5.6	6.1	5.9	5.7	5.3

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	584,903	592,893	\$19,996,473	\$20,794,879
Private Sector	511,424	520,348	\$17,285,015	\$18,042,344
Agriculture, forestry, fishing and hunting	1,216	1,151	\$27,663	\$27,630
Mining	1,246	1,254	\$65,567	\$63,035
Utilities	2,895	2,803	\$201,066	\$223,064
Construction	28,487	28,598	\$1,061,724	\$1,090,260
Manufacturing	103,092	102,853	\$4,631,154	\$4,702,438
Wholesale trade	27,040	28,423	\$1,256,241	\$1,394,439
Retail trade	73,563	73,538	\$1,696,780	\$1,660,456
Transportation and warehousing	9,888	12,187	\$395,886	\$501,576
Information	7,490	7,324	\$311,292	\$310,020
Finance and insurance	18,687	18,680	\$817,956	\$826,687
Real estate and rental and leasing	6,011	6,142	\$157,309	\$165,756
Professional and technical services	20,092	20,641	\$894,537	\$951,492
Management of companies and enterprises	16,335	17,649	\$1,106,412	\$1,347,790
Administrative and waste services	32,510	33,616	\$748,329	\$740,547
Educational services	7,442	7,563	\$171,039	\$178,216
Health care and social assistance	68,963	71,110	\$2,382,862	\$2,503,000
Arts, entertainment, and recreation	8,694	8,420	\$130,209	\$124,672
Accommodation and food services	47,976	48,988	\$516,343	\$531,711
Other services, except public administration	19,576	19,731	\$388,109	\$393,286
State and Local Government	73,480	72,546	\$2,711,457	\$2,752,536
State government	11,468	11,476	\$505,817	\$538,338
Local government	62,012	61,070	\$2,205,639	\$2,214,198
Federal Government	4,579	4,353	\$224,506	\$217,847

-1 or \$0 indicates suppression for confidentiality

Business Numbers

	2002	2003	2004	2005	2006
Business starts	2,923	3,460	2,784	2,837	3,043
Active businesses	28,232	28,718	28,928	29,153	29,254

Residential

Construction

	2002	2003	2004	2005	2006
Total units	6,150	6,653	6,562	5,783	4,733
Total valuation (000)	\$955,596	\$1,053,743	\$1,078,962	\$1,023,935	\$802,604
Total single-unit bldgs	5,219	5,987	5,682	5,091	3,881
Average cost per unit	\$171,338	\$170,016	\$181,859	\$192,096	\$195,935
Total multi-unit bldg units	931	666	880	692	852
Average cost per unit	\$65,934	\$53,839	\$51,863	\$66,437	\$49,510

Major Employers

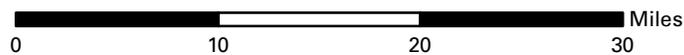
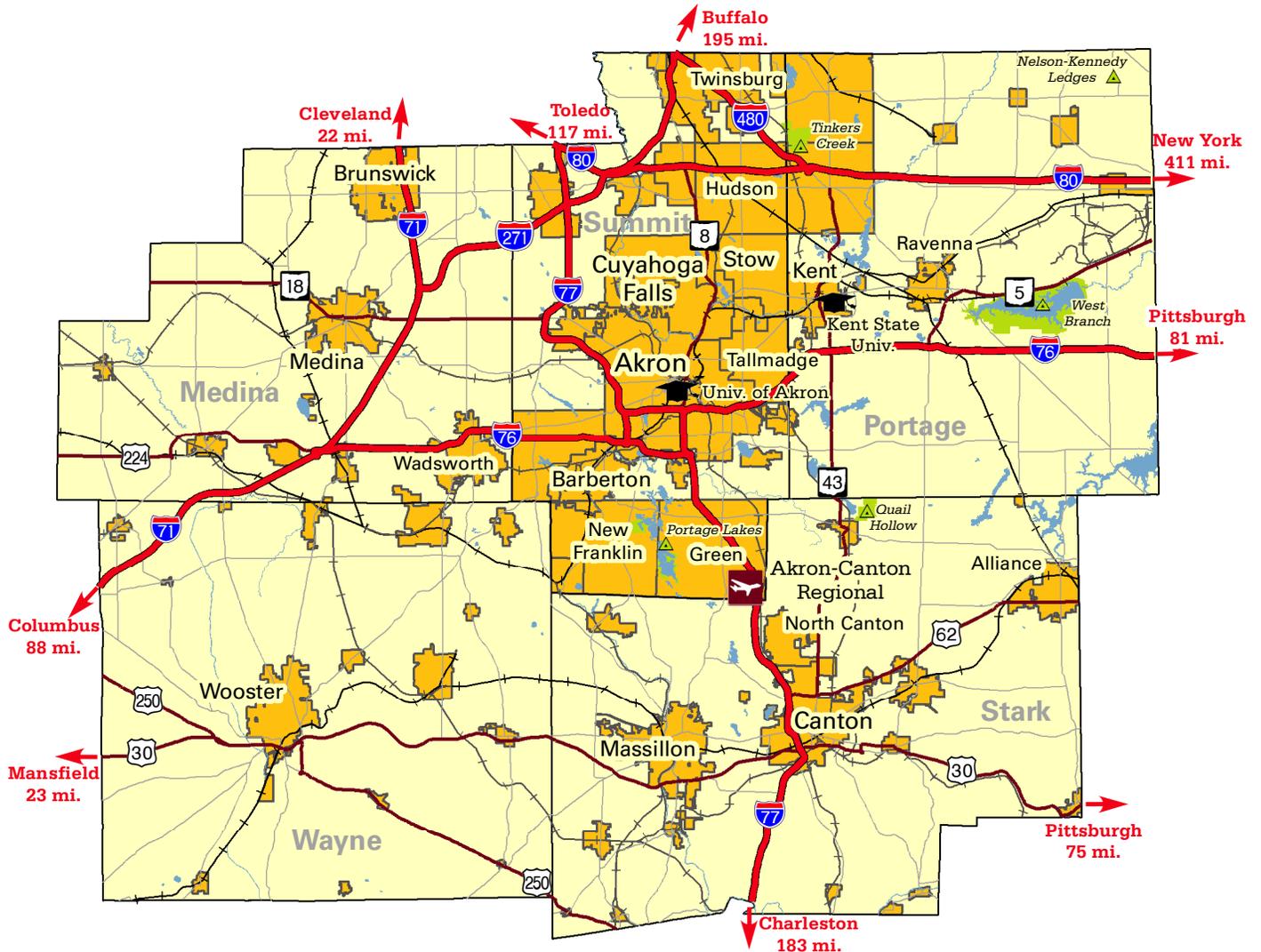
Chrysler LLC	Mfg
Diebold Inc	Mfg
FirstEnergy Corp	Utility
General Electric Co	Fin
Goodyear Tire & Rubber Co	Mfg
JM Smucker Co	Mfg
Kent State University	Govt
McDermott Int'l/Babcock & Wilcox	Mfg
MTD Products Inc	Mfg
Precision Castparts Corp	Mfg
Republic Engineered Products	Mfg
Timken Co	Mfg
University of Akron	Govt
Worthington Ind/Gerstenslager Co	Mfg

Region 9

Northeast Central Ohio



Department of
Development



Ocasek Government Office Building
161 S. High St., Room 404
Akron, OH 44308-1615
Phone: (330) 643-3392
Fax: (330) 643-3391

Population (2006): 1,364,821
Area: 2,458.4 sq. mi.

2007 Ohio Private Investment List

Region	County	Company	City	NAICS	Product	Type	Jobs	Investment	Square Feet	New	Exp
9	Medina	Schipper Group	Medina Twp	23311	Spec of - Waterford	SO		\$3,000,000	35,000	New	
9	Medina	Columbia Chemical Corp	Brunswick	325188	Zinc chloride	HQ/MF		\$4,000,000	36,000	New	
9	Medina	Cornwell Quality Tools	Wadsworth	42312	Motor vehicle supplies	DW	5	\$1,100,000	10,000		Exp
9	Medina	H&S Tool	Wadsworth	333515	Machine tools	MF	15	\$1,005,000	12,800		Exp
9	Medina	Foundations Children's Products	Sharon Twp	337122	Children's furniture	DW		\$3,700,000	63,000	New	
9	Medina	Sandridge Food Co	Medina	311991	Salad	MF	30	\$8,200,000	26,000		Exp
9	Medina	Woodbine Products	Medina	32562	Hand cleaners	MF		\$1,000,000	21,200		Exp
9	Medina	Aqua Paradise Waterpark	Lodi	72111	hotel/park	HO		\$100,000,000		New	
9	Medina	Wellman Products	Medina	335991	Fuel cell parts	MF	5	\$1,600,000			Exp
9	Portage	Comfort Inn & Suites	Brimfield Twp	72111	Hotel	HO		\$5,000,000	66,000	New	
9	Portage	Delta Systems	Streetsboro	334413	Motor parts	MF	52	\$7,950,000			Exp
9	Portage	Reduction Engineering Inc	Tallmadge	33322	Molding machines	HQ/MF	25	\$6,000,000	92,000		Exp
9	Portage	TCP Inc	Aurora	42631	Lighting products	HQ		\$9,000,000	154,000	New	
9	Portage	Cambria Manufacturing	Kent	327999	Natural quartz countertops	MF		\$4,000,000	75,000	New	
9	Portage	Value Place Hotel	Brimfield Twp	72111	Hotel	HO		\$4,000,000	43,000	New	
9	Portage	Allen Aircraft	Ravenna	336413	Aircraft parts	MF	47	\$3,000,000	25,000		Exp
9	Portage	PartsSource LLC	Aurora	42345	Healthcare equipment	DW	150	\$2,700,000	125,000	New	
9	Portage	Kent Display	Kent	33431	Lobby displays	MF	10	\$2,000,000			Exp
9	Stark	Timken Co	Canton	331111	Steel	MF	30	\$60,000,000	76,000		Exp
9	Stark	Kenan Advantage Group	Jackson Twp	484121	Petroleum products	DW	65	\$1,800,000		New	
9	Stark	Kraft Power Co	Massillon	42383	Power generators	DW		\$3,300,000	30,000	New	
9	Stark	Coastal Pet Products	Alliance	316999	Pet products	OF		\$1,000,000	9,000		Exp
9	Stark	Hampton Inn	North Canton	72111	Hotel	HO		\$9,000,000	74,000	New	
9	Stark	Republic Engineered Products	Canton	331111	Steel bar	MF		\$12,500,000			Exp
9	Stark	FedEx Ground	Massillon	484121	Package delivery	DW		\$5,000,000	77,000	New	
9	Stark	Marathon Petroleum Co	Canton	32411	Petroleum	MF		\$2,000,000	1,120		Exp
9	Stark	Shearer's Foods Inc	Navarre	311919	Snack food	MF		\$1,500,000			Exp
9	Stark	PatentHealth Inc	Massillon	42421	Nutritional supplements	DW	500	\$5,600,000	90,000	New	
9	Stark	OKS-Ameridial Inc	Canton	561422	Call center	CC	200	\$480,000	12,000	New	
9	Summit	Amerimulch	Twinsburg	321999	Mulch	MF		\$1,000,000			Exp
9	Summit	Ferriot Inc	Akron	326199	Plastic siding	MF	50	\$49,000,000			Exp
9	Summit	InfoCision Management	Green	561422	Call center	CC	75	\$700,000	12,000		Exp
9	Summit	ProQuip Inc	Macedonia	333298	Chemical processing machinery	MF		\$1,500,000	5,000		Exp
9	Summit	Signet Enterprises	Akron	44831	Jewelry	HQ/F			100,000	New	
9	Summit	Specialty Metal Processing	Hudson	332819	Metal processing	MF	33	\$2,000,000			Exp
9	Summit	SpineMatrix Inc	Akron	339112	Medical equipment	MF	76	\$1,200,000		New	
9	Summit	Universal Tire Molds	Springfield Twp	333511	Tire molds	MF	71	\$4,500,000	45,000	New	
9	Summit	Value Place Hotel	Green	72111	Hotel	HO		\$3,500,000	43,000	New	
9	Summit	Barberton Citizens Hospital	Barberton	62211	Cancer center	Health		\$11,000,000	22,000		Exp
9	Summit	Cleveland Clinic	Twinsburg	621111	Clinic	Health			46,000	New	
9	Summit	EPD Inc	Fairlawn	31332	Rubber products	HQ/R&D	70	\$4,900,000	22,000		Exp
9	Summit	FirstEnergy Corp	Akron	221111	Utility Operations center	OF	150	\$28,000,000	200,000	New	

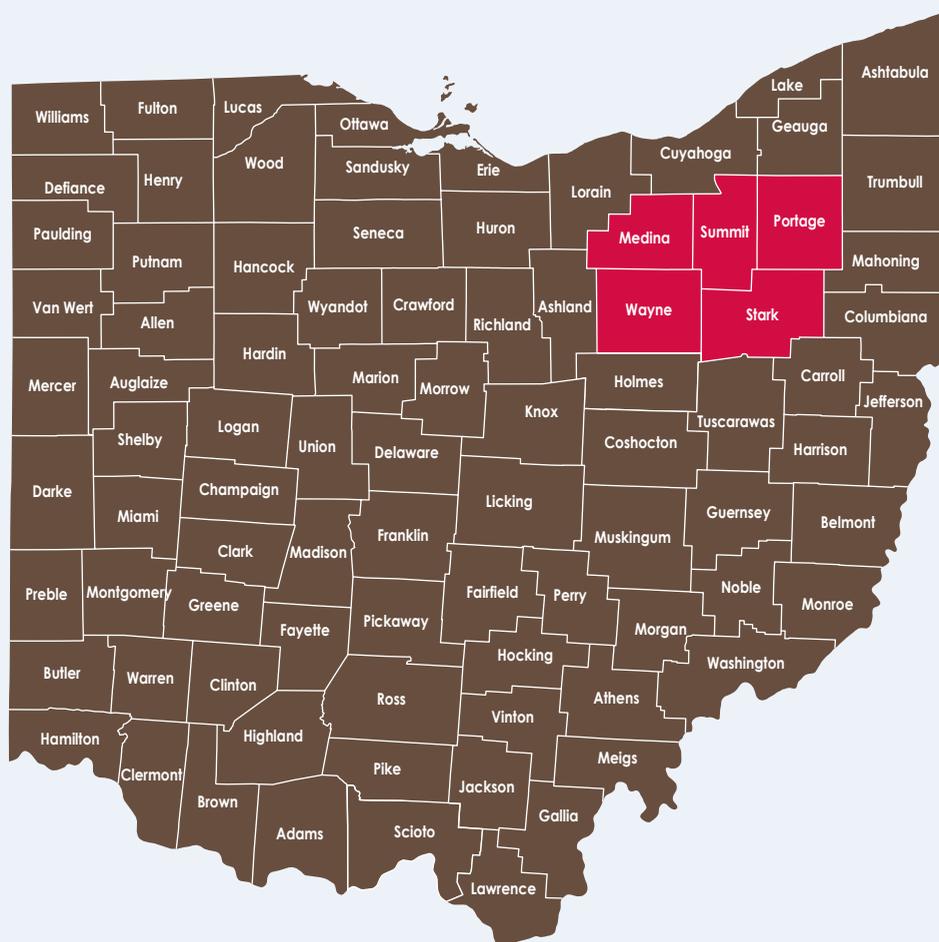
2007 Ohio Private Investment List

Region	County	Company	City	NAICS	Product	Type	Jobs	Investment	Square Feet	New	Exp
9	Summit	Industrial Works Management	Macedonia	23311	Spec dist	SW			152,000	New	
9	Summit	Industrial Works Management	Macedonia	23311	Spec of	SO			28,000	New	
9	Summit	OrthoHelix Surgical Designs	Akron	339113	Medical implants	R&D	13	\$1,500,000			Exp
9	Summit	Saehwa Machinery Co	Akron	333511	Tire molds	MF/F	70	\$2,000,000			Exp
9	Summit	Printing Concepts Inc	Stow	32311	Printing	MF		\$1,500,000	19,800		Exp
9	Summit	Switchback Group	Richfield	333291	Packaging equipment	MF	5	\$1,500,000	20,000	New	
9	Summit	Risk International	Fairlawn	52421	Insurance	OF		\$1,500,000	19,200	New	
9	Summit	Industrial Tool & Machine	Cuyahoga Falls	33271	Machine shop	MF	5	\$1,070,000			Exp
9	Summit	Veyance Technologies	Fairlawn	326299	Rubber products	HQ/R&D	70	\$4,900,000	10,000	New	
9	Summit	Goodyear Tire & Rubber Co	Akron	326211	Tires	HQ		\$890,000,000			Exp
9	Summit	BDC Management Group	Richfield	561421	Call center	CC	200	\$426,000		New	
9	Summit	Suavelly Building Co	Twinsburg	23311	Spec of - 921 Canyon Falls	SO		\$1,500,000	24,000	New	
9	Summit	Pilot Plastics	Cuyahoga Falls	326199	Molded plastics	DW		\$3,000,000	83,000		Exp
9	Summit	DermaMed Coatings Co	Tallmadge	339113	Medical tape	MF	25	\$4,500,000	40,000	New	
9	Summit	Therics LLC	Akron	339113	Synthetic bone	MF	5	\$2,150,000		New	
9	Summit	Quick Clinic	Fairlawn	621111	Medical office	Health	25	\$2,000,000			Exp
9	Summit	PPG	Barberton	325998	Chemicals	MF	10	\$25,000,000	55,000		Exp
9	Summit	Spunfab	Akron	313221	Fiber products	MF	10	\$6,000,000	51,000		Exp
9	Summit	Frontier Steel Co	Tallmadge	42351	Steel	DW	30	\$1,150,000	38,000	New	
9	Summit	InfoCision Management	Fairlawn	561422	Telemarketing services	HQ/CC	400	\$21,000,000	160,000		Exp
9	Summit	Reiter Dairy	Barberton	42443	Dairy products	DW		\$3,000,000	13,000		Exp
9	Summit	Polymer Machinery	Tallmadge	42383	Rubber working machinery	DW		\$1,500,000	12,000		Exp
9	Summit	Alpha Technologies	Akron	Akron	Process control instruments	MF	10	\$2,000,000	35,000		Exp
9	Wayne	JM Smucker	Orrville	311421	Food products	OF		\$8,200,000	58,600		Exp
9	Wayne	Morton Salt	Rittman	325999	Salt	MF		\$4,200,000	35,000		Exp
9	Wayne	Bosch Rexroth AG	Wooster	333996	Pumps	R&D/F		\$1,900,000	22,500		Exp
9	Wayne	Johnson Brothers Rubber Co	West Salem	326291	Rubber products	MF		\$1,400,000			Exp
Region 9	Totals			69			2,537	\$1,369,631,000	2,524,220		

Workforce Analysis

Northeast Central Ohio

Economic Development Region 9



*Medina, Portage, Stark, Summit
and Wayne Counties*

Workforce Analysis
Economic Development Region 9



October
2007

Workforce Analysis Economic Development Region 9 Northeast Central Ohio

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Executive Summary

- This EDR contains portions of three different metropolitan areas: the Cleveland-Elyria-Mentor MSA, the Akron MSA and the Canton-Massillon MSA.
- About 8,800 workers in net commute into the region to work.
- Total population in 2006 was about 1.4 million, an increase of 4.7 percent from 1995.
- Nonfarm payroll employment was 595,000 in 2006, having recovered nearly all the jobs lost after 2000.
- The 2006 unemployment rate was 5.3 percent, down 0.8 percentage point from the last peak in 2003.
- Per capita income was \$31,737 in 2005, a 3.5 percent annual compound rate of growth from 1995.
- Approximately 4,700 residential building permits were granted in 2006, over one thousand less than the prior year as construction activity declined nationwide. The average valuation of permits in this region has generally been higher than statewide.
- Total employment is projected to grow 7.5 percent from 2004-2014. The fastest-growing industries will be education and health services; administrative and waste services; professional, scientific and technical services; and management of companies and enterprises.
- The fastest-growing occupational groups with at least 3,000 new jobs expected are healthcare; food preparation and serving; business and financial operations; education, training and library; and construction and extraction occupations.
- This region has a slightly higher level of overall educational attainment than the rest of the state.
- There are 37 postsecondary training providers in Northeast Central Ohio offering over 1,800 different programs. Over 15,500 certificates and degrees were awarded in 2006.
- The most important workplace skills through 2014 will be reading comprehension, active listening, speaking, critical thinking and coordination.

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.¹ 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.

There are portions of three different MSAs in EDR 9: Medina County in the Cleveland-Elyria-Mentor MSA, Summit and Portage Counties comprise the Akron MSA, and Stark County in the Canton-Massillon MSA. Not surprisingly, there is a large amount of commuting in this region as workers travel between counties to work. Summit County, which contains the central city of the Akron MSA, is the only county in this region with a positive net flow of commuters. In total, about 8,800 people in net commute into the region to work. This total excludes commuting between counties within the region.

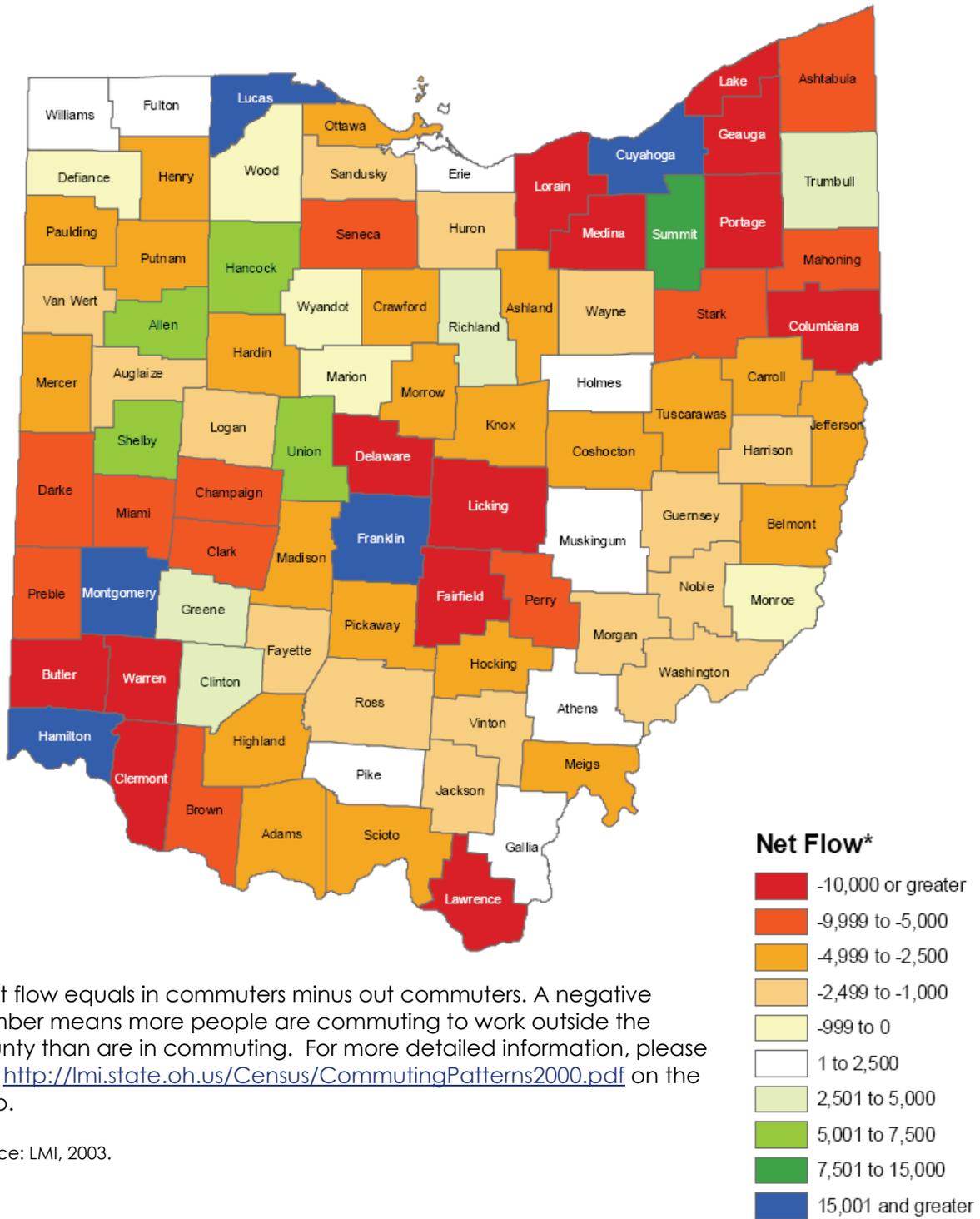
Figure 1: Regional Commuting Patterns

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
Medina	55,311	19,627	35.5%	76,548	40,864	53.4%	-21,237	-35.1%
Portage	60,123	20,772	34.5%	78,023	38,672	49.6%	-17,900	-30.1%
Stark	171,642	31,105	18.1%	177,234	36,697	20.7%	-5,592	-8.2%
Summit	270,431	76,719	28.4%	258,414	64,702	25.0%	12,017	8.5%
Wayne	52,259	12,520	24.0%	54,487	14,748	27.1%	-2,228	-8.2%
Northeast Central Ohio	609,766	50,587	8.3%	644,706	41,815	6.5%	8,772	9.5%

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.

¹ Goldstein, 2005 (p. 1).

Figure 2: Net Flow of Ohio Commuters



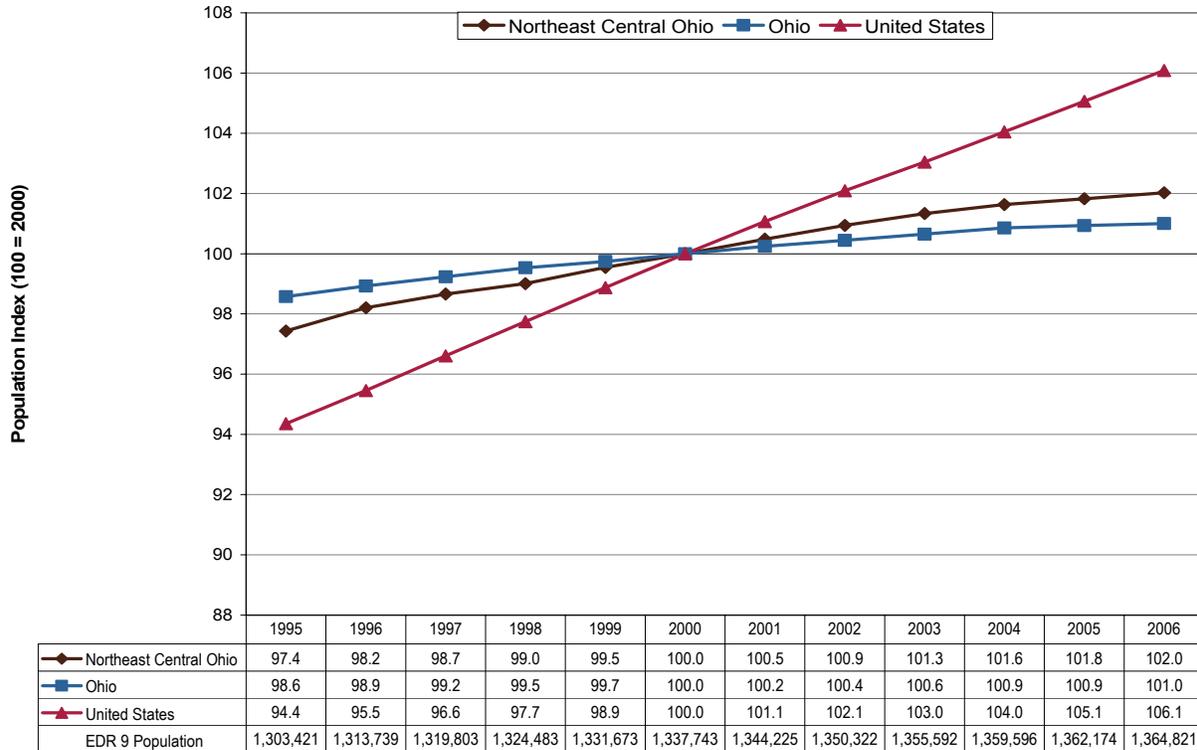
*Net flow equals in commuters minus out commuters. A negative number means more people are commuting to work outside the county than are in commuting. For more detailed information, please visit <http://lmi.state.oh.us/Census/CommutingPatterns2000.pdf> on the web.

Source: LMI, 2003.

II. Economic Indicators

Population Trends. Combined regional population was approximately 1.4 million residents in 2006, an increase of 4.7 percent from 1995. The index shown in Figure 3 below indicates the population in Northeast Central Ohio has grown slightly faster than the statewide population. Ohio grew 2.5 percent during this period, while the United States grew 12.4 percent.

Figure 3: Population Trends, 1995-2006



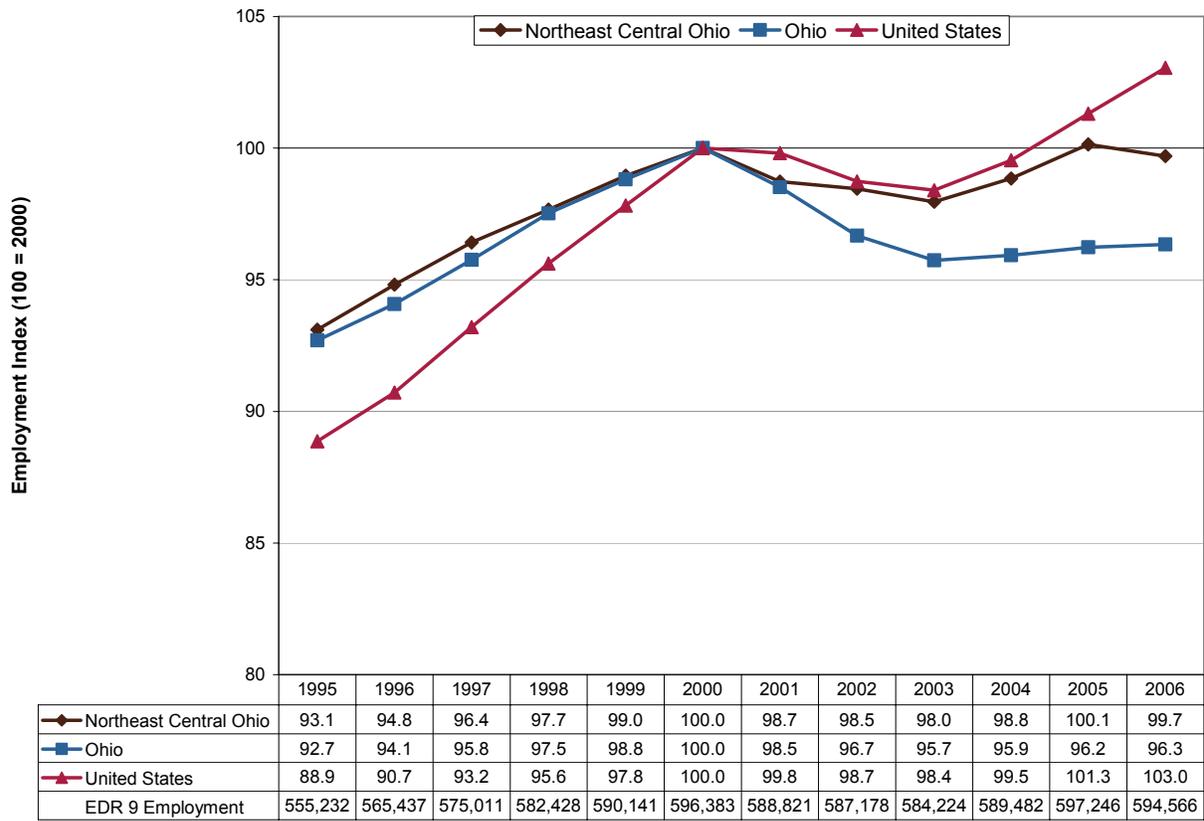
Demographic Traits. Population estimates for 2006, shown in Figure 4 below, reveal differences between this EDR and the rest of the state and nation. While the demographic profiles are highly similar, Northeast Central Ohio is slightly older than the rest of the state. People 55 and older make up 25.1 percent of the region, compared with 24.3 percent statewide.

Figure 4: Demographic Characteristics, 2006

	United States		Ohio		Northeast Central Ohio	
Total	299,238,484	100.0%	11,478,006	100.0%	1,364,821	100.0%
Under 5	20,417,636	6.8%	734,735	6.4%	81,641	6.0%
5 to 14	40,337,284	13.5%	1,534,571	13.4%	181,428	13.3%
15 to 24	42,435,426	14.2%	1,597,458	13.9%	188,763	13.8%
25 to 34	40,415,979	13.5%	1,459,394	12.7%	166,260	12.2%
35 to 44	43,666,950	14.6%	1,621,662	14.1%	192,350	14.1%
45 to 54	43,278,174	14.5%	1,738,480	15.1%	212,340	15.6%
55 to 64	31,586,683	10.6%	1,259,712	11.0%	156,417	11.5%
65 and older	37,260,352	12.5%	1,531,994	13.3%	185,622	13.6%

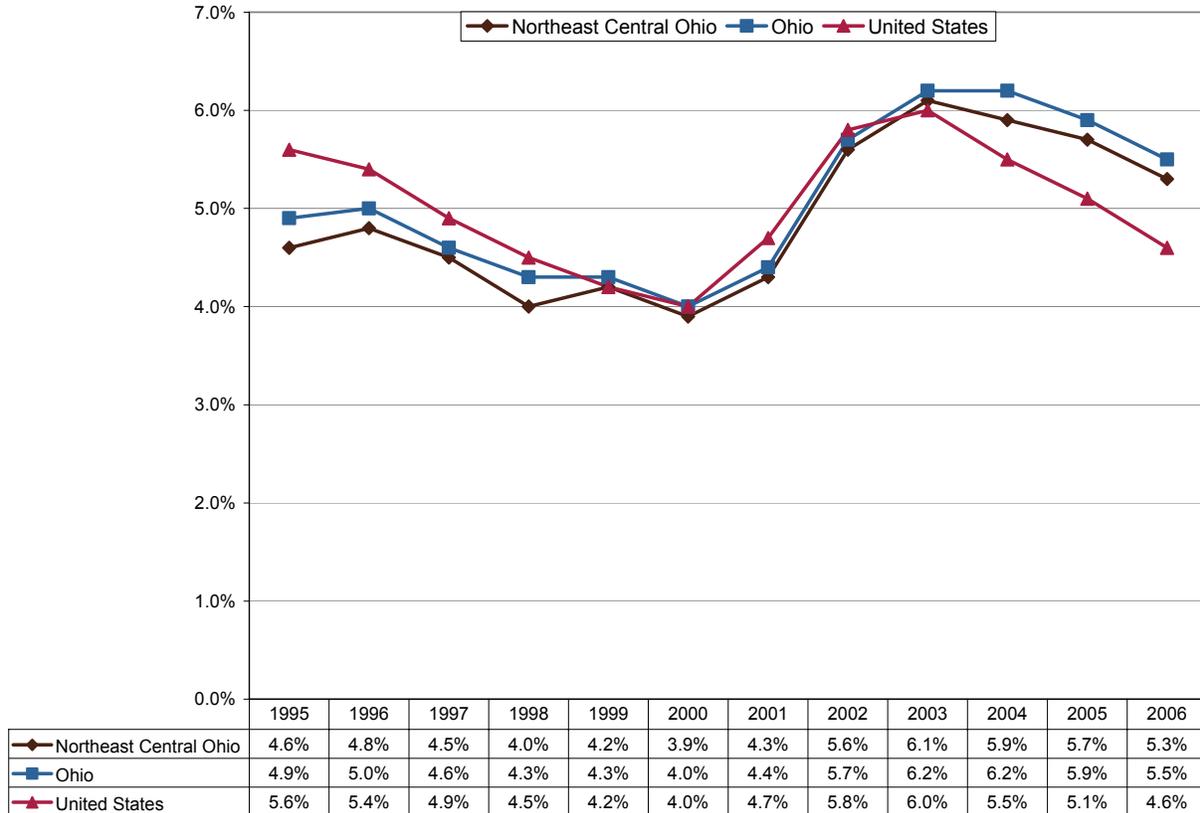
Employment Trends. In 2006, total nonfarm payroll employment in Northeast Central Ohio was about 595,000. This region was not as severely impacted by the 2001 recession as other portions of Ohio, and had recovered by 2005 to a 0.1 percent increase from 2000. However, employment declined slightly in 2006, shedding approximately 2,700 jobs. For comparison, Ohio employment has fallen 5.0 percent while national employment rose 3.0 percent since 2000.

Figure 5: Nonfarm Employment Trends, 1995-2006



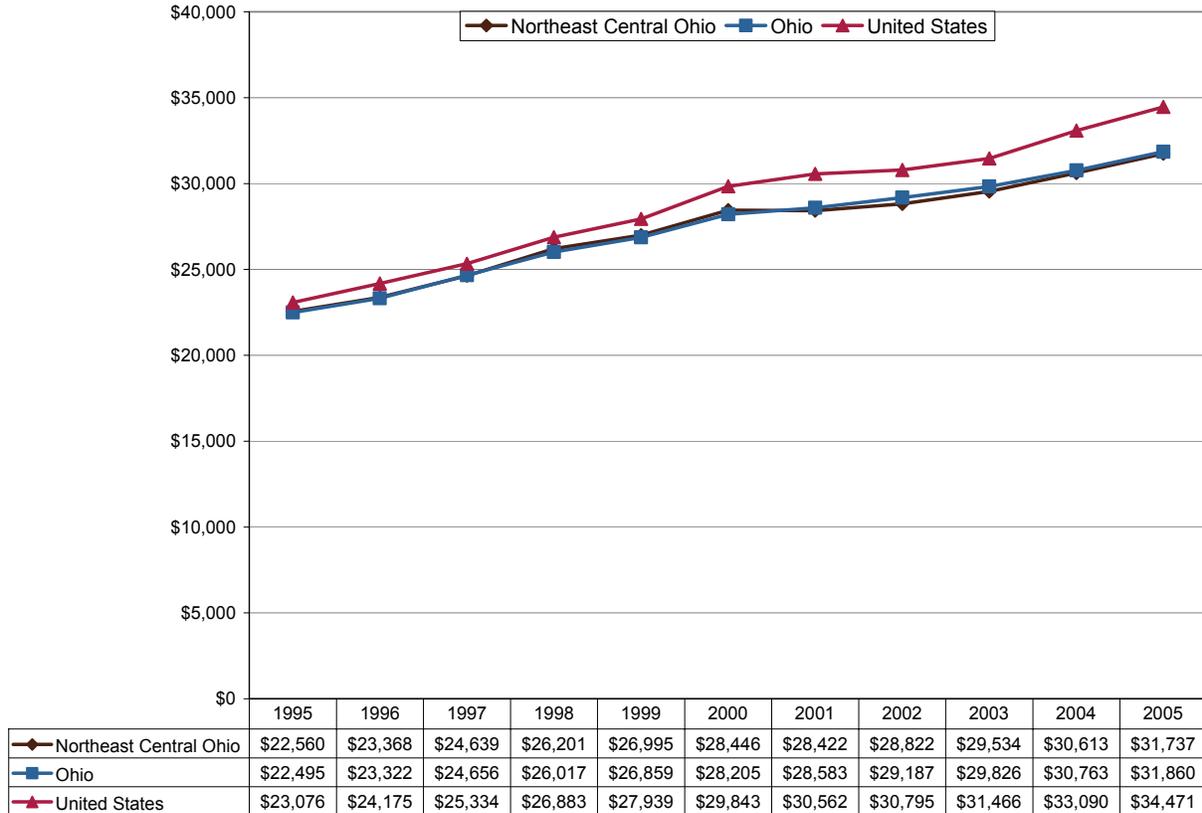
Unemployment Rate Trends. The unemployed are those in the non-institutional population 16 years or older who were not employed during the reference week but were actively seeking work, waiting to be called back to a job after a layoff, or waiting to report within 30 days to a new job. The regional unemployment rate in 2006 was 5.3 percent, having dropped 0.8 percentage point from the last peak in 2003. Over the period of analysis, regional unemployment has followed similar patterns as Ohio and the U.S. Ohio's unemployment rate fell 0.7 percentage point since 2003 and the national rate fell 1.4 percentage points.

Figure 6: Unemployment Trends, 1995-2006



Per Capita Income Trends. Per capita income in Northeast Central Ohio was \$31,737 in 2005, having grown at a 3.5 percent annual compound rate since 1995. Throughout the period of analysis, regional per capita income has been nearly identical with the state's. Ohio's per capita income has grown at the same compound rate during this period while national income grew 4.1 percent.

Figure 7: Per Capita Income, 1995-2005



Residential Construction Permit Trends. About 4,700 residential building permits were granted in Northeast Central Ohio in 2006, over one thousand less than the prior year. Nationwide, construction activity has dropped significantly in the last year. Average valuation in this region has generally been higher than the state average.

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

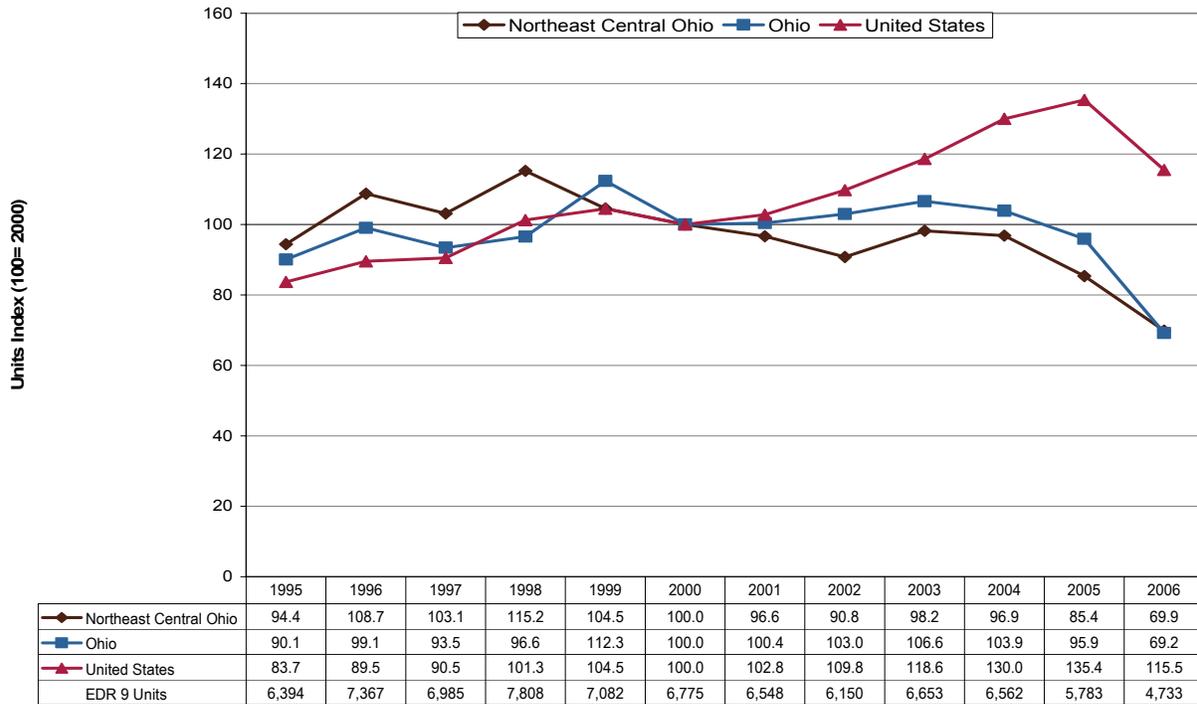
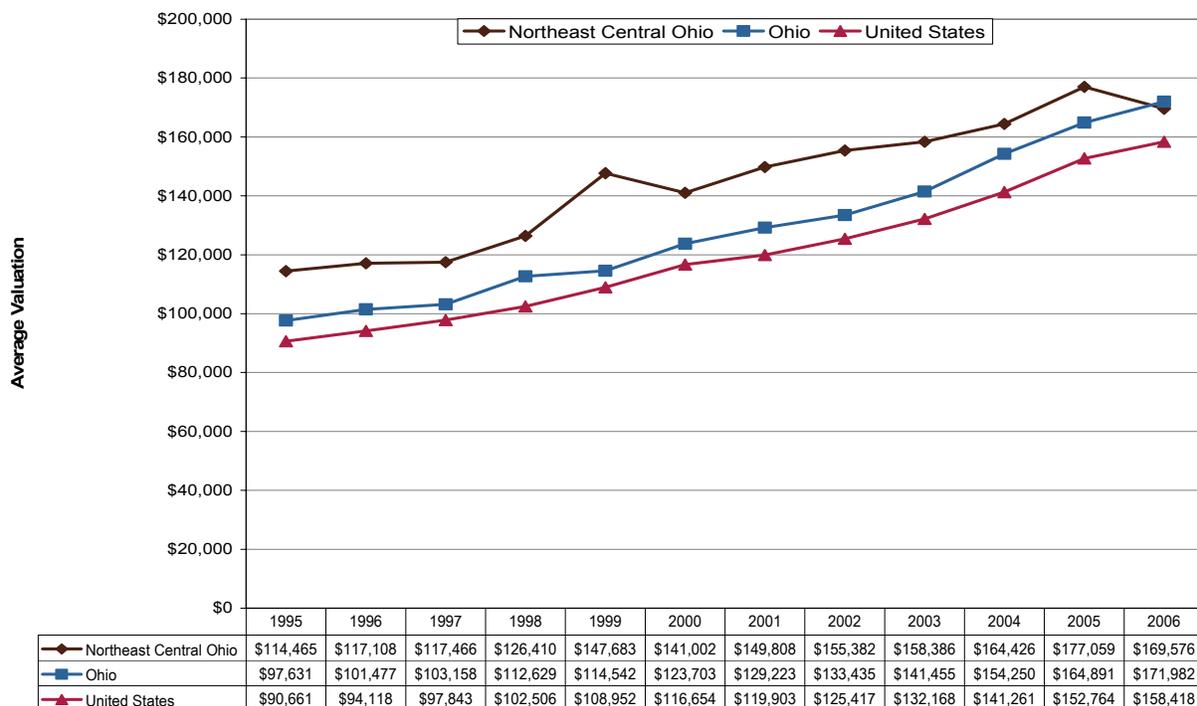


Figure 9: Valuation of New Residential Building Permits, 1995-2006



III. Employment Projections to 2014

Projections by Industry Sector. Figure 10 below shows employment projections from the Job Outlook to 2014 for Northeast Central Ohio arranged by industry sector. As of 2004, 21.7 percent of total employment was in goods-producing industries like construction or manufacturing. This is slightly higher than the statewide average of 19.9 percent. Another 71.9 percent of employment was in service-providing industries such as health care and retail trade. The remaining 6.5 percent consisted of the self-employed, private household and unpaid workers.

Between 2004 and 2014, total employment in EDR 9 is projected to increase by 48,500 jobs in net (7.5%), almost all of them in service providing industries. The fastest-growing industry will be education and health services (20.4%), driven by an aging population and newly available medical technologies. Other major sectors expected to add large numbers of jobs include professional and business services; trade, transportation and utilities; and leisure and hospitality. Manufacturing is expected to shed over 8,500 jobs during this period (-8.2%).

Figure 10: Northeast 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
Total Employment	643,700	692,200	48,500	7.5%
Goods-Producing	139,600	133,700	-5,900	-4.2%
Natural Resources and Mining	8,000	7,300	-700	-8.8%
Construction	28,500	31,800	3,300	11.6%
Manufacturing	103,100	94,600	-8,500	-8.2%
Service-Providing	462,500	516,600	54,100	11.7%
Trade, Transportation and Utilities	118,900	127,800	8,900	7.5%
Wholesale Trade	27,100	30,700	3,600	13.3%
Retail Trade	73,600	76,400	2,800	3.8%
Information	7,500	7,700	200	2.7%
Financial Activities	26,000	27,900	1,900	7.3%
Finance and Insurance	20,000	21,200	1,200	6.0%
Real Estate and Rental and Leasing	6,000	6,700	700	11.7%
Professional and Business Services	69,000	81,600	12,600	18.3%
Professional, Scientific & Technical Services	20,100	23,700	3,600	17.9%
Management of Companies and Enterprises	16,300	18,800	2,500	15.3%
Administrative and Waste Services	32,600	39,000	6,400	19.6%
Education and Health Services	81,700	98,400	16,700	20.4%
Leisure and Hospitality	56,500	63,000	6,500	11.5%
Arts, Entertainment & Recreation	8,400	9,100	700	8.3%
Accommodation and Food Services	48,000	54,000	6,000	12.5%
Other Services	25,500	27,200	1,700	6.7%
Government	77,400	83,100	5,700	7.4%
Federal Government	4,600	4,400	-200	-4.3%
State Government	11,500	12,100	600	5.2%
Local Government	61,300	66,600	5,300	8.6%
Self-Employed, Private Household and Unpaid Family Workers	41,600	41,900	300	0.7%

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; sales and related; and production occupations.

Most job growth during this period will be in healthcare occupations, adding over 11,300 positions (21.5%). Other fast-growing categories with at least 3,000 new jobs expected include business and financial operations (15.6%); education, training and library (11.9%); food preparation and serving related (11.8%); and construction and extraction occupations (10.4%).

In total there will be a projected 20,300 job openings per year on average. Note that although production occupations are projected to lose jobs through 2014, it has a very large number of average annual openings. In general, three out of every four openings are for replacement hires.

Figure 11: Northeast 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	
Total, All Occupations	643,700	692,200	48,500	7.5%	20,334
Management Occupations	31,500	33,660	2,160	6.9%	740
Business and Financial Operations Occupations	24,940	28,820	3,880	15.6%	837
Computer and Mathematical Occupations	9,520	11,450	1,930	20.3%	319
Architecture and Engineering Occupations	9,230	9,910	680	7.4%	282
Life, Physical, and Social Science Occupations	3,790	4,120	330	8.7%	128
Community and Social Services Occupations	9,490	10,860	1,370	14.4%	316
Legal Occupations	3,340	3,770	430	12.9%	82
Education, Training, and Library Occupations	34,060	38,110	4,050	11.9%	1,142
Arts, Design, Entertainment, Sports, & Media Occ.	8,110	8,860	750	9.2%	227
Healthcare Occupations, total	52,770	64,110	11,340	21.5%	2,061
Protective Service Occupations	11,250	12,340	1,090	9.7%	449
Food Preparation and Serving Related Occupations	54,810	61,290	6,480	11.8%	2,782
Building & Grounds Cleaning & Maintenance Occup.	21,800	23,320	1,520	7.0%	585
Personal Care and Service Occupations	20,780	22,500	1,720	8.3%	660
Sales and Related Occupations	73,180	77,820	4,640	6.3%	2,847
Office and Administrative Support Occupations	99,970	101,290	1,320	1.3%	2,412
Farming, Fishing, and Forestry Occupations	1,090	1,160	70	6.4%	35
Construction and Extraction Occupations	29,880	32,990	3,110	10.4%	886
Installation, Maintenance, and Repair Occupations	24,310	25,760	1,450	6.0%	710
Production Occupations	70,240	66,580	-3,660	-5.2%	1,686
Transportation and Material Moving Occupations	49,650	53,440	3,790	7.6%	1,508

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 30 average annual openings. There are about 90 such occupations identified for Northeast Central Ohio. Figure 12 shows these high prospect occupations arranged by required education and training.

Figure 12: High Prospect Occupations in Northeast Central Ohio

Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
Occupations Requiring Short-Term On-the-Job Training (up to one month)							
33-9032	Security Guards	2,960	3,160	200	6.8%	84	\$14.15
43-3011	Bill and Account Collectors	1,730	2,060	330	19.1%	66	\$14.52
43-5052	Postal Service Mail Carriers	1,700	1,640	-60	-3.5%	53	\$22.46
43-5061	Production, Planning, and Expediting Clerks	1,460	1,510	50	3.4%	40	\$19.33
43-5071	Shipping, Receiving, and Traffic Clerks	4,830	4,820	-10	-0.2%	99	\$12.41
51-9111	Packaging & Filling Machine Operators/Tenders	3,080	2,940	-140	-4.5%	61	\$12.26
53-3031	Driver/Sales Workers	2,410	2,670	260	10.8%	65	\$13.01
53-3033	Truck Drivers, Light or Delivery Services	4,790	5,380	590	12.3%	103	\$13.32
53-7051	Industrial Truck and Tractor Operators	3,670	3,530	-140	-3.8%	69	\$14.09
53-7062	Laborers/Freight/Stock/Material Movers, Hand	14,000	15,350	1,350	9.6%	592	\$12.43
53-7063	Machine Feeders and Offbearers	1,120	860	-260	-23.2%	31	\$12.80
Occupations Requiring Moderate-Term On-the-Job Training (one to twelve months combined experience/training)							
31-9091	Dental Assistants	940	1,240	300	31.9%	56	\$14.19
41-2022	Parts Salespersons	1,420	1,250	-170	-12.0%	41	\$12.76
41-4011	Sales Rep., Wholesale & Mfg. Tech./Sci. Prod.	1,390	1,540	150	10.8%	51	\$31.75
41-4012	Sales Rep., Wholesale/Mfg. ex. Tech./Sci. Prod.	8,960	9,860	900	10.0%	325	\$27.58
43-3021	Billing & Posting Clerks & Machine Operators	3,040	2,990	-50	-1.6%	52	\$13.20
43-3031	Bookkeeping, Accounting, and Auditing Clerks	9,470	9,570	100	1.1%	187	\$14.01
43-3051	Payroll and Timekeeping Clerks	940	1,050	110	11.7%	36	\$14.77
43-4051	Customer Service Representatives	9,220	10,740	1,520	16.5%	289	\$14.54
43-6011	Executive Secretaries & Administrative Assistants	6,110	6,460	350	5.7%	152	\$17.39
43-6014	Secretaries, except Legal, Medical & Executive	8,200	7,680	-520	-6.3%	157	\$13.07
47-2061	Construction Laborers	3,780	4,060	280	7.4%	78	\$17.10
47-2073	Operating Engineers & Other Con. Equip. Op.	1,480	1,630	150	10.1%	53	\$21.40
47-2141	Painters, Construction and Maintenance	1,530	1,680	150	9.8%	38	\$16.72
47-2181	Roofers	800	910	110	13.8%	30	\$18.83
49-9042	Maintenance and Repair Workers, General	6,950	7,210	260	3.7%	159	\$16.81
51-2092	Team Assemblers	10,420	9,850	-570	-5.5%	269	\$12.77
51-4021	Extruding & Drawing Machine Setters, O/T, M/P	1,080	780	-300	-27.8%	36	\$13.44
51-4031	Cutting/Punching/Press Machine S/O/T, M/P	2,880	2,470	-410	-14.2%	67	\$13.00
51-4072	Molding/Coremaking/Casting Mach. S/O/T, M/P	2,090	1,720	-370	-17.7%	52	\$12.07
51-9023	Mixing/Blending Mach. Setter/Operator/Tenders	1,520	1,580	60	3.9%	46	\$14.24
51-9061	Inspectors/Testers/Sorters/Samplers/Weighers	3,250	2,970	-280	-8.6%	74	\$15.30
53-3032	Truck Drivers, Heavy and Tractor-Trailer	7,790	8,630	840	10.8%	211	\$17.08
Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training)							
27-2022	Coaches and Scouts [†]	1,120	1,220	100	8.9%	32	\$27,399
33-2011	Fire Fighters	1,770	2,050	280	15.8%	79	\$18.49
33-3051	Police and Sheriff's Patrol Officers	2,860	3,120	260	9.1%	100	\$21.15
47-2031	Carpenters	5,640	6,400	760	13.5%	168	\$17.58
47-2111	Electricians	3,800	4,050	250	6.6%	100	\$22.85
47-2152	Plumbers, Pipefitters and Steamfitters	2,240	2,530	290	12.9%	81	\$20.48

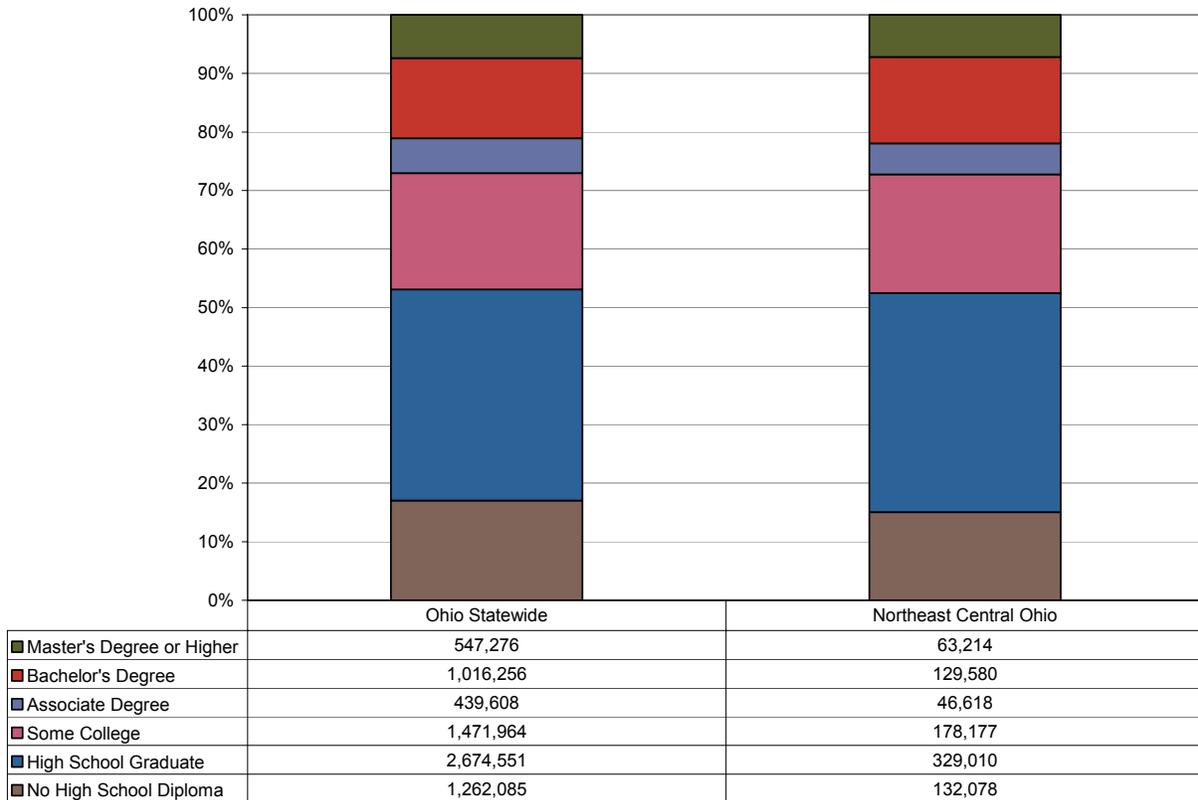
Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
Occupations Requiring Long-Term On-the-Job Training (twelve months or more combined experience/training) [con't]							
51-4041	Machinists	4,070	4,080	10	0.2%	96	\$16.09
51-4111	Tool and Die Makers	1,500	1,370	-130	-8.7%	34	\$22.57
51-4121	Welders, Cutters, Solderers, and Brazers	2,380	2,330	-50	-2.1%	67	\$15.83
Occupations Requiring Work Experience in a Related Occupation							
11-9051	Food Service Managers	1,700	1,870	170	10.0%	45	\$19.60
13-1023	Purchasing Agents, ex. Whole., Retail, & Farm	1,370	1,400	30	2.2%	37	\$24.76
13-1051	Cost Estimators	1,480	1,750	270	18.2%	60	\$27.12
35-1012	FL Sup/Mgrs of Food Prep. & Serving Workers	3,900	4,430	530	13.6%	146	\$12.99
39-1021	First-Line Sup/Mgrs of Personal Serv. Workers	1,010	1,110	100	9.9%	36	\$14.39
41-1011	First-Line Superv./Mgrs of Retail Sales Workers	7,630	7,460	-170	-2.2%	137	\$17.76
41-1012	First-Line Sup./Mgrs of Non-Retail Sales Workers	2,290	2,350	60	2.6%	49	\$37.31
43-1011	First-Line Sup/Mgrs of Office & Admin. Support	4,690	4,850	160	3.4%	117	\$21.53
47-1011	First-Line Sup/Mgrs of Con. Trades/Extract. Work	2,190	2,420	230	10.5%	60	\$27.73
49-1011	FL Sup/Mgrs of Mechanics/Installers/Repairers	2,170	2,320	150	6.9%	69	\$25.44
51-1011	FL Sup/Mgrs of Production/Operating Workers	5,320	5,240	-80	-1.5%	112	\$23.35
Occupations Requiring Postsecondary Vocational Training							
29-2041	Emergency Medical Technicians & Paramedics	1,450	1,710	260	17.9%	43	\$14.55
29-2061	Licensed Practical & Licensed Vocat. Nurses	4,450	4,920	470	10.6%	144	\$17.73
43-6012	Legal Secretaries	1,010	1,160	150	14.9%	34	\$15.14
43-6013	Medical Secretaries	3,350	3,720	370	11.0%	101	\$13.17
49-3023	Automotive Service Technicians and Mechanics	3,670	4,050	380	10.4%	136	\$16.19
49-3031	Bus & Truck Mechanics & Diesel Engine Spec.	1,440	1,610	170	11.8%	54	\$17.26
Occupations Requiring an Associate Degree							
15-1041	Computer Support Specialists	1,640	1,850	210	12.8%	41	\$20.19
29-1111	Registered Nurses [†]	11,420	14,150	2,730	23.9%	512	\$26.06
29-1126	Respiratory Therapists	610	730	120	19.7%	32	\$21.27
29-2034	Radiologic Technologists and Technicians	990	1,220	230	23.2%	41	\$20.32
Occupations Requiring a Bachelor's Degree							
11-9021	Construction Managers	1,220	1,370	150	12.3%	37	\$46.27
13-2011	Accountants and Auditors	5,270	6,160	890	16.9%	189	\$27.50
15-1021	Computer Programmers	1,370	1,310	-60	-4.4%	32	\$28.51
15-1031	Computer Software Engineers, Applications	970	1,300	330	34.0%	43	\$33.98
15-1051	Computer Systems Analysts	1,230	1,510	280	22.8%	42	\$30.32
15-1071	Network and Computer Systems Administrators	990	1,300	310	31.3%	42	\$28.94
15-1081	Network Systems & Data Comm. Analysts	830	1,140	310	37.3%	41	\$33.52
17-2112	Industrial Engineers	1,850	2,050	200	10.8%	65	\$31.79
21-1021	Child, Family and School Social Workers	1,490	1,710	220	14.8%	48	\$17.68
25-2021	Elementary School Teachers, ex.Special Ed. [†]	6,150	6,700	550	8.9%	191	\$50,412
25-2022	Middle School Teachers, ex. Special & Voc. Ed. [†]	3,100	3,230	130	4.2%	81	\$51,152
25-2031	Secondary Sch. Teachers, ex. Spec. & Voc. Ed. [†]	5,510	5,860	350	6.4%	190	\$50,805
25-2041	Special Ed. Teachers, Pre./Kinder./Elem. Sch. [†]	700	830	130	18.6%	30	\$50,322
25-2043	Special Education Teachers, Secondary School [†]	1,230	1,380	150	12.2%	44	\$50,180
41-3021	Insurance Sales Agents	2,420	2,610	190	7.9%	77	\$25.79
41-3031	Securities/Commodities/Fin. Serv. Sales Agents	1,550	1,710	160	10.3%	34	\$29.12
Occupations Requiring Work Experience plus a Bachelor's Degree							
11-1011	Chief Executives	1,910	2,080	170	8.9%	53	\$69.02
11-1021	General and Operations Managers	6,600	7,330	730	11.1%	197	\$44.43

Code	Occupational Title**	Employment		Change in Employment		Avg. Ann. Openings	2006 Avg. Wage*
		2004 Annual	2014 Projected	2004 - 2014	Percent		
Occupations Requiring Work Experience plus a Bachelor's Degree [con't]							
11-2022	Sales Managers	1,170	1,350	180	15.4%	40	\$46.76
11-3031	Financial Managers	1,340	1,510	170	12.7%	36	\$44.43
11-9111	Medical and Health Services Managers	1,220	1,420	200	16.4%	44	\$35.70
13-1111	Management Analysts	1,680	1,900	220	13.1%	45	\$31.83
Occupations Requiring a Master's Degree							
21-1012	Educational, Vocational, & School Counselors	900	1,000	100	11.1%	31	\$27.47
Occupations Requiring a First Professional Degree							
23-1011	Lawyers	1,830	2,070	240	13.1%	48	\$52.68
29-1051	Pharmacists	1,180	1,400	220	18.6%	45	\$43.65
*May 2005 wages aged to April 2006. Wages in <i>italics</i> are statewide figures because EDR wages were unavailable.							
**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 levels of educational attainment among adults 25 and older in Northeast Central Ohio and the rest of the state. While these two educational profiles are highly similar, this region has a slightly higher level of overall educational attainment than the rest of Ohio. This EDR has a larger proportion of adults with a bachelor's degree or better (21.9%). It also has a smaller proportion without a high school diploma (15.0%).

Figure 13: Educational Attainment, 2000



Institutions and Degree Completions. There are 37 postsecondary training providers in Northeast Central Ohio offering over 1,800 different programs: 8 public adult schools with vocational programs; 13 two-year technical and community colleges; 8 four-year colleges and universities; and 8 private business and technical schools. From 2005 to 2006, the number of completers at these institutions dropped by over 800 (-5.2%). For comparison, Ohio grew 3.7 percent during that same period. The largest declines were in associate's degrees and award programs less than two years. Details on educational institutions and program completers are available in Appendices E and F, respectively.

Figure 14: Degree Completions in Northeast Central Ohio

Award Type	2005	2006	Net Growth
Postsec. Awards; < 2 yrs.	2,558	1,959	-599
Associate's Degrees	2,454	2,159	-295
Bachelor's Degrees	8,184	8,235	51
Master's Degrees	2,391	2,471	80
Doctor's Degrees	274	273	-1
First-Professional Degrees	287	252	-35
All Other Awards	236	180	-56
Totals	16,384	15,529	-855

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.

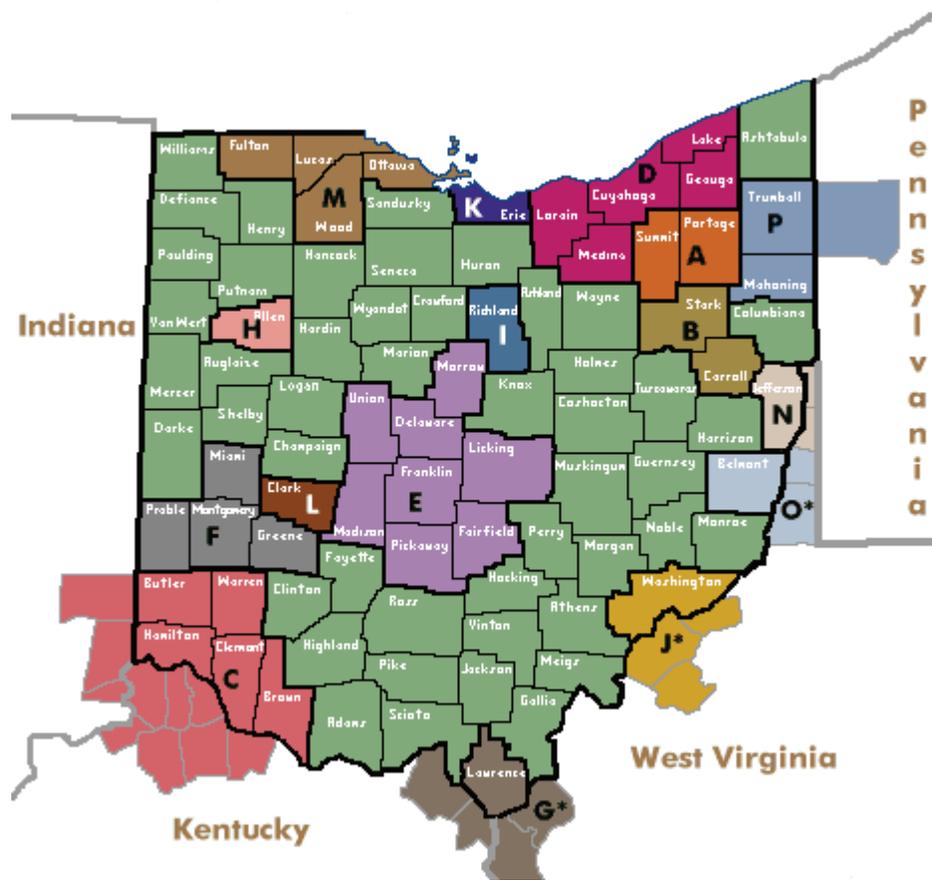
As is common for much of the state, reading comprehension will be the most highly-demanded workplace skill through 2014, required in nearly half of all projected openings during the period of analysis. It also has the largest gap between supply and projected demand. Other important workplace skills include active listening, speaking, critical thinking and coordination.

While projected levels of demand are mostly similar to demand levels across Ohio, there are a few skills projected to be more highly demanded in this region. Chief among these are speaking, learning strategies and time management.

Figure 15: Projected Skills Needs for 2014

Skill	Northeast Central Ohio				Ohio	
	Supply Rank	Percent Demand	Gap Index	Repl. Index	Percent Demand	Gap Index
Reading Comprehension	1	49.6%	100	65	48.3%	100
Active Listening	2	47.3%	97	67	46.6%	97
Speaking	4	40.0%	94	63	38.4%	91
Critical Thinking	3	43.0%	91	65	41.9%	94
Coordination	6	37.9%	89	62	36.8%	89
Active Learning	5	38.7%	86	65	37.4%	86
Monitoring	8	35.4%	83	63	34.3%	83
Writing	9	34.7%	80	63	33.6%	80
Time Management	10	32.9%	77	64	31.6%	74
Instructing	7	35.0%	74	64	34.1%	77
Learning Strategies	11	32.8%	71	64	31.3%	71
Social Perceptiveness	12	29.7%	69	63	28.6%	69
Service Orientation	13	26.6%	66	61	25.4%	66
Judgment and Decision Making	15	23.6%	63	63	23.6%	63
Persuasion	14	23.3%	60	64	22.2%	60
Complex Problem Identification	16	21.4%	57	64	21.3%	57
Mathematics	17	19.4%	54	64	18.9%	54
Equipment Selection	18	16.5%	51	69	16.0%	51
Negotiation	19	12.4%	49	67	12.0%	49
Management of Personnel Resources	21	10.1%	46	70	10.1%	46
Troubleshooting	20	10.9%	43	72	11.0%	43
Equipment Maintenance	22	9.9%	40	73	9.3%	34
Management of Financial Resources	26	6.4%	37	65	6.6%	37
Installation	24	7.2%	34	71	7.6%	40
Systems Evaluation	30	3.8%	31	55	4.3%	29
Operations Analysis	29	4.5%	29	62	5.2%	31
Repairing	28	6.0%	26	72	5.9%	20
Science	32	3.7%	23	61	3.9%	23
Systems Analysis	33	2.7%	20	53	3.2%	26
Management of Material Resources	31	3.5%	17	66	3.5%	14
Technology Design	34	2.4%	14	53	2.9%	17
Operation and Control	27	6.0%	11	77	5.4%	6
Operation Monitoring	23	7.1%	9	82	6.8%	3
Quality Control	25	6.0%	6	77	6.0%	11
Programming	35	0.8%	3	47	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

Medina			Percent of workers that work outside the county -			53.4%					
			Average commute time in minutes -			26.4					
Number of workers 16+ years of age living in Medina County			76,548			Number of workers 16+ years of age working in Medina County			55,311		
Commute Out To			Number	Percent	Commute In From			Number	Percent		
Cuyahoga Co. OH	26,572	34.7%	Summit Co. OH	5,248	9.5%						
Summit Co. OH	8,647	11.3%	Cuyahoga Co. OH	4,795	8.7%						
Wayne Co. OH	1,726	2.3%	Wayne Co. OH	4,667	8.4%						
Lorain Co. OH	1,418	1.9%	Lorain Co. OH	1,874	3.4%						
Stark Co. OH	445	0.6%	Stark Co. OH	770	1.4%						
Portage Co. OH	322	0.4%	Ashland Co. OH	720	1.3%						
Ashland Co. OH	307	0.4%	Portage Co. OH	314	0.6%						
Lake Co. OH	307	0.4%	Huron Co. OH	102	0.2%						
Richland Co. OH	148	0.2%	Richland Co. OH	89	0.2%						
Franklin Co. OH	84	0.1%	Holmes Co. OH	72	0.1%						

Portage			Percent of workers that work outside the county -			49.6%					
			Average commute time in minutes -			25.1					
Number of workers 16+ years of age living in Portage County			78,023			Number of workers 16+ years of age working in Portage County			60,123		
Commute Out To			Number	Percent	Commute In From			Number	Percent		
Summit Co. OH	19,049	24.4%	Summit Co. OH	9,702	16.1%						
Cuyahoga Co. OH	11,934	15.3%	Cuyahoga Co. OH	2,632	4.4%						
Geauga Co. OH	1,989	2.5%	Stark Co. OH	2,256	3.8%						
Stark Co. OH	1,578	2.0%	Trumbull Co. OH	1,863	3.1%						
Trumbull Co. OH	1,449	1.9%	Mahoning Co. OH	1,171	1.9%						
Mahoning Co. OH	603	0.8%	Geauga Co. OH	1,002	1.7%						
Lake Co. OH	436	0.6%	Medina Co. OH	322	0.5%						
Medina Co. OH	314	0.4%	Columbiana Co. OH	316	0.5%						
Columbiana Co. OH	182	0.2%	Lake Co. OH	307	0.5%						
Lorain Co. OH	152	0.2%	Lorain Co. OH	182	0.3%						

Stark			Percent of workers that work outside the county -			20.7%					
			Average commute time in minutes -			21.3					
Number of workers 16+ years of age living in Stark County			177,234			Number of workers 16+ years of age working in Stark County			171,642		
Commute Out To			Number	Percent	Commute In From			Number	Percent		
Summit Co. OH	21,094	11.9%	Summit Co. OH	7,665	4.5%						
Wayne Co. OH	3,026	1.7%	Tuscarawas Co. OH	5,707	3.3%						
Cuyahoga Co. OH	2,443	1.4%	Carroll Co. OH	5,125	3.0%						
Portage Co. OH	2,256	1.3%	Columbiana Co. OH	3,306	1.9%						
Tuscarawas Co. OH	1,679	0.9%	Mahoning Co. OH	2,548	1.5%						
Mahoning Co. OH	1,158	0.7%	Wayne Co. OH	1,672	1.0%						
Carroll Co. OH	956	0.5%	Portage Co. OH	1,578	0.9%						
Medina Co. OH	770	0.4%	Cuyahoga Co. OH	565	0.3%						
Columbiana Co. OH	640	0.4%	Medina Co. OH	445	0.3%						
Holmes Co. OH	480	0.3%	Harrison Co. OH	292	0.2%						

Summit			Percent of workers that work outside the county -			25.0%					
			Average commute time in minutes -			22.4					
Number of workers 16+ years of age living in Summit County			258,414			Number of workers 16+ years of age working in Summit County			270,431		
Commute Out To			Number	Percent	Commute In From			Number	Percent		
Cuyahoga Co. OH	34,476	13.3%	Stark Co. OH	21,094	7.8%						
Portage Co. OH	9,702	3.8%	Portage Co. OH	19,049	7.0%						
Stark Co. OH	7,665	3.0%	Cuyahoga Co. OH	14,207	5.3%						
Medina Co. OH	5,248	2.0%	Medina Co. OH	8,647	3.2%						
Lake Co. OH	1,148	0.4%	Wayne Co. OH	3,948	1.5%						
Wayne Co. OH	1,095	0.4%	Lake Co. OH	1,157	0.4%						
Lorain Co. OH	588	0.2%	Geauga Co. OH	1,130	0.4%						
Geauga Co. OH	563	0.2%	Mahoning Co. OH	1,096	0.4%						
Mahoning Co. OH	460	0.2%	Trumbull Co. OH	1,038	0.4%						
Trumbull Co. OH	447	0.2%	Lorain Co. OH	970	0.4%						

Wayne			Percent of workers that work outside the county -			27.1%					
			Average commute time in minutes -			19.4					
Number of workers 16+ years of age living in Wayne County			54,487			Number of workers 16+ years of age working in Wayne County			52,259		
Commute Out To			Number	Percent	Commute In From			Number	Percent		
Medina Co. OH	4,667	8.6%	Stark Co. OH	3,026	5.8%						
Summit Co. OH	3,948	7.2%	Holmes Co. OH	2,411	4.6%						
Stark Co. OH	1,672	3.1%	Medina Co. OH	1,726	3.3%						
Holmes Co. OH	1,247	2.3%	Ashland Co. OH	1,712	3.3%						
Cuyahoga Co. OH	1,193	2.2%	Summit Co. OH	1,095	2.1%						
Ashland Co. OH	565	1.0%	Tuscarawas Co. OH	688	1.3%						
Richland Co. OH	297	0.5%	Richland Co. OH	443	0.8%						
Lorain Co. OH	145	0.3%	Coshocton Co. OH	178	0.3%						
Tuscarawas Co. OH	125	0.2%	Cuyahoga Co. OH	163	0.3%						
Franklin Co. OH	76	0.1%	Franklin Co. OH	146	0.3%						

Source: U.S. Census Bureau, 2004.

Appendix D: Major Employers by County

Medina	
Brunswick City Board of Education	Government
Discount Drug Mart, Inc.	Retail
Medina City Board of Education	Government
Medina County Government	Government
Medina General Hospital	Health Care
MTD Products, Inc.	Manufacturing
Schneider National, Inc.	Transportation
Wadsworth City Board of Education	Government
Wadsworth-Rittman Hospital	Health Care
Westfield Group	Insurance
Portage	
East Manufacturing Corp.	Manufacturing
General Electric Co.	Manufacturing
Kent City Board of Education	Government
Kent State University	Education
McMaster-Carr Supply Co.	Manufacturing
Ravenna City Board of Education	Government
Robinson Memorial Hospital	Health Care
State of Ohio	Government
Step2 Company	Manufacturing
Stark	
Aultman Hospital	Health Care
Canton City Board of Education	Government
Fisher Food, Inc.	Retail
General Electric Co.	Finance
Mercy Medical Center	Health Care
Precision Castparts Corp.	Manufacturing
Republic Engineered Products	Manufacturing
Timken Co.	Manufacturing
Wal-Mart Stores, Inc.	Retail
Summit	
Akron City Board of Education	Government
Akron General Health System	Health Care
Children's Hospital Medical Center	Health Care
Chrysler LLC	Manufacturing
Diebold, Inc.	Manufacturing
FirstEnergy Corp.	Utilities
Goodyear Tire & Rubber Co.	Manufacturing
Jo-Ann Stores, Inc.	Retail
McDermott International/Babcock & Wilcox	Manufacturing
Signet Group plc/Sterling, Inc.	Retail
Summa Health System	Health Care
University of Akron	Education

Wayne

College of Wooster	Education
Frito-Lay, Inc.	Manufacturing
JM Smucker Co.	Manufacturing
LuK, Inc.	Manufacturing
State of Ohio	Government
Will-Burt Co.	Manufacturing
Wooster Brush Co.	Manufacturing
Wooster City Board of Education	Government
Wooster Community Hospital	Health Care
Worthington Industries/Gerstenslager Co.	Manufacturing

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-Akron	Two-Year	2930 W Market, Akron, OH 44313	(330) 867-4030	
Akron Adult Vocational Services	Pub. Adult Sch.	147 Park St, Akron, OH 44308	(330) 761-1385	akronschools.com
Akron Institute-A Division of Herzing Ohio Inc	Priv. Bus. & Tech.	1600 South Arlington Street, Suite 100, Akron, OH 44306	(330) 724-1600	www.akroninstitute.com
Akron Machining Institute Inc	Priv. Bus. & Tech.	2959 Barber Rd, Norton, OH 44203	(330) 745-1111	www.akronmach.com
Akron School of Practical Nursing	Pub. Adult Sch.	619 Sumner St, Akron, OH 44311	(330) 761-3255	
Aultman Hospital School of Nursing	Two-Year	2600 6th St SW, Canton, OH 44710	(330) 363-6347	www.aultmancollege.org
Bohecker College	Two-Year	653 Enterprise Parkway, Ravenna, OH 44266	(330) 297-7319	www.boheckercollege.edu
Brown Mackie College-Akron	Priv. Bus. & Tech.	2791 Mogadore Rd, Akron, OH 44312	(330) 733-8766	www.edmc.edu
Brown Mackie College-North Canton	Priv. Bus. & Tech.	1320 W Maple St NW, North Canton, OH 44720	(330) 494-1214	www.brownmackie.edu
Carnegie Institute of Integrative Medicine & Massotherapy	Priv. Bus. & Tech.	1292 Waterloo Rd, Suffield, OH 44260	(330) 630-1132	carnegieinstitute.net
Community Services Division-Alliance City	Pub. Adult Sch.	200 Glamorgan, Alliance, OH 44601	(330) 821-2102	www.alliancelink.com/users/acc
Edutek College	Two-Year	3855 Fishcreek Rd, Stow, OH 44224	(330) 667-4667	www.edutekcollege.com
Gerbers Akron Beauty School	Priv. Bus. & Tech.	33 Shiawassee Ave, Fairlawn, OH 44333	(330) 867-6200	akronbeautyschool.com
Hamrick Truck Driving School	Priv. Bus. & Tech.	1156 Medina Rd, Medina, OH 44256	(330) 239-2229	hamrickschool.com
Hiram College	Four-Year	Hinsdale Hall Third Floor, Hiram, OH 44234	(330) 569-3211	www.hiram.edu
Kent State University-Kent Campus	Four-Year	Kent, OH 44242	(330) 672-3000	www.kent.edu
Kent State University-Stark Campus	Two-Year	6000 Frank Ave NW, Canton, OH 44720	(330) 499-9600	www.stark.kent.edu
Malone College	Four-Year	515 25th St NW, Canton, OH 44709	(330) 471-8100	www.malone.edu
Medina County Career Center	Pub. Adult Sch.	1101 W Liberty St, Medina, OH 44256	(330) 725-8461	mccc-jvsd.org
Mercy Medical Center School of Radiology	Two-Year	1320 Mercy Dr NW, Canton, OH 44708	(330) 489-1273	www.thequalityhospital.com
Mount Union College	Four-Year	1972 Clark Ave., Alliance, OH 44601	(800) 992-6682	www.muc.edu
National Beauty College	Two-Year	4642 Cleveland Ave NW, Canton, OH 44709	(330) 499-5596	www.nationalbc.com
National Institute of Massotherapy	Priv. Bus. & Tech.	3681 Manchester Rd., Akron, OH 44319	(330) 867-1996	www.nim.edu
National Institute of Technology	Two-Year	2545 Bailey Road, Cuyahoga Falls, OH 44221	(330) 923-9959	nationalinstituteoftechnology.edu
Northeastern Ohio Universities College of Medicine	Four-Year	4209 State Route 44, Rootstown, OH 44272	(330) 325-2511	www.neucom.edu
Ohio College of Massotherapy Inc	Two-Year	225 Heritage Woods Dr, Akron, OH 44321	(330) 665-1084	www.ocm.edu
Ohio State University Agricultural Technical Institute	Two-Year	1328 Dover Rd, Wooster, OH 44691	(330) 287-1331	www.ati.osu.edu/
Portage Lakes Career Center	Pub. Adult Sch.	4401 Shriver Rd, Green, OH 44232	(330) 896-8200	www.portagelakescareercenter.org
Practical Nurse Program Canton City Schools	Pub. Adult Sch.	116 McKinley Avenue NW, Canton, OH 44702	(330) 453-3271	www.ccsdistrict.org
Raphaels School of Beauty Culture	Two-Year	2445 W. State St., Alliance, OH 44601	(330) 823-3884	www.raphaelsbeautyschool.com
Riggs Lemar Beauty College	Priv. Bus. & Tech.	2115 Front Street, Cuyahoga Falls, OH 44221	(330) 945-4045	riggsleamar.com
Stark State College of Technology	Two-Year	6200 Frank Ave NW, North Canton, OH 44720	(330) 494-6170	www.starkstate.edu
The College of Wooster	Four-Year	1189 Beall Avenue, Wooster, OH 44691	(330) 263-2000	www.wooster.edu
University of Akron Main Campus	Four-Year	302 Buchtel Common, Akron, OH 44325	(330) 972-7111	www.uakron.edu

Appendix E: Postsecondary Institutions

Name	Type	Address	Telephone	URL
University of Akron Wayne College	Two-Year	1901 Smucker Rd, Orrville, OH 44667	(800) 221-8308	www.wayne.uakron.edu
W Howard Nicol School of Practical Nursing	Pub. Adult Sch.	4401 Shriver Rd, Green, OH 44232	(330) 896-8105	plcc.k12.oh.us
Walsh University	Four-Year	2020 East Maple St, North Canton, OH 44720	(330) 499-7090	www.walsh.edu
Wayne County Schools Career Center	Pub. Adult Sch.	518 W Prospect St, Smithville, OH 44677	(330) 669-7070	www.wcsc.org

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 9

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	175					132				
Natural Resources and Conservation	2	16				5	29			
Architecture and Related Services		100	32				84	42		
Area, Ethnic, Cultural and Gender Studies		22					23			
Communication, Journalism and Related Programs		572	26	9			575	24	6	
Computer and Information Sciences and Support Services	266	244	42	10		268	171	51	6	
Personal and Culinary Services	7					12				
Education	53	1,218	802	89		56	1,137	781	70	
Engineering	3	306	99	37		3	366	88	34	
Engineering Technologies/Technicians	287	90	8			240	86			
Foreign Languages, Literatures and Linguistics		102	36				94	38		
Family and Consumer Sciences/Human Sciences		164	21				239	21		
Legal Professions and Studies	131	7			189	95	11	1		141
English Language and Literature/Letters		314	44	9			274	55	2	
Liberal Arts and Sciences, General Studies and Humanities	177	116	8			131	104	8		
Library Science			226					262		
Biological and Biomedical Sciences		285	21	3			287	22	8	
Mathematics and Statistics		67	34	2			78	20	2	
Multi/Interdisciplinary Studies	12	25	7	1		16	23	14	1	
Parks, Recreation, Leisure and Fitness Studies		131	48	1			120	38		
Philosophy and Religious Studies		70	2				74	4		
Theology and Religious Vocations		21	14				34	12		
Physical Sciences		122	32	35			94	27	60	
Psychology		431	90	50			388	103	44	
Security and Protective Services	212	285	9			173	298	25		
Public Administration and Social Service Professions	47	68	85			56	66	81		
Social Sciences		397	60	14		1	458	65	17	
Mechanic and Repair Technologies/Trades	6					5				
Transportation and Materials Moving		45					42			
Visual and Performing Arts		417	69	3			420	80	6	
Health Professions and Related Clinical Sciences	643	638	210	1	98	594	797	236	12	111
Business, Management, Marketing and Related Support Services	433	1,730	346	7		372	1,682	351	3	
History		181	20	3			181	22	2	
Total, All Programs	2,454	8,184	2,391	274	287	2,159	8,235	2,471	273	252

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

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

Office of Workforce Development
P.O. Box 1618
Columbus, OH 43216-1618

**Bureau of Labor Market Information
Business Principles for Workforce Development**

Partner with the workforce and economic development community.

Develop and deploy new information solution tools and systems for the workforce and economic development community.

Provide products that are customer and demand driven.

Be known as an important and reliable source for information solutions that support workforce development goals and outcomes.

The Workforce Research Section, under the direction of Labor Economist Larry Less, was responsible for the composition of this report. Labor Market Analyst Jonathan Calig was primarily responsible for production. Thanks are extended to the many other analysts who developed and reviewed the data presented herein. This publication was prepared under the supervision of Labor Market Information Bureau Chief Keith Ewald and Assistant Bureau Chief Rudy Wilkinson.

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

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