



FutureThink
PLAN TO EMPOWER

FINAL REPORT



OHIO FACILITIES CONSTRUCTION COMMISSION

Shaker Heights City School District

Cuyahoga County

Enrollment Projections

December 28, 2021

Shaker Heights City School District

INTRODUCTION

Based on a request from the Ohio Facilities Construction Commission, **FutureThink** was contracted to develop enrollment projections for the Shaker Heights City School District.

This report contains ten-year enrollment projections, which were developed for the Shaker Heights City School District by analyzing the following data:

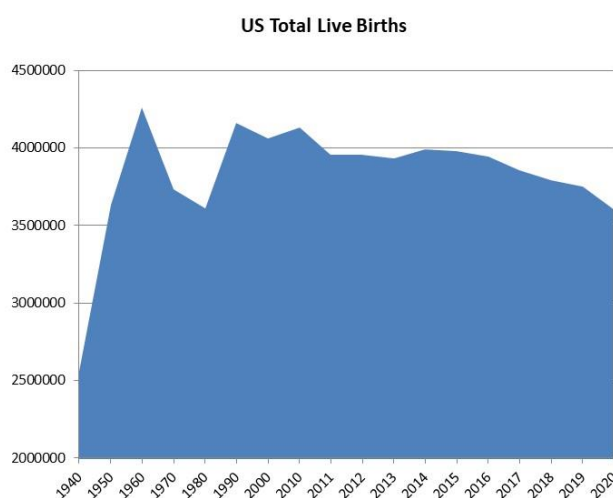
- ▶ Live birth data
- ▶ Historical enrollment
- ▶ Community school enrollment
- ▶ Open enrollment
- ▶ Community demographics
- ▶ Housing information

The projections presented in this report are meant to serve as a planning tool for the future and represent the most likely direction of the District.

Shaker Heights City School District

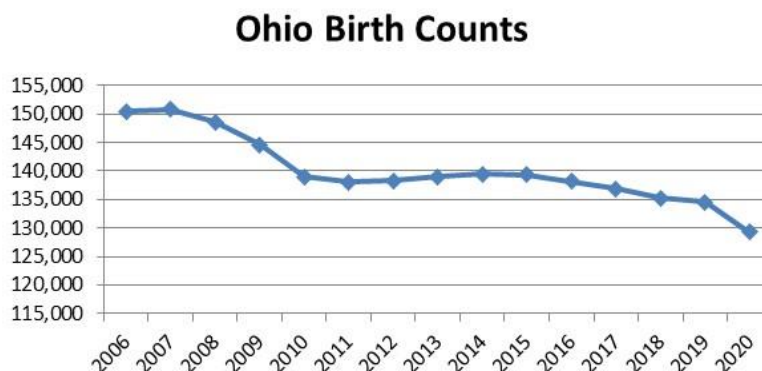
NATIONAL & OHIO TRENDS IN ENROLLMENT

Tracing the landscape of the country's public school enrollment back over the past 80 years reveals demographic, economic, and social changes. The United States as a whole continues to undergo major shifts in public student enrollment. The baby boom of the late 1940s and 50s was followed by the baby bust of the 1960s and 70s. An "echo" baby boom occurred in the 1980s, which then was followed by the echo baby bust from 1990 to 2000. There was a slight uptick from 2000 to 2010. There has been steady decline since 2014. The decrease from 2019 to 2020 was approximately 4 percent.



Source: CDC, NVSS, National Vital Statistics Rapid Reports, Report 012, Number 2, May 2021

Ohio has experienced a similar trend in live births as seen around the country. Births increased slightly in 2006 and 2007, but there has been steady decline since 2014. In 2020, the birth count total was 129,309, also a decrease of approximately 4% from the 2019 count.

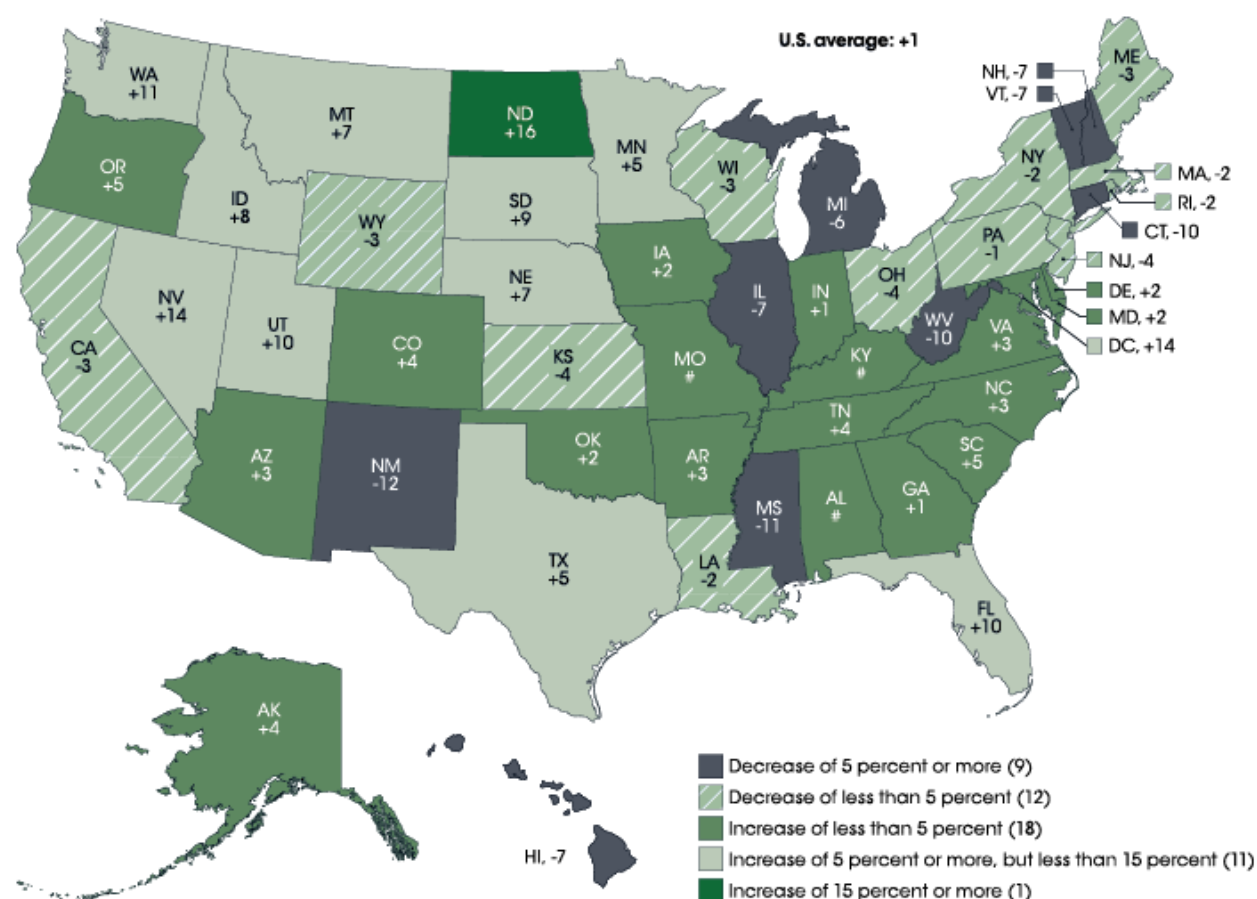


Shaker Heights City School District

In addition, to births dropping in Ohio, the state is also aging. The median age in 2020 was 40.2 years of age while the national median age was 38.0 years. In 2010, the median age in Ohio was 38.3 years.

In 2017-18, approximately 50.3 million students were enrolled in grades Pre-K-12 in the United States. Overall, enrollment is projected to increase by approximately 1% by the 2028-29 school year.

The figure below illustrates the projected change in Pre-K-12 public school enrollment from the 2016-17 to the 2029-30 school year. Growth is expected to continue primarily in the southeast and west. Ohio is projected to experience a decrease of 4 percent.



SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2017–18; and State Public Elementary and Secondary Enrollment Projection Model, 1980 through 2029. See *Digest of Education Statistics 2019*, [table 203.20](#)



Shaker Heights City School District

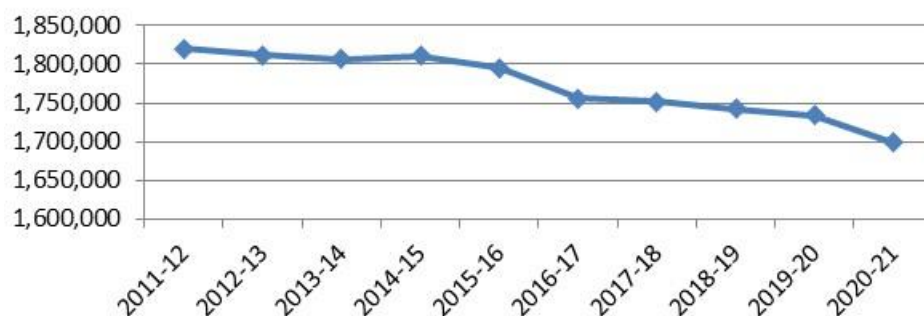
In Ohio, enrollment has declined steadily for both public and non-public school enrollment. From 2011-12 to 2020-21, public school enrollment declined by 121,387 students or approximately 7% statewide.

Ohio Public School Enrollment**2010-11 - 2019-20**

Year	October Headcount*
2011-12	1,820,312
2012-13	1,811,532
2013-14	1,806,267
2014-15	1,810,577
2015-16	1,795,339
2016-17	1,755,552
2017-18	1,751,888
2018-19	1,742,715
2019-20	1,733,911
2020-21	1,698,925

Source: Ohio Department of Education

*includes grades K-12 and ungraded

Ohio Public School Enrollment

Shaker Heights City School District

From 2011-12 to 2020-21, non-public school enrollment has declined by 17,058 students or approximately 10 percent.

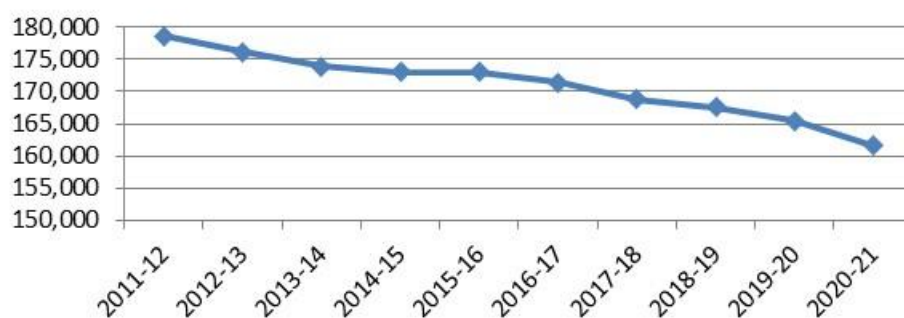
Ohio Chartered Non-Public School Enrollment
2010-11 - 2019-20

Year	October ADM*
2011-12	178,702
2012-13	176,166
2013-14	173,966
2014-15	173,030
2015-16	172,990
2016-17	171,426
2017-18	168,857
2018-19	167,558
2019-20	165,511
2020-21	161,644

Source: Ohio Department of Education

*includes grades K-12

Ohio Non-Public School Enrollment



Shaker Heights City School District

Out of 609 school districts, only 64 (or approximately 11%) gained enrollment in grades K - 12 from the 2011-12 to the 2020-21 school year and 5 districts experienced neither gain or loss in enrollment.

Of the 539 school districts who lost enrollment, only 68 (or 13%) lost less than 5 percent, and 103 districts (or 19%) lost between 5 and 10 percent. Approximately 46% (or 246 districts) lost between 10 and 20 percent, and approximately 23% (or 123 districts) lost more than 20 percent.

For those districts that gained enrollment, 20 (or 31%) increased by less than 5 percent, and 20 (or 31%) increased between 5 and 10 percent. Thirteen districts (or 20%) increased between 10 and 20%, and 11 districts (or 17%) increased over 20 percent.

Analyzing enrollment from a county perspective, only 7 of the 88 counties in Ohio gained K – 12 enrollment from the 2011-12 to the 2020-21 school year: Delaware, Hancock, Marion, Licking, Franklin, Warren, and Hamilton.

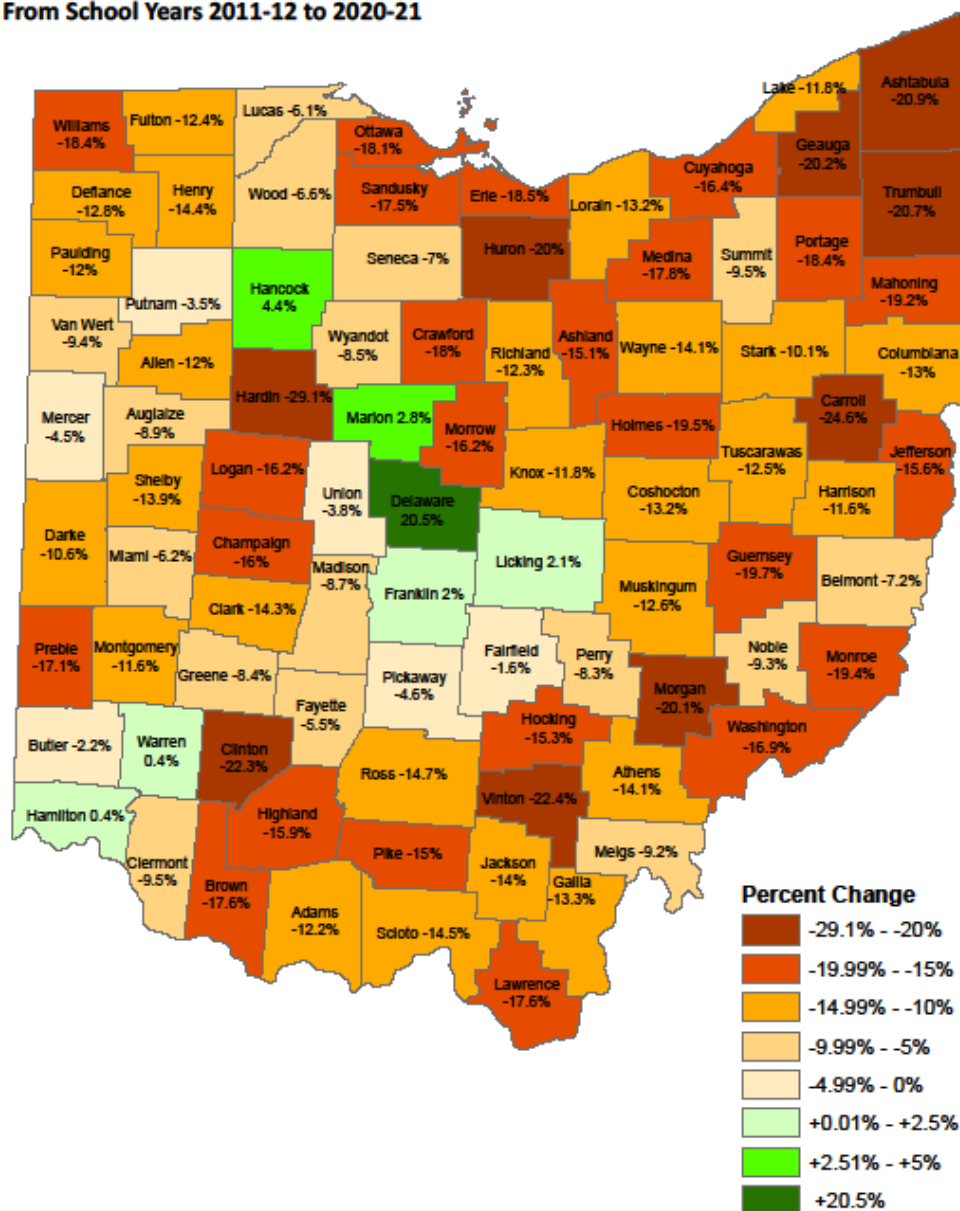
County	2011-12	2020-21	Difference	%
Delaware	27223	32817	5594	20.55%
Hancock	10900	11378	478	4.39%
Marion	9478	9741	263	2.77%
Licking	26428	26995	567	2.15%
Franklin	164293	167503	3210	1.95%
Warren	36112	36259	147	0.41%
Hamilton	99668	100029	361	0.36%

Hardin County had the highest percentage loss of students at approximately 29 percent. Sixty-seven percent of the counties (59 total) experienced a decline of greater than 10 percent. The map on the following page illustrates the gain/loss for each county from the 2011-12 to the 2020-21 school year.



Shaker Heights City School District

**Student Enrollment Growth/Loss
From School Years 2011-12 to 2020-21**



Shaker Heights City School District

ENROLLMENT PROJECTION METHODOLOGIES

When projecting future enrollments, it is vital to track the number of births, the patterns of enrollment, the amount of new housing activity, and the change in household composition.

In addition, any of the following factors could cause a significant change in projected student enrollments:

- ▶ Boundary adjustments
- ▶ New school openings
- ▶ Changes/additions in program offerings
- ▶ Preschool programs
- ▶ Change in grade configuration
- ▶ Interest rates/unemployment shifts
- ▶ Magnet/charter/private school opening or closure
- ▶ Zoning changes
- ▶ Unplanned new housing activity
- ▶ Planned, but not built, housing

Obviously, certain factors can be gauged and planned for far better than others. For instance, it may be relatively straightforward to gather housing data from local builders regarding the total number of lots in a planned subdivision and calculate the potential student yield. However, planning for changes in the unemployment rate, and how these may either boost or reduce public school enrollment, proves more difficult. In any case, it is essential to gather a wide variety of information in preparation for producing enrollment projections.

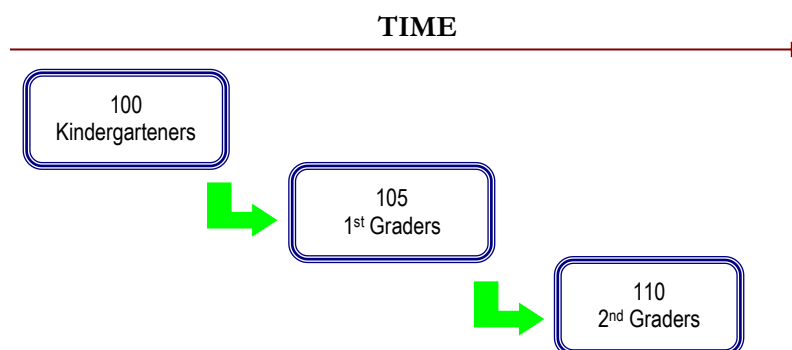
When looking ahead at a school district's enrollment over the next two, five, or ten years, it is helpful to approach the process from a global perspective. For example: How many new homes have been constructed each year? How many births have occurred each year in relation to the resident population? Is housing experiencing a turnover – if so, what is the composition of families moving in/out? Are more or less students attending private school or being home-schooled? What new educational policies are in place now that could affect student enrollment figures?

The data sets generated from questions such as these have led to the development of general methodologies to project future student enrollments. They are as follows:

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Cohort Survival Method

A cohort is a group of persons [in this case, students]. The cohort survival projection methodology uses previous live birth data and historical student enrollments to “age” a known population or cohort throughout the school grades. For instance, a cohort begins when a group of kindergarteners enrolls in grade K and moves to first grade the following year, second grade the next year, and so on.



A “survival ratio” is developed to track how this group of students grew or shrunk in number as they moved through the grade levels. By determining survival ratios for each grade transition [i.e., 1st to 2nd grade] over a ten-year period of time, patterns emerge and projection ratios can be developed to be used as a multiplier.

For example, if student enrollment has consistently increased from the 8th to the 9th grade over the past ten years, the survival ratios for each year would be greater than 100 percent. Through analysis of the survival ratios, the projection ratio is determined and is multiplied by the current 8th grade to develop a projection for next year’s 9th grade.

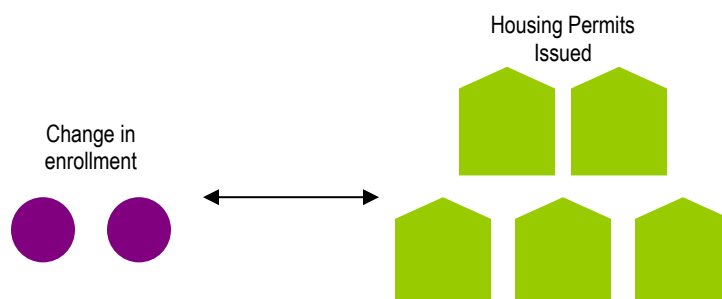
This methodology can be carried through to develop ten years of projection figures. Because there is not a grade cohort to follow for students coming into kindergarten, live birth counts are used to develop a survival ratio. Babies born five years previous to the kindergarten class are compared in number, and a ratio can be developed to project future kindergarten enrollments.

The cohort survival method is useful in areas where population is stable [relatively flat, growing steadily, or declining steadily], and where there have been no significant fluctuations in enrollment, births, and housing patterns from year to year.

Shaker Heights City School District

Housing

Enrollment projections can also be determined by analyzing the housing data for the areas that make up a school district. Yield factors can be established by comparing the historic change in enrollment from year to year divided by the total number of building or occupancy permits issued. For example, if student enrollment has increased by approximately 100 students each year and approximately 200 building permits have been issued each year for the past ten years, then the yield factor would be approximately .5 students per building permit.



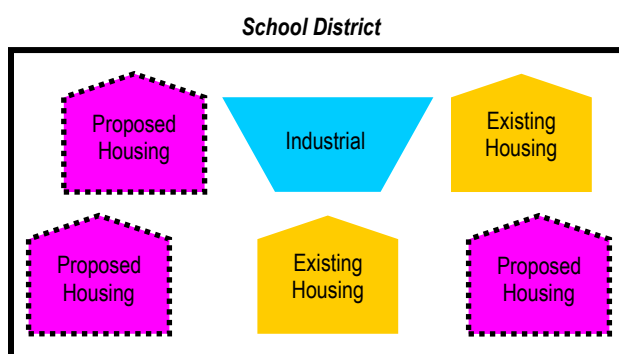
Once yield factors are established, the number of new students per year can be estimated by multiplying the yield factor by the number of projected new housing units. This method is effective when the rate of kindergarten enrollment far exceeds the live birth counts.

If housing demolitions are occurring in a district, these must also be taken into account. For instance, if housing demolitions/withdrawals have increased rapidly over recent years while new housing starts have remained relatively constant over many years, the conclusion may be that some of the new housing starts will simply be replacements for the families displaced by the demolitions. Of course, housing value and household composition would need to be further analyzed to confirm that this is indeed the case. It is possible that enrollment may remain flat or decline even though there is new housing occurring in the area.

Shaker Heights City School District

Land-Saturation Analysis

Housing data also drives the land-saturation analysis enrollment methodology. In areas where there is a high rate of development and the future development patterns in the area are clear, a “build-out” scenario can be developed. The scenario takes into consideration the remaining acreage to be developed, planned rate of completion, zoning policies, density per acre, type of housing, and ratios of school-age children per household type. This method is particularly useful in areas experiencing rapid growth.



Geographic Information Systems

While not a methodology, the need for better tools and easier manipulation of data has led to a new industry standard in planning – GIS [Geographic Information Systems]. GIS technology allows school districts to quickly analyze countless data sets including birth data, housing information, and enrollment statistics.

When paired with enrollment projections, GIS becomes an invaluable information-management and decision-making tool. Often, county or city offices are already implementing GIS technology and data can be shared and expanded among these organizations in the district. GIS tables and maps are included within this report illustrating population, age, and income estimates and projections.

The cohort survival was the primary method used in the development of the enrollment projections for the Shaker Heights City School District.

Shaker Heights City School District

HISTORICAL ENROLLMENT

Over the past ten years, student enrollment in the Shaker Heights City School District has decreased by 839 students in grades Pre-K – 12, including ungraded and career technical students. Total enrollment for the 2021-22 school year is 4,584 students.

The approximate percentages of mainstreamed special education students [Pre-K – 12] for the current school year are as follows:

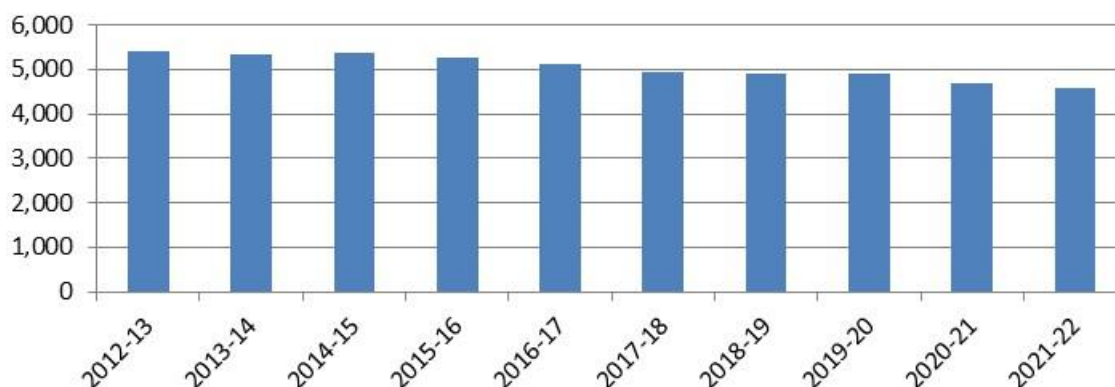
- Pre-K – 100%
- K-4 – 13%
- 5-6 – 25%
- 7-8 – 23%
- 9-12 – 20%

The approximate percentages of self-contained special education students [Pre-K – 12] for the current school year are as follows:

- Pre-K – 0%
- K-4 – 1%
- 5-6 – 1%
- 7-8 – 2%
- 9-12 – 2%

The following graph illustrates the District's Pre-K – 12 enrollment history from 2012-13 through 2021-22.

**Shaker Heights City School District
Historical Enrollment**



Shaker Heights City School District

The following tables illustrate the District's enrollment history from 2012-13 through 2021-22.

**Shaker Heights City School District
Historical Enrollment**

Grade	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Pre-K (regular)*	12	12	22	14	44	44	51	43	37	46
Pre-K (special needs)	46	46	40	38	29	31	29	33	39	30
K	346	376	364	334	330	309	305	333	266	313
1	370	350	378	375	348	343	313	330	309	302
2	368	353	353	380	348	340	339	316	318	316
3	410	374	361	353	395	347	332	345	307	339
4	402	396	377	354	345	392	370	342	331	313
5	414	412	414	372	372	348	402	374	320	321
6	407	409	423	409	373	373	361	428	375	330
7	441	403	418	409	414	368	370	368	416	352
8	422	457	431	422	389	407	379	372	367	375
9	526	496	496	469	439	412	452	426	373	394
10	414	464	455	454	427	409	402	441	396	371
11	392	366	417	415	400	363	334	333	379	316
12	370	352	351	400	373	371	352	323	340	375
Pre-K - 12 Total	5,340	5,266	5,300	5,198	5,026	4,857	4,791	4,807	4,573	4,493
Ungraded	12	5	4	3	9	15	7	8	10	0
Career Tech Comprehensive - Low Bay	0	0	0	0	0	0	0	0	0	5
Career Tech Off-Site	71	72	73	59	76	83	101	92	89	80
Career Tech On-Site - Low Bay	0	0	0	0	0	0	0	0	0	6
Grand Total	5,423	5,343	5,377	5,260	5,111	4,955	4,899	4,907	4,672	4,584

Source: Ohio Department of Education, EMIS; Shaker Heights City School District

**Shaker Heights City School District
Historical Enrollment by Grade Group**

Grade	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Pre-K (special needs) - 4	1,942	1,895	1,873	1,834	1,795	1,762	1,688	1,699	1,570	1,613
5 - 6	821	821	837	781	745	721	763	802	695	651
7 - 8	863	860	849	831	803	775	749	740	783	727
9 - 12	1,702	1,678	1,719	1,738	1,639	1,555	1,540	1,523	1,488	1,456
Pre-K - 12 Total	5,328	5,254	5,278	5,184	4,982	4,813	4,740	4,764	4,536	4,447
Ungraded	12	5	4	3	9	15	7	8	10	0
Career Tech Comprehensive - Low Bay	0	0	0	0	0	0	0	0	0	5
Career Tech Off-Site	71	72	73	59	76	83	101	92	89	80
Career Tech On-Site - Low Bay	0	0	0	0	0	0	0	0	0	6
Grand Total	5,411	5,331	5,355	5,246	5,067	4,911	4,848	4,864	4,635	4,538

Source: Ohio Department of Education, EMIS; Shaker Heights City School District

*regular Pre-K enrollment is not included in grade group table above or in the projected enrollment figures

Shaker Heights City School District

COMMUNITY SCHOOL ENROLLMENT

In Ohio, community school enrollment has increased over the last decade. From 2010-11 to 2019-20, enrollment has increased by approximately 3% from 99,658 students in 341 community schools to 102,634 students in 314 community schools.

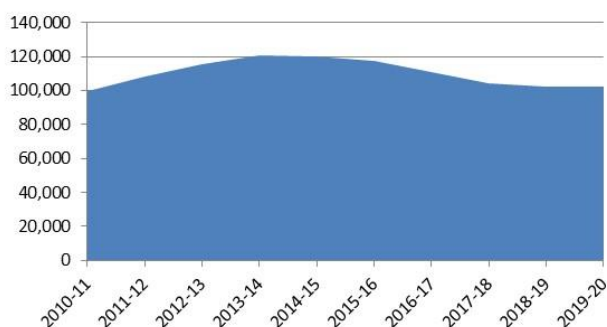
State of Ohio
Community School Enrollment (Pre-K - 12)

Grade	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Grand Total	99,658	108,124	115,225	120,893	120,200	117,282	110,961	104,380	102,563	102,634

Source: Ohio Department of Education, Ohio Community Schools Annual Report 2020-21

FTE students

Ohio Community School Enrollment

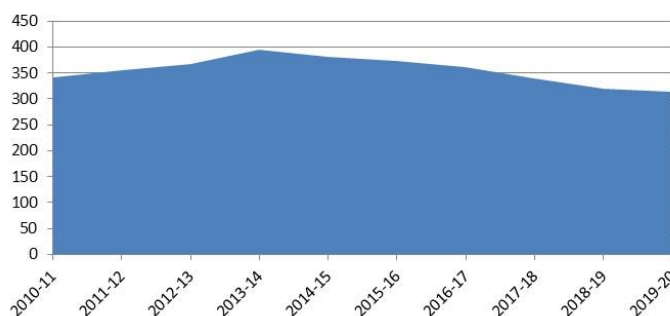


State of Ohio
Number of Community Schools

Grade	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Grand Total	341	355	367	395	381	373	362	340	320	314

Source: Ohio Department of Education, Ohio Community Schools Annual Report 2020-21

Number of Community Schools in Ohio



Shaker Heights City School District

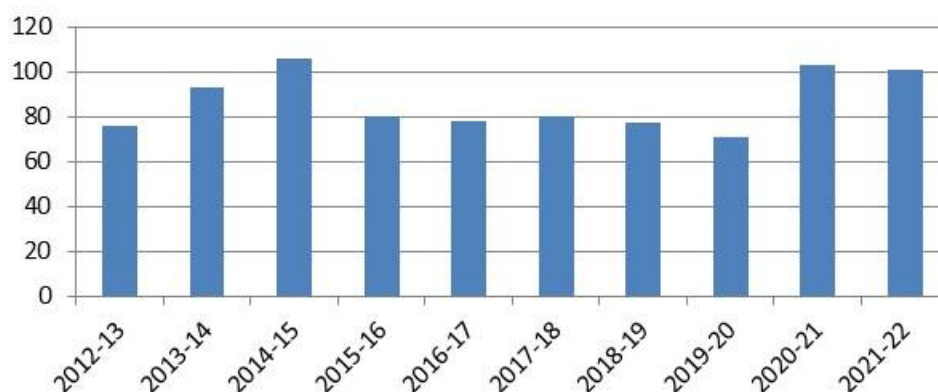
Since 2012-13, the number of Shaker Heights City School District students attending community schools has increased from 76 to 101 students with some fluctuation. Enrollment of Shaker Heights City School District students attending community schools should be closely monitored as it may have a significant impact on District enrollment in the future.

**Shaker Heights City School District
Community School Enrollment**

Grade	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Pre-K	0	0	0	0	0	0	0	0	0	0
K	5	4	6	8	4	9	11	5	8	9
1	5	18	7	12	8	3	7	10	8	8
2	2	8	17	7	9	4	3	6	15	8
3	3	3	8	3	7	8	3	8	6	15
4	2	2	4	0	2	5	12	3	5	6
5	3	5	5	2	4	2	5	5	6	5
6	3	2	12	6	5	6	3	5	9	6
7	4	8	8	7	7	4	3	2	10	9
8	5	5	7	7	7	7	9	3	10	10
9	21	13	12	10	8	10	3	4	3	10
10	6	8	7	4	5	10	4	6	3	3
11	6	12	9	3	3	5	12	8	9	3
12	11	5	4	11	9	7	2	6	11	9
Ungraded	0	0	0	0	0	0	0	0	0	0
Grand Total	76	93	106	80	78	80	77	71	103	101

Source: Ohio Department of Education, EMIS; Shaker Heights City School District

**Shaker Heights City School District
Students Attending Community Schools**



Shaker Heights City School District

OPEN ENROLLMENT

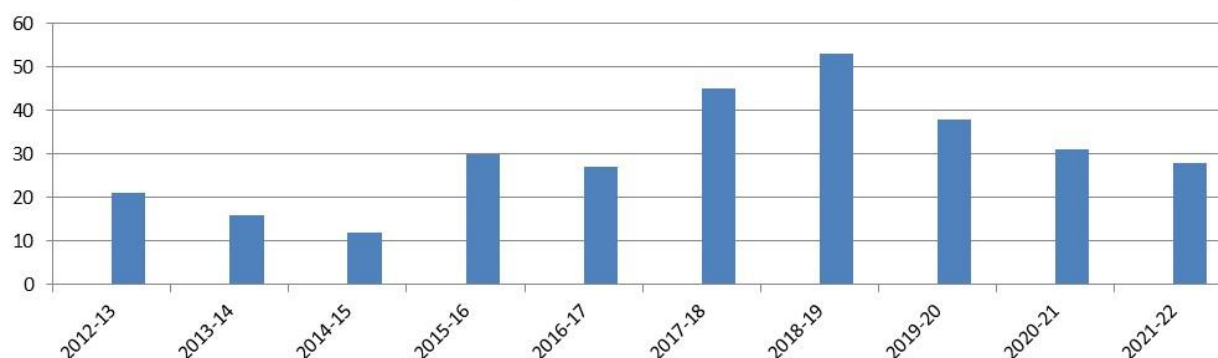
Since 2012-13, the number of Shaker Heights City School District students “open enrolling” out of the District has increased from 21 to 28 students with some fluctuation. There are no students “open enrolling” into the District. Significant changes in the number of students “open enrolling” into or out of the District from year to year can impact enrollment projections and should be monitored.

Shaker Heights City School District
Open Enrollment - OUT

Grade	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Pre-K	0	0	0	0	0	1	1	0	0	0
K	0	0	0	2	1	0	2	1	0	0
1	1	1	0	0	1	3	1	2	2	0
2	0	1	1	0	0	1	3	1	1	2
3	1	0	1	1	0	3	2	1	1	0
4	3	1	0	0	1	0	4	2	1	1
5	1	1	1	0	0	1	1	3	1	1
6	0	0	0	1	0	1	3	1	2	1
7	1	0	0	1	1	2	0	1	0	2
8	0	1	0	2	1	3	3	0	3	0
9	4	0	1	6	2	8	7	7	2	4
10	6	2	1	6	7	5	6	9	5	3
11	2	7	1	6	6	10	9	2	10	4
12	2	2	6	5	7	7	11	8	3	10
Ungraded	0	0	0	0	0	0	0	0	0	0
Grand Total	21	16	12	30	27	45	53	38	31	28

Source: Ohio Department of Education, EMIS; Shaker Heights City School District

Shaker Heights City School District
Open Enrollment - Out



Shaker Heights City School District

LIVE BIRTH DATA

Utilization of live birth data is recommended when projecting future kindergarten enrollments as it provides a helpful overall trend. The live birth counts are used in determining a birth-to-kindergarten survival ratio. This ratio identifies the percentage of children born in a representative area who attend kindergarten in the District five years later. The survival ratios for birth-to-kindergarten as well as grades 1-12 can be found later in this report.

The Ohio Department of Health [ODH] information warehouse provides information about live birth events for Ohio residents. Information about events occurring outside of Ohio to Ohio residents is included. Information about events occurring inside Ohio to non-Ohio residents is not included.

Data is arranged by the residence of the mother. For example, if a mother lives in Powell, Delaware County but delivers her baby in Columbus, Franklin County, the birth is counted in Powell, Delaware County.

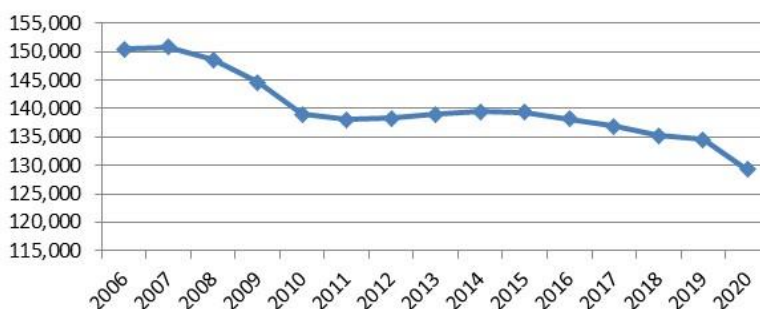
The number of live births is recorded by:

- ▶ State
- ▶ County
- ▶ City/Town
- ▶ Census Tract
- ▶ Zip Code
- ▶ Address [not available to the public]

Live birth counts are different from live birth rates. The live birth count is the actual number of live births. A birth rate is the number of births per 1,000 women in a specified population group. Birth rates are provided for counties only and for 9 age groups from 10-14 years to 45+ years.

Ohio has experienced a similar trend in live births as seen around the country. Births increased slightly in 2006 and 2007, but there has been steady decline since 2014. In 2020, the birth count total was 129,309, a decrease of approximately 4% from the 2019 count.

Ohio Birth Counts



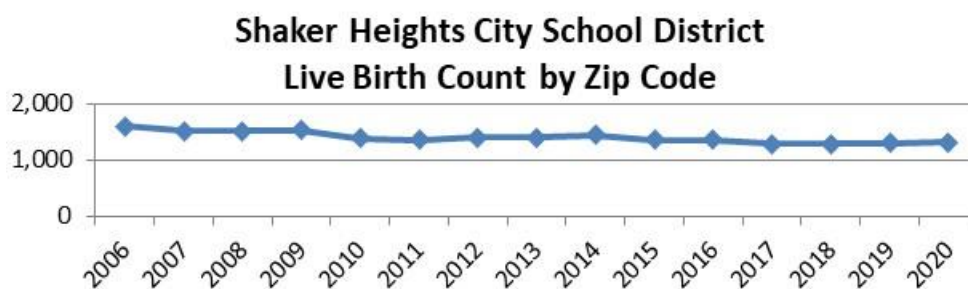
Shaker Heights City School District

The following table and graph include the live birth counts for zip codes 44118, 44120, and 44122.

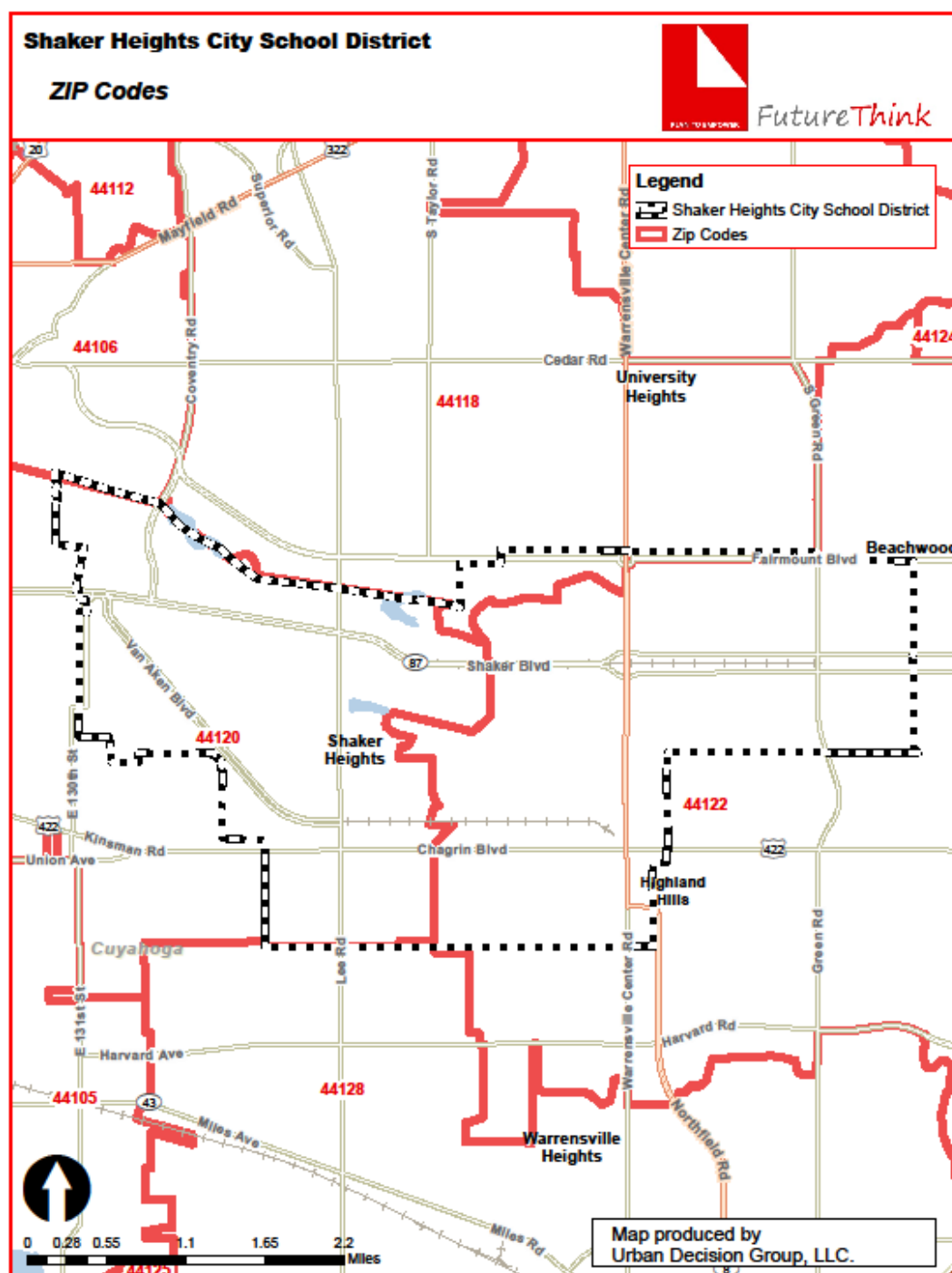
**Shaker Heights City School District
Live Birth Count by Zip Code
2006-2020**

Year	44118	44120	44122	Total # of Live Births
2006	654	632	319	1,605
2007	581	623	319	1,523
2008	585	586	343	1,514
2009	635	560	334	1,529
2010	622	471	295	1,388
2011	605	472	288	1,365
2012	598	526	282	1,406
2013	621	492	291	1,404
2014	604	503	338	1,445
2015	579	486	297	1,362
2016	569	449	337	1,355
2017	552	418	322	1,292
2018	549	401	337	1,287
2019	562	393	341	1,296
2020	577	386	350	1,313

Source: Ohio Department of Health, Public Health Data Warehouse



Shaker Heights City School District



Shaker Heights City School District

DEMOGRAPHICS

The Shaker Heights City School District is comprised of Shaker Heights City and a small portion of Cleveland City in Cuyahoga County. General demographic data is included in the following tables for the areas located completely or partially in the District.

General Demographic Information

	Cuyahoga County	State of Ohio
Per Capita Income	\$33,114	\$31,552
Median Household Income	\$50,366	\$56,602
Persons Below Poverty	17.5%	14.0%

Source: US Census, American Community Survey, 2019 5-Year Estimates

Total Population

	2010 Census	2020 Census
Cuyahoga County	1,280,122	1,264,817
Shaker Heights City	28,448	29,439
Cleveland City	396,185	372,624

Source: 2010: DEC Summary File 1; 2020 DEC Redistricting Data

Also included are block group estimates and projections provided by ESRI. ESRI uses a time series of estimates from the U.S. Census Bureau that includes the latest estimates and inter-censal estimates adjusted for error of closure. The Census Bureau's time series is consistent, but testing has revealed improved accuracy by using a variety of sources to track county population trends.

ESRI also employs a time series of building permits and housing starts plus residential deliveries. Data sources are integrated and then analyzed by Census Block Groups.

Sources of data include:

- ▶ Supplementary Surveys of the Census Bureau
- ▶ Bureau of Labor Statistics' (BLS) Local Area Unemployment Statistics
- ▶ BLS Occupational Employment Statistics
- ▶ InfoUSA
- ▶ U.S. Bureau of the Census' Current Population Survey
- ▶ National Planning Association Data Service

Shaker Heights City School District

Below is a list of definitions as they appear on the U.S. Census Bureau website, to aid in interpretation of the following tables and maps.

Household:

A household includes all the people who occupy a housing unit as their usual place of residence.

Average family size:

A measure obtained by dividing the number of members of families by the total number of families (or family householders).

Family household (Family):

A family includes a householder and one or more people living in the same household who are related to the householder by birth, marriage, or adoption. All people who are related to the householder are regarded as members of his or her family. A family household may contain people not related to the householder, but those people are not included as part of the householder's family in census tabulations. Thus, the number of family households is equal to the number of families, but family households may include more members than do families. A household can contain only one family for purposes of census tabulations. Not all households contain families since a household may comprise a group of unrelated people or one person living alone.

Householder:

The person, or one of the people, in whose name the home is owned, being bought, or rented. If there is no such person present, any household member 15 years old and over can serve as the householder for the purposes of the census. Two types of householders are distinguished: a family householder and a nonfamily householder. A family householder is a householder living with one or more people related to him or her by birth, marriage, or adoption. The householder and all people in the household related to him are family members. A nonfamily householder is a householder living alone or with nonrelatives only.



Shaker Heights City School District

The following tables illustrate the current estimates and 5-year population projections based on block groups that comprise the state and school district, indicating areas of current and projected growth. The tables have been developed to determine selected age group projections and projections for household income, family size, and total households.

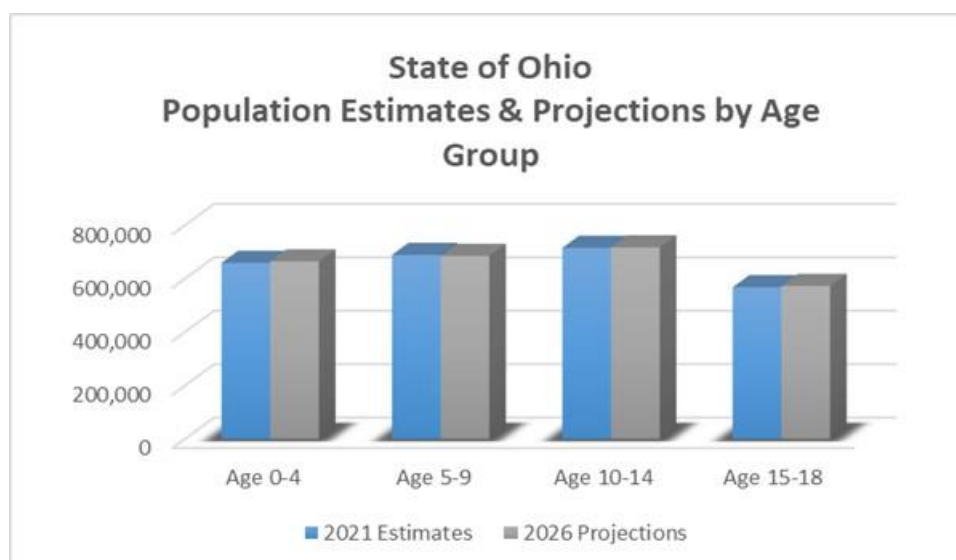
The total population in the State of Ohio is 11,839,300. This population is projected to increase by 126,863 people, or approximately 1% over a 5-year period.

The 0-18-year-old population in the State currently totals 2,630,394. This population is projected to increase by 8,711 children, or less than 1 percent.

The median age is projected to increase by approximately 2% from 40.5 to 41.2 years of age.

State of Ohio	2021 Estimates	2026 Projections	Change 2021-26	Change 2021-26 (%)
Total Population	11,839,300	11,966,163	126,863	1.1%
Age 0-4	658,995	664,484	5,489	0.8%
Age 5-9	688,748	685,425	-3,323	-0.5%
Age 10-14	714,974	716,908	1,934	0.3%
Age 15-18	567,677	572,288	4,611	0.8%
Total Age 0-18	2,630,394	2,639,105	8,711	0.3%
Median Age	40.5	41.2	0.7	1.7%

Source: ESRI

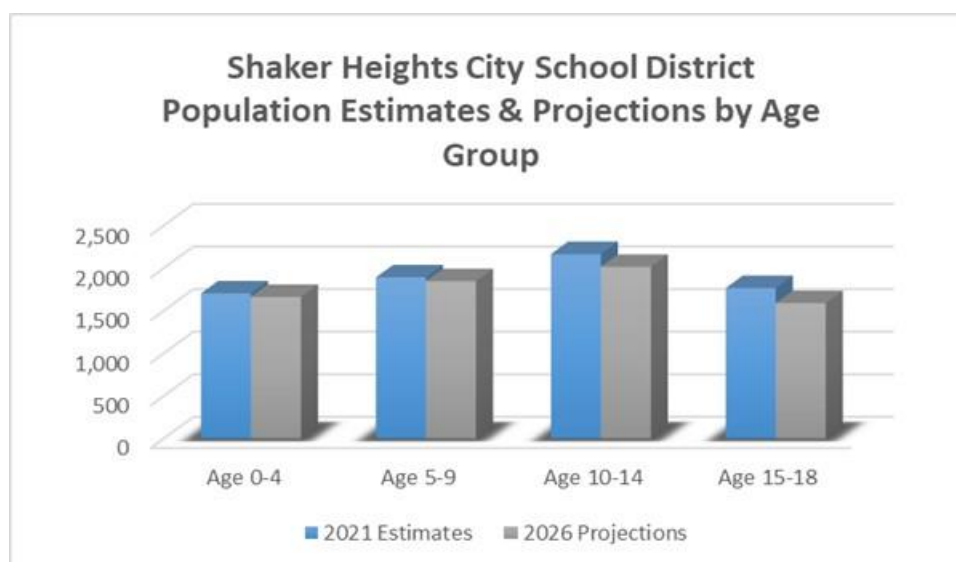


Shaker Heights City School District

The total population in the District is 31,957. This population is projected to decrease by 518 people, or approximately 2% over a 5-year period. The 0-18-year-old population in the District currently totals 7,536. This population is projected to decrease by 412 people, or approximately 6 percent. The median age is projected to increase by approximately 2%, from 42.9 to 43.6 years of age.

Shaker Heights City School District	2021 Estimates	2026 Projections	Change 2021-26	Change 2021-26 (%)
Total Population	31,957	31,439	-518	-1.6%
Age 0-4	1,706	1,665	-41	-2.4%
Age 5-9	1,894	1,849	-45	-2.4%
Age 10-14	2,167	2,018	-149	-6.9%
Age 15-18	1,769	1,592	-177	-10.0%
Total Age 0-18	7,536	7,124	-412	-5.5%
Median Age	42.9	43.6	0.7	1.6%

Source: ESRI



Shaker Heights City School District

Median and average household incomes in the State are projected to increase by approximately 10% and 12%, respectively over a 5-year period. The average family size is projected to remain the same, and the total number of family households is projected to increase by less than 1 percent.

State of Ohio	2021 Estimates	2026 Projections	Change 2021-26	Change 2021-26 (%)
Median Household Income	\$57,725	\$63,217	\$5,492	9.5%
Average Household Income	\$79,579	\$88,887	\$9,308	11.7%
Average Family Size	3.01	3.01	0.00	0.0%
Total Family Households	3,015,209	3,031,783	16,574	0.5%

Source: ESRI

Median and average household incomes in the District are projected to increase by approximately 10% and 11%, respectively over a 5-year period. The average family size is projected to remain the same, and the total number of family households is projected to decrease by 2 percent.

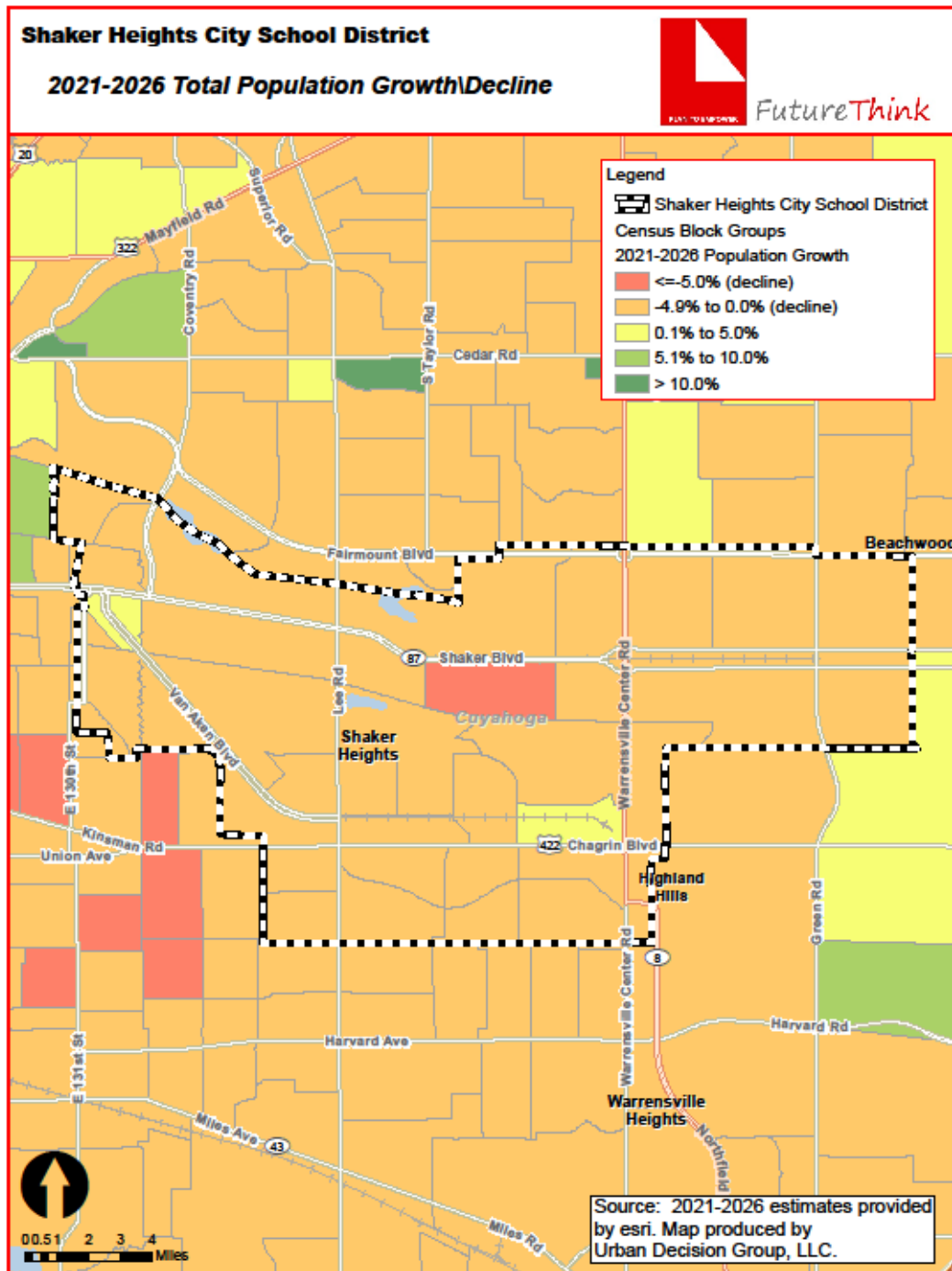
Shaker Heights City School District	2021 Estimates	2026 Projections	Change 2021-26	Change 2021-26 (%)
Median Household Income	\$78,667	\$86,235	\$7,568	9.6%
Average Household Income	\$126,325	\$139,794	\$13,469	10.7%
Average Family Size	3.00	3.00	0.00	0.0%
Total Family Households	8,403	8,238	-165	-2.0%

Source: ESRI

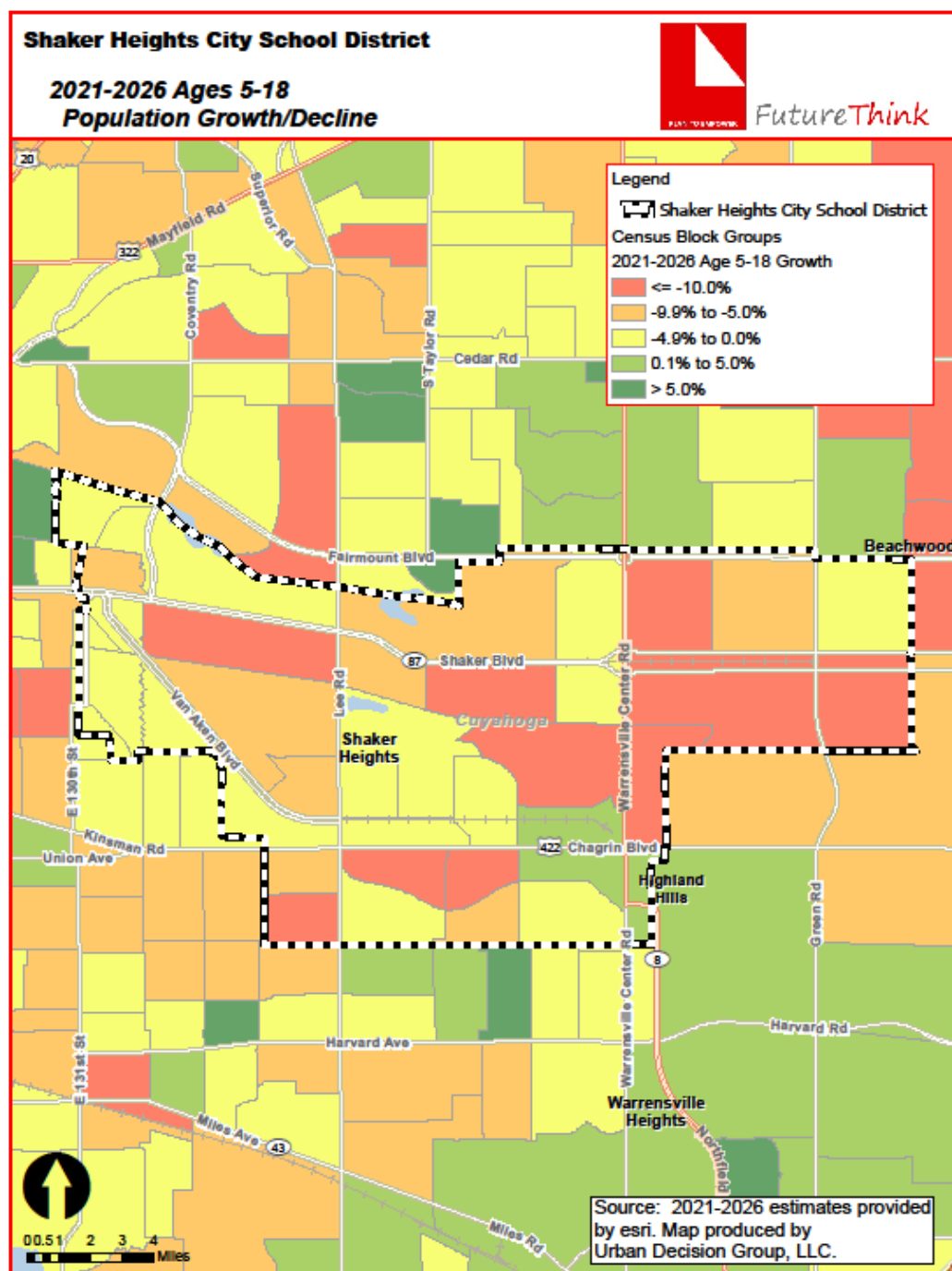
The maps on the following pages illustrate the data identified in the tables. The color coding identifies areas within the District that may be increasing or decreasing at different rates than others.



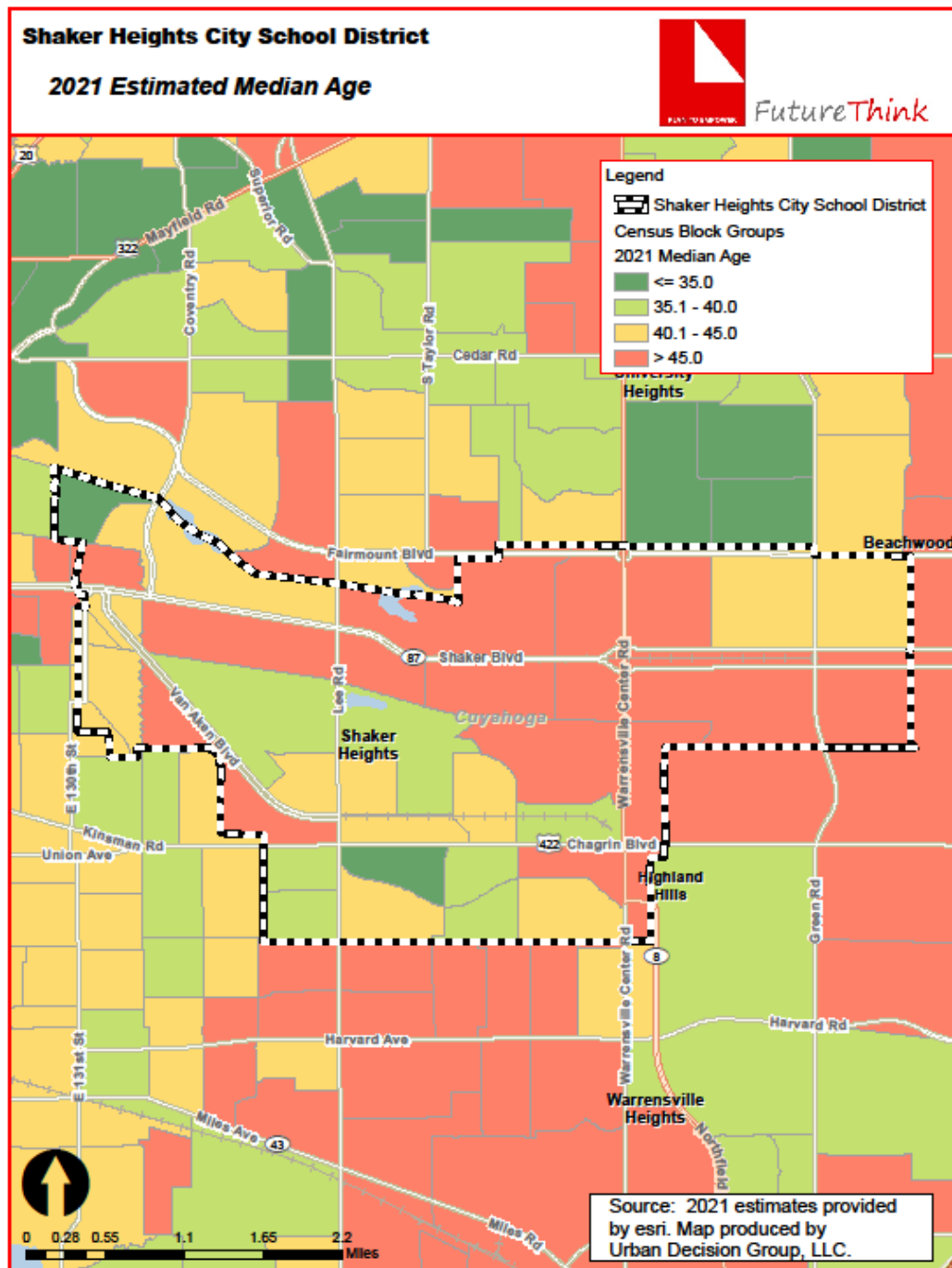
Shaker Heights City School District



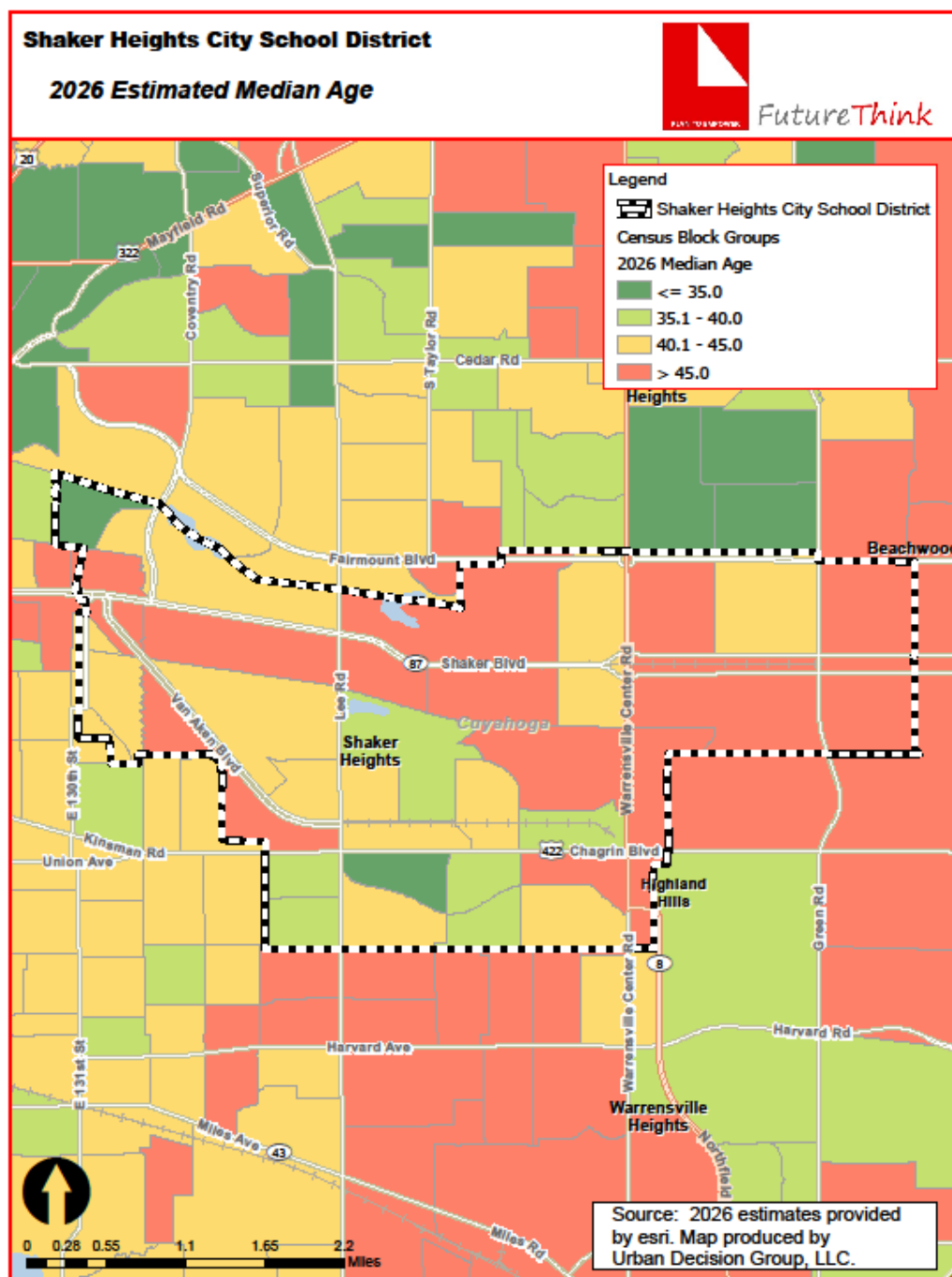
Shaker Heights City School District



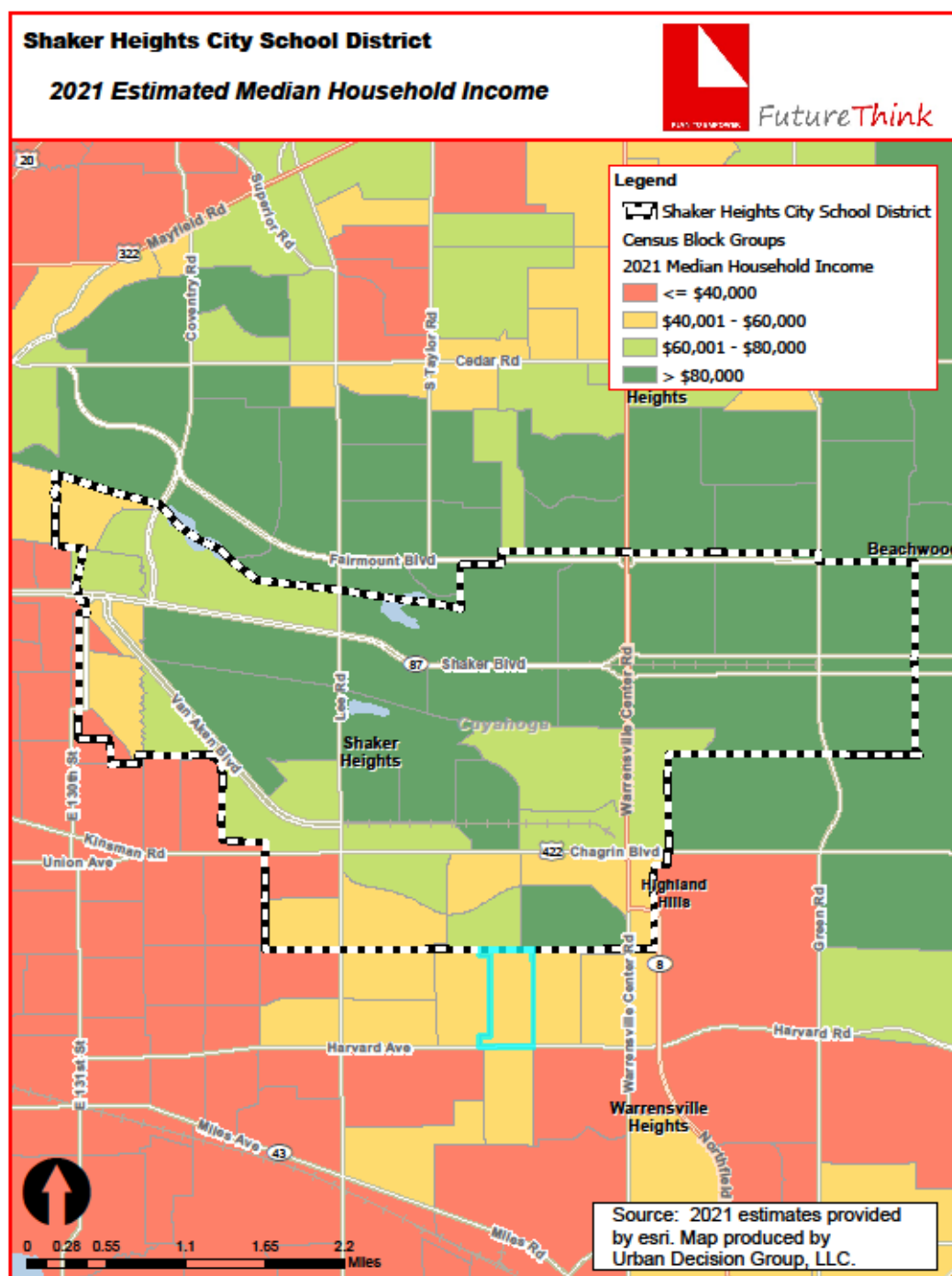
Shaker Heights City School District



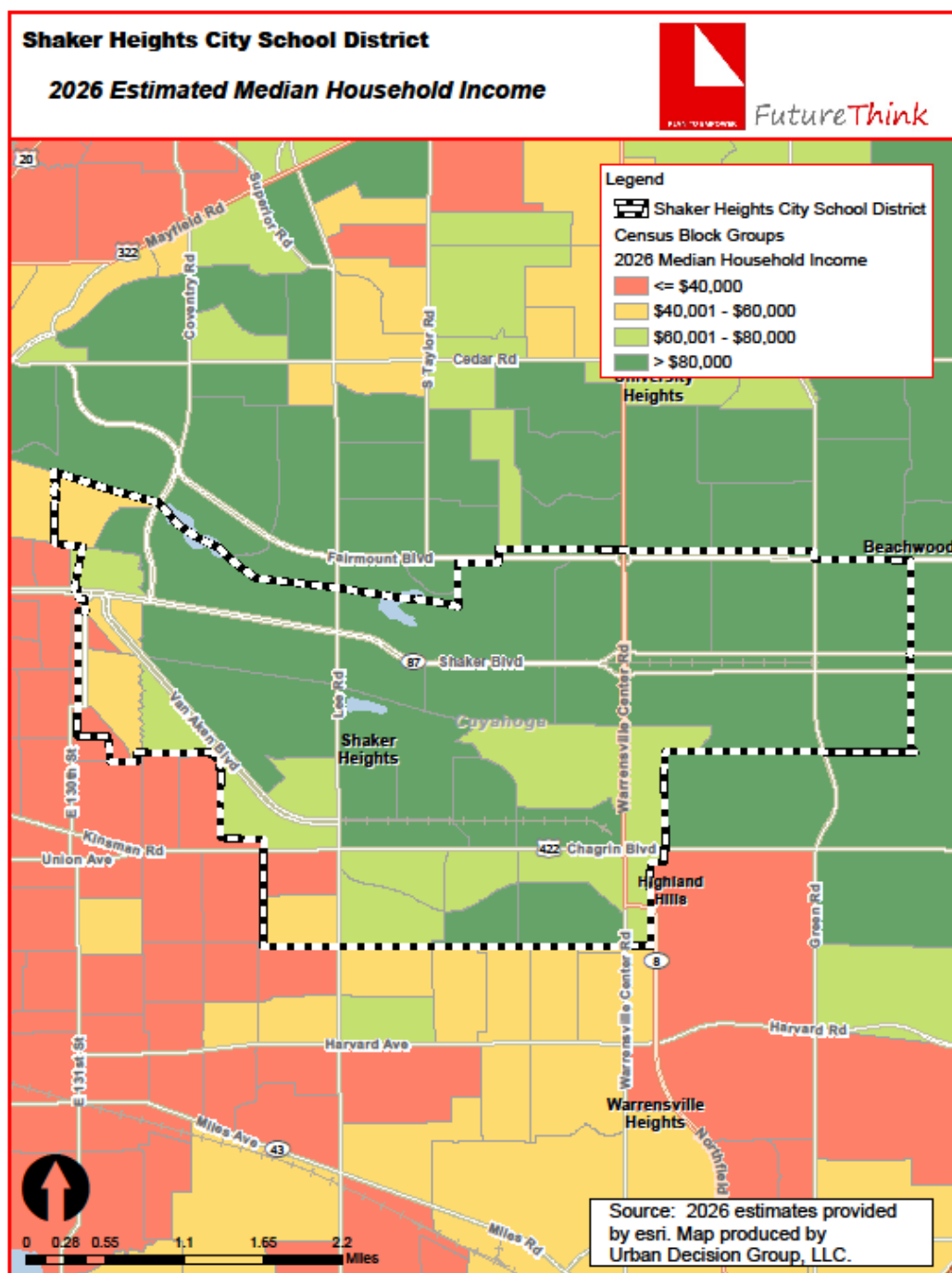
Shaker Heights City School District



Shaker Heights City School District



Shaker Heights City School District



Shaker Heights City School District

HOUSING INFORMATION

The chart below illustrates the number of single-family dwelling building permits issued each year in Shaker Heights City and Cuyahoga County.

**# of Building Permits Issued for Single Family
Dwellings**

Year	Shaker Heights City	Cuyahoga County
2011	0	401
2012	0	488
2013	0	678
2014	0	592
2015	2	702
2016	0	719
2017	0	728
2018	2	644
2019	0	570
2020	1	619
2021*	2	546

Source: SOCDS Building Permits Database

*preliminary through September 2021



Shaker Heights City School District

SURVIVAL RATIOS

The chart below demonstrates the changes in enrollment as students move through the system. Percentages greater than 100 indicate that there are more students than there were in the previous grade the previous year. In other words, there was growth and new students entered the system. Percentages less than 100 indicate that there was decline with students leaving the system.

- Birth to Kindergarten: This ratio indicates the number of children born in the area who attend kindergarten in the District 5 years later. Percentages less than 100% result from movement out of the district, attendance at a non-public or charter school, or residence in another district within the same area.
- Grades 8-9: The higher than usual percentage often is a result of school district promotion policies. Often in school districts, students are promoted from 8th to 9th grade and after one year in 9th grade do not have sufficient credits to be classified as 10th graders and are counted again as 9th graders the following year. There may also be students who attended private or charter schools or are home schooled through grade 8 and then attend public schools for high school education.

The following table illustrates the survival ratios for the Shaker Heights City School District.

from	to	birth -> K	K->1	1->2	2->3	3->4	4->5	5->6	6->7	7->8	8->9	9->10	10->11	11->12
2012	2013	24.8%	101.2%	95.4%	101.6%	96.6%	102.5%	98.8%	99.0%	103.6%	117.5%	88.2%	88.4%	89.8%
2013	2014	23.8%	100.5%	100.9%	102.3%	100.8%	104.5%	102.7%	102.2%	106.9%	108.5%	91.7%	89.9%	95.9%
2014	2015	24.1%	103.0%	100.5%	100.0%	98.1%	98.7%	98.8%	96.7%	101.0%	108.8%	91.5%	91.2%	95.9%
2015	2016	24.2%	104.2%	92.8%	103.9%	97.7%	105.1%	100.3%	101.2%	95.1%	104.0%	91.0%	88.1%	89.9%
2016	2017	22.0%	103.9%	97.7%	99.7%	99.2%	100.9%	100.3%	98.7%	98.3%	105.9%	93.2%	85.0%	92.8%
2017	2018	21.7%	101.3%	98.8%	97.6%	106.6%	102.6%	103.7%	99.2%	103.0%	111.1%	97.6%	81.7%	97.0%
2018	2019	23.0%	108.2%	101.0%	101.8%	103.0%	101.1%	106.5%	101.9%	100.5%	112.4%	97.6%	82.8%	96.7%
2019	2020	19.5%	92.8%	96.4%	97.2%	95.9%	93.6%	100.3%	97.2%	99.7%	100.3%	93.0%	85.9%	102.1%
2020	2021	23.1%	113.5%	102.3%	106.6%	102.0%	97.0%	103.1%	93.9%	90.1%	107.4%	99.5%	79.8%	98.9%
	average	22.92%	103.184%	98.41%	101.2%	100.00%	100.6%	101.6%	98.9%	99.8%	108.435%	93.695%	85.871%	95.441%
	standard deviation	1.535%	5.339%	2.929%	2.810%	3.250%	3.490%	2.422%	2.556%	4.658%	4.705%	3.492%	3.658%	3.816%



Shaker Heights City School District

ENROLLMENT PROJECTION

Enrollment projections were developed after analyzing the data collected in this report. The projections indicate a decrease of 187 students in grades Pre-K through 12, not including regular Pre-K students, from the 2021-22 to the 2031-32 school year. The following tables and graph illustrate projected enrollments by grade and by grade group through the 2030-31 school year.

Preschool:

The Ohio School Design Manual [OSDM] provides space for preschool students with disabilities and a maximum of 40 ECE preschool students. The Shaker Heights City School District funds preschool through the following sources:

- General fund
- Tuition

Please note that the Shaker Heights City School District preschool program consists of students with disabilities and some typically developing students. For the last 5 years, the District has offered a tuition-based pilot program limited to 32 students.

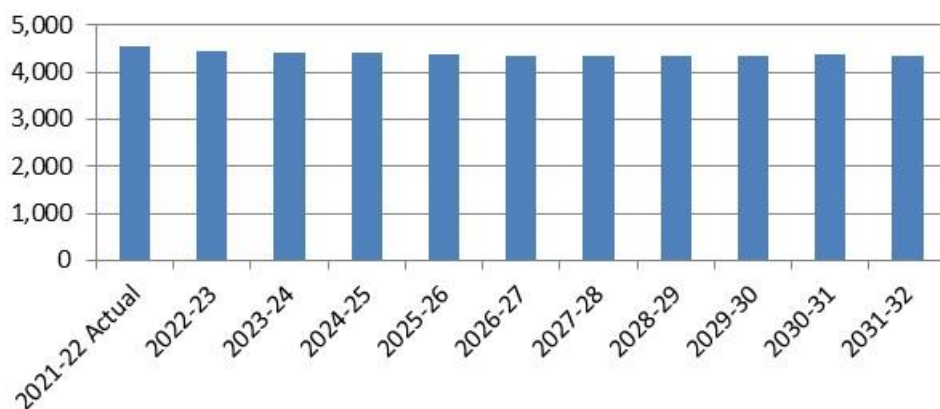
Kindergarten:

The OSDM provides space for all day, every day kindergarten.

Career Technical:

Due to the specialized space requirements, career technical students are pulled out of the 11th and 12th grade enrollments and projected separately.

**Shaker Heights City School District
Projected Enrollment**



Shaker Heights City School District

Shaker Heights City School District
Projected Enrollment

Grade	2021-22 Actual	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Pre-K (special needs)	30	35	34	35	35	35	35	35	35	35	35
K	313	299	298	300	304	302	302	302	302	302	302
1	302	331	316	314	317	321	318	318	318	318	318
2	316	300	328	313	312	314	318	316	316	316	316
3	339	321	305	333	318	317	319	323	321	321	321
4	313	346	328	311	339	324	323	325	329	327	327
5	321	317	350	331	314	343	328	326	329	333	331
6	330	332	327	361	342	324	354	338	337	339	344
7	352	326	327	323	356	337	320	349	334	332	335
8	375	355	328	329	325	358	339	322	351	336	334
9	394	407	384	355	357	352	388	367	348	381	363
10	371	379	391	369	341	343	338	373	353	335	366
11	316	314	321	331	312	289	290	286	316	299	283
12	375	304	302	309	318	300	278	279	275	304	287
Pre-K - 12 Total	4,447	4,366	4,339	4,314	4,290	4,259	4,250	4,259	4,264	4,278	4,262
Ungraded	0	6	6	6	6	6	6	6	6	6	6
Career Tech Comprehensive - Low Bay	5	5	5	5	5	5	5	5	5	5	5
Career Tech Off-Site	80	79	79	82	80	75	72	72	75	77	73
Career Tech On-Site - Low Bay	6	6	6	6	6	6	5	5	6	6	5
Grand Total	4,538	4,462	4,435	4,413	4,387	4,351	4,338	4,347	4,356	4,372	4,351

Source: FutureThink

Shaker Heights City School District
Projected Enrollment by Grade Group

Grade	2021-22 Actual	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32
Pre-K (special needs) - 4	1,613	1,632	1,609	1,606	1,625	1,613	1,615	1,619	1,621	1,619	1,619
5 - 6	651	649	677	692	656	667	682	664	666	672	675
7 - 8	727	681	655	652	681	695	659	671	685	668	669
9 - 12	1,456	1,404	1,398	1,364	1,328	1,284	1,294	1,305	1,292	1,319	1,299
Pre-K - 12 Total	4,447	4,366	4,339	4,314	4,290	4,259	4,250	4,259	4,264	4,278	4,262
Ungraded	0	6	6	6	6	6	6	6	6	6	6
Career Tech Comprehensive - Low Bay	5	5	5	5	5	5	5	5	5	5	5
Career Tech Off-Site	80	79	79	82	80	75	72	72	75	77	73
Career Tech On-Site - Low Bay	6	6	6	6	6	6	5	5	6	6	5
Grand Total	4,538	4,462	4,435	4,413	4,387	4,351	4,338	4,347	4,356	4,372	4,351

Source: FutureThink

Shaker Heights City School District

CONCLUSION

As with any projection, the District should pay close attention to live birth counts, enrollment in elementary schools, community school enrollment, open enrollment, and any housing growth. Each of these factors will have an impact on future student enrollment.

FutureThink is pleased to have had the opportunity to provide the District with enrollment projection services. We hope this document will provide the necessary information to make informed decisions about the future of the Shaker Heights City School District.



Shaker Heights City School District

APPENDIX

The following documents are included in the appendix:

- District Acceptance
- District Questionnaire

The December 2014 Enrollment Projection Report is available upon request.





Tracy Healy <thealy@futurethinkinc.com>

Shaker Heights CSD (Cuyahoga) REVISED DRAFT Enrollment Projection Report

Glasner, David <glasner_d@shaker.org>

Tue, Dec 28, 2021 at 8:02 AM

To: Tracy Healy <thealy@futurethinkinc.com>

Cc: Bryan Christman <christman_b@shaker.org>, "Rateno, Chris" <rateno_c@shaker.org>, "Roka, Steve" <Steve.Roka@ofcc.ohio.gov>, "Drerup, Melanie" <Melanie.Drerup@ofcc.ohio.gov>, "Parker, Janice" <Janice.Parker@ofcc.ohio.gov>, Joseph.Macneil@ofcc.ohio.gov, Valerie.Montoya@ofcc.ohio.gov, "Prenosil, Bill" <bill.prenosil@ofcc.ohio.gov>, Chris.Bruner@ofcc.ohio.gov, Barbara.Mattei-Smith@ofcc.ohio.gov

Hi Tracy,
Thank you very much for the update and for your work. I accept the enrollment projection.
Sincerely,
David Glasner

[Quoted text hidden]

--

David Glasner, Ph.D.
Superintendent
Shaker Heights City School District
glasner_d@shaker.org
216-295-1400

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District Questionnaire for Shaker Heights City of Cuyahoga County (44750) [Thealy]

District Questionnaire has been submitted for review

Enrollment Report For Shaker Heights City of Cuyahoga County (44750)**Contact Information**

Superintendent Name: David Glasner
 Superintendent Email: glasner_d@shaker.org
 Superintendent Phone: (216) 295-4323
 Contact Name (if different from Superintendent): Dr. Chris Rateno
 Contact Title: Director, Student Data Systems & Accountability
 Contact Email: rateno_c@shaker.org
 Contact Phone: (216) 295-4295

K12 Enrollment

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
K	346	376	364	334	330	309	305	333	266	313
1	370	350	378	375	348	343	313	330	309	302
2	368	353	353	380	348	340	339	316	318	316
3	410	374	361	353	395	347	332	345	307	339
4	402	396	377	354	345	392	370	342	331	313
5	414	412	414	372	372	348	402	374	320	321
6	407	409	423	409	373	373	361	428	375	330
7	441	403	418	409	414	368	370	368	416	352
8	422	457	431	422	389	407	379	372	367	375
9	526	496	496	469	439	412	452	426	373	394
10	414	464	455	454	427	409	402	441	396	371
11	428	408	458	443	441	417	391	381	429	368
12	405	382	383	431	408	400	396	367	379	414
Ungraded	12	5	4	3	9	15	7	8	10	0
Total	5365	5285	5315	5208	5038	4880	4819	4831	4596	4508

All Day Kindergarten

Do you offer kindergarten to all students, all day, every day?

yes

Preschool Enrollment

Do you **house** Preschool/Pre-K students in your facilities, **including** Pre-K students in a program run by an ESC or other agency?
yes

Please select your district's preschool funding sources:
General Fund Tuition

Early Childhood Education (ECE) grant funding (known as entitlement and public preschool) is distributed by the Ohio Department of Education to districts to provide preschool services for 3- and 4-year old children of income eligible families.

Do you house Early Childhood Education (ECE) students in your facilities?
no

Do you house Pre-K students with disabilities in your facilities?
yes

Please provide enrollment data:

Grade	2012– 2013	2013– 2014	2014– 2015	2015– 2016	2016– 2017	2017– 2018	2018– 2019	2019– 2020	2020– 2021	2021– 2022
Pre-K with disabilities	46	46	40	38	29	31	29	33	39	30

Do you house other Pre-K students in your facilities that are not students with disabilities and are not enrolled in ECE, or Federal Head Start (e.g., tuition-based or funded with other sources)?

yes

Please provide enrollment data:

Grade	2012– 2013	2013– 2014	2014– 2015	2015– 2016	2016– 2017	2017– 2018	2018– 2019	2019– 2020	2020– 2021	2021– 2022
Pre-K Other (not disabled, not enrolled in ECE, or Federal Head Start)	12	12	22	14	44	44	51	43	37	46

Student Teacher Ratios

What are your district's current average student to teacher ratios for the following grade groups?

Include core teachers only.

- K–3 20 to 1
- 4–5 23 to 1
- 6–8 24 to 1
- 9–12 24 to 1

Grade Configurations

PK through 4
5 through 6
7 through 8
9 through 12

Students with Disabilities

Definitions:

- **IE13** — Special Education outside the regular class less than 21% of the day.
- **IE14** — Special Education outside the regular class at least 21% of the day and no more than 60% of the day.
- **IE15** — Special Education outside the regular class more than 60% of the day.

Please provide enrollment for students with disabilities by ODE program code and grade configuration.

Code	PK-4	5-6	7-8	9-12
IE13	156	110	114	254
IE14	94	52	52	44
IE15	22	9	11	27
Total	272	171	177	325

*These students should be included in the October headcount

Does your District house additional students with disabilities from other school districts? (i.e., county programs, etc.) no

Community Enrollment

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
PreK	0	0	0	0	0	0	0	0	0	0
K	5	4	6	8	4	9	11	5	8	9
1	5	18	7	12	8	3	7	10	8	8
2	2	8	17	7	9	4	3	6	15	8
3	3	3	8	3	7	8	3	8	6	15
4	2	2	4	0	2	5	12	3	5	6
5	3	5	5	2	4	2	5	5	6	5
6	3	2	12	6	5	6	3	5	9	6
7	4	8	8	7	7	4	3	2	10	9
8	5	5	7	7	7	7	9	3	10	10
9	21	13	12	10	8	10	3	4	3	10
10	6	8	7	4	5	10	4	6	3	3
11	6	12	9	3	3	5	12	8	9	3
12	11	5	4	11	9	7	2	6	11	9
Ungraded	0	0	0	0	0	0	0	0	0	0
Total	76	93	106	80	78	80	77	71	103	101

Open Enrollment (In)

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
Prek	0	0	0	0	0	0	0	0	0	0
K	1	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0

4	3	0	0	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	2	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	3	0	0	0	0	0	0	0	0	0
10	8	0	0	0	0	0	0	0	0	0
11	2	0	0	0	0	0	0	0	0	0
12	2	0	0	0	0	0	0	0	0	0
Ungraded	0	0	0	0	0	0	0	0	0	0
Total	23	0	0	0	0	0	0	0	0	0

Open Enrollment (Out)

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
Prek	0	0	0	0	0	1	1	0	0	0
K	0	0	0	2	1	0	2	1	0	0
1	1	1	0	0	1	3	1	2	2	0
2	0	1	1	0	0	1	3	1	1	2
3	1	0	1	1	0	3	2	1	1	0
4	3	1	0	0	1	0	4	2	1	1
5	1	1	1	0	0	1	1	3	1	1
6	0	0	0	1	0	1	3	1	2	1
7	1	0	0	1	1	2	0	1	0	2
8	0	1	0	2	1	3	3	0	3	0
9	4	0	1	6	2	8	7	7	2	4
10	6	2	1	6	7	5	6	9	5	3
11	2	7	1	6	6	10	9	2	10	4
12	2	2	6	5	7	7	11	8	3	10
Ungraded	0	0	0	0	0	0	0	0	0	0
Total	21	16	12	30	27	45	53	38	31	28

JVS Enrollment

Does your District belong to a JVSD? no

Career Technical Compact Enrollment

Does your District belong to a Compact? yes

Please select the districts in your compact.

Warrensville Heights City

Cleveland Heights-University Heights City

Bedford City

Maple Heights City

Please provide enrollment for students leaving to attend a career tech program at any of the districts in your compact.

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
Off-Site Career Tech 11th	36	42	41	28	41	54	57	48	50	41
Off-Site Career Tech 12th	35	30	32	31	35	29	44	44	39	39
Total	71	72	73	59	76	83	101	92	89	80

Career Tech Program Enrollment

Include only those students who are considered "concentrators" or enrolled in a "pathway". Do NOT include students who are just taking one course.

Comprehensive Career Tech: Students who attend academics and career technical programs in your district.

On-Site Career Tech: Students who attend academics in another district but attend career technical programs in your district.

Satellite JVSD: Same as Comprehensive Career Tech, but the program is sponsored and/or administered by the JVS District and housed by your District.

Do your district's students attend this program in your facilities? If so, please enter the 10-year enrollment numbers for the **F6-Engineering and Design-Program Type 2** program. Please use your official October enrollment (as available) to update the table. For years 2019-2020 and on use your enrollment data from the first full week of October.:

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
Comprehensive Career Tech 11	0	0	0	0	0	0	0	0	0	5
Comprehensive Career Tech 12	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	5

Number of sections you offer: 1 Notes:

Do you have students from outside districts coming to your district **ONLY** to take this career tech program? yes
Please enter the **On-Site** enrollment for the above program in the table below.

Grade	Enrolled 2012– 2013	Enrolled 2013– 2014	Enrolled 2014– 2015	Enrolled 2015– 2016	Enrolled 2016– 2017	Enrolled 2017– 2018	Enrolled 2018– 2019	Enrolled 2019– 2020	Enrolled 2020– 2021	Enrolled 2021– 2022
OnSite Career Tech 11	0	0	0	0	0	0	0	0	0	6
OnSite Career Tech 12	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	6

Boundaries

Please list municipalities, townships, and any additional counties within the boundaries of your school district: CLEVELAND

Has your District experienced changes in District-wide boundaries since 2004? no

Growth

Do you expect significant growth in your District over the next 10 years? no

Additional Information

Please provide any additional information you feel may impact your District's future enrollment [i.e. private schools opening or closing]

Tracy Healy instructed me to note the following: I have no Open Enrollment students coming into Shaker - I don't know how the State arrived at these numbers. We send Career Prep students to Warrensville Hts., Cleveland Hts/University Hts. Bedford, and Maple Hts.

Submission Documents

The following are additional documents which may be useful in projecting your District's enrollment. Please check any documents you intend to provide for consideration and forward documents to:

Tracy Healy (thealy@futurethinkinc.com)

or

Future Think Inc.

5685 Tynecastle Loop

Dublin, 43016

District map

☐ Return To District Print Report

Please contact Tracy Healy (thealy@futurethinkinc.com, 614-264-2638) with any questions or concerns regarding the District Questionnaire.