

Where **We** Begin

Establishing a
Workforce
Development
Benchmarking
System
for
Northeast
Ohio

The Regional Workforce Partnership is a collaboration of the
Northeast Ohio Research Consortium of the
Ohio Urban University Program and the Northeast Ohio
Council on Higher Education.

Its member organizations include:

Northeast Ohio Council on Higher Education

Northeast Ohio Research Consortium (UUP)

Jobs and Workforce Initiative of the Greater Cleveland Growth Association

Workforce Development Program of the Akron Regional Development Board

Northeast Ohio Regional Business Council

Lake County Economic Development Council

Workforce Institute of Lorain County

Youngstown-Warren Chamber of Commerce

Northeast Ohio Labor Market and Workforce Development Comparisons

One of the most critical elements for the successful economic performance of a region is its system for the development and employment of its workforce. Realizing this, the Regional Workforce Partnership (RWP) was formed in 1996 to examine and address issues relating to workforce development. RWP is a collaboration of the Northeast Ohio Research Consortium of the Ohio Urban University Program and the Northeast Ohio Council on Higher Education. RWP provides research and analysis, disseminates information, and facilitates communication and networking among interested parties. In addition to higher education, the Regional Workforce Partnership Coordinating Committee has representation from regional workforce development initiatives including the Greater Cleveland Growth Association, the Akron Regional Development Board, the Lorain County Workforce Institute, the Youngstown Warren Regional Chamber of Commerce, and the Lake County Economic Development Center.

A key goal of the Regional Workforce Partnership has been the establishment of a comparison system for the region. The conceptual framework for this project was first developed by Jim Shanahan (University of Akron) and Larry Ledebur (Cleveland State University) in 1998. A major concept from their work is that labor market and workforce development systems are overlapping systems, each providing support to and drawing impetus from each other. The data are intended to inform where we stand in workforce utilization and development by gauging the performance of the region both over time and in comparison with other regions across the United States.

An important component of this work is its focus on the Northeast Ohio region as a whole. Our perspective is that the labor market and related workforce development system are regional in

nature. We know, for example, that high proportions of workers cross geographic and political boundaries for work and recreation each day. Common concerns are inevitable throughout the region and optimal solutions to workforce development challenges will span geographic and political boundaries. **While regional planning is critical, data has been disaggregated at sub-regional and county levels for maximum interpretation and application.** In addition, RWP recognizes that a successful workforce development system must embrace the potential of emergent, transitional, and incumbent workers.

This report focuses on the emergent worker segment of the labor force. Its goal is to provide **base-line data** as to where we stand relative to other regions in the preparation of our future workforce --- those who are currently in school at the elementary and secondary levels. The report is organized around six primary comparison categories: school readiness, school attendance, student support, school achievement, student completion, and school spending. **This effort signifies a starting point from which the full range of indicators can be continuously updated and tracked over time.**

The data and information contained in this report is intended by RWP to **inform the development of a comprehensive benchmarking system for Northeast Ohio.** Stakeholders engaged in workforce development across the region should carefully consider which of the indicators selected for this base-line study would contribute to a successful benchmarking system for the region. The Regional Workforce Partnership welcomes your consideration of the indicators and invites your recommendations as to which of these or other data/information might be used to stimulate more comprehensive planning and decision making among all stakeholders.

Northeast Ohio Labor Market and Workforce Development Comparisons

METHODOLOGY

Comparative Regions:

The comparative analyses gauge performance relative to other regions in the state and across Northeast Ohio. Where other regions excel, best practices can be determined to guide improvements in Northeast Ohio's workforce development efforts. In some cases, longitudinal data have been included in the supplementary tables to augment the comparative analyses. The comparison (initial) year for each indicator varies depending on source and availability of data. Secondary data was the principal source from which all indicators in this report were compiled.

Regional Definition:

Fourteen counties and four metropolitan statistical areas or primary statistical areas were included in this analysis:

Cleveland-Lorain-Elyria PMSA

(Ashtabula, Cuyahoga, Geauga, Lake, Lorain, Medina)

Akron PMSA

(Summit, Portage)

Canton-Massillon MSA

(Stark, Carroll)

Youngstown-Warren MSA

(Columbiana, Mahoning, Trumbull)



In cases where county-level data is used Wayne County, which is adjacent to the Akron PMSA, was also included.

Source: Individual state's Labor Market Review (1997)
Website: www.acinet.org/acinet/resources/states/htm

Comparative Regions:

The comparative analysis relates Northeast Ohio to a set of comparison regions. These are primarily defined at the MSA/PMSA levels for sixteen different geographic regions across the nation (see Chart 1).

The comparison regions were chosen based upon a variety of factors. Several of them have been utilized by the Citizens League of Greater Cleveland in its previous benchmarking publications. Some have been identified as economically similar or because they have engaged in successful workforce development programs. Others were added after consultation with a panel of workforce development professionals comprising the Coordinating Committee for the Regional Workforce Partnership.

Chart 1 displays the relative size of the entire Northeast Ohio region (13 counties) in terms of total employment (i.e., the average number of individuals in the region who were employed at least part-time during the year). Chart 2 displays the distribution of Northeast Ohio's labor force by sub-region.

Limitations:

Common to any comparison study or secondary analysis is the issue of data availability. In some cases, data was not available or was suppressed for specific comparison regions across the nation.

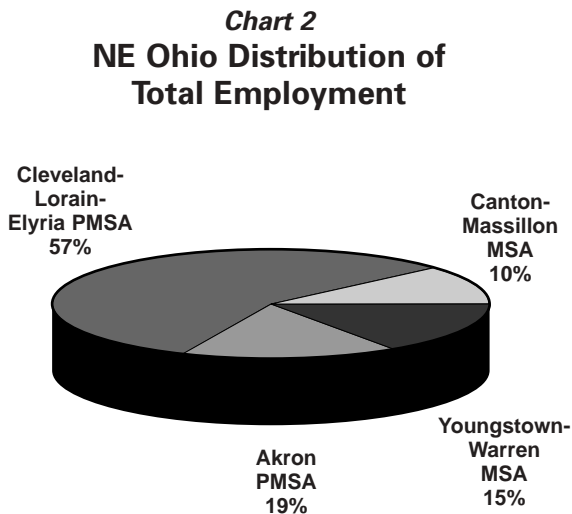
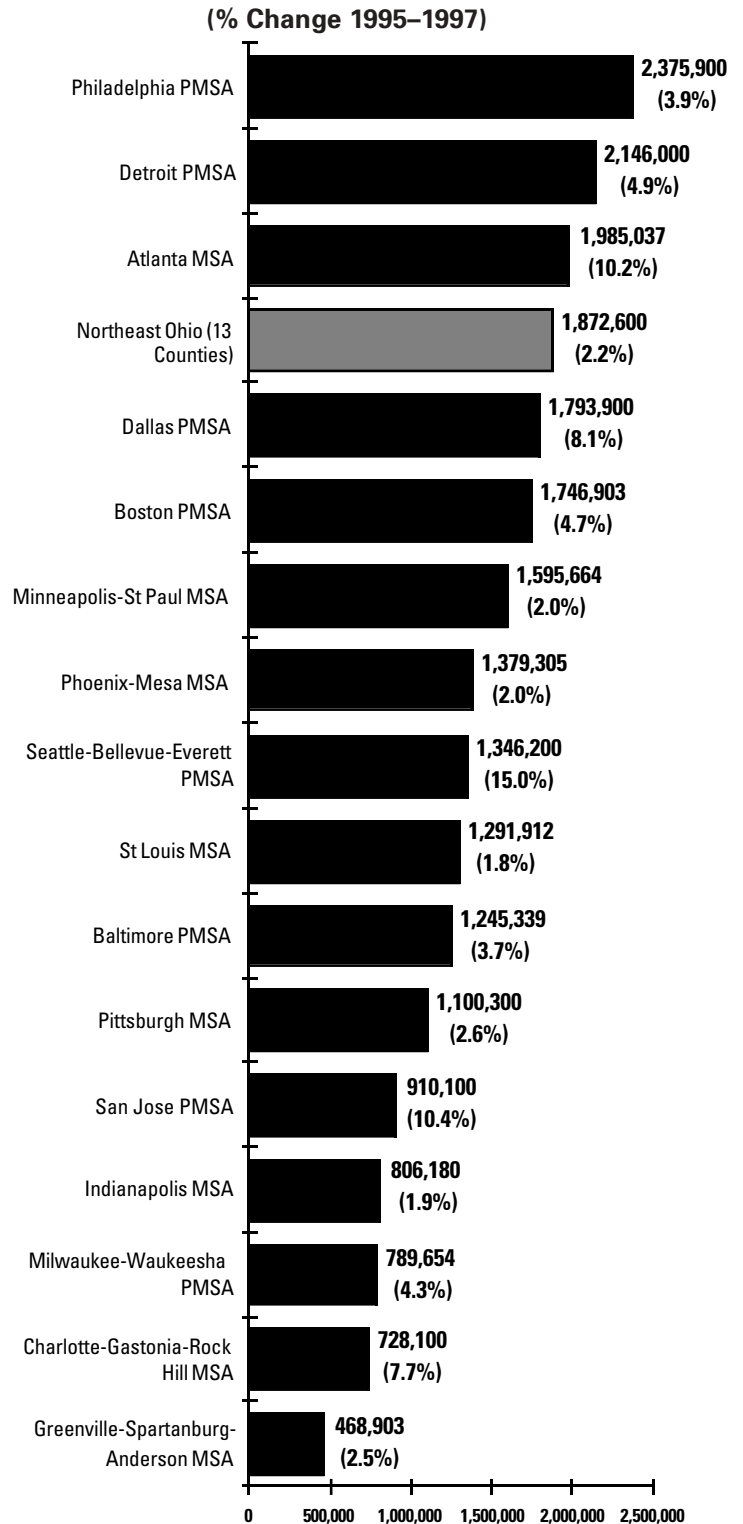


Chart 1
National Comparison Regions
Total Employment – 1997



Source: Individual state's Labor Market Review (1997)
Website: www.acinet.org/acinet/resources/states/htm

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Northeast Ohio Labor Market and Workforce Development Comparisons

EMERGENT WORKFORCE: KEY FINDINGS

School Readiness & Attendance

Indicator	NORTHEAST OHIO FINDINGS		COMPARATIVE FINDINGS		TREND FINDINGS
	NE Ohio Sub-Region	NE Ohio County	National Ranking	Ohio Ranking	Progress Over Time
Free Lunch Qualifiers (1994-94)	Lowest (Best): Akron PMSA Highest: Cleveland-Lorain-Elyria PMSA	Lowest (Best): Geauga Co. Highest: Cuyahoga Co.	3rd (of 15) – Akron PMSA 4th (of 15) – Canton-Massillon MSA 10th (of 15) – Youngstown-Warren MSA 12th (of 15) – Cleveland-Lorain-Elyria PMSA	2nd (of 9) – Akron 3rd (of 9) – Canton-Massillon MSA 7th (of 9) – Youngstown-Warren MSA 9th (of 9) – Cleveland-Lorain-Elyria PMSA	NA
Students Receiving ADC (1997)	Lowest (Best): Canton-Massillon MSA Highest: Cleveland-Lorain-Elyria PMSA	Lowest (Best): Geauga Co. Highest: Cuyahoga Co.	NA	2nd (of 9) – Canton-Massillon MSA 6th (of 9) – Akron PMSA 7th (of 9) – Youngstown-Warren MSA 9th (of 9) – Cleveland-Lorain-Elyria PMSA	Northeast Ohio regions exhibited little variability between 1990 and 1997.
School Attendance (1997)	Lowest (Best): Canton-Massillon MSA Highest: Cleveland-Lorain-Elyria PMSA	Lowest (Best): Medina Co. Highest: Cuyahoga Co.	NA	2nd (of 9) – Canton-Massillon MSA 6th (of 9) – Youngstown-Warren MSA 7th (of 9) – Akron PMSA 9th (of 9) – Cleveland-Lorain-Elyria PMSA	Attendance rates in Northeast Ohio regions were generally stable between 1990 and 1997
Students Support Services Staff Ratio (1994-95)	Lowest (Best): Youngstown-Warren MSA Highest: Akron MSA	Lowest (Best): Geauga Co. Highest: Medina Co.	13th (of 17) – Youngstown-Warren MSA 15th (of 17) – Cleveland-Lorain-Elyria PMSA 16th (of 17) – Canton-Massillon MSA 17th (of 17) – Akron PMSA	2nd (of 9) – Youngstown-Warren MSA 6th (of 9) – Cleveland-Lorain-Elyria PMSA 7th (of 9) – Canton-Massillon MSA 9th (of 9) – Akron PMSA	NA



Key Finding: *Readiness to learn is generally lagging in Northeast Ohio, while support services in areas like health, psychology, speech pathology, audiology, and social work services are weak compared to other regions across the nation and Ohio.*

EMERGENT WORKFORCE: KEY FINDINGS

School Support

Indicator	NORTHEAST OHIO FINDINGS		COMPARATIVE FINDINGS		TREND FINDINGS
	NE Ohio Sub-Region	NE Ohio County	National Ranking	Ohio Ranking	Progress Over Time
Student-Teacher Ratio (1994-95)	Lowest (Best): Cleveland-Lorain-Elyria PMSA Highest: Youngstown-Warren MSA	NA	12th (of 20) – Cleveland-Lorain-Elyria PMSA 14th (of 20) – Akron PMSA 15th (of 20) – Canton-Massillon MSA 16th (of 20) – Youngstown-Warren MSA	6th (of 10) – Cleveland-Lorain-Elyria PMSA 7th (of 10) – Akron PMSA 8th (of 10) – Canton-Massillon MSA 9th (of 10) – Youngstown-Warren MSA	NA
Student-Teacher Ratio (1997)	Lowest (Best): Cleveland-Lorain-Elyria PMSA Highest: Canton-Massillon MSA	Lowest (Best): Cuyahoga Co. Highest: Carroll Co.	NA	4th (of 9) – Cleveland-Lorain-Elyria PMSA 6th (of 9) – Youngstown-Warren MSA 8th (of 9) – Akron PMSA 9th (of 9) – Canton-Massillon MSA	NA
Student-Academic Counselor Ratio (1997)	Lowest (Best): Canton-Massillon MSA Highest: Akron PMSA	Lowest (Best): Lorain Co. Highest: Medina Co.	2nd (of 20) – Canton-Massillon MSA 6th (of 20) – Cleveland-Lorain-Elyria PMSA 10th (of 20) – Youngstown-Warren MSA 12th (of 20) – Akron PMSA	2nd (of 9) – Canton-Massillon MSA 6th (of 9) – Cleveland-Lorain-Elyria PMSA 7th (of 9) – Youngstown-Warren MSA 9th (of 9) – Akron PMSA	NA



Key Finding: *Students in Northeast Ohio have generally strong support in terms of smaller class size/teacher support, and access to academic counseling.*

Student Achievement

Indicator	Test	OHIO COMPARISON REGIONS		NORTHEAST OHIO COMPARISON REGION		NORTHEAST OHIO COUNTY	
		Highest	Lowest	Highest	Lowest	Highest	Lowest
4th Grade Proficiency Score 1998	Reading	Canton-Massillon (73%)	Mansfield (63%)	Canton-Massillon (73%)	Cleve-Lorain-Elyria (68%)	Geauga (85%)	Cuyahoga (64%)
	Writing	Cleve-Lorain-Elyria (62%)	Mansfield (53%)	Cleve-Lorain-Elyria (62%)	Youngstown-Warren (59%)	Geauga (81%)	Carroll (53%)
	Math	Canton-Massillon (60%)	Mansfield (52%)	Canton-Massillon (60%)	Youngstown-Warren (57%)	Geauga (76%)	Ashtabula (51%)
	Citizenship	Canton-Massillon (81%)	Mansfield (73%)	Canton-Massillon (81%)	Youngstown-Warren (78%)	Geauga (91%)	Cuyahoga (75%)
	Science	Canton-Massillon (65%)	Mansfield (56%)	Canton-Massillon (65%)	Youngstown-Warren (61%)	Geauga (82%)	Cuyahoga (56%)
6th Grade Proficiency Score 1998	Reading	Canton-Massillon (73%)	Mansfield (66%)	Canton-Massillon (73%)	Cleve-Lorain-Elyria (68%)	Geauga (86%)	Cuyahoga (62%)
	Writing	Canton-Massillon (92%)	Columbus (87%)	Canton-Massillon (92%)	Cleve-Lorain-Elyria (87%)	Geauga (95%)	Cuyahoga (83%)
	Math	Canton-Massillon (54%)	Mansfield (43%)	Canton-Massillon (54%)	Cleve-Lorain-Elyria (49%)	Geauga (66%)	Cuyahoga (40%)
	Citizenship	Canton-Massillon (70%)	Mansfield (62%)	Canton-Massillon (70%)	Cleve-Lorain-Elyria (66%)	Geauga (84%)	Cuyahoga (60%)
	Science	Canton-Massillon (54%)	Mansfield (43%)	Canton-Massillon (54%)	Cleve-Lorain-Elyria (49%)	Geauga (72%)	Cuyahoga (42%)
9th Grade Proficiency Score 1998	Reading	Cincinnati (55%)	Cleve-Lorain-Elyria (41%)	Youngstown-Warren (52%)	Cleve-Lorain-Elyria (41%)	Geauga (56%)	Cuyahoga (38%)
	Writing	Cincinnati (66%)	Cleve-Lorain-Elyria (49%)	Youngstown-Warren (60%)	Cleve-Lorain-Elyria (49%)	Geauga (64%)	Wayne (42%)
	Math	Cincinnati (31%)	Cleve-Lorain-Elyria (21%)	Canton-Massillon (28%)	Cleve-Lorain-Elyria (21%)	Geauga (37%)	Cuyahoga (18%)
	Citizenship	Cincinnati (38%)	Toledo (26%)	Canton-Massillon (31%)	Cleve-Lorain-Elyria (27%)	Geauga (43%)	Ashtabula (23%)
	Science	Cincinnati (29%)	Cleve-Lorain-Elyria (20%)	Canton-Massillon (31%)	Cleve-Lorain-Elyria (20%)	Geauga (36%)	Cuyahoga (18%)
12th Grade Proficiency Score 1998	Reading	Cincinnati (72%)	Mansfield (64%)	Cleve-Lorain-Elyria (71%)	Youngstown-Warren (67%)	Geauga (77%)	Ashtabula (65%)
	Writing	Cincinnati (85%)	Mansfield (74%)	Cleve-Lorain-Elyria (83%)	Akron (78%)	Geauga (87%)	Ashtabula (68%)
	Math	Cincinnati (57%)	Youngstown-Warren (47%)	Cleve-Lorain-Elyria (55%)	Youngstown-Warren (47%)	Geauga (62%)	Cuyahoga (41%)
	Citizenship	Cincinnati (68%)	Mansfield (58%)	Cleve-Lorain-Elyria (68%)	Youngstown-Warren (61%)	Geauga (74%)	Mahoning (61%)
	Science	Cincinnati (62%)	Mansfield (52%)	Cleve-Lorain-Elyria (60%)	Youngstown-Warren (54%)	Geauga (68%)	Ashtabula (49%)



Key Finding: *Students achievement is generally better among Northeast Ohio regions than other areas of the state at the 4th and 6th grade levels.*

EMERGENT WORKFORCE: KEY FINDINGS

Student Completion

Indicator	NORTHEAST OHIO FINDINGS		COMPARATIVE FINDINGS		TREND FINDINGS
	NE Ohio Sub-Region	NE Ohio County	National Ranking	Ohio Ranking	Progress Over Time
High School Completions (1994-95)	Highest (Best): Akron PMSA Lowest: Cleveland-Lorain-Elyria PMSA	Highest (Best): Geauga Co. Lowest: Cuyahoga Co.	2nd (of 19) – Akron PMSA 7th (of 19) – Canton-Massillon MSA 10th (of 19) – Youngstown-Warren MSA 18th (of 19) – Cleveland-Lorain-Elyria PMSA	1st (of 9) – Akron PMSA 4th (of 9) – Canton-Massillon MSA 5th (of 9) – Youngstown-Warren MSA 9th (of 9) – Cleveland-Lorain-Elyria PMSA	NA
Regular Diploma Graduates (1997)	Highest (Best): Canton-Massillon MSA Lowest: Toledo MSA	Highest (Best): Carroll Co. Lowest: Cuyahoga Co.	NA	1st (of 9) – Canton-Massillon MSA 3rd (of 9) – Akron PMSA 6th (of 9) – Youngstown-Warren MSA 8th (of 9) – Cleveland-Lorain-Elyria PMSA	All 4 Northeast Ohio regions exhibited increases between 1990 and 1997.
Dropout Rate (1994-95)	Lowest (Best): Canton-Massillon MSA Highest: Cleveland-Lorain-Elyria PMSA	NA	3rd (of 11) – Canton-Massillon MSA 6th (of 11) – Youngstown-Warren MSA 8th (of 11) – Akron PMSA 9th (of 11) – Cleveland-Lorain-Elyria PMSA	NA	NA
Dropout Rate (1998)	Lowest (Best): Akron PMSA Highest: Cleveland-Lorain-Elyria PMSA	Lowest (Best): Ashtabula Co. Highest: Cuyahoga Co.	NA	2nd (of 9) – Akron PMSA 3rd (of 9) – Canton-Massillon MSA 4th (of 9) – Youngstown-Warren MSA 9th (of 9) – Cleveland-Lorain-Elyria PMSA	All 4 Northeast Ohio regions exhibited increases between 1990 and 1997.



Key Finding: *Although generally increasing, student completion is an area for improvement for the Northeast Ohio region, particularly in relation to comparison regions of the U.S.*

EMERGENT WORKFORCE: KEY FINDINGS

Student Spending

Indicator	NORTHEAST OHIO FINDINGS		COMPARATIVE FINDINGS		TREND FINDINGS
	NE Ohio Sub-Region	NE Ohio County	National Ranking	Ohio Ranking	Progress Over Time
Expenditure Completions (1994-95)	Highest: Cleveland-Lorain-Elyria PMSA Lowest: Canton-Massillon MSA	Highest: Cuyahoga Co. Lowest: Carroll Co.	4th (of 18) – Cleveland-Lorain-Elyria PMSA 8th (of 18) – Akron PMSA 11th (of 18) – Youngstown-Warren MSA 13th (of 18) – Canton-Massillon MSA	1st (of 9) – Cleveland-Lorain-Elyria PMSA 4th (of 9) – Akron PMSA 7th (of 9) – Youngstown-Warren MSA 8th (of 9) – Canton-Massillon MSA	NA
Expenditure Per Pupil (1997)	Highest: Cleveland-Lorain-Elyria PMSA Lowest: Mansfield MSA	Highest: Cuyahoga Co. Lowest: Carroll Co.	NA	1st (of 9) – Cleveland-Lorain-Elyria PMSA 4th (of 9) – Akron PMSA 7th (of 9) – Youngstown-Warren MSA 9th (of 9) – Canton-Massillon MSA	Increases among the 4 Northeast Ohio regions averaged \$1,574 between 1990 and 1997.
Average Starting Salaries (1997)	Highest: Cleveland-Lorain-Elyria PMSA Highest: Youngstown-Warren MSA	Highest: Cuyahoga Co. for both BA & MA Lowest: Columbiana Co. for both BA & MA	NA	1st (of 9) – Cleveland-Lorain-Elyria PMSA both BA & MA 4th (of 9) – Akron PMSA for both BA & MA 7th (of 9) – Canton-Massillon MSA for both BA & MA 8th (of 9) – Youngstown-Warren MSA for both BA & MA	NA
Average Teacher Salaries (1998)	Highest: Columbus MSA Lowest: Dayton-Springfield MSA	Highest: Lake Co. Lowest: Columbiana Co.	NA	1st (of 9) – Cleveland-Lorain-Elyria PMSA 4th (of 9) – Akron PMSA 5th (of 9) – Canton-Massillon MSA 7th (of 9) – Youngstown-Warren MSA	NA



Key Finding: *Expenditures per pupil are generally higher for the region than in other comparison regions of Ohio, and generally above the midpoint for national comparison regions. Teacher starting and average salaries are also among the highest in the state.*

I. School Readiness

A. Free Lunch Qualifiers (Percentage of Total Students) 1994–1995

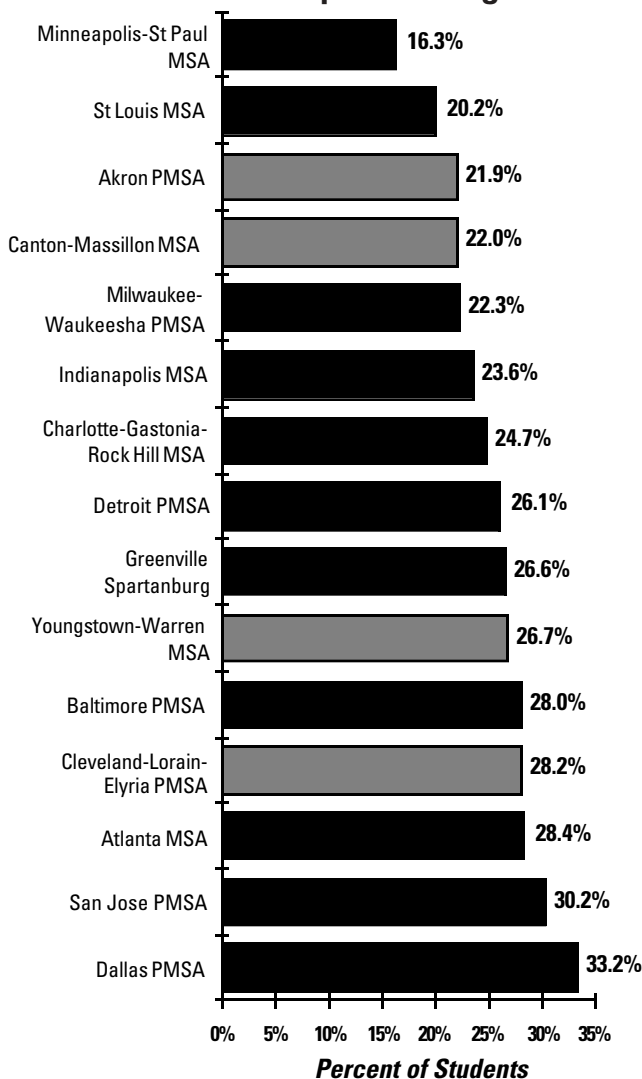
School success is dependent, in part, on a student's readiness to learn. One measure used by the National Center for Education Statistics is the number of students eligible for free lunch programs under the National School Lunch Act. For purposes of this study, the counts of free lunch-eligible students and counts of total student membership were aggregated to the school district, the county, and the MSA/PMSA level. Rankings are based on the percentage of students qualifying for free lunches among the comparison regions.

National Ranking: The Akron PMSA ranked 3rd (of 15) among national comparison regions, while the Canton-Massillon PMSA ranked 4th. The Youngstown-Warren MSA ranked 10th and the Cleveland-Lorain-Elyria PMSA ranked 12th for this indicator.

State Ranking: The Akron PMSA and Canton-Massillon MSA exceeded the best-in-class Columbus MSA by only .2 and .3 percentage points respectively. The Youngstown-Warren MSA exceeded the best-in-class by 5 percentage points while the Cleveland-Lorain-Elyria PMSA exceeded it by 6.5 percentage points.

Chart 3

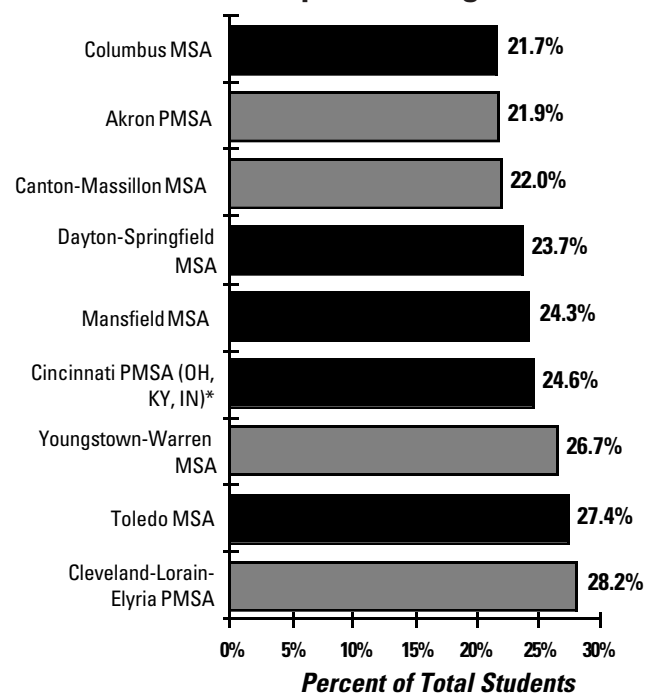
National Comparison Regions*



Among national comparison regions, the Minneapolis St. Paul MSA was best-in-class for this indicator with only one in six students eligible for free lunches.

Chart 4

Ohio Comparison Regions*



Source: National Center for Education Statistics
*National data utilizes Cincinnati metro area across all 3 states; state sources (EMIS) are limited to Ohio counties only.

Source: National Center for Education Statistics
* Data unavailable for Philadelphia, Phoenix, Boston, Pittsburgh, & Seattle MSA/PMSA regions

FREE LUNCH QUALIFIERS AS A PERCENT OF ALL STUDENTS

National Comparison Regions	Free Lunch Qualifiers	Total Students	1994-95
			Percent of Total Students
Minneapolis-St. Paul MSA	77,311	474,109	16.3%
St. Louis MSA	79,928	396,403	20.2%
Milwaukee-Waukeesha PMSA	52,807	237,219	22.3%
Indianapolis MSA	56,584	239,829	23.6%
Charlotte-Gastonia-Rock Hill MSA	50,502	204,200	24.7%
Detroit PMSA	180,880	693,728	26.1%
Greenville-Spartanburg-Anderson MSA	37,869	142,358	26.6%
Baltimore PMSA	108,230	385,863	28.0%
Atlanta MSA	165,103	580,442	28.4%
San Jose PMSA	71,582	237,335	30.2%
Dallas PMSA	176,757	531,986	33.2%
Philadelphia PMSA	n/a	709,751	n/a
Phoenix-Mesa MSA	n/a	433,083	n/a
Boston PMSA	n/a	770,722	n/a
Pittsburgh MSA	n/a	332,759	n/a
Seattle-Bellevue-Everett PMSA	n/a	335,427	n/a

Source: National Center for Education Statistics

Ohio Comparison Regions	Free Lunch Qualifiers	Total Students	1994-95
			Percent of Total Students
Columbus MSA	50,881	234,244	21.7%
Canton-Massillon MSA	15,086	68,687	22.0%
Dayton-Springfield MSA	36,829	155,268	23.7%
Mansfield MSA	7,566	31,100	24.3%
Cincinnati PMSA (OH, KY, IN)*	46,056	187,072	24.6%
Cleveland-Akron MSA	118,139	443,720	26.6%
Youngstown-Warren MSA	25,918	97,188	26.7%
Toledo MSA	26,260	95,827	27.4%

Source: National Center for Education Statistics

*National data utilizes Cincinnati metro area across all 3 states; state sources (EMIS) are limited to Ohio counties only.

NE Ohio Breakdown at MSA/PMSA Level	Free Lunch Qualifiers	Total Students	1994-95
			Percent of Total Students
Akron PMSA	23,747	108,548	21.9%
Canton-Massillon MSA	15,086	68,687	22.0%
Youngstown-Warren MSA	25,918	97,188	26.7%
Cleveland-Lorain-Elyria PMSA	94,392	335,172	28.2%

Source: National Center for Education Statistics

NE Ohio Breakdown at County Level	Free Lunch Qualifiers	Total Students	1994-95
			Percent of Total Students
Geauga OH	798	12,194	6.5%
Medina OH	1,753	26,126	6.7%
Lake OH	3,825	35,003	10.9%
Wayne OH	2,765	19,121	14.5%
Portage OH	3,719	24,279	15.3%
Stark OH	14,148	64,582	21.9%
Trumbull OH	8,216	37,413	22.0%
Lorain OH	10,122	45,994	22.0%
Carroll OH	938	4,105	22.9%
Summit OH	20,028	84,269	23.8%
Columbiana OH	4,767	18,818	25.3%
Ashtabula OH	5,305	18,467	28.7%
Mahoning OH	12,935	40,957	31.6%
Cuyahoga OH	72,589	197,388	36.8%

Source: National Center for Education Statistics

B. Students Receiving ADC (Percentage of Average Daily Membership) 1997

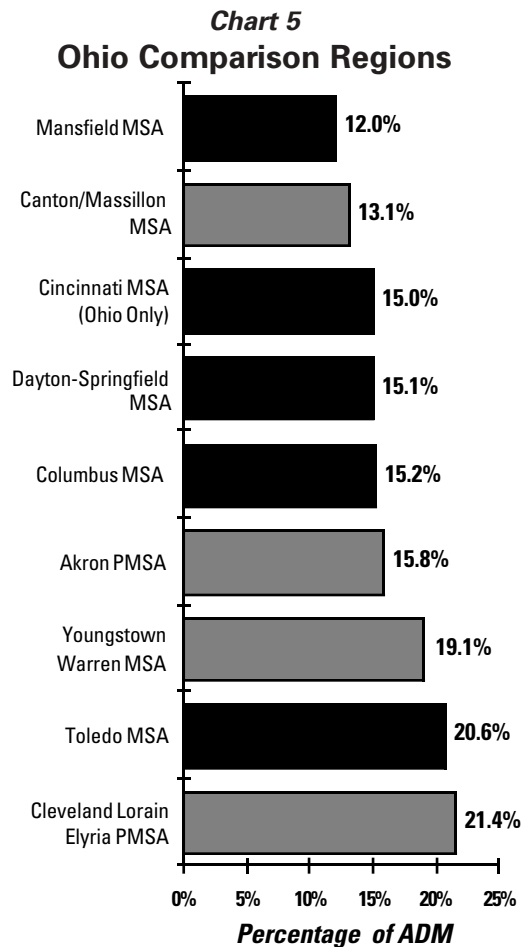
The percentage of students from families receiving Aid to Dependent Children were reported to the Ohio Department of Education's Education Management Information System at the district level. Average Daily Membership (ADM) totals were used to weight the results in order to aggregate the data to county and regional levels.



The Mansfield MSA was the best-in-class for this indicator, with only 12 percent of its students receiving ADC.

State Ranking: The Canton-Massillon MSA ranked 2nd (of 9) among state comparison regions. The Akron PMSA ranked 6th, the Youngstown-Warren MSA ranked 7th, and the Cleveland-Lorain-Elyria PMSA ranked 9th among Ohio comparison regions.

Northeast Ohio Ranking: The Canton-Massillon MSA trailed the best-in-class by 1.1 percentage points while the Akron PMSA trailed by 3.8 percentage points. The Youngstown-Warren MSA and Cleveland-Lorain-Elyria PMSA trailed by 7.1 and 9.4 percentage points respectively.



Source: Ohio Department of Education – Education Management Information System (EMIS)

STUDENTS RECEIVING ADC AS A PERCENT OF AVERAGE DAILY MEMBERSHIP

Ohio Comparison Regions								1990-1997
	1990	1991	1992	1993	1994	1995	1996	1997
Mansfield MSA	11.3%	11.0%	11.5%	12.4%	12.5%	12.8%	12.6%	12.0%
Canton-Massillon MSA	13.7%	13.0%	12.6%	13.0%	13.5%	13.7%	13.7%	13.1%
Cincinnati MSA (Ohio Only)	14.7%	14.5%	14.0%	14.6%	15.4%	15.8%	15.9%	15.0%
Dayton-Springfield MSA	15.3%	14.9%	14.4%	15.1%	15.7%	16.0%	15.9%	15.1%
Columbus MSA	14.3%	14.2%	14.0%	15.1%	15.5%	15.9%	15.8%	15.2%
Youngstown-Warren MSA	19.2%	18.8%	18.4%	19.4%	19.6%	20.0%	19.9%	19.1%
Cleveland-Akron MSA	20.0%	19.6%	18.2%	19.0%	19.9%	20.3%	20.4%	20.1%
Toledo MSA	17.6%	17.6%	18.2%	20.0%	20.4%	21.1%	21.3%	20.6%

Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

NE Ohio: Breakdown at MSA/PMSA Level								1990-1997
	1990	1991	1992	1993	1994	1995	1996	1997
Canton/Massillon MSA	13.7%	13.0%	12.6%	13.0%	13.5%	13.7%	13.7%	13.1%
Akron PMSA	16.2%	15.9%	14.8%	15.5%	16.0%	16.2%	16.3%	15.8%
Youngstown/Warren MSA	19.2%	18.8%	18.4%	19.4%	19.6%	20.0%	19.9%	19.1%
Cleveland/Lorain/Elyria PMSA	21.3%	20.8%	19.3%	20.1%	21.2%	21.6%	21.7%	21.4%

Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

NE Ohio: Breakdown at County Level								1990-1997
	1990	1991	1992	1993	1994	1995	1996	1997
Geauga	2.8%	2.7%	2.6%	2.7%	2.9%	3.1%	3.0%	2.7%
Medina	3.9%	3.4%	3.4%	3.8%	3.8%	3.9%	3.6%	3.3%
Lake	5.3%	4.8%	4.8%	5.4%	5.6%	5.9%	5.9%	5.4%
Wayne	5.6%	5.8%	6.0%	6.3%	6.5%	6.6%	6.3%	5.7%
Portage	10.3%	9.5%	9.3%	10.0%	10.1%	10.3%	10.1%	9.4%
Carroll	10.8%	11.4%	10.9%	11.5%	11.4%	11.5%	10.8%	9.5%
Stark	13.8%	13.1%	12.7%	13.1%	13.7%	13.9%	13.9%	13.3%
Columbiana	16.1%	15.3%	14.9%	15.9%	15.9%	15.9%	15.3%	14.2%
Lorain	14.5%	14.2%	13.8%	14.6%	15.0%	15.3%	15.2%	14.4%
Ashtabula	17.0%	17.2%	15.8%	17.3%	17.2%	17.6%	16.9%	15.5%
Trumbull	15.0%	15.2%	14.9%	16.0%	16.4%	17.0%	16.8%	16.0%
Summit	17.9%	17.7%	16.4%	17.1%	17.9%	18.2%	18.3%	17.8%
Mahoning	24.4%	23.5%	23.3%	24.0%	24.7%	25.1%	25.0%	24.3%
Cuyahoga	29.6%	29.1%	26.7%	27.5%	29.1%	29.7%	30.4%	30.0%

Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

C. Student/Support Services Staff Ratio 1994-95

The National Center for Education Statistics collects information at the school district level on numbers of professional and supervisory staff providing non-instructional and non-guidance counseling services to students. These include attendance officers and staff providing health, psychology, speech pathology, audiology, and social work services.

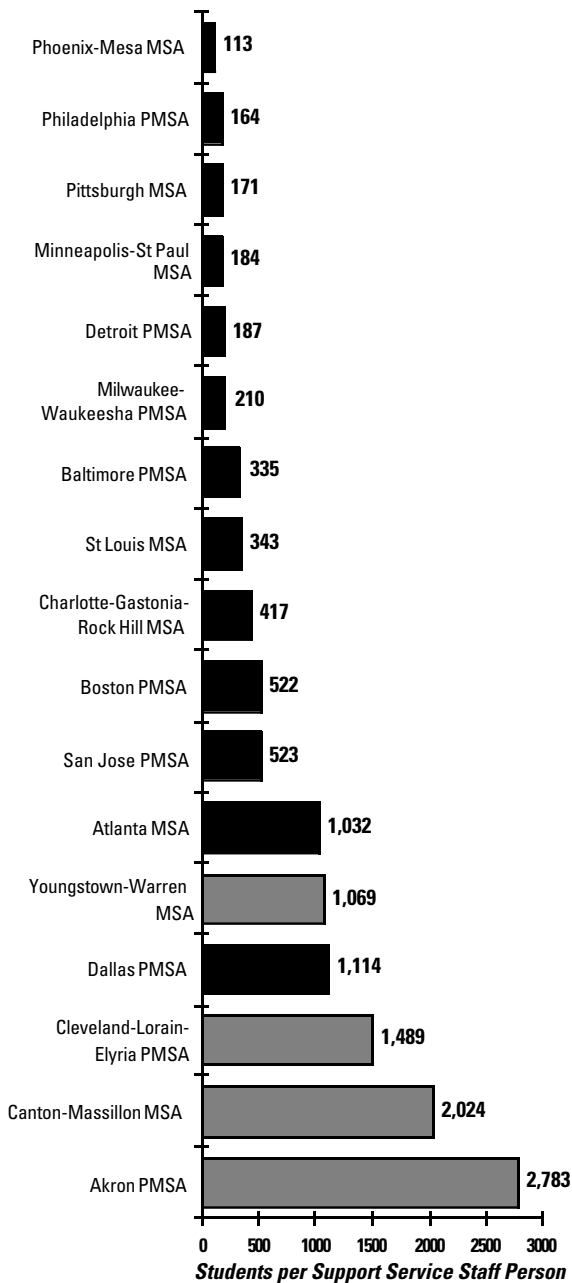


Among both national and state comparison regions, the Northeast Ohio comparison regions were among those revealing the fewest support services staff-per-pupil

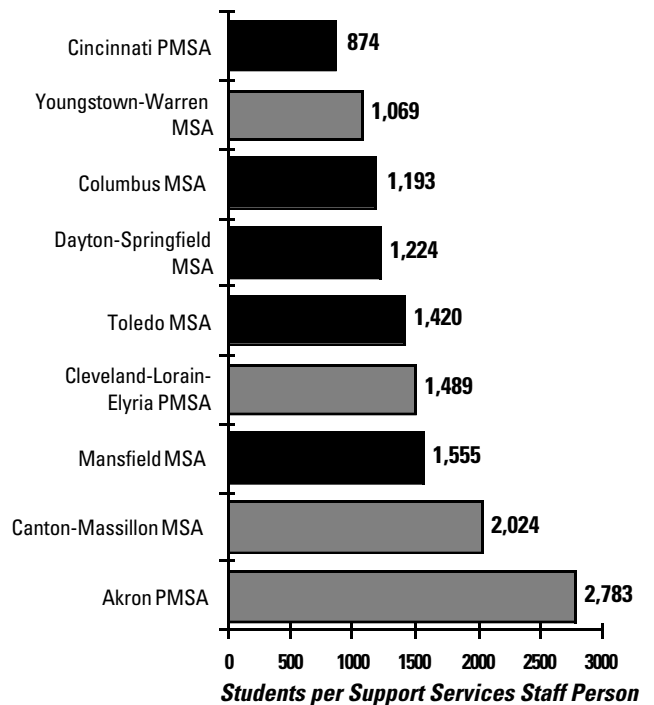
National Ranking: The Akron PMSA ranked 17th (of 17) for this indicator, with 2,670 more pupils per support services staff than the best-in-class Phoenix-Mesa MSA. The Canton-Massillon MSA ranked 16th, the Cleveland-Lorain-Elyria PMSA ranked 15th, and the Youngstown-Warren MSA ranked 13th among national comparison regions.

State Ranking: Among state comparison regions, the Youngstown-Warren MSA exhibited the second most favorable ratio of support services staff-per-pupil with 195 additional students per support services staff than the best-in-class Cincinnati PMSA. The Cleveland-Lorain-Elyria PMSA exhibited 615 additional students than the best-in-class, the Canton-Massillon MSA 1,150, and the Akron PMSA 1,909.

**Chart 6
National Comparison Regions***



**Chart 7
Ohio Comparison Regions**



Source: National Center for Education Statistics

Source: National Center for Education Statistics
Data unavailable for Indianapolis MSA, Greenville-Spartanburg-Anderson MSA and Seattle-Bellevue-Everett PMSA

STUDENT/SUPPORT SERVICES STAFF RATIO

			1994-95
National Comparison Regions	Students	Support Services Staff	Students Per Staff Person
Phoenix-Mesa MSA	443,053	3,928	113
Philadelphia PMSA	709,751	4,322	164
Pittsburgh MSA	332,759	1,945	171
Minneapolis-St. Paul MSA	474,346	2,575	184
Detroit PMSA	693,630	3,714	187
Milwaukee-Waukeesha PMSA	237,219	1,128	210
Baltimore PMSA	385,863	1,151	335
St. Louis MSA	396,412	1,157	343
Charlotte-Gastonia-Rock Hill MSA	204,198	490	417
Boston PMSA	770,689	1,477	522
San Jose PMSA	237,335	454	523
Atlanta MSA	580,442	563	1,032
Dallas PMSA	531,986	478	1,114

Source: National Center for Education Statistics

Data unavailable for Indianapolis MSA, Greenville-Spartanburg-Anderson MSA and Seattle-Bellevue-Everett PMSA

*National data utilizes Cincinnati metro area across all 3 states; state sources (EMIS) are limited to Ohio counties only.

			1994-95
Ohio Comparison Regions	Students	Support Services Staff	Students Per Staff Person
Cincinnati PMSA	187,848	215	874
Columbus MSA	232,718	195	1,193
Dayton-Springfield MSA	155,496	127	1,224
Toledo MSA	96,581	68	1,420
Mansfield MSA	31,100	20	1,555

Source: National Center for Education Statistics

			1994-95
NE Ohio Breakdown at the MSA/PMSA Level	Students	Support Services Staff	Students Per Staff Person
Youngstown-Warren MSA	97,256	91	1,069
Cleveland-Lorain-Elyria PMSA	336,453	226	1,489
Canton-Massillon MSA	68,820	34	2,024
Akron PMSA	108,549	39	2,783

Source: National Center for Education Statistics

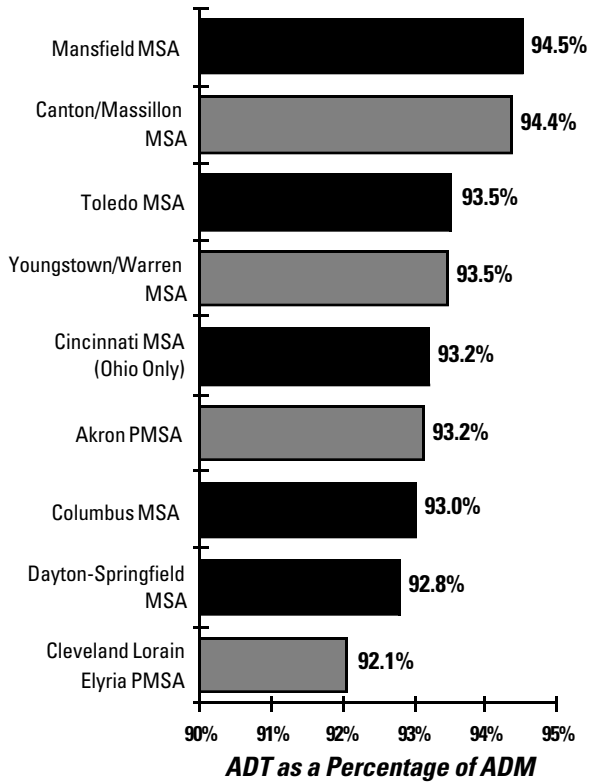
			1994-95
NE Ohio Breakdown at the County Level	Students	Support Services Staff	Students Per Staff Person
Geauga OH	12,221	15	815
Mahoning OH	41,019	41	1,000
Columbiana OH	18,818	18	1,045
Lake OH	35,020	33	1,061
Lorain OH	46,130	40	1,153
Trumbull OH	37,419	32	1,169
Ashtabula OH	18,467	13	1,421
Cuyahoga OH	198,483	123	1,614
Portage OH	24,279	14	1,734
Wayne County	19,121	10	1,912
Stark OH	64,715	32	2,022
Carroll OH	4,105	2	2,053
Summit OH	84,270	25	3,371
Medina OH	26,132	2	13,066

Source: National Center for Education Statistics

II. School Attendance

Attendance Rate 1997

Chart 8
Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS) 1.3 and 2.4 percentage points respectively.

Attendance rates are reported to the Ohio Department of Education. The rates are calculated by dividing Average Daily Attendance (ADT) by Average Daily Membership (ADM). For purposes of this study, attendance rates were multiplied by Average Daily Membership to weight the findings relative to district size. Results were aggregated across county and regional levels and then divided by total ADM for the region.



Attendance rates revealed relatively little variability among state comparison regions, ranging from 95 percent in the Mansfield MSA to 92 percent in the Cleveland-Lorain-Elyria PMSA.

State Ranking: The Mansfield MSA ranked 1st (of 9) among Ohio comparison regions, while the Canton-Massillon MSA ranked 2nd. The Youngstown-Warren MSA ranked 4th and the Akron MSA ranked 6th. The Cleveland-Lorain-Elyria PMSA exhibited the lowest attendance rate among these 9 regions in 1997.

Northeast Ohio Ranking: The Canton-Massillon MSA trailed the best-in-class Mansfield MSA by .1 percentage points while the Canton-Massillon MSA trailed by 1 percentage point. The Akron PMSA and Cleveland-Lorain-Elyria PMSA trailed by 1.3 and 2.4 percentage points respectively.

ATTENDANCE RATE

Ohio Comparison Regions								1990-1997
	1990	1991	1992	1993	1994	1995	1996	1997
Mansfield MSA	94.1%	94.2%	95.3%	94.1%	94.0%	94.3%	94.2%	94.5%
Canton-Massillon MSA	94.7%	94.4%	94.7%	94.6%	94.3%	94.3%	94.2%	94.4%
Toledo MSA	92.7%	93.0%	94.3%	94.0%	93.7%	93.3%	92.9%	93.5%
Youngstown-Warren MSA	93.3%	93.3%	94.1%	93.5%	93.1%	93.4%	93.2%	93.5%
Cincinnati MSA (Ohio Only)	92.7%	93.2%	94.0%	93.2%	90.3%	93.0%	92.6%	93.2%
Columbus MSA	93.5%	93.4%	93.9%	93.9%	94.0%	95.0%	92.9%	93.0%
Dayton-Springfield MSA	92.7%	92.9%	93.4%	92.5%	92.3%	92.6%	91.9%	92.8%
Cleveland-Akron MSA	92.8%	92.7%	93.5%	92.8%	92.4%	92.0%	92.2%	92.3%

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at MSA/PMSA Level								1990-1997
	1990	1991	1992	1993	1994	1995	1996	1997
Canton/Massillon MSA	94.7%	94.4%	94.7%	94.6%	94.3%	94.3%	94.2%	94.4%
Youngstown/Warren MSA	93.3%	93.3%	94.1%	93.5%	93.1%	93.4%	93.2%	93.5%
Akron PMSA	94.0%	93.9%	95.4%	93.7%	93.2%	93.2%	92.9%	93.2%
Cleveland/Lorain/Elyria PMSA	92.4%	92.4%	92.9%	92.6%	92.2%	91.6%	92.0%	92.1%

Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

NE Ohio: Breakdown at County Level								1990-1997
	1990	1991	1992	1993	1994	1995	1996	1997
Medina	94.9%	94.7%	95.2%	95.1%	95.1%	95.1%	95.1%	95.5%
Geauga	95.0%	94.9%	95.5%	95.3%	95.5%	95.4%	95.2%	95.5%
Wayne	94.8%	94.9%	95.4%	95.2%	95.4%	95.2%	95.0%	95.0%
Lake	94.7%	94.6%	95.2%	95.0%	95.2%	95.1%	94.8%	95.0%
Carroll	95.1%	94.8%	94.9%	94.6%	94.7%	95.2%	94.7%	94.8%
Portage	94.5%	94.5%	95.0%	94.4%	94.1%	94.3%	94.4%	94.5%
Stark	94.7%	94.4%	94.7%	94.6%	94.3%	94.3%	94.2%	94.4%
Ashtabula	93.8%	93.9%	95.0%	93.9%	94.1%	94.2%	93.9%	94.3%
Columbiana	93.8%	94.0%	94.9%	94.3%	93.3%	94.1%	94.2%	94.1%
Trumbull	93.4%	93.4%	94.6%	93.8%	93.5%	93.4%	93.2%	93.5%
Mahoning	92.9%	93.0%	93.3%	93.0%	92.6%	93.3%	92.9%	93.3%
Lorain	93.0%	92.8%	93.4%	94.0%	93.0%	92.9%	94.1%	93.2%
Summit	93.8%	93.7%	95.5%	93.5%	92.9%	92.8%	92.5%	92.8%
Cuyahoga	91.4%	91.2%	91.7%	91.1%	90.7%	89.7%	90.2%	90.3%

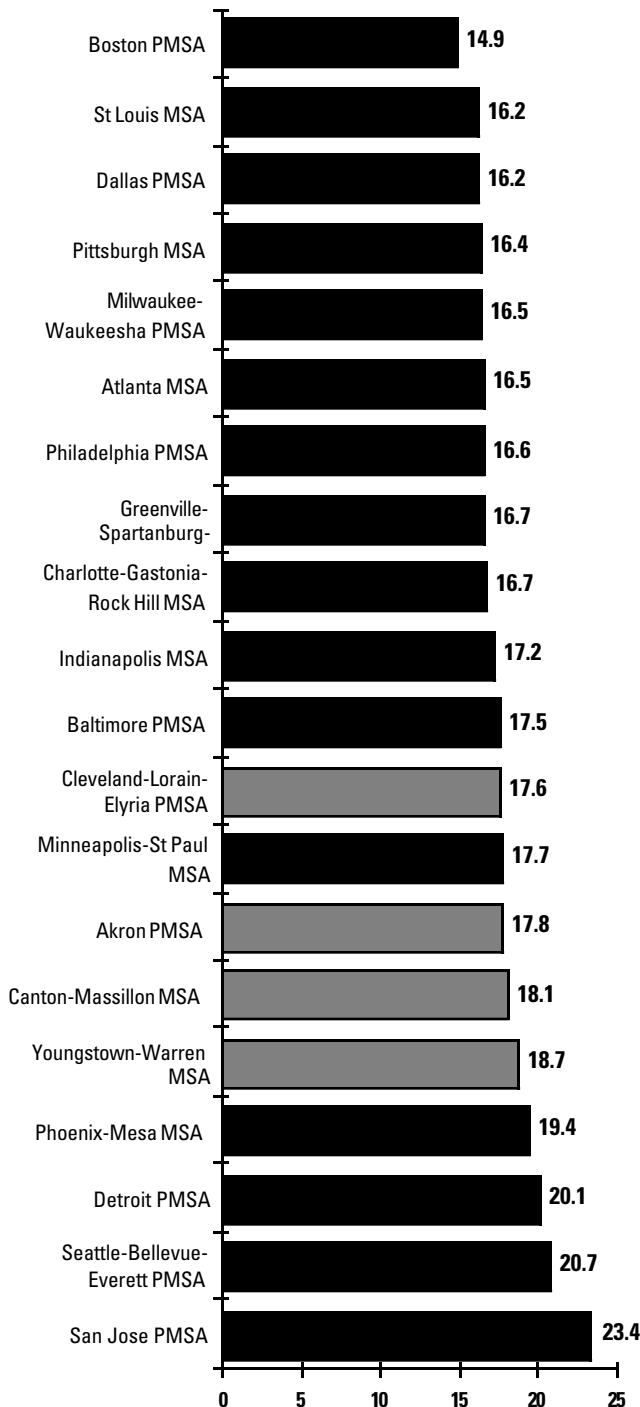
Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

III. Student Support

A. Student/Teacher Ratio National and Ohio Comparison Regions 1994-95

Chart 9

National Comparison Regions



Aggregated counts of teacher full-time equivalence (FTE) and total students provided to the National Center for Education Statistics for the 1994-95 school were used to compare national and state student/teacher ratios.



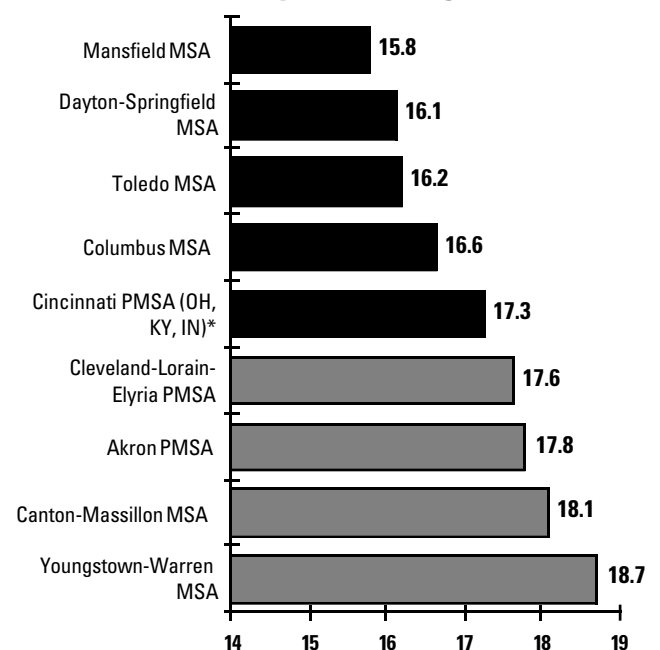
The student/teacher ratios of all Northeast Ohio comparison regions were below the midpoint among national comparison regions.

National Ranking: The Cleveland-Lorain-Elyria PMSA was slightly below the mid-point, ranking 12th (of 20). The Akron PMSA ranked 14th, the Canton-Massillon MSA 15th, and the Youngstown-Warren MSA 16th.

State Ranking: The Cleveland-Lorain-Elyria PMSA exhibited a student-teacher ratio 1.8 students higher than the state's best-in-class Mansfield MSA. The ratio was 2.0 students higher in the Akron PMSA and 2.3 students higher in the Canton-Massillon MSA. The Youngstown-Warren MSA had a student-teacher ratio 2.9 students higher than the best-in-class respectively.

Chart 10

Ohio Comparison Regions



Source: National Center for Education Statistics

Source: National Center for Education Statistics

STUDENT-TEACHER RATIO

			1994-95
National Comparison Regions	Teachers	Students	Ratio
Boston PMSA	51,585	770,689	14.9
St. Louis MSA	24,417	396,412	16.2
Dallas PMSA	32,740	531,986	16.2
Pittsburgh MSA	20,318	332,759	16.4
Milwaukee-Waukeesha PMSA	14,403	237,219	16.5
Atlanta MSA	35,213	580,442	16.5
Philadelphia PMSA	42,696	709,751	16.6
Greenville-Spartanburg-Anderson MSA	8,544	142,305	16.7
Charlotte-Gastonia-Rock Hill MSA	12,195	204,198	16.7
Indianapolis MSA	13,979	240,315	17.2
Baltimore PMSA	21,996	385,863	17.5
Minneapolis-St. Paul MSA	26,732	474,346	17.7
Phoenix-Mesa MSA	22,793	443,053	19.4
Detroit PMSA	34,465	693,630	20.1
Seattle-Bellevue-Everett PMSA	16,189	335,427	20.7
San Jose PMSA	10,155	237,335	23.4

Source: National Center for Education Statistics

			1994-95
Ohio Comparison Regions	Teachers	Students	Ratio
Mansfield MSA	1,971	31,100	15.8
Dayton-Springfield MSA	9,641	155,496	16.1
Toledo MSA	5,961	96,581	16.2
Columbus MSA	13,997	232,718	16.6
Cincinnati PMSA (OH, KY, IN)*	14,568	251,384	17.3

Source: National Center for Education Statistics

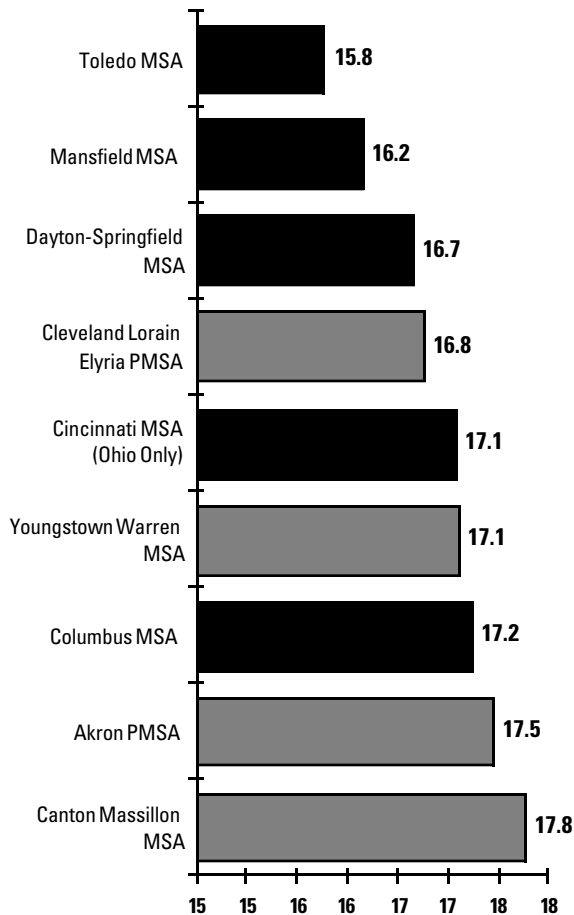
**National data utilizes Cincinnati metro area across all 3 states; state sources (EMIS) are limited to Ohio counties only.*

			1994-95
NE Ohio Breakdown at MSA/PMSA Level	Teachers	Students	Ratio
Cleveland-Lorain-Elyria PMSA	19,087	336,453	17.6
Akron PMSA	6,104	108,549	17.8
Canton-Massillon MSA	3,806	68,820	18.1
Youngstown-Warren MSA	5,196	97,256	18.7

B. Student/Teacher Ratio

Ohio and NE Ohio Comparison Regions 1997

Chart 11
Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio and PMSA/MSA comparisons of student-teacher ratios are based on 1997 teacher Full Time Equivalence (FTE) and student Average Daily Membership (ADM) figures reported to the Ohio Department of Education.



Ohio's largest metropolitan regions demonstrated little variability in terms of student/teacher ratio in 1997 with the exception of the Toledo MSA.

State Ranking: Among state comparison regions, the Cleveland-Lorain-Elyria PMSA ranked 4th (of 9) with a student-teacher ratio of nearly 17:1. The Youngstown-Warren MSA ranked 6th, and the Akron PMSA ranked 8th. The Canton-Massillon MSA exhibited the highest ratio of students to teachers among Ohio comparison regions.

NE Ohio Ranking: In 1997 the Cleveland-Lorain-Elyria PMSA had the lowest student/teacher ratios among Northeast Ohio regions (17:1). The Youngstown-Warren MSA exhibited an additional .3 student-per-teacher, the Akron PMSA .7, and the Canton-Massillon MSA 1.0.

STUDENT/TEACHER RATIO

Ohio Comparison Regions	1997
Toledo MSA	15.8
Mansfield MSA	16.2
Dayton-Springfield MSA	16.7
Cincinnati MSA (Ohio Only)	17.1
Columbus MSA	17.2

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at MSA/PMSA Level	1997
Cleveland Lorain Elyria PMSA	16.8
Youngstown Warren MSA	17.1
Akron PMSA	17.5
Canton Massillon MSA	17.8

Source: Ohio Department of Education - Education Management Information System (EMIS)

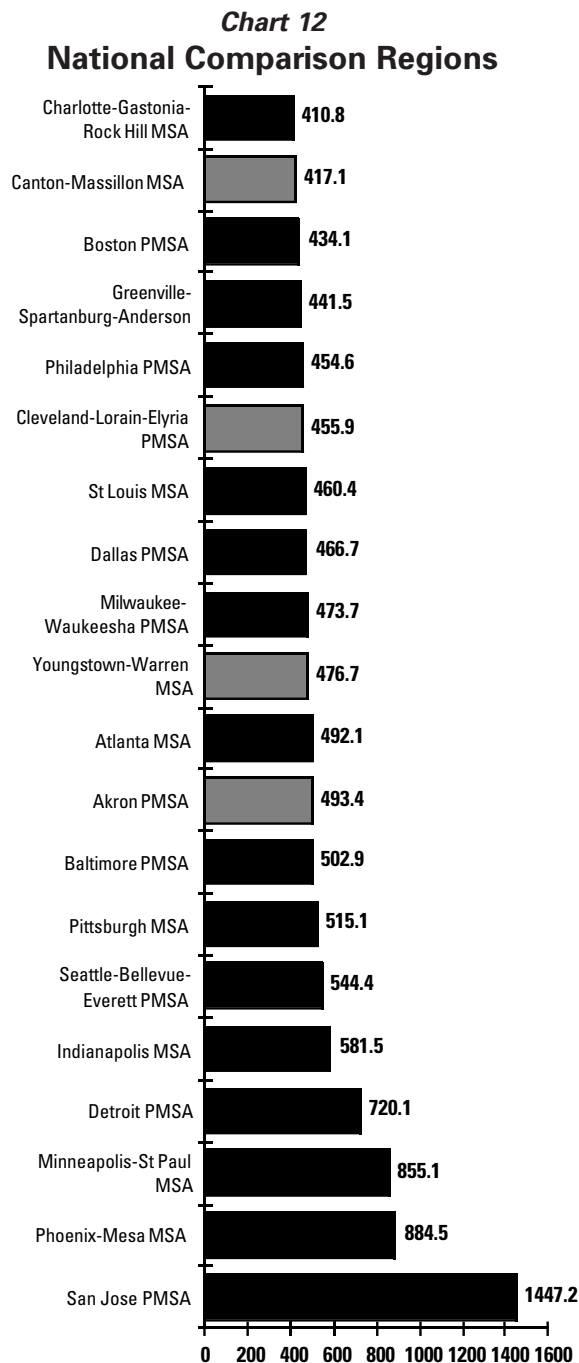
NE Ohio: Breakdown at County Level	1997
Cuyahoga	16.2
Trumbull	16.5
Wayne	16.8
Columbiana	16.9
Lorain	17.0
Portage	17.0
Stark	17.6
Summit	17.6
Lake	17.8
Mahoning	17.8
Geauga	17.9
Ashtabula	18.1
Medina	18.4
Carroll	21.2

Source: Ohio Department of Education - Education Management Information System (EMIS)

C. Student/Academic Counselor Ratio 1994-95

The ratio of students to counselors is based on information provided to the NCES at the school district level for the 1994-95 school year. Counts of students and counselors were aggregated to county and regional levels. Both elementary and secondary counselors are included in these figures. NCES defines counselors as professional staff assigned specific duties and school

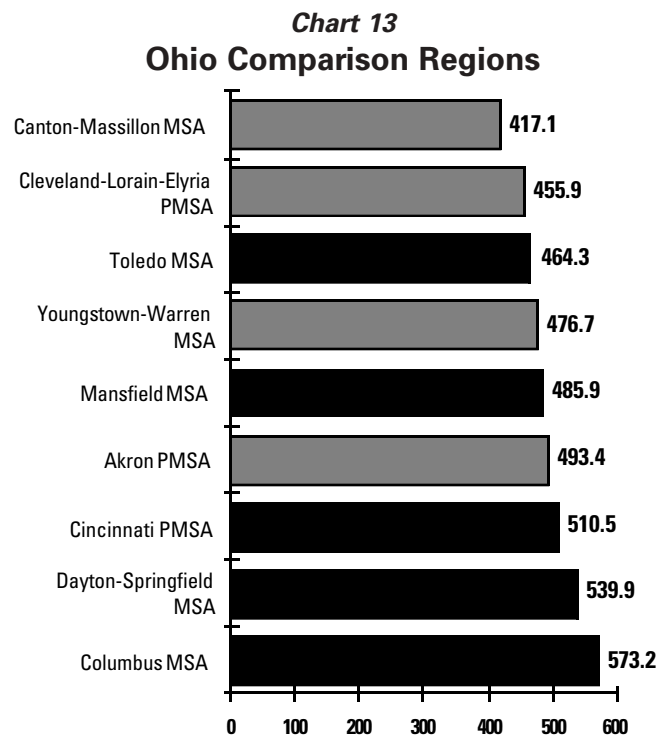
time for the following activities: counseling with students and parents; consulting with other staff members on learning problems; evaluating students' abilities; assisting students in making educational and career choices; assisting students in personal and social development; providing referral assistance; and working with other staff members in planning and conducting guidance programs for students.



The Canton-Massillon MSA, and the Cleveland-Lorain-Elyria PMSA were among the national comparison regions exhibiting the most favorable student-counselor ratios.

National Ranking: Among national comparison regions the Canton-Massillon MSA was the second best-in class for this indicator. The Cleveland-Lorain-Elyria PMSA ranked 6th (of 20), the Youngstown-Warren MSA ranked 10th, and the Akron PMSA ranked 12th.

State Ranking: Among state comparison regions, the Canton-Massillon MSA was the best-in-class for this indicator. The Cleveland-Lorain-Elyria PMSA an additional 38.8 students per counselor. The Youngstown-Warren MSA and the Akron PMSA exhibited 59.6 and 76.3 additional students per counselor than the best-in-class Canton-Massillon MSA.



Source: National Center for Education Statistics

STUDENT/ACADEMIC COUNSELOR RATIO (ELEMENTARY AND SECONDARY COMBINED)

	Students	Guidance Counselors	1994-95 Ratio
National Comparison Regions			
Charlotte-Gastonia-Rock Hill MSA	204,198	497	411
Boston PMSA	770,689	1,775	434
Greenville-Spartanburg-Anderson MSA	142,305	322	442
Philadelphia PMSA	709,751	1,561	455
St. Louis MSA	396,412	861	460
Dallas PMSA	531,986	1,140	467
Milwaukee-Waukeesha PMSA	237,219	501	474
Atlanta MSA	580,442	1,180	492
Baltimore PMSA	385,863	767	503
Pittsburgh MSA	332,759	646	515
Seattle-Bellevue-Everett PMSA	335,427	616	544
Indianapolis MSA	240,315	413	581
Detroit PMSA	693,630	963	720
Minneapolis-St. Paul MSA	474,346	555	855
Phoenix-Mesa MSA	443,053	501	885
San Jose PMSA	237,335	164	1447

Source: National Center for Education Statistics

	Students	Guidance Counselors	1994-95 Ratio
Ohio Comparison Regions			
Toledo MSA	96,581	208	464
Mansfield MSA	31,100	64	486
Cincinnati PMSA	187,848	368	510
Dayton-Springfield MSA	155,496	288	540
Columbus MSA	232,718	406	573

Source: National Center for Education Statistics

	Students	Guidance Counselors	1994-95 Ratio
NE Ohio Breakdown at MSA/PMSA Level			
Canton-Massillon MSA	68,820	165	417
Cleveland-Lorain-Elyria PMSA	336,453	738	456
Youngstown-Warren MSA	97,256	204	477
Akron PMSA	108,549	220	493

Source: National Center for Education Statistics

	Students	Guidance Counselors	1994-95 Ratio
NE Ohio Breakdown at County Level			
Lorain OH	46,130	114	405
Stark OH	64,715	158	410
Columbiana OH	18,818	43	438
Cuyahoga OH	198,483	447	444
Wayne OH	19,121	43	445
Lake OH	35,020	77	455
Portage OH	24,279	53	458
Mahoning OH	41,019	86	477
Trumbull OH	37,419	75	499
Summit OH	84,270	167	505
Geauga OH	12,221	24	509
Ashtabula OH	18,467	34	543
Carroll OH	4,105	7	586
Medina OH	26,132	42	622

Source: National Center for Education Statistics

IV. Student Achievement

A. Percentage of 4th Grade Students Passing Proficiency Tests Ohio Comparison Regions: 1998



The percentage of 4th graders from Northeast Ohio regions passing writing, reading, math, science, and citizenship proficiency tests were consistently among the highest of all state comparison regions.

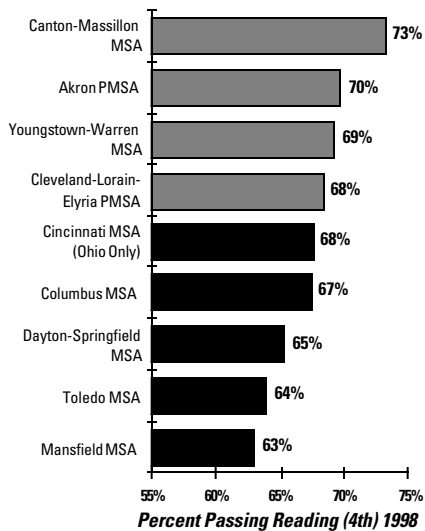
The Canton-Massillon MSA exceeded all other Northeast Ohio regions in terms of the percentages of 4th graders passing reading, math, citizenship, and science. The Cleveland-Lorain-Elyria PMSA exhibited the highest percentages of 4th graders passing writing tests.

Table 1
Summary
4th Grade Proficiency Tests 1998

	Akron PMSA	Canton Massillon MSA	Cleve Lorain Elyria PMSA	Youngstown Warren MSA
Citizenship	78%	81%	79%	78%
Math	58%	60%	58%	57%
Reading	70%	73%	68%	69%
Science	64%	65%	62%	61%
Writing	60%	60%	62%	59%

Source: Ohio Department of Education - Education Management Information System (EMIS)

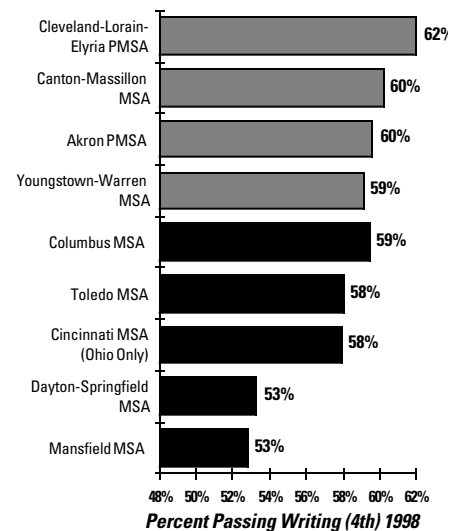
Chart 14
4th Grade: Reading



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 73 percent to a low of 63 percent. Canton-Massillon MSA 4th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing reading tests. The Akron PMSA ranked 2nd, the Youngstown-Warren MSA 3rd, and the Cleveland-Lorain-Elyria PMSA 4th.

Chart 15
4th Grade: Writing Test

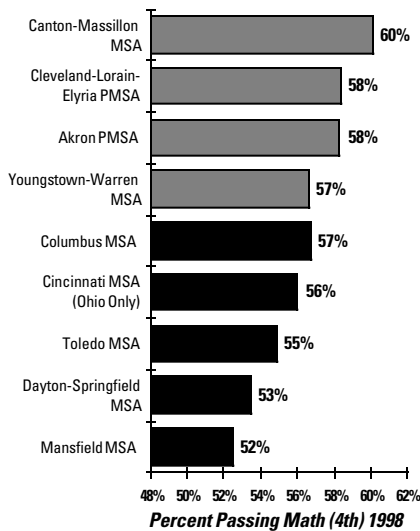


Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 60 percent to a low of 52 percent. Canton-Massillon MSA 4th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing math tests. The Cleveland-Lorain-Elyria PMSA ranked 2nd, the Akron PMSA 3rd, and the Youngstown-Warren MSA 4th.

C. Percentage of 4th Grade Students Passing Proficiency Tests Ohio Comparison Regions 1998

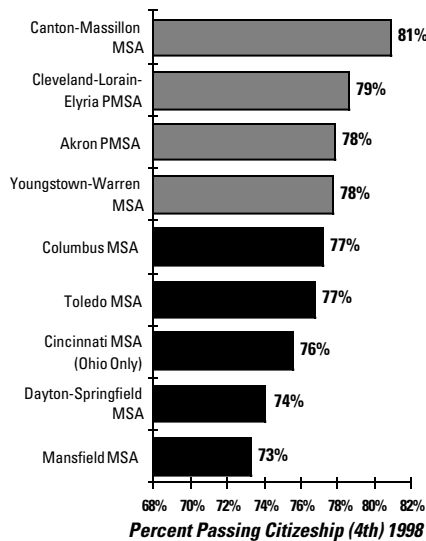
Chart 16
4th Grade: Math



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 62 percent to a low of 53 percent. Among state comparison regions, the Cleveland-Lorain-Elyria PMSA demonstrated the highest percentage of 4th graders passing writing tests, followed by the Canton-Massillon MSA. The Akron PMSA ranked 3rd among state comparison regions and the Youngstown-Warren MSA ranked 4th among state comparison regions.

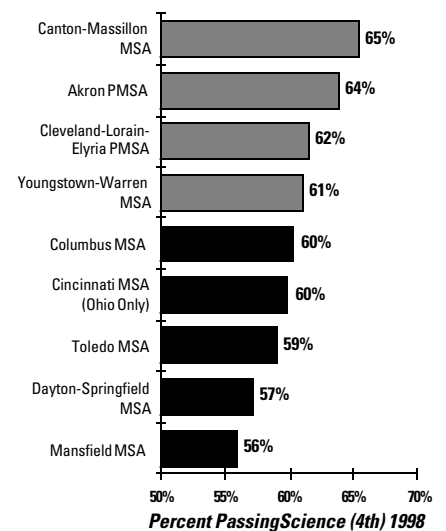
Chart 17
4th Grade: Citizenship



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 81 percent to a low of 73 percent. Canton-Massillon MSA 4th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing citizenship tests. The Cleveland-Lorain-Elyria PMSA ranked 2nd, the Akron PMSA 3rd, and the Youngstown-Warren MSA 4th.

Chart 18
4th Grade: Science



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 65 percent to a low of 56 percent. Canton-Massillon MSA 4th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing science tests. The Akron PMSA ranked 2nd, the Cleveland-Lorain-Elyria PMSA 3rd, and the Youngstown-Warren MSA 4th.

PERCENT OF 4TH GRADERS PASSING READING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
4th Grade Reading Test	1995	1996	1997	1998
Canton-Massillon MSA	87%	87%	68%	73%
Youngstown-Warren MSA	86%	83%	64%	69%
Cleveland-Akron MSA	84%	82%	65%	69%
Cincinnati MSA (Ohio Only)	83%	82%	65%	68%
Columbus MSA	82%	81%	63%	67%
Dayton-Springfield MSA	83%	81%	63%	65%
Toledo MSA	83%	82%	62%	64%
Mansfield MSA	81%	81%	63%	63%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
4th Grade Reading Test	1995	1996	1997	1998
Canton/Massillon MSA	87%	87%	68%	73%
Akron PMSA	86%	85%	68%	70%
Youngstown/Warren MSA	86%	83%	64%	69%
Cleveland/Lorain/Elyria PMSA	83%	81%	64%	68%
NE Ohio: Breakdown at County Level	1995-1998			
4th Grade Reading Test	1995	1996	1997	1998
Geauga	95%	94%	79%	85%
Medina	91%	89%	75%	80%
Lake	90%	90%	74%	79%
Wayne	91%	88%	67%	77%
Portage	91%	89%	75%	77%
Stark	87%	87%	68%	73%
Trumbull	87%	85%	65%	72%
Columbiana	87%	84%	65%	72%
Carroll	90%	83%	69%	71%
Ashtabula	84%	79%	62%	69%
Lorain	82%	83%	63%	68%
Summit	85%	84%	66%	68%
Mahoning	84%	80%	63%	66%
Cuyahoga	80%	77%	60%	64%

PERCENT OF 4TH GRADERS PASSING WRITING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
4th Grade Writing Test	1995	1996	1997	1998
Cleveland-Akron MSA	84%	79%	68%	61%
Canton-Massillon MSA	86%	83%	72%	60%
Columbus MSA	84%	76%	66%	59%
Youngstown-Warren MSA	85%	78%	67%	59%
Toledo MSA	82%	78%	65%	58%
Cincinnati MSA (Ohio Only)	85%	80%	67%	58%
Dayton-Springfield MSA	82%	77%	63%	53%
Mansfield MSA	82%	76%	64%	53%

NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
4th Grade Writing Test	1995	1996	1997	1998
Cleveland/Lorain/Elyria PMSA	83%	79%	67%	62%
Canton/Massillon MSA	86%	83%	72%	60%
Akron PMSA	85%	80%	70%	60%
Youngstown/Warren MSA	85%	78%	67%	59%

NE Ohio: Breakdown at County Level	1995-1998			
4th Grade Writing Test	1995	1996	1997	1998
Geauga	94%	93%	85%	81%
Medina	93%	87%	78%	75%
Portage	88%	85%	76%	71%
Lake	89%	86%	79%	69%
Wayne	89%	84%	70%	64%
Lorain	84%	80%	69%	62%
Stark	86%	83%	72%	61%
Trumbull	86%	79%	69%	60%
Mahoning	85%	77%	65%	59%
Cuyahoga	80%	76%	62%	58%
Ashtabula	82%	73%	66%	57%
Summit	85%	79%	68%	57%
Columbiana	84%	79%	65%	56%
Carroll	93%	82%	71%	53%
Mahoning	85%	77%	65%	59%
Cuyahoga	80%	76%	62%	58%
Ashtabula	82%	73%	66%	57%
Summit	85%	79%	68%	57%
Columbiana	84%	79%	65%	56%
Carroll	93%	82%	71%	53%

PERCENT OF 4TH GRADERS PASSING MATH TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
4th Grade Math Test	1995	1996	1997	1998
Canton-Massillon MSA	73%	79%	56%	60%
Cleveland-Akron MSA	66%	72%	52%	58%
Columbus MSA	66%	72%	50%	57%
Youngstown-Warren MSA	69%	73%	49%	57%
Cincinnati MSA (Ohio Only)	67%	71%	51%	56%
Toledo MSA	65%	72%	49%	55%
Dayton-Springfield MSA	67%	72%	49%	53%
Mansfield MSA	66%	69%	44%	52%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
4th Grade Math Test	1995	1996	1997	1998
Canton/Massillon MSA	73%	79%	56%	60%
Cleveland/Lorain/Elyria PMSA	64%	71%	51%	58%
Akron PMSA	73%	77%	55%	58%
Youngstown/Warren MSA	69%	73%	49%	57%
NE Ohio: Breakdown at County Level	1995-1998			
4th Grade Math Test	1995	1996	1997	1998
Geauga	83%	91%	67%	76%
Lake	78%	83%	62%	72%
Medina	77%	83%	63%	72%
Portage	78%	84%	63%	68%
Wayne	80%	83%	57%	65%
Trumbull	72%	77%	53%	61%
Stark	73%	79%	56%	60%
Carroll	76%	79%	54%	57%
Summit	71%	75%	53%	56%
Lorain	62%	70%	46%	55%
Mahoning	67%	69%	47%	55%
Cuyahoga	59%	66%	47%	54%
Columbiana	67%	73%	47%	52%
Ashtabula	65%	67%	46%	51%

PERCENT OF 4TH GRADERS PASSING CITIZENSHIP TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
4th Grade Citizenship Test	1995	1996	1997	1998
Canton-Massillon MSA	89%	90%	80%	81%
Cleveland-Akron MSA	85%	85%	77%	78%
Youngstown-Warren MSA	88%	86%	75%	78%
Columbus MSA	83%	83%	73%	77%
Toledo MSA	86%	87%	75%	77%
Cincinnati MSA (Ohio Only)	83%	85%	74%	76%
Dayton-Springfield MSA	85%	83%	73%	74%
Mansfield MSA	84%	83%	71%	73%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
4th Grade Citizenship Test	1995	1996	1997	1998
Canton/Massillon MSA	89%	90%	80%	81%
Cleveland/Lorain/Elyria PMSA	84%	83%	76%	79%
Akron PMSA	88%	89%	79%	78%
Youngstown/Warren MSA	88%	86%	75%	78%
NE Ohio: Breakdown at County Level	1995-1998			
4th Grade Citizenship Test	1995	1996	1997	1998
Geauga	96%	95%	89%	91%
Medina	92%	92%	86%	89%
Lake	92%	93%	84%	88%
Wayne	94%	93%	83%	86%
Portage	92%	93%	84%	85%
Carroll	93%	86%	76%	82%
Stark	89%	90%	81%	81%
Lorain	84%	85%	76%	80%
Trumbull	89%	88%	77%	79%
Columbiana	89%	87%	75%	79%
Ashtabula	87%	83%	77%	79%
Mahoning	86%	83%	74%	76%
Summit	87%	87%	78%	76%
Cuyahoga	79%	79%	72%	75%

PERCENT OF 4TH GRADERS PASSING SCIENCE TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998		
4th Grade Science Test	1996	1997	1998
Canton-Massillon MSA	63%	62%	65%
Cleveland-Akron MSA	58%	58%	62%
Youngstown-Warren MSA	58%	58%	61%
Columbus MSA	59%	58%	60%
Cincinnati MSA (Ohio Only)	58%	57%	60%
Toledo MSA	60%	56%	59%
Dayton-Springfield MSA	57%	55%	57%
Mansfield MSA	58%	53%	56%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998		
4th Grade Science Test	1996	1997	1998
Canton/Massillon MSA	63%	62%	65%
Akron PMSA	64%	62%	64%
Cleveland/Lorain/Elyria PMSA	56%	57%	62%
Youngstown/Warren MSA	58%	58%	61%
NE Ohio: Breakdown at County Level	1995-1998		
4th Grade Science Test	1996	1997	1998
Geauga	83%	75%	82%
Medina	70%	71%	76%
Lake	69%	69%	75%
Portage	72%	70%	72%
Wayne	65%	62%	71%
Stark	63%	62%	66%
Carroll	55%	61%	64%
Trumbull	59%	61%	62%
Summit	62%	60%	62%
Columbiana	60%	58%	61%
Ashtabula	52%	56%	61%
Mahoning	56%	55%	60%
Lorain	59%	55%	60%
Cuyahoga	50%	53%	56%

B. Percentage of 6th Grade Students Passing Proficiency Tests

Ohio Comparison Regions: 1998



Unlike the 4th grade results, some Northeast Ohio regions ranked lower among state comparison regions in the percentages passing 6th grade proficiency tests

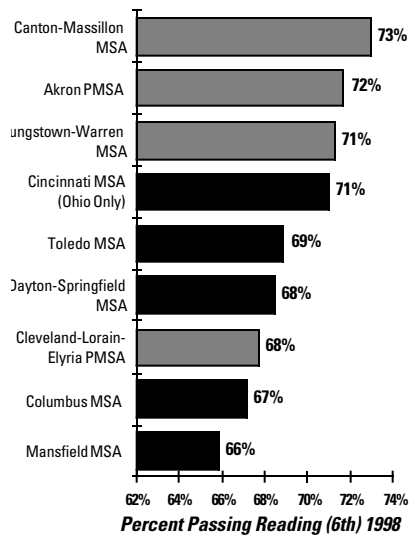
Among Northeast Ohio regions, the Canton-Massillon MSA exceeded all others in the percentage passing each of the 5 proficiency tests.

Table 2
Summary
6th Grade Proficiency Tests 1998

	Akron PMSA	Canton Massillon MSA	Cleve Lorain Elyria PMSA	Youngstown Warren MSA
Citizenship	69%	70%	66%	68%
Math	50%	51%	46%	48%
Reading	72%	73%	68%	71%
Science	54%	54%	49%	53%
Writing	89%	92%	87%	89%

Source: Ohio Department of Education - Education Management Information System (EMIS)

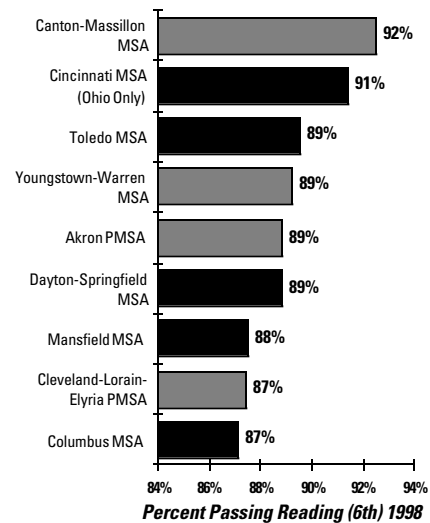
Chart 19
6th Grade: Reading



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 77 percent to a low of 66 percent. Wayne County 6th graders ranked 1st (of 10) among Ohio comparison regions in terms of the percentage passing reading tests. The Canton-Massillon MSA ranked 2nd, the Akron PMSA 3rd, the Youngstown-Warren MSA 4th and the Cleveland-Lorain-Elyria PMSA 8th.

Chart 20
6th Grade: Writing



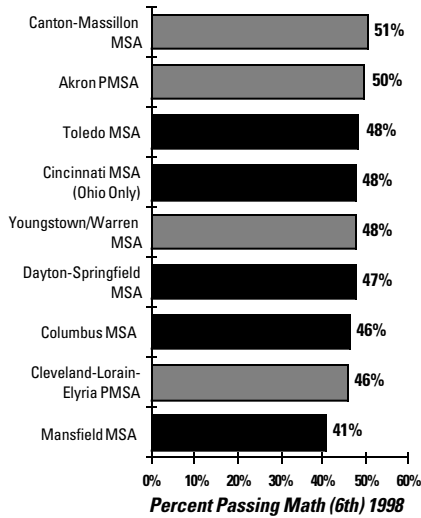
Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 92 percent to a low of 87 percent. Canton-Massillon MSA 6th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing writing tests. The Youngstown-Warren MSA ranked 4th, the Akron PMSA 5th, and the Cleveland-Lorain-Elyria PMSA 8th.

Percentage of 6th Grade Students Passing Proficiency Tests

Ohio Comparison Regions: 1998

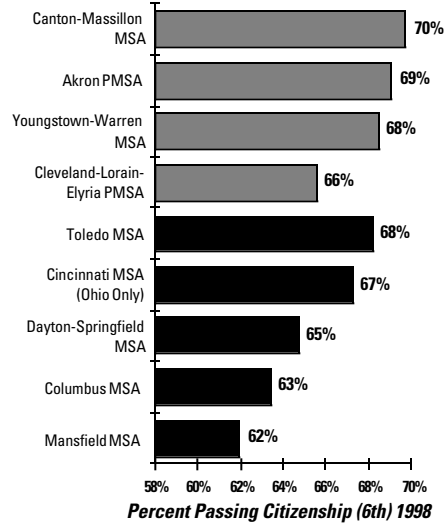
Chart 21
6th Grade: Math



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 51 percent to a low of 41 percent. Canton-Massillon MSA 6th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing math tests. The Akron PMSA ranked 2nd, the Youngstown-Warren MSA 5th, and the Cleveland-Lorain-Elyria PMSA 8th.

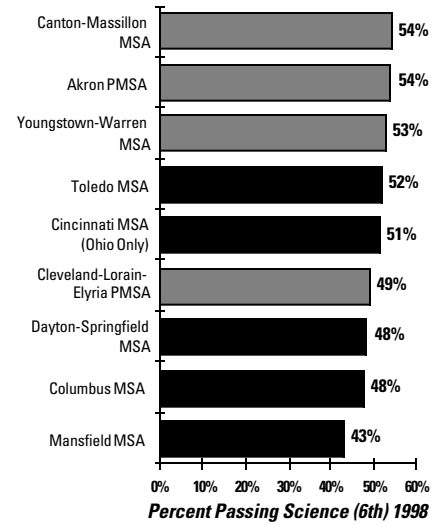
Chart 22
6th Grade: Citizenship



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 70 percent to a low of 62 percent. Canton-Massillon MSA 6th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing math tests. The Akron PMSA ranked 2nd, the Youngstown-Warren MSA 3rd, and the Cleveland-Lorain-Elyria PMSA 4th.

Chart 23
6th Grade: Science



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 54 percent to a low of 43 percent. Canton-Massillon MSA 6th graders ranked 1st (of 9) among Ohio comparison regions in terms of the percentage passing science tests. The Akron PMSA ranked 2nd, the Youngstown-Warren MSA 3rd, and the Cleveland-Lorain-Elyria PMSA 6th.

PERCENT OF 6TH GRADERS PASSING READING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions				1995-1998
	1995	1996	1997	1998
6th Grade Reading Test				
Canton-Massillon MSA	n/a	77%	78%	73%
Youngstown-Warren MSA	n/a	77%	78%	71%
Cincinnati MSA (Ohio Only)	n/a	74%	76%	71%
Toledo MSA	n/a	75%	75%	69%
Cleveland-Akron MSA	n/a	72%	74%	69%
Dayton-Springfield MSA	n/a	73%	74%	68%
Columbus MSA	n/a	74%	73%	67%
Mansfield MSA	n/a	72%	75%	66%
NE Ohio: Breakdown at MSA/PMSA Level				1995-1998
	1995	1996	1997	1998
6th Grade Reading Test				
Canton/Massillon MSA	n/a	77%	78%	73%
Akron PMSA	n/a	76%	78%	72%
Youngstown/Warren MSA	n/a	77%	78%	71%
Cleveland/Lorain/Elyria PMSA	n/a	71%	72%	68%
NE Ohio: Breakdown at County Level				1995-1998
	1995	1996	1997	1998
6th Grade Reading Test				
Geauga	n/a	87%	85%	86%
Medina	n/a	84%	84%	82%
Lake	n/a	83%	84%	80%
Wayne	n/a	81%	83%	77%
Portage	n/a	83%	82%	76%
Stark	n/a	77%	77%	73%
Columbiana	n/a	77%	77%	71%
Mahoning	n/a	76%	77%	71%
Trumbull	n/a	79%	78%	71%
Carroll	n/a	75%	83%	71%
Summit	n/a	73%	77%	70%
Lorain	n/a	74%	75%	70%
Ashtabula	n/a	71%	75%	66%
Cuyahoga	n/a	66%	66%	62%

PERCENT OF 6TH GRADERS PASSING WRITING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
6th Grade Writing Test	1995	1996	1997	1998
Canton-Massillon MSA	n/a	65%	78%	92%
Cincinnati MSA (Ohio Only)	n/a	65%	75%	91%
Toledo MSA	n/a	64%	73%	89%
Youngstown-Warren MSA	n/a	69%	77%	89%
Dayton-Springfield MSA	n/a	63%	73%	89%
Cleveland-Akron MSA	n/a	63%	74%	88%
Mansfield MSA	n/a	62%	76%	88%
Columbus MSA	n/a	62%	72%	87%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
6th Grade Writing Test	1995	1996	1997	1998
Canton/Massillon MSA	n/a	65%	78%	92%
Youngstown/Warren MSA	n/a	69%	77%	89%
Akron PMSA	n/a	65%	74%	89%
Cleveland/Lorain/Elyria PMSA	n/a	63%	73%	87%
NE Ohio: Breakdown at County Level	1995-1998			
6th Grade Writing Test	1995	1996	1997	1998
Geauga	n/a	77%	86%	95%
Medina	n/a	71%	83%	94%
Wayne	n/a	69%	78%	94%
Portage	n/a	70%	78%	93%
Stark	n/a	65%	78%	92%
Carroll	n/a	66%	80%	92%
Lorain	n/a	69%	79%	91%
Trumbull	n/a	69%	76%	90%
Columbiana	n/a	63%	77%	90%
Ashtabula	n/a	57%	72%	89%
Mahoning	n/a	71%	77%	88%
Summit	n/a	64%	73%	88%
Cuyahoga	n/a	59%	69%	83%

PERCENT OF 6TH GRADERS PASSING MATH TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions				1995-1998
6th Grade Math Test	1995	1996	1997	1998
Canton-Massillon MSA	n/a	47%	57%	51%
Toledo MSA	n/a	47%	53%	48%
Cincinnati MSA (Ohio Only)	n/a	45%	51%	48%
Youngstown-Warren MSA	n/a	47%	53%	48%
Dayton-Springfield MSA	n/a	45%	50%	47%
Cleveland-Akron MSA	n/a	44%	48%	47%
Columbus MSA	n/a	46%	51%	46%
Mansfield MSA	n/a	39%	47%	41%
NE Ohio: Breakdown at MSA/PMSA Level				1995-1998
6th Grade Math Test	1995	1996	1997	1998
Canton/Massillon MSA	n/a	47%	57%	51%
Akron PMSA	n/a	49%	54%	50%
Youngstown/Warren MSA	n/a	47%	53%	48%
Cleveland/Lorain/Elyria PMSA	n/a	42%	46%	46%
NE Ohio: Breakdown at County Level				1995-1998
6th Grade Math Test	1995	1996	1997	1998
Geauga	n/a	63%	64%	66%
Medina	n/a	60%	66%	61%
Wayne	n/a	57%	66%	61%
Lake	n/a	54%	57%	58%
Portage	n/a	54%	60%	57%
Stark	n/a	48%	57%	51%
Trumbull	n/a	51%	58%	49%
Mahoning	n/a	43%	51%	48%
Summit	n/a	47%	52%	48%
Carroll	n/a	41%	51%	47%
Lorain	n/a	40%	47%	46%
Ashtabula	n/a	37%	43%	45%
Columbiana	n/a	43%	48%	44%
Cuyahoga	n/a	37%	39%	40%

PERCENT OF 6TH GRADERS PASSING CITIZENSHIP TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
6th Grade Citizenship Test	1995	1996	1997	1998
Canton-Massillon MSA	n/a	65%	67%	70%
Youngstown-Warren MSA	n/a	66%	68%	68%
Toledo MSA	n/a	65%	67%	68%
Cincinnati MSA (Ohio Only)	n/a	64%	65%	67%
Cleveland-Akron MSA	n/a	61%	64%	66%
Dayton-Springfield MSA	n/a	61%	63%	65%
Columbus MSA	n/a	60%	63%	63%
Mansfield MSA	n/a	58%	64%	62%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
6th Grade Citizenship Test	1995	1996	1997	1998
Canton/Massillon MSA	n/a	65%	67%	70%
Akron PMSA	n/a	66%	68%	69%
Youngstown/Warren MSA	n/a	66%	68%	68%
Cleveland/Lorain/Elyria PMSA	n/a	60%	62%	66%
NE Ohio: Breakdown at County Level	1995-1998			
6th Grade Citizenship Test	1995	1996	1997	1998
Geauga	n/a	79%	79%	84%
Medina	n/a	73%	78%	82%
Lake	n/a	73%	75%	78%
Wayne	n/a	71%	76%	76%
Portage	n/a	71%	71%	75%
Stark	n/a	65%	67%	70%
Carroll	n/a	60%	63%	69%
Trumbull	n/a	68%	69%	69%
Mahoning	n/a	66%	68%	69%
Lorain	n/a	60%	64%	68%
Columbiana	n/a	63%	66%	67%
Summit	n/a	64%	67%	67%
Ashtabula	n/a	57%	66%	63%
Cuyahoga	n/a	54%	56%	60%

PERCENT OF 6TH GRADERS PASSING SCIENCE TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1995-1998			
6th Grade Science Test	1995	1996	1997	1998
Canton-Massillon MSA	n/a	44%	45%	54%
Youngstown-Warren MSA	n/a	44%	43%	53%
Toledo MSA	n/a	46%	44%	52%
Cincinnati MSA (Ohio Only)	n/a	44%	44%	51%
Cleveland-Akron MSA	n/a	41%	41%	50%
Dayton-Springfield MSA	n/a	40%	39%	48%
Columbus MSA	n/a	41%	41%	48%
Mansfield MSA	n/a	40%	39%	43%
NE Ohio: Breakdown at MSA/PMSA Level	1995-1998			
6th Grade Science Test	1995	1996	1997	1998
Canton/Massillon MSA	n/a	44%	45%	54%
Akron PMSA	n/a	46%	46%	54%
Youngstown/Warren MSA	n/a	44%	43%	53%
Cleveland/Lorain/Elyria PMSA	n/a	40%	39%	49%
NE Ohio: Breakdown at County Level	1995-1998			
6th Grade Science Test	1995	1996	1997	1998
Geauga	n/a	64%	57%	72%
Medina	n/a	52%	55%	65%
Lake	n/a	52%	51%	62%
Portage	n/a	52%	51%	61%
Wayne	n/a	52%	53%	60%
Stark	n/a	44%	45%	54%
Mahoning	n/a	42%	43%	53%
Trumbull	n/a	45%	43%	52%
Summit	n/a	44%	45%	52%
Columbiana	n/a	47%	44%	52%
Lorain	n/a	38%	41%	51%
Carroll	n/a	37%	40%	48%
Ashtabula	n/a	38%	38%	48%
Cuyahoga	n/a	35%	33%	42%

C. Percentage of 9th Grade Students Passing Proficiency Tests Ohio Comparison Regions 1998



Compared to 4th and 6th grade results, 9th grade proficiency results among Northeast Ohio regions exhibited more variability in relation to Ohio comparison regions.

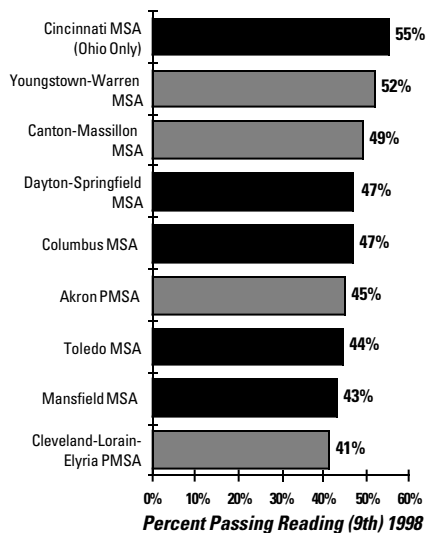
Among Northeast Ohio regions, the Youngstown-Warren MSA ranked 1st (of 4) in terms of the percentage of 9th graders passing both reading and writing tests. The Canton-Massillon MSA ranked first in citizenship and science.

Table 3
Summary
9th Grade Proficiency Tests 1998

	Akron PMSA	Canton Massillon MSA	Cleve Lorain Elyria PMSA	Youngstown Warren MSA
Citizenship	30%	31%	27%	30%
Math	24%	28%	21%	26%
Reading	45%	49%	41%	52%
Science	24%	27%	20%	25%
Writing	52%	58%	49%	60%

Source: Ohio Department of Education - Education Management Information System (EMIS)

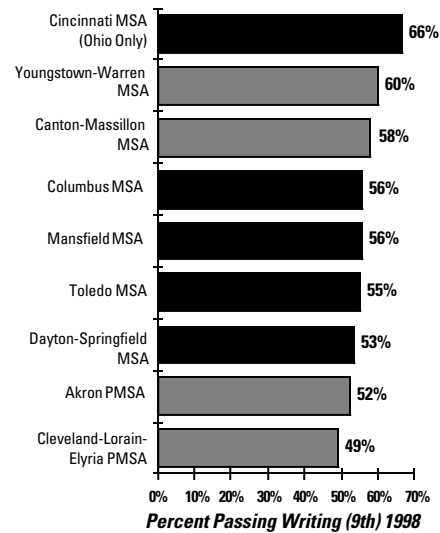
Chart 24
9th Grade: Reading



Source: Ohio Department of Education - Education Management Information System (EMIS)

Compared to 4th and 6th grade results, 9th grade proficiency results among Northeast Ohio regions exhibited more variability in relation to Ohio comparison regions.

Chart 25
9th Grade: Writing

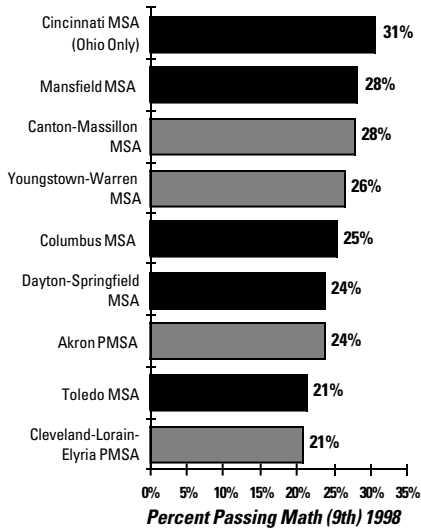


Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 66 percent to a low of 42 percent. The Youngstown-Warren MSA ranked 2nd (of 9) among Ohio comparison regions in terms of the percentage of 9th graders passing writing tests. The Canton-Massillon MSA ranked 3rd, the Akron PMSA 8th, and the Cleveland-Lorain-Elyria PMSA 9th.

C. Percentage of 9th Grade Students Passing Proficiency Tests Ohio Comparison Regions 1998

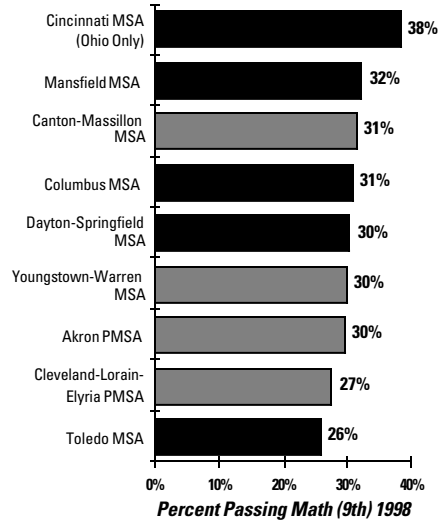
Chart 26
9th Grade: Math



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 31 percent to a low of 21 percent. The Canton-Massillon MSA ranked 3rd (of 9) among Ohio comparison regions in terms of the percentage of 9th graders passing math tests. The Youngstown-Warren MSA ranked 4th, the Akron PMSA 7th, and the Cleveland-Lorain-Elyria PMSA 9th.

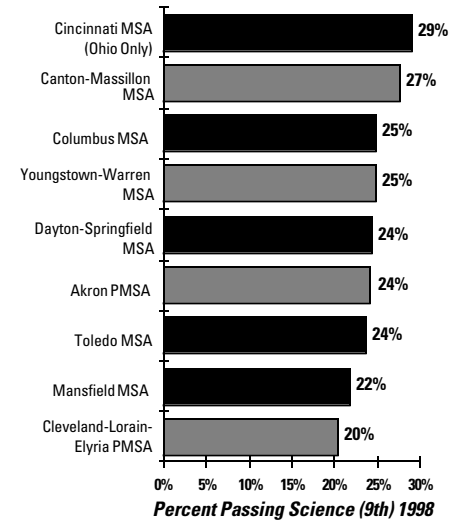
Chart 27
9th Grade: Citizenship



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 38 percent to a low of 26 percent. The Canton-Massillon MSA ranked 3rd (of 9) among Ohio comparison regions in terms of the percentage of 9th graders passing citizenship tests. The Youngstown-Warren MSA ranked 6th, the Akron PMSA 7th, and the Cleveland-Lorain-Elyria PMSA 8th.

Chart 28
9th Grade: Science



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 29 percent to a low of 20 percent. The Canton-Massillon MSA ranked 2nd (of 9) among Ohio comparison regions in terms of the percentage of 9th graders passing science tests. The Youngstown-Warren MSA ranked 4th, the Akron PMSA 6th, and the Cleveland-Lorain-Elyria PMSA 9th.

PERCENT OF 9TH GRADERS PASSING READING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Region								1990-1998	
9th Grade Reading Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	75%	77%	76%	83%	74%	66%	64%	63%	55%
Youngstown-Warren MSA	83%	81%	81%	87%	82%	66%	53%	48%	52%
Canton-Massillon MSA	82%	85%	83%	88%	81%	71%	49%	46%	49%
Dayton-Springfield MSA	77%	79%	77%	83%	73%	64%	53%	45%	47%
Columbus MSA	77%	78%	76%	82%	76%	62%	56%	51%	47%
Toledo MSA	72%	74%	72%	81%	76%	58%	38%	47%	44%
Mansfield MSA	77%	78%	79%	85%	76%	59%	34%	45%	43%
Cleveland-Akron MSA	79%	78%	76%	84%	77%	64%	47%	46%	42%

NE Ohio: Breakdown at MSA/PMSA Level								1990-1998	
9th Grade Reading Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Youngstown/Warren MSA	83%	81%	81%	87%	82%	66%	53%	48%	52%
Canton/Massillon MSA	82%	85%	83%	88%	81%	71%	49%	46%	49%
Akron PMSA	82%	81%	80%	85%	77%	64%	55%	44%	45%
Cleveland/Lorain/Elyria PMSA	78%	77%	75%	83%	78%	64%	45%	47%	41%

NE Ohio: Breakdown at County Level								1990-1998	
9th Grade Reading Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Geauga	86%	90%	88%	93%	92%	89%	83%	87%	56%
Carroll	82%	89%	86%	90%	69%	43%	47%	39%	56%
Medina	86%	86%	86%	92%	86%	72%	38%	54%	55%
Trumbull	85%	81%	83%	89%	82%	67%	55%	56%	54%
Mahoning	81%	80%	79%	85%	84%	70%	54%	44%	52%
Portage	82%	82%	81%	87%	78%	55%	40%	50%	51%
Lake	85%	86%	84%	90%	85%	67%	67%	46%	50%
Stark	82%	85%	83%	88%	82%	72%	49%	46%	49%
Columbiana	83%	81%	81%	86%	77%	48%	41%	42%	46%
Wayne	83%	86%	87%	93%	81%	56%	41%	48%	44%
Summit	82%	80%	79%	85%	77%	66%	58%	43%	43%
Ashtabula	79%	78%	76%	85%	81%	58%	33%	44%	43%
Lorain	73%	72%	70%	83%	74%	54%	31%	42%	43%
Cuyahoga	76%	75%	73%	80%	74%	63%	42%	45%	38%

PERCENT OF 9TH GRADERS PASSING WRITING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1990-1998								
9th Grade Writing Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	77%	77%	70%	87%	73%	49%	65%	65%	66%
Youngstown-Warren MSA	81%	78%	72%	88%	76%	42%	52%	52%	60%
Canton-Massillon MSA	81%	80%	69%	88%	74%	47%	51%	47%	58%
Columbus MSA	78%	79%	68%	83%	72%	45%	56%	53%	56%
Mansfield MSA	75%	78%	67%	86%	68%	35%	42%	53%	56%
Toledo MSA	75%	74%	67%	83%	72%	37%	49%	51%	55%
Dayton-Springfield MSA	73%	76%	64%	81%	67%	38%	51%	47%	53%
Cleveland-Akron MSA	76%	77%	68%	84%	72%	45%	52%	49%	50%

NE Ohio: Breakdown at MSA/PMSA Level	1990-1998								
9th Grade Writing Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Youngstown/Warren MSA	81%	78%	72%	88%	76%	42%	52%	52%	60%
Canton/Massillon MSA	81%	80%	69%	88%	74%	47%	51%	47%	58%
Akron PMSA	77%	76%	69%	86%	72%	41%	56%	48%	52%
Cleveland/Lorain/Elyria PMSA	76%	77%	68%	83%	73%	46%	50%	49%	49%

NE Ohio: Breakdown at County Level	1990-1998								
9th Grade Writing Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Geauga	89%	89%	79%	90%	84%	68%	76%	83%	64%
Medina	83%	83%	74%	89%	81%	49%	57%	58%	64%
Trumbull	83%	77%	71%	87%	73%	42%	51%	54%	62%
Carroll	81%	75%	75%	92%	71%	35%	42%	44%	59%
Mahoning	81%	82%	76%	90%	82%	50%	59%	53%	58%
Stark	81%	80%	69%	88%	74%	48%	51%	47%	58%
Portage	83%	76%	67%	87%	74%	31%	53%	51%	57%
Columbiana	77%	73%	66%	85%	66%	22%	38%	48%	57%
Summit	75%	76%	69%	85%	71%	44%	57%	47%	51%
Lake	79%	82%	80%	90%	78%	45%	60%	47%	50%
Lorain	68%	68%	63%	82%	65%	34%	45%	44%	50%
Ashtabula	78%	74%	66%	79%	69%	29%	46%	39%	49%
Cuyahoga	75%	77%	65%	81%	72%	48%	47%	48%	47%
Wayne	81%	86%	79%	91%	80%	37%	50%	47%	42%

PERCENT OF 9TH GRADERS PASSING MATH TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions								1990-1998	
9th Grade Math Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	41%	48%	53%	56%	48%	43%	40%	36%	31%
Mansfield MSA	41%	49%	54%	58%	44%	35%	24%	27%	28%
Canton-Massillon MSA	49%	58%	61%	59%	53%	45%	31%	26%	28%
Youngstown-Warren MSA	46%	50%	56%	57%	52%	40%	32%	26%	26%
Columbus MSA	42%	50%	52%	54%	49%	38%	35%	31%	25%
Dayton-Springfield MSA	42%	49%	54%	54%	44%	38%	29%	26%	24%
Cleveland-Akron MSA	43%	49%	53%	55%	49%	38%	29%	25%	21%
Toledo MSA	39%	47%	49%	51%	46%	29%	23%	22%	21%

NE Ohio: Breakdown at MSA/PMSA Level								1990-1998	
9th Grade Math Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Canton/Massillon MSA	49%	58%	61%	59%	53%	45%	31%	26%	28%
Youngstown/Warren MSA	46%	50%	56%	57%	52%	40%	32%	26%	26%
Akron PMSA	47%	53%	55%	57%	49%	36%	35%	25%	24%
Cleveland/Lorain/Elyria PMSA	42%	47%	52%	54%	49%	38%	27%	25%	21%

NE Ohio: Breakdown at County Level								1990-1998	
9th Grade Math Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Geauga	60%	72%	75%	73%	75%	71%	63%	60%	37%
Medina	53%	62%	64%	67%	58%	46%	32%	36%	36%
Portage	49%	57%	60%	65%	51%	36%	35%	33%	35%
Lake	54%	61%	66%	67%	62%	41%	43%	28%	31%
Columbiana	44%	49%	57%	57%	45%	26%	30%	23%	30%
Wayne	53%	61%	69%	68%	51%	37%	36%	26%	29%
Stark	49%	57%	62%	59%	54%	46%	32%	27%	28%
Trumbull	46%	51%	60%	61%	53%	43%	33%	30%	27%
Carroll	41%	60%	54%	59%	38%	30%	25%	23%	27%
Mahoning	46%	50%	52%	53%	54%	41%	33%	23%	25%
Lorain	36%	40%	46%	53%	44%	30%	22%	27%	25%
Summit	46%	52%	54%	55%	48%	36%	35%	23%	21%
Ashtabula	40%	48%	50%	51%	50%	28%	23%	25%	18%
Cuyahoga	40%	43%	47%	50%	45%	38%	24%	21%	18%

PERCENT OF 9TH GRADERS PASSING CITIZENSHIP TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1990-1998								
9th Grade Citizenship Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	53%	60%	71%	70%	69%	65%	57%	44%	38%
Mansfield MSA	55%	60%	71%	69%	64%	51%	30%	26%	32%
Canton-Massillon MSA	60%	71%	78%	72%	74%	66%	42%	25%	31%
Columbus MSA	55%	62%	71%	68%	69%	57%	46%	32%	31%
Dayton-Springfield MSA	53%	60%	68%	65%	63%	56%	43%	28%	30%
Youngstown-Warren MSA	60%	65%	73%	71%	72%	57%	42%	26%	30%
Cleveland-Akron MSA	57%	62%	69%	67%	68%	56%	40%	28%	28%
Toledo MSA	52%	59%	63%	62%	67%	47%	31%	22%	26%
NE Ohio: Breakdown at MSA/PMSA Level									1990-1998
9th Grade Citizenship Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Canton/Massillon MSA	60%	71%	78%	72%	74%	66%	42%	25%	31%
Youngstown/Warren MSA	60%	65%	73%	71%	72%	57%	42%	26%	30%
Akron PMSA	58%	63%	71%	68%	68%	54%	45%	23%	30%
Cleveland/Lorain/Elyria PMSA	57%	61%	68%	67%	68%	57%	38%	29%	27%
NE Ohio: Breakdown at County Level									1990-1998
9th Grade Citizenship Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Geauga	70%	78%	85%	82%	87%	85%	73%	68%	43%
Medina	64%	72%	80%	79%	81%	72%	43%	38%	43%
Portage	59%	63%	75%	70%	68%	48%	41%	26%	41%
Lake	68%	74%	80%	77%	77%	62%	56%	31%	36%
Stark	60%	70%	79%	73%	75%	67%	43%	26%	32%
Columbiana	58%	65%	74%	70%	68%	38%	33%	26%	31%
Lorain	49%	50%	61%	64%	63%	47%	29%	25%	31%
Trumbull	62%	66%	75%	74%	74%	62%	43%	30%	30%
Wayne	59%	73%	80%	75%	65%	48%	30%	23%	29%
Mahoning	59%	64%	72%	68%	72%	58%	44%	24%	29%
Summit	57%	63%	70%	67%	68%	56%	46%	22%	27%
Cuyahoga	55%	59%	65%	63%	64%	56%	36%	27%	25%
Carroll	61%	74%	75%	72%	50%	29%	34%	22%	23%
Ashtabula	55%	61%	68%	65%	74%	47%	31%	20%	23%

PERCENT OF 9TH GRADERS PASSING SCIENCE TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1990-1998								
9th Grade Science Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	39%	29%
Canton-Massillon MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29%	27%
Columbus MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	33%	25%
Youngstown-Warren MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	33%	25%
Dayton-Springfield MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29%	24%
Toledo MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	28%	24%
Mansfield MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	32%	22%
Cleveland-Akron MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29%	21%

NE Ohio: Breakdown at MSA/PMSA Level	1990-1998								
9th Grade Science Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Canton/Massillon MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29%	27%
Youngstown/Warren MSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	33%	25%
Akron PMSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	28%	24%
Cleveland/Lorain/Elyria PMSA	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29%	20%

NE Ohio: Breakdown at County Level	1990-1998								
9th Grade Science Test	1990	1991	1992	1993	1994	1995	1996	1997	1998
Geauga	n/a	n/a	n/a	n/a	n/a	n/a	n/a	62%	36%
Medina	n/a	n/a	n/a	n/a	n/a	n/a	n/a	43%	32%
Stark	n/a	n/a	n/a	n/a	n/a	n/a	n/a	30%	28%
Portage	n/a	n/a	n/a	n/a	n/a	n/a	n/a	32%	27%
Lake	n/a	n/a	n/a	n/a	n/a	n/a	n/a	30%	27%
Wayne	n/a	n/a	n/a	n/a	n/a	n/a	n/a	34%	27%
Columbiana	n/a	n/a	n/a	n/a	n/a	n/a	n/a	31%	26%
Carroll	n/a	n/a	n/a	n/a	n/a	n/a	n/a	25%	25%
Trumbull	n/a	n/a	n/a	n/a	n/a	n/a	n/a	36%	25%
Mahoning	n/a	n/a	n/a	n/a	n/a	n/a	n/a	30%	24%
Summit	n/a	n/a	n/a	n/a	n/a	n/a	n/a	27%	23%
Ashtabula	n/a	n/a	n/a	n/a	n/a	n/a	n/a	29%	22%
Lorain	n/a	n/a	n/a	n/a	n/a	n/a	n/a	27%	20%
Cuyahoga	n/a	n/a	n/a	n/a	n/a	n/a	n/a	26%	18%

D. Percentage of 12th Grade Students Passing Proficiency Tests

Ohio Comparison Regions: 1998



Northeast Ohio comparison regions varied in their rankings relative to other state regions in terms of the percentage of 12th graders passing proficiency tests.

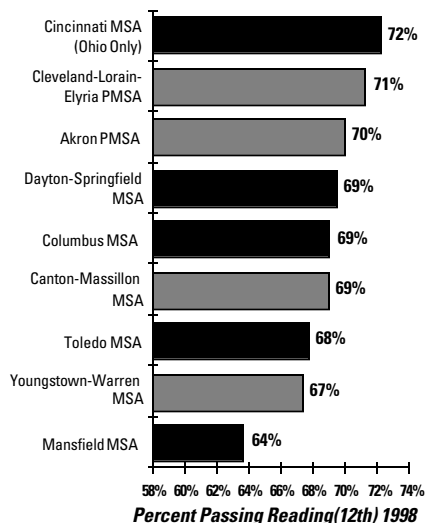
The Cleveland-Lorain-Elyria PMSA exhibited the highest percentages of 12th graders passing citizenship, math, reading, science, and writing tests.

Table 4
Summary
12th Grade Proficiency Tests 1998

	Akron PMSA	Canton Massillon MSA	Cleve Lorain Elyria PMSA	Youngstown Warren MSA
Citizenship	65%	65%	68%	61%
Math	53%	49%	55%	47%
Reading	70%	69%	71%	67%
Science	57%	57%	60%	54%
Writing	78%	79%	83%	80%

Source: Ohio Department of Education - Education Management Information System (EMIS)

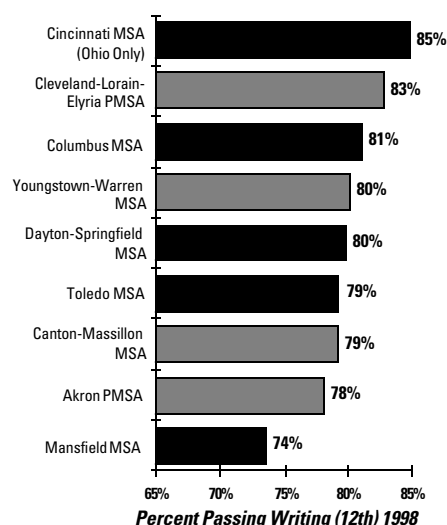
Chart 29
12th Grade: Reading



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 72 percent to a low of 64 percent. The Cleveland-Lorain-Elyria PMSA exceeded all Ohio comparison regions in the percentage of 12th graders passing reading tests. The Akron PMSA ranked 3rd, the Canton-Massillon MSA 6th, and the Youngstown-Warren MSA 8th.

Chart 30
12th Grade: Writing

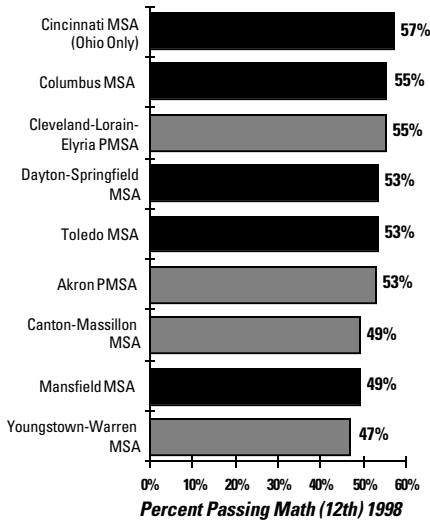


Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 85 percent to a low of 74 percent. The Cleveland-Lorain-Elyria PMSA ranked 2nd (of 9) in terms of the percentage of 12th graders passing writing tests. The Youngstown-Warren MSA ranked 4th, the Canton-Massillon MSA 7th, and the Akron PMSA 8th.

C. Percentage of 12th Grade Students Passing Proficiency Tests Ohio Comparison Regions 1998

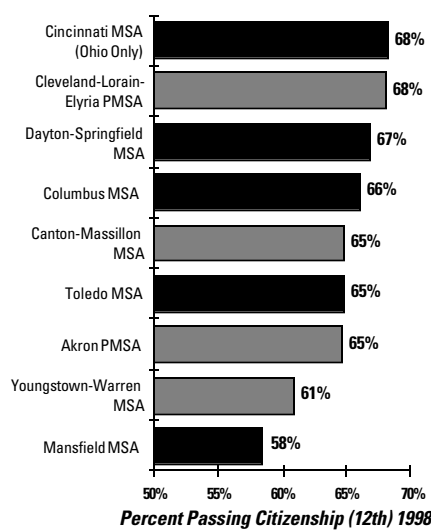
Chart 31
12th Grade: Math



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 57 percent to a low of 47 percent. The Cleveland-Lorain-Elyria PMSA ranked 3rd (of 9) in terms of the percentage of 12th graders passing math tests. The Akron PMSA ranked 6th, the Canton-Massillon MSA 7th, and the Youngstown-Warren MSA 9th.

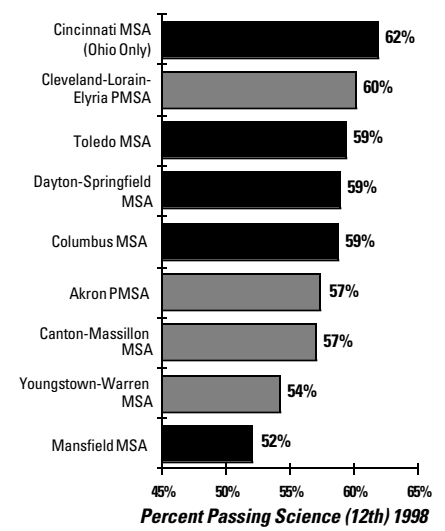
Chart 32
12th Grade: Citizenship



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 68 percent to a low of 58 percent. The Cleveland-Lorain-Elyria PMSA exceeded all other Ohio comparison regions in terms of the percentage of 12th graders passing citizenship tests. The Canton-Massillon MSA ranked 5th, the Akron PMSA 7th, and the Youngstown-Warren MSA 8th.

Chart 33
12th Grade: Science



Source: Ohio Department of Education - Education Management Information System (EMIS)

Results ranged from a high of 62 percent to a low of 52 percent. The Cleveland-Lorain-Elyria PMSA exceeded all other Ohio comparison regions in terms of the percentage of 12th graders passing science tests. The Akron PMSA ranked 6th, Canton-Massillon MSA 7th, and the Youngstown-Warren MSA 8th.

PERCENT OF 12TH GRADERS PASSING READING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1994-1998				
12th Grade Reading Test	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	87%	83%	83%	82%	72%
Cleveland-Akron MSA	89%	86%	83%	83%	71%
Dayton-Springfield MSA	88%	85%	82%	80%	69%
Columbus MSA	88%	84%	80%	80%	69%
Canton-Massillon MSA	86%	88%	82%	80%	69%
Toledo MSA	82%	84%	80%	78%	68%
Youngstown-Warren MSA	84%	82%	80%	80%	67%
Mansfield MSA	83%	77%	74%	71%	64%
NE Ohio: Breakdown at MSA/PMSA Level	1994-1998				
12th Grade Reading Test	1994	1995	1996	1997	1998
Cleveland/Lorain/Elyria PMSA	89%	86%	83%	83%	71%
Akron PMSA	89%	85%	83%	82%	70%
Canton/Massillon MSA	86%	88%	82%	80%	69%
Youngstown/Warren MSA	84%	82%	80%	80%	67%
NE Ohio: Breakdown at County Level	1994-1998				
12th Grade Reading Test	1994	1995	1996	1997	1998
Geauga	93%	88%	88%	87%	77%
Wayne	88%	86%	83%	83%	76%
Medina	93%	90%	86%	87%	75%
Cuyahoga	89%	86%	84%	84%	72%
Lake	88%	88%	83%	84%	71%
Summit	89%	85%	84%	81%	71%
Stark	87%	89%	82%	80%	69%
Mahoning	84%	82%	77%	82%	68%
Portage	88%	85%	82%	84%	68%
Trumbull	89%	83%	81%	79%	68%
Lorain	85%	82%	77%	81%	66%
Carroll	80%	86%	82%	78%	65%
Columbiana	78%	81%	84%	79%	65%
Ashtabula	82%	81%	77%	68%	65%

PERCENT OF 12TH GRADERS PASSING WRITING TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions					1994-1998	
12th Grade Writing Test	1994	1995	1996	1997	1998	
Cincinnati MSA (Ohio Only)	81%	84%	74%	75%	85%	
Cleveland-Akron MSA	80%	83%	70%	72%	81%	
Columbus MSA	80%	82%	70%	71%	81%	
Youngstown-Warren MSA	76%	79%	69%	70%	80%	
Dayton-Springfield MSA	79%	81%	68%	67%	80%	
Toledo MSA	75%	81%	69%	69%	79%	
Canton-Massillon MSA	78%	83%	69%	69%	79%	
Mansfield MSA	68%	73%	60%	58%	74%	
NE Ohio: Breakdown at MSA/PMSA Level					1994-1998	
12th Grade Writing Test	1994	1995	1996	1997	1998	
Cleveland/Lorain/Elyria PMSA	80%	84%	71%	74%	83%	
Youngstown/Warren MSA	76%	79%	69%	70%	80%	
Canton/Massillon MSA	78%	83%	69%	69%	79%	
Akron PMSA	79%	80%	66%	68%	78%	
NE Ohio: Breakdown at County Level					1994-1998	
12th Grade Writing Test	1994	1995	1996	1997	1998	
Geauga	87%	89%	80%	77%	87%	
Cuyahoga	83%	86%	75%	77%	86%	
Mahoning	77%	83%	71%	75%	84%	
Lake	82%	84%	71%	73%	83%	
Medina	80%	87%	73%	74%	82%	
Trumbull	77%	75%	67%	69%	80%	
Wayne	81%	83%	68%	70%	80%	
Stark	78%	84%	70%	69%	79%	
Summit	78%	81%	67%	68%	78%	
Portage	82%	77%	66%	68%	78%	
Carroll	71%	72%	61%	64%	77%	
Lorain	70%	78%	61%	67%	76%	
Columbiana	70%	78%	66%	63%	73%	
Ashtabula	71%	77%	58%	57%	68%	

PERCENT OF 12TH GRADERS PASSING MATH TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions	1994-1998				
12th Grade Math Test	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	71%	75%	66%	64%	57%
Columbus MSA	69%	75%	63%	59%	55%
Cleveland-Akron MSA	70%	75%	63%	60%	54%
Dayton-Springfield MSA	70%	75%	64%	59%	53%
Toledo MSA	68%	75%	63%	60%	53%
Canton-Massillon MSA	69%	75%	63%	55%	49%
Mansfield MSA	65%	68%	61%	54%	49%
Youngstown-Warren MSA	64%	70%	59%	56%	47%
NE Ohio: Breakdown at MSA/PMSA Level	1994-1998				
12th Grade Math Test	1994	1995	1996	1997	1998
Cleveland/Lorain/Elyria PMSA	70%	75%	63%	60%	55%
Akron PMSA	70%	75%	63%	60%	53%
Canton/Massillon MSA	69%	75%	63%	55%	49%
Youngstown/Warren MSA	64%	70%	59%	56%	47%
NE Ohio: Breakdown at County Level	1994-1998				
12th Grade Math Test	1994	1995	1996	1997	1998
Geauga	77%	82%	75%	67%	62%
Medina	76%	80%	69%	68%	59%
Cuyahoga	71%	76%	64%	61%	57%
Wayne	73%	77%	67%	62%	55%
Lake	69%	74%	65%	59%	54%
Summit	69%	76%	64%	59%	53%
Portage	71%	72%	61%	62%	52%
Stark	69%	75%	63%	55%	49%
Lorain	64%	70%	56%	55%	49%
Mahoning	65%	69%	57%	57%	48%
Columbiana	54%	69%	59%	54%	47%
Carroll	58%	71%	62%	57%	46%
Trumbull	67%	70%	60%	56%	45%
Ashtabula	59%	67%	53%	45%	41%

PERCENT OF 12TH GRADERS PASSING CITIZENSHIP TESTS

Source: Ohio Department of Education - Education Management Information System (EMIS)

Ohio Comparison Regions					1994-1998
12th Grade Citizenship Test	1994	1995	1996	1997	1998
Cincinnati MSA (Ohio Only)	80%	83%	71%	75%	68%
Cleveland-Akron MSA	82%	85%	71%	73%	67%
Dayton-Springfield MSA	83%	85%	72%	73%	67%
Columbus MSA	81%	84%	71%	72%	66%
Canton-Massillon MSA	83%	86%	73%	72%	65%
Toledo MSA	79%	84%	68%	70%	65%
Youngstown-Warren MSA	77%	80%	66%	70%	61%
Mansfield MSA	78%	77%	61%	62%	58%
NE Ohio: Breakdown at MSA/PMSA Level					1994-1998
12th Grade Citizenship Test	1994	1995	1996	1997	1998
Cleveland/Lorain/Elyria PMSA	82%	85%	71%	73%	68%
Canton/Massillon MSA	83%	86%	73%	72%	65%
Akron PMSA	82%	84%	71%	72%	65%
Youngstown/Warren MSA	77%	80%	66%	70%	61%
NE Ohio: Breakdown at County Level					1994-1998
12th Grade Citizenship Test	1994	1995	1996	1997	1998
Geauga	88%	88%	79%	80%	74%
Medina	87%	89%	76%	79%	73%
Wayne	84%	87%	74%	75%	69%
Cuyahoga	82%	85%	71%	74%	69%
Lake	85%	86%	74%	75%	68%
Summit	82%	84%	71%	72%	65%
Stark	84%	87%	73%	72%	65%
Lorain	78%	83%	64%	71%	63%
Portage	83%	82%	69%	72%	62%
Carroll	73%	82%	72%	69%	61%
Trumbull	82%	81%	66%	70%	61%
Ashtabula	75%	81%	64%	59%	61%
Columbiana	74%	81%	71%	71%	61%
Mahoning	75%	79%	63%	71%	61%

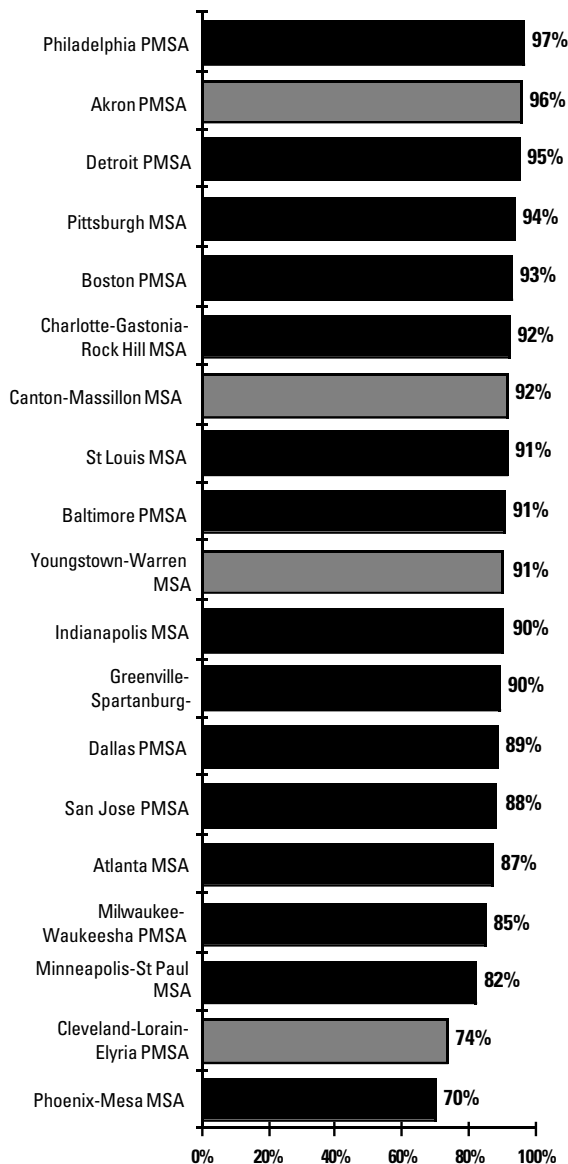
V. Student Completion

A. High School Completers (As a Percentage of 12th Grade Enrollment) 1994-95

A variety of methods are used across states to measure graduation rates. Some use a cohort-based process to track completion of a particular class of students (typically a 7th or 9th grade class) several years later when they have reached the 12th grade. This national

comparison is based on the total number of high school completers and total 12th grade enrollment figures reported to the National Center for Education Statistics for the 1994-95 school year. High school completers include regular diploma graduates, students receiving diplomas from non-regular programs, and students receiving certificates of attendance or completion in lieu of a diploma.

Chart 34
National Comparison Regions



Source: National Center for Education Statistics
Data unavailable for Seattle-Bellevue-Everett PMSA

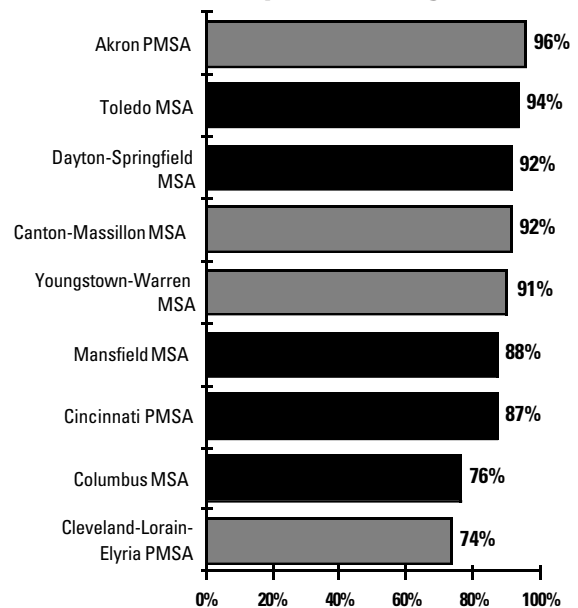


The Akron MSA (2nd of 19) was the highest ranked Northeast Ohio region for this indicator when examined in relation to all national comparison regions.

National Ranking: The Canton Massillon MSA ranked 7th (of 19) for this indicator. The Youngstown-Warren MSA ranked 10th and the Cleveland-Lorain-Elyria PMSA ranked 18th.

State Ranking: The Canton-Massillon MSA trailed the best-in-class Akron PMSA by 4 percentage points while the Youngstown-Warren MSA trailed by 5 percentage points. The Cleveland-Lorain-Elyria PMSA trailed the best-in-class by 22 percentage points.

Chart 35
Ohio Comparison Regions



Source: National Center for Education Statistics

HIGH SCHOOL COMPLETERS AS A PERCENT OF 12TH GRADE ENROLLMENT

National Comparison Regions	Total Completers	Grade 12 Total	1994-95 Rate
Philadelphia PMSA	36,679	37,963	97%
Detroit PMSA	36,360	38,174	95%
Pittsburgh MSA	21,155	22,586	94%
Boston PMSA	41,737	44,871	93%
Charlotte-Gastonia-Rock Hill MSA	9,892	10,722	92%
St. Louis MSA	20,551	22,488	91%
Baltimore PMSA	17,677	19,455	91%
Indianapolis MSA	12,499	13,817	90%
Greenville-Spartanburg-Anderson MSA	7,216	8,057	90%
Dallas PMSA	22,628	25,534	89%
San Jose PMSA	12,765	14,426	88%
Atlanta MSA	26,307	30,279	87%
Milwaukee-Waukeesha PMSA	11,629	13,658	85%
Minneapolis-St. Paul MSA	24,845	30,277	82%
Phoenix-Mesa MSA	16,881	24,215	70%

Source: National Center for Education Statistics

Data unavailable for Seattle-Bellevue-Everett PMSA

Ohio Comparison Regions	Total Completers	Grade 12 Total	1994-95 Rate
Toledo MSA	5,204	5,537	94%
Dayton-Springfield MSA	8,229	8,972	92%
Mansfield MSA	1,953	2,231	88%
Cincinnati PMSA	9,111	10,440	87%
Columbus MSA	10,431	13,645	76%

Source: National Center for Education Statistics

NE Ohio Breakdown at MSA/PMSA Level	Total Completers	Grade 12 Total	1994-95 Rate
Akron PMSA	6,474	6,775	96%
Canton-Massillon MSA	4,468	4,883	92%
Youngstown-Warren MSA	6,190	6,831	91%
Cleveland-Lorain-Elyria PMSA	15,325	20,798	74%

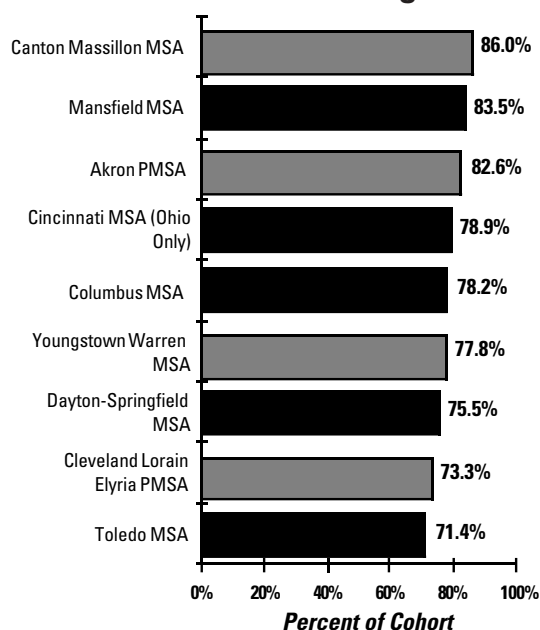
Source: National Center for Education Statistics

NE Ohio Breakdown at County Level	Total Completers	Grade 12 Total	1994-95 Rate
Geauga OH	788	806	98%
Portage OH	1,598	1,637	98%
Summit OH	4,876	5,138	95%
Columbiana OH	1,243	1,341	93%
Mahoning OH	2,628	2,837	93%
Stark OH	4,196	4,573	92%
Medina OH	1,688	1,879	90%
Lake OH	2,215	2,479	89%
Ashtabula OH	1,077	1,225	88%
Carroll OH	272	310	88%
Trumbull OH	2,319	2,653	87%
Wayne OH	1,123	1,291	87%
Lorain OH	2,088	3,087	68%
Cuyahoga OH	7,469	11,322	66%

Source: National Center for Education Statistics

B. Regular Diploma Graduates (Cohort Based) 1977

Chart 36
Ohio Benchmark Regions



The State of Ohio's Education Management Information System (EMIS) calculates graduation rates by dividing the number of regular diploma graduates in a given year by ninth grade enrollment four years prior. Ohio and regional cohort comparisons reported here are based on data for the 1997 school year.



Two of five Northeast Ohio regions were the among the highest of Ohio comparison regions in terms of regular diplomas awarded in 1997.

State Ranking: The Akron PMSA ranked 3rd (of 9) for this indicator, the Youngstown-Warren MSA ranked 6th, and the Cleveland-Lorain-Elyria PMSA ranked 8th among Ohio comparison regions.

Northeast Ohio Ranking: The Canton-Massillon MSA had the highest graduation rate in the Northeast Ohio area (86%). The Akron PMSA trailed by 3.4 percentage points. The Youngstown-Warren MSA and the Cleveland-Lorain-Elyria PMSA trailed the best-in-class Canton-Massillon MSA by 8.2 and 12.7 percentage points respectively.

REGULAR DIPLOMA GRADUATES

Ohio Comparison Regions	1990	1991	1992	1993	1994	1995	1996	1997
Mansfield MSA	79.3%	81.1%	77.4%	78.7%	77.9%	76.4%	78.5%	83.5%
Cincinnati MSA (Ohio Only)	68.1%	67.4%	71.1%	71.0%	70.3%	68.7%	74.7%	78.9%
Columbus MSA	72.0%	72.3%	74.3%	74.3%	71.0%	71.3%	74.9%	78.2%
Dayton-Springfield MSA	70.2%	69.6%	69.8%	68.9%	67.4%	68.4%	69.5%	75.5%
Toledo MSA	71.5%	67.0%	69.9%	70.7%	67.5%	67.3%	68.9%	71.4%

Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

NE Ohio: Breakdown at MSA/PMSA Level	1990	1991	1992	1993	1994	1995	1996	1997
Canton/Massillon MSA	81.2%	80.0%	86.5%	88.3%	86.2%	82.4%	81.0%	86.0%
Akron PMSA	78.5%	77.9%	82.8%	81.7%	79.3%	77.1%	78.9%	82.6%
Youngstown/Warren MSA	80.3%	79.8%	80.0%	80.6%	80.3%	78.7%	75.2%	77.8%
Cleveland/Lorain/Elyria PMSA	71.5%	69.0%	69.7%	71.3%	69.9%	68.6%	69.0%	73.3%

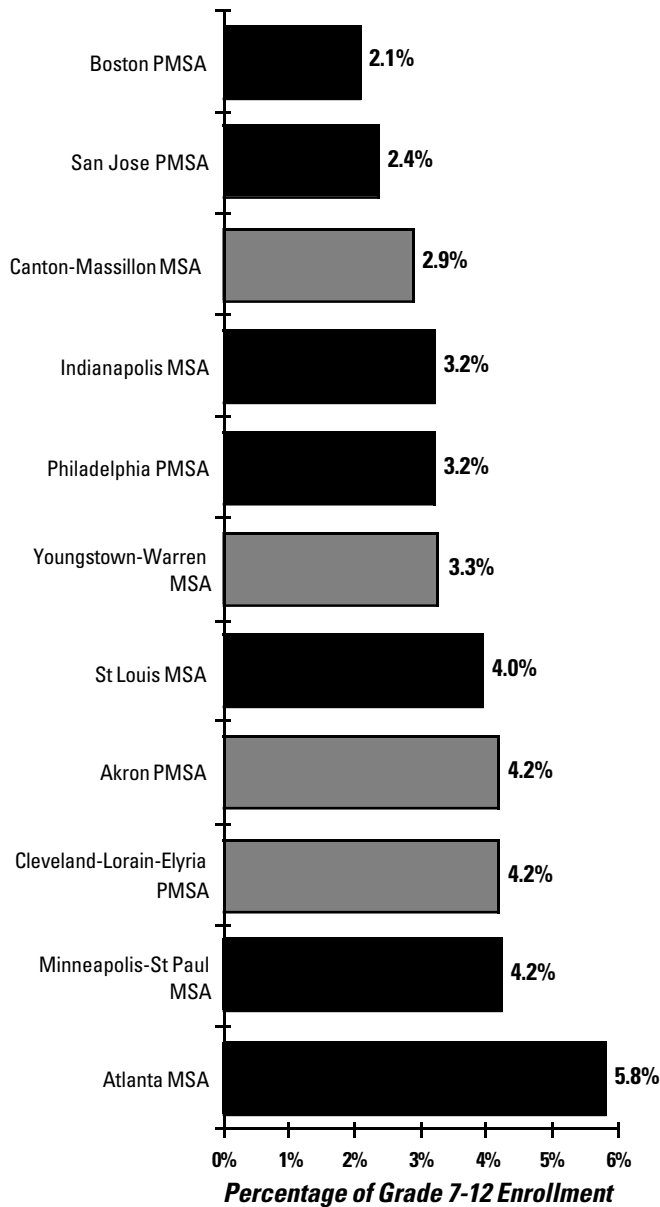
Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

NE Ohio: Breakdown at County Level	1990	1991	1992	1993	1994	1995	1996	1997
Carroll	86.1%	85.9%	87.9%	78.4%	89.5%	82.4%	90.8%	90.3%
Portage	79.9%	78.5%	87.6%	86.8%	87.9%	84.0%	83.0%	88.6%
Medina	83.2%	77.6%	80.6%	88.5%	86.5%	87.8%	87.5%	88.1%
Geauga	83.7%	85.2%	83.9%	81.3%	86.7%	81.6%	83.5%	87.3%
Stark	80.9%	79.6%	86.1%	89.1%	85.7%	82.5%	80.3%	85.9%
Lake	80.7%	81.1%	82.8%	81.6%	83.9%	78.4%	80.3%	83.8%
Wayne	80.4%	79.1%	82.8%	83.7%	79.0%	78.9%	81.5%	83.6%
Columbiana	76.8%	78.6%	76.5%	79.9%	80.8%	82.0%	81.7%	83.6%
Summit	77.6%	77.0%	80.5%	79.5%	75.4%	74.0%	78.0%	81.5%
Trumbull	80.8%	80.1%	79.8%	79.5%	78.8%	76.4%	75.8%	81.0%
Ashtabula	75.6%	76.6%	78.9%	86.2%	79.0%	72.8%	72.6%	78.0%
Lorain	70.3%	66.2%	68.0%	70.6%	67.7%	66.4%	67.2%	77.4%
Mahoning	79.9%	76.9%	79.7%	79.2%	78.6%	76.8%	69.4%	70.4%
Cuyahoga	66.6%	61.4%	61.6%	63.0%	61.7%	61.5%	63.9%	67.7%

Source: Ohio Department of Education - Education Management Information System (EMIS) Profiles

C. Dropout Rate (Percentage of Grade 7-12 Enrollment) National Comparisons 1994-95

Chart 37
National Comparison Regions



Source: National Center for Education Statistics
Data unavailable for Wayne County, Dallas PMSA, Pittsburgh MSA, Charlotte-Gastonia-Rock Hill MSA, Greenville-Spartanburg-Anderson MSA, Phoenix-Mesa MSA, Detroit PMSA, Milwaukee-Waukeesh PMSA, Seattle-Bellevue-Everett PMSA, Boston PMSA, and Baltimore PMSA

The National Center for Education Statistics collects dropout counts of students in grades 7-12 at the district level. Enrollment counts across grade levels are collected by NCES at the school building level. For purposes of this study, both dropout counts and grade 7-12 enrollment figures were aggregated to the MSA/PMSA level and the results combined prior to percentage calculations. Comparisons reported here reflect findings for only those national comparison regions for which dropout counts were available.

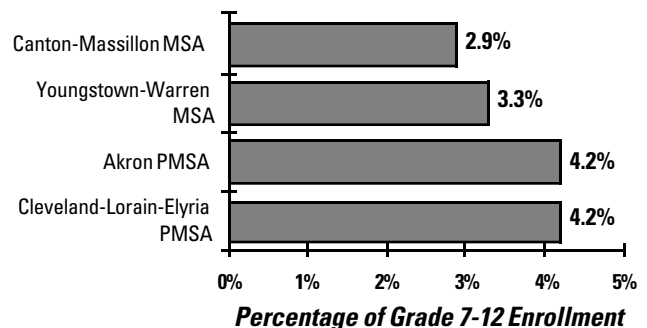


A total of 10,946 Northeast Ohio students in grades 7-12 dropped out of school during the 1994-95 school year.

National Ranking: The Canton-Massillon MSA ranked 3rd (of 11) for this indicator while the Youngstown-Warren MSA ranked 6th. The Akron PMSA and Cleveland-Lorain-Elyria PMSA ranked 8th and 9th respectively among national comparison regions.

Northeast Ohio Ranking: Among Northeast Ohio regions, dropouts as a percentage of grade 7-12 enrollment were lowest in the Canton-Massillon MSA (2.9%). The Youngstown-Warren MSA exhibited a rate .4 percentage points higher. Dropout rates in the Akron PMSA and the Cleveland-Lorain-Elyria PMSA were 1.3 percentage points higher each.

Chart 38
NE Ohio Breakdown at the MSA/PMSA Level



Source: National Center for Education Statistics
Data unavailable for Wayne County.

DROPOUTS AS A PERCENT OF GRADE 7-12 ENROLLMENT
National Comparisons

National Comparison Regions	Total Dropouts Grades 7-12	Grade 7-12 enrollment	1994-95 Dropout Rate
Boston PMSA	6,614	315,052	2.1%
San Jose PMSA	2,336	98,097	2.4%
Indianapolis MSA	3,404	105,393	3.2%
Philadelphia PMSA	9,373	289,449	3.2%
St. Louis MSA	6,643	167,686	4.0%
Minneapolis-St. Paul MSA	8,611	204,257	4.2%
Atlanta MSA	14,065	242,132	5.8%

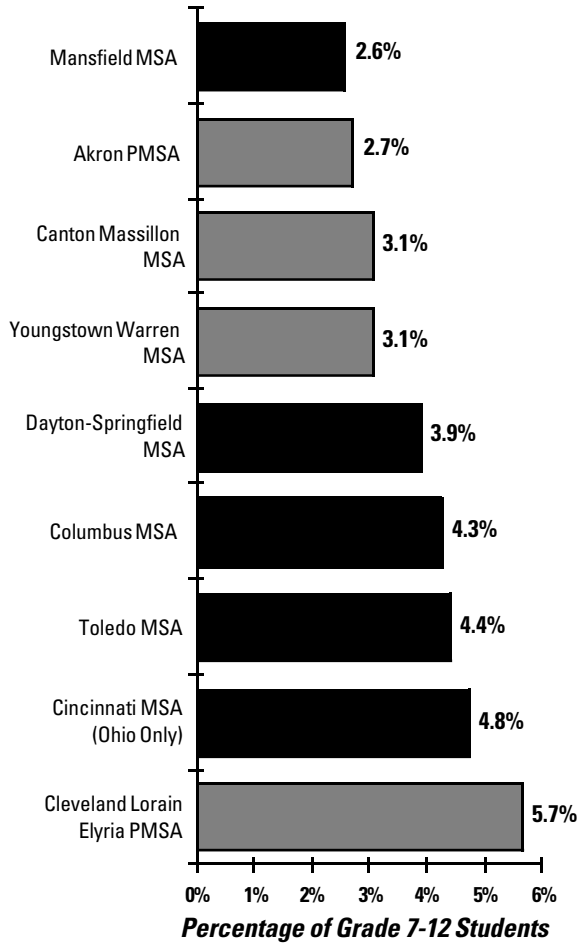
Source: National Center for Education Statistics

Data unavailable for Dallas PMSA, Pittsburgh MSA, Charlotte-Gastonia-Rock Hill MSA, Greenville-Spartanburg-Anderson MSA, Phoenix-Mesa MSA, Detroit PMSA, Milwaukee-Waukeesha PMSA, Seattle-Bellevue-Everett PMSA, Boston PMSA, and Baltimore PMSA

NE Ohio: Breakdown at MSA/PMSA Level	Total Dropouts Grades 7-12	Grade 7-12 enrollment	1994-95 Dropout Rate
Canton-Massillon MSA	917	31,784	2.9%
Youngstown-Warren MSA	1505	46,007	3.3%
Akron PMSA	2017	48,038	4.2%
Cleveland-Lorain-Elyria PMSA	6291	149,678	4.2%

D. Dropout Rate (Percentage of Grade 7-12 Enrollment) State and Regional Comparisons 1998

Chart 39
Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS)

Using data from the State of Ohio's Education Management Information System (EMIS), 1998 dropout rates were calculated by dividing the number of dropouts, adjusted for withdrawal returns, by total grade 7-12 enrollment. For purposes of this study, adjusted dropout counts and grade 7-12 enrollment totals were aggregated to MSA /PMSA levels.



Three of five Northeast Ohio regions exhibited dropout rates that were among the lowest of all Ohio comparison regions. The Cleveland-Lorain-Elyria PMSA, however, had the highest dropout rate of all regions examined.

State Ranking: The Akron PMSA ranked 2nd (of 9) among Ohio comparison regions for this indicator. The Canton-Massillon MSA ranked 3rd and the Youngstown-Warren MSA ranked 4th.

Northeast Ohio Ranking: Outside of the Cleveland-Lorain-Elyria PMSA, there was little variability in dropout rates among Northeast Ohio regions. The Canton-Massillon and Youngstown-Warren MSAs were only .4 percentage points higher than the best-in-class Akron PMSA. The Cleveland-Lorain-Elyria PMSA exhibited a dropout rate 3 percentage points higher than the Akron PMSA.

DROPOUTS AS A PERCENT OF GRADE 7-12 ENROLLMENT

*State and Regional Comparisons
1990-1998*

Ohio Comparison Regions	1990-1998								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Mansfield MSA	2.0%	1.6%	2.0%	2.1%	1.9%	2.9%	2.9%	2.6%	2.6%
Canton-Massillon MSA	2.0%	1.9%	0.8%	2.1%	3.3%	3.0%	2.8%	3.0%	3.1%
Youngstown-Warren MSA	1.8%	1.9%	1.5%	4.4%	5.5%	4.7%	2.9%	3.0%	3.1%
Dayton-Springfield MSA	3.0%	2.7%	3.6%	4.3%	4.4%	4.5%	4.2%	3.9%	3.9%
Columbus MSA	3.8%	3.5%	2.9%	3.6%	4.5%	5.0%	3.7%	4.4%	4.3%
Toledo MSA	3.1%	2.7%	5.0%	4.5%	4.7%	4.8%	4.4%	4.4%	4.4%
Cincinnati MSA (Ohio Only)	3.9%	3.7%	2.2%	2.6%	3.3%	3.6%	3.2%	4.9%	4.8%
Cleveland-Akron MSA	3.5%	3.0%	1.4%	3.3%	3.6%	4.3%	6.3%	5.0%	4.9%

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at MSA/PMSA Level	1990-1998								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Akron PMSA	2.2%	2.3%	1.2%	2.0%	2.3%	4.3%	2.8%	2.8%	2.7%
Canton/Massillon MSA	2.0%	1.9%	0.8%	2.1%	3.3%	3.0%	2.8%	3.0%	3.1%
Youngstown/Warren MSA	1.8%	1.9%	1.5%	4.4%	5.5%	4.7%	2.9%	3.0%	3.1%
Cleveland/Lorain/Elyria PMSA	3.8%	3.3%	1.4%	3.7%	4.0%	4.3%	7.4%	5.7%	5.7%

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at County Level	1990-1998								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Ashtabula	1.2%	1.2%	1.6%	1.7%	2.4%	1.6%	1.6%	1.8%	1.8%
Carroll	1.2%	1.2%	1.6%	1.7%	2.4%	1.6%	1.6%	1.8%	1.8%
Geauga	1.5%	1.7%	1.8%	2.0%	2.2%	2.2%	2.4%	1.9%	1.9%
Portage	1.3%	1.7%	0.6%	1.9%	2.4%	3.2%	2.3%	1.9%	1.9%
Medina	1.7%	1.3%	1.7%	1.2%	2.3%	2.5%	1.9%	2.2%	2.2%
Columbiana	1.9%	1.7%	2.0%	1.7%	2.6%	2.5%	3.0%	2.2%	2.2%
Lake	2.4%	2.5%	1.7%	2.5%	2.6%	3.0%	2.5%	2.7%	2.7%
Wayne	2.0%	2.0%	2.6%	2.2%	2.9%	2.6%	2.7%	2.9%	2.9%
Mahoning	1.8%	2.0%	0.9%	6.9%	8.8%	6.3%	2.4%	2.9%	2.9%
Summit	2.6%	2.5%	1.3%	2.1%	2.2%	4.6%	3.0%	3.0%	3.0%
Stark	2.1%	2.0%	0.7%	2.1%	3.4%	3.1%	2.9%	3.1%	3.1%
Trumbull	1.8%	2.0%	2.0%	3.1%	3.3%	4.0%	3.6%	3.6%	3.7%
Lorain	2.5%	2.3%	0.7%	3.2%	3.8%	3.8%	4.0%	4.2%	4.3%
Cuyahoga	5.1%	4.1%	1.3%	4.5%	4.6%	5.0%	10.6%	7.5%	7.5%

Source: Ohio Department of Education - Education Management Information System (EMIS)

VI. School Spending

A. Expenditure Per Pupil National Comparisons 1994-95

While the National Center for Education Statistics collects a variety of expenditure-per-pupil data, it recommends the use of current expenditures per pupil for comparing program costs between states and districts, for comparing the quality of educational opportunity, and for reimbursing direct expenditures under various state and federal grants. NCES figures were weighted by the number of students in the various school districts and aggregated to regional levels.

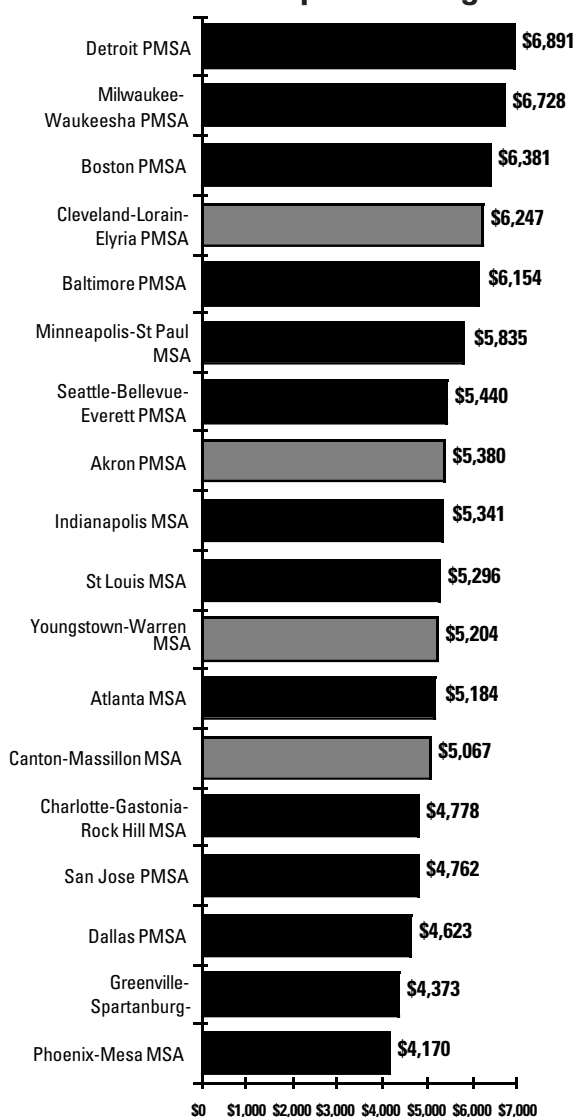
Results will differ slightly from regional figures derived from Ohio Education Management Information System (EMIS) sources as reported for 1994 in the appendix to this report. EMIS calculates per-pupil expenditures based on spring Average Daily Membership (ADM) and total operating expenditures.



Results revealed per-pupil expenditures in the Cleveland-Lorain-Elyria PMSA to be the 4th highest among 18 national comparison regions examined.

Chart 40

National Comparison Regions*

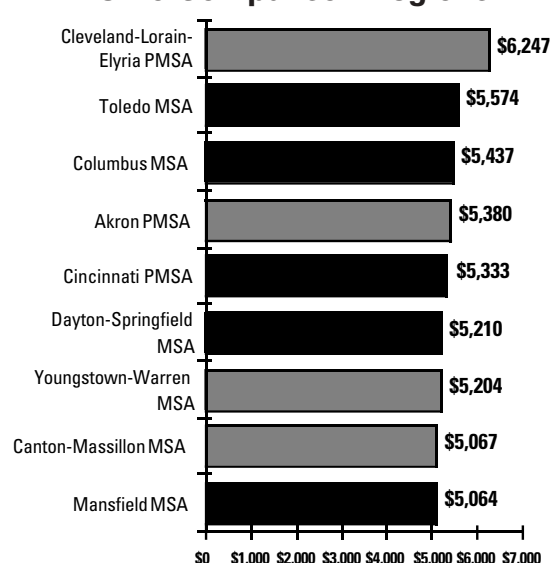


National Ranking: The Akron PMSA ranked 8th among national comparison regions and the Youngstown-Warren MSA ranked 11th. The Canton-Massillon MSA ranked 13th for this indicator.

State Ranking: Expenditures in the Akron PMSA were \$867 per pupil below the highest-in-class Cleveland-Lorain-Elyria PMSA. The Youngstown-Warren MSA trailed the highest-in-class by \$1,043 and the Canton-Massillon MSA by \$1,180.

Chart 41

Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS)
Data unavailable for Seattle-Bellevue-Everett PMSA

CURRENT EXPENDITURES PER PUPIL

National Comparison Regions	1994-95 Expenditure Per Pupil
Detroit PMSA	\$6,891
Milwaukee-Waukeesha PMSA	\$6,728
Boston PMSA	\$6,381
Baltimore PMSA	\$6,154
Minneapolis-St. Paul MSA	\$5,835
Seattle-Bellevue-Everett PMSA	\$5,440
Indianapolis MSA	\$5,341
St. Louis MSA	\$5,296
Atlanta MSA	\$5,184
Charlotte-Gastonia-Rock Hill MSA	\$4,778
San Jose PMSA	\$4,762
Dallas PMSA	\$4,623
Greenville-Spartanburg-Anderson MSA	\$4,373
Phoenix-Mesa MSA	\$4,170

Source: National Center for Education Statistics

Data unavailable for Philadelphia PMSA and Pittsburgh MSA

Ohio Comparison Regions	1994-95 Expenditure Per Pupil
Toledo MSA	\$5,574
Columbus MSA	\$5,437
Cincinnati PMSA	\$5,333
Dayton-Springfield MSA	\$5,210
Mansfield MSA	\$5,064

Source: National Center for Education Statistics

NE Ohio Breakdown at the MSA/PMSA Level	1994-95 Expenditure Per Pupil
Cleveland-Lorain-Elyria PMSA	\$6,247
Akron PMSA	\$5,380
Youngstown-Warren MSA	\$5,204
Canton-Massillon MSA	\$5,067

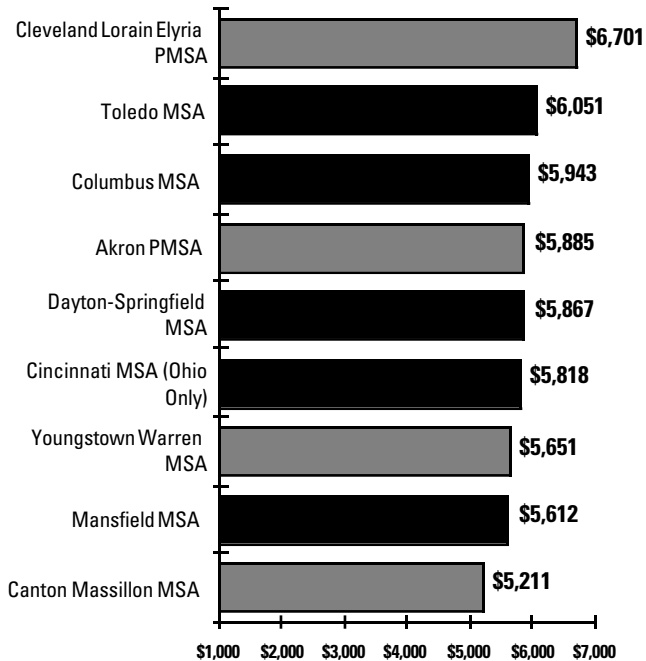
Source: National Center for Education Statistics

NE Ohio Breakdown at the County Level	1994-95 Expenditure Per Pupil
Cuyahoga OH	\$6,748
Lake OH	\$6,314
Geauga OH	\$5,778
Mahoning OH	\$5,530
Lorain OH	\$5,518
Summit OH	\$5,478
Stark OH	\$5,131
Trumbull OH	\$5,095
Medina OH	\$5,087
Portage OH	\$5,041
Columbiana OH	\$4,711
Wayne OH	\$4,692
Ashtabula OH	\$4,510
Carroll OH	\$4,060

Source: National Center for Education Statistics

B. Expenditure Per Pupil State and Regional Comparisons 1997

Chart 42
Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS)

Expenditures per pupil are calculated by Ohio's Education Management Information System (EMIS) by dividing total current operating expenditures by spring Average Daily Membership (ADM). For the purposes of this study, reported expenditures per pupil and spring ADM were aggregated to regional levels and recalculated to weight the results relative to district size.



At \$6,701 per pupil, the Cleveland-Lorain-Elyria PMSA exceeded all other Ohio comparison regions expenditure-per-pupil.

State Ranking: The Akron PMSA ranked 4th (of 9) among Ohio comparison regions while the Youngstown-Warren MSA ranked 7th. The Canton-Massillon MSA exhibited the lowest expenditures per pupil among the 9 Ohio comparison regions.

Northeast Ohio Ranking: Among Northeast Ohio regions, the Cleveland-Lorain-Elyria PMSA revealed the highest expenditures per pupil in 1997 (\$6,701). The Akron PMSA trailed by \$816, the Youngstown-Warren MSA by \$1,050, and the Canton-Massillon MSA by \$1,490 per pupil.

EXPENDITURE PER PUPIL

Ohio Comparison Regions	1990-1997							
	1990	1991	1992	1993	1994	1995	1996	1997
Cleveland-Akron MSA	\$4,883	\$5,150	\$5,347	\$5,653	\$5,769	\$5,946	\$6,091	\$6,503
Toledo MSA	\$4,397	\$4,628	\$4,819	\$5,242	\$5,519	\$5,734	\$5,722	\$6,051
Columbus MSA	\$4,360	\$4,560	\$4,841	\$5,202	\$5,523	\$5,517	\$5,747	\$5,943
Dayton-Springfield MSA	\$4,113	\$4,318	\$4,667	\$5,088	\$5,089	\$5,365	\$5,476	\$5,867
Cincinnati MSA (Ohio Only)	\$4,228	\$4,459	\$4,479	\$5,115	\$5,227	\$5,505	\$5,466	\$5,818
Youngstown-Warren MSA	\$3,978	\$4,124	\$4,285	\$4,853	\$5,026	\$5,272	\$5,364	\$5,651
Mansfield MSA	\$3,860	\$4,071	\$4,313	\$4,763	\$4,936	\$5,069	\$5,274	\$5,612
Canton-Massillon MSA	\$3,833	\$4,013	\$4,233	\$4,476	\$4,717	\$4,919	\$5,066	\$5,211

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at MSA/PMSA Level	1990-1997							
	1990	1991	1992	1993	1994	1995	1996	1997
Cleveland/Lorain/Elyria PMSA	\$5,082	\$5,318	\$5,543	\$5,858	\$5,961	\$6,124	\$6,262	\$6,701
Akron PMSA	\$4,261	\$4,626	\$4,749	\$5,004	\$5,158	\$5,379	\$5,554	\$5,885
Youngstown/Warren MSA	\$3,978	\$4,124	\$4,285	\$4,853	\$5,026	\$5,272	\$5,364	\$5,651
Canton/Massillon MSA	\$3,833	\$4,013	\$4,233	\$4,476	\$4,717	\$4,919	\$5,066	\$5,211

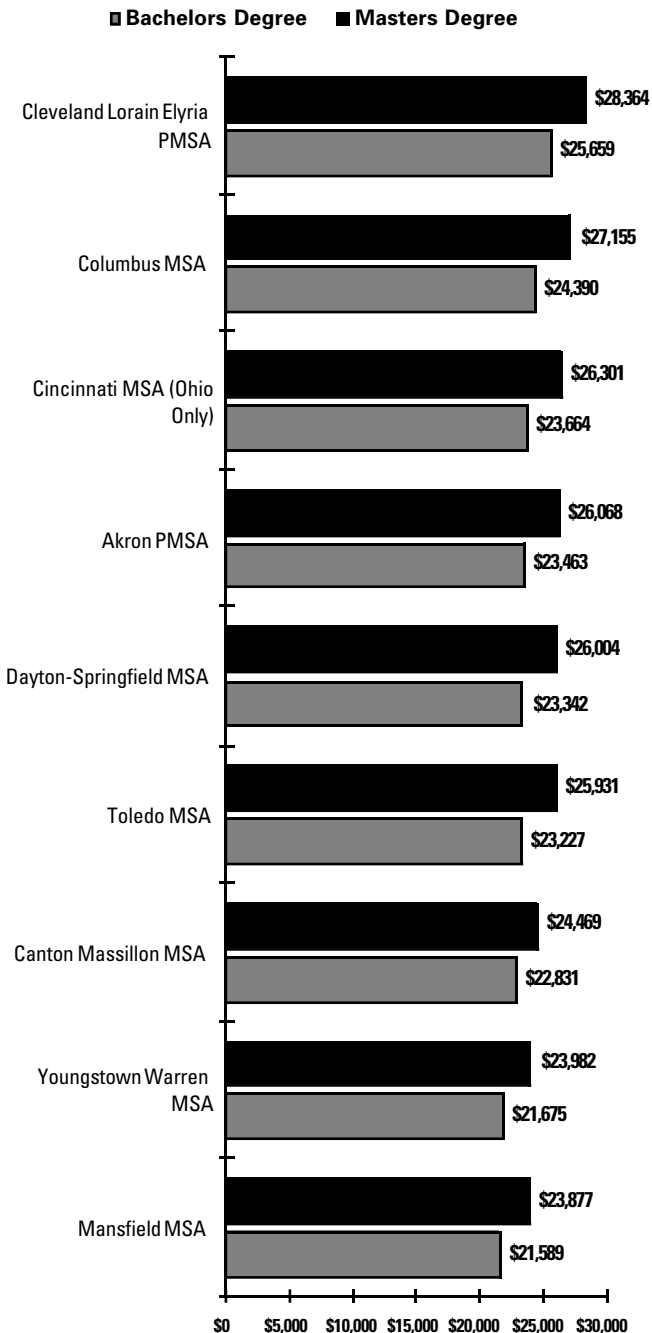
Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at County Level	1990-1997							
	1990	1991	1992	1993	1994	1995	1996	1997
Cuyahoga	\$5,721	\$5,907	\$6,209	\$6,412	\$6,433	\$6,572	\$6,745	\$7,316
Lake	\$4,841	\$5,161	\$5,243	\$5,579	\$5,802	\$5,934	\$5,981	\$6,336
Geauga	\$4,567	\$4,819	\$5,179	\$5,501	\$5,686	\$5,788	\$5,963	\$6,160
Summit	\$4,339	\$4,695	\$4,877	\$5,018	\$5,177	\$5,439	\$5,637	\$5,976
Mahoning	\$4,121	\$4,321	\$4,556	\$5,057	\$5,227	\$5,676	\$5,838	\$5,956
Wayne	\$3,555	\$3,773	\$4,153	\$4,666	\$4,814	\$4,881	\$5,185	\$5,770
Lorain	\$4,038	\$4,374	\$4,656	\$5,090	\$5,283	\$5,522	\$5,666	\$5,751
Medina	\$3,958	\$4,250	\$4,261	\$4,667	\$4,897	\$5,101	\$5,148	\$5,589
Portage	\$4,000	\$4,389	\$4,336	\$4,954	\$5,094	\$5,175	\$5,272	\$5,574
Trumbull	\$4,025	\$4,110	\$3,982	\$4,842	\$4,968	\$5,044	\$5,133	\$5,513
Columbiana	\$3,554	\$3,706	\$4,016	\$4,424	\$4,702	\$4,863	\$4,810	\$5,273
Stark	\$3,874	\$4,052	\$4,278	\$4,508	\$4,761	\$4,966	\$5,111	\$5,247
Ashtabula	\$3,513	\$3,693	\$3,525	\$4,305	\$4,541	\$4,777	\$4,848	\$5,110
Carroll	\$3,195	\$3,398	\$3,501	\$3,960	\$4,032	\$4,179	\$4,338	\$4,630

Source: Ohio Department of Education - Education Management Information System (EMIS)

C. Average Starting Salaries by Teacher' Educational Attainment 1997

Chart 43
Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS)

Average teacher starting salaries are reported to the Ohio Education Management Information System (EMIS) at the district level. Both average starting salaries and teacher full time equivalents (FTE's) were aggregated and the average recalculated to weight the results by size of region.



In 1997, starting teacher salaries in the Cleveland-Lorain-Elyria PMSA were the highest of all Ohio comparison regions for both bachelor's and master's degree holders.

State Ranking: In terms of teachers holding either bachelor's or master's degrees, the Akron PMSA ranked 4th (of 9), the Canton-Massillon MSA ranked 7th, and the Youngstown-Warren MSA ranked 8th.

Northeast Ohio Ranking: For Bachelor's degree holders, starting salaries in the Akron PMSA trailed the highest-in-class Cleveland-Lorain-Elyria PMSA by \$2,196. The Canton-Massillon and Youngstown-Warren MSAs trailed the highest-in-class Cleveland-Lorain-Elyria PMSA by \$2,828 and \$3,984.

For Master's degree holders the Akron PMSA trailed the highest-in-class Cleveland-Lorain-Elyria PMSA by \$2,296. The Canton-Massillon and Youngstown-Warren MSAs trailed the highest-in-class Cleveland-Lorain-Elyria PMSA by \$3,895 and \$4,382.

AVERAGE TEACHER STARTING SALARIES

Ohio Comparison Regions

	Bachelors Degree	1997 Masters Degree
Cleveland-Akron MSA	\$25,139	\$27,821
Columbus MSA	\$24,390	\$27,155
Cincinnati MSA (Ohio Only)	\$23,664	\$26,301
Dayton-Springfield MSA	\$23,342	\$26,004
Toledo MSA	\$23,227	\$25,931
Canton-Massillon MSA	\$22,833	\$24,470
Youngstown-Warren MSA	\$21,674	\$23,981
Mansfield MSA	\$21,589	\$23,877

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at MSA/PMSA Level

	Bachelors Degree	1997 Masters Degree
Cleveland/Lorain/Elyria PMSA	\$25,659	\$28,364
Akron PMSA	\$23,463	\$26,068
Canton/Massillon MSA	\$22,831	\$24,469
Youngstown/Warren MSA	\$21,675	\$23,982

Source: Ohio Department of Education - Education Management Information System (EMIS)

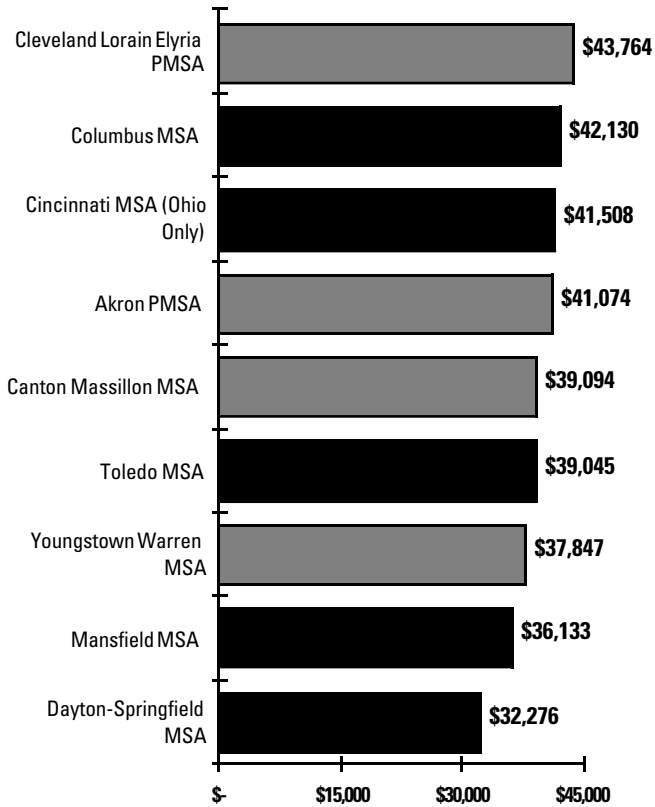
NE Ohio: Breakdown at County Level

	Bachelors Degree	1997 Masters Degree
Cuyahoga	\$26,756	\$29,556
Lake	\$25,430	\$27,302
Medina	\$24,224	\$26,977
Summit	\$23,720	\$26,288
Geauga	\$25,063	\$26,242
Lorain	\$23,137	\$26,218
Portage	\$22,603	\$25,330
Ashtabula	\$22,095	\$25,272
Wayne	\$22,996	\$25,027
Mahoning	\$22,375	\$24,699
Stark	\$22,927	\$24,530
Trumbull	\$21,394	\$23,621
Carroll	\$20,990	\$23,288
Columbiana	\$20,800	\$23,236

Source: Ohio Department of Education - Education Management Information System (EMIS)

D. Average Teacher Salaries 1997

Chart 44
Ohio Comparison Regions



Source: Ohio Department of Education - Education Management Information System (EMIS)

This indicator compares Ohio comparison regions in terms of average teacher salaries (not starting salaries) as reported to Ohio's Education Management Information System (EMIS) for the 1997 school year.



Like starting salaries, average teacher salaries in the Cleveland-Lorain-Elyria PMSA were the highest among Ohio comparison regions.

State Ranking: Average teacher salaries in the Akron PMSA and Canton-Massillon MSA ranked 4th (of 9) and 5th (of 9) respectively. The Youngstown-Warren MSA ranked 7th among Ohio comparison regions for this indicator.

Northeast Ohio Ranking: Among Northeast Ohio comparison regions the Akron PMSA trailed the highest-in-class Cleveland-Lorain-Elyria PMSA by \$2,690. The Canton-Massillon MSA trailed by \$4,670 and the Youngstown-Warren MSA by \$5,917.

AVERAGE TEACHER SALARY

Ohio Comparison Regions	1997
Cleveland-Akron MSA	\$43,128
Columbus MSA	\$42,130
Cincinnati MSA (Ohio Only)	\$41,508
Canton-Massillon MSA	\$39,094
Toledo MSA	\$39,045
Youngstown-Warren MSA	\$37,847
Mansfield MSA	\$36,133
Dayton-Springfield MSA	\$32,276

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at MSA/PMSA Level	1997
Cleveland/Lorain/Elyria PMSA	\$43,764
Akron PMSA	\$41,074
Canton/Massillon MSA	\$39,094
Youngstown/Warren MSA	\$37,847

Source: Ohio Department of Education - Education Management Information System (EMIS)

NE Ohio: Breakdown at County Level	1997
Lake	\$46,430
Cuyahoga	\$44,769
Medina	\$41,798
Summit	\$41,277
Lorain	\$41,273
Geauga	\$40,933
Portage	\$40,395
Mahoning	\$39,593
Stark	\$39,126
Carroll	\$38,479
Ashtabula	\$38,023
Wayne	\$37,872
Trumbull	\$37,166
Columbiana	\$35,628

Source: Ohio Department of Education - Education Management Information System (EMIS)