



FutureThink
PLAN TO EMPOWER



Rocky River City School District
Enrollment Projection Study
September 28, 2023

Rocky River City School District

INTRODUCTION

FutureThink was contracted to develop enrollment projections for the Rocky River City School District.

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

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

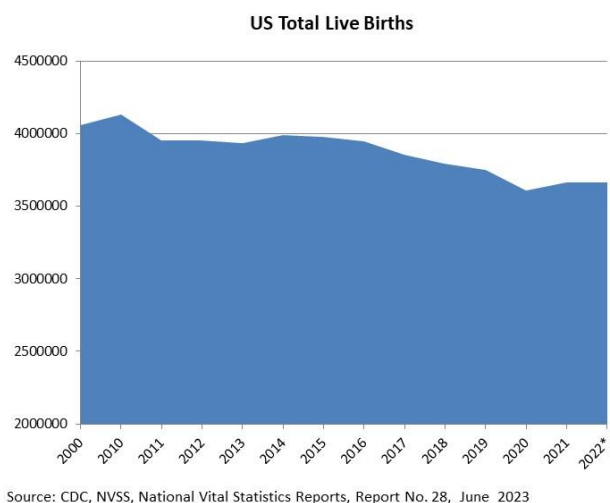
The projections presented in this report are meant to serve as a planning tool for the future and represent the most likely direction of the District.



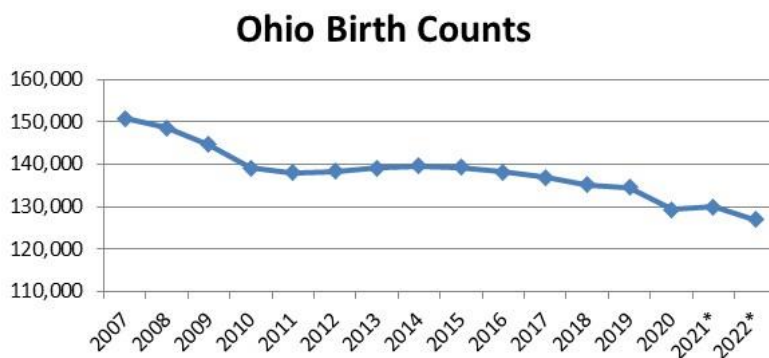
Rocky River City School District

NATIONAL & OHIO TRENDS IN ENROLLMENT

The United States as a whole continues to undergo major shifts in public student enrollment. Births are a significant part of this shift. From 2000 to 2010, births increased then declined until 2014 when there was a slight uptick. Since 2014, there has been steady decline reaching an all-time low in 2020. The decrease from 2019 to 2020 was approximately 4 percent. However, in 2021, there was a slight uptick of 1.5 percent. Births dropped slightly from 2021 to 2022.



From 2007 to 2011, Ohio births declined by 12,760 and then somewhat leveled off through 2014. Since 2014, births have dropped each year with a slight uptick from 2020 to 2021. From 2021 to 2022, births declined by almost 3,000 or 2.3 percent.



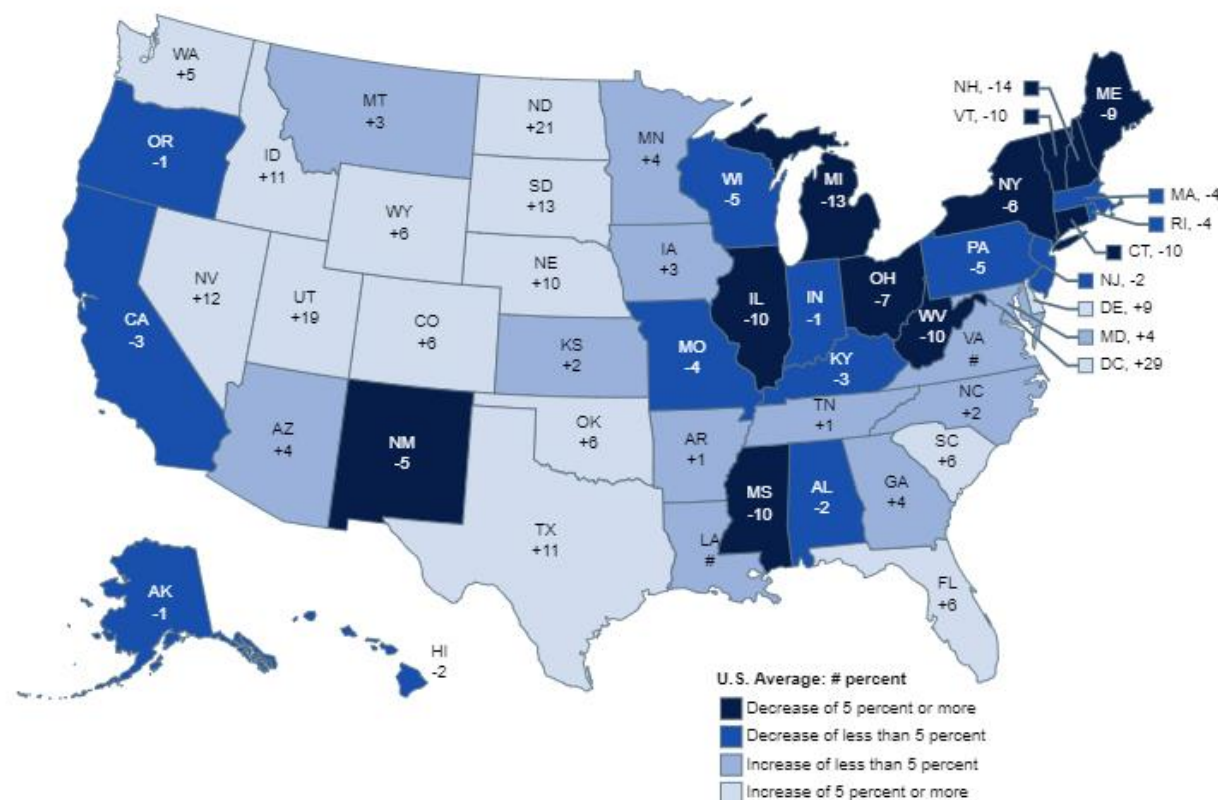
Rocky River City School District

In addition to births dropping in Ohio, the state is also aging. The median age in 2021 was 40.5 years of age while the national median age was 38.8 years. In 2010, the median age in Ohio was 38.3 years.

From the 2019-20 to the 2020-21 school year, total public school enrollment in Pre-K - 12 dropped from 50.8 million to 49.4 million students. From 2009-10 to the 2019-20 school year, however, enrollment had increased overall by 1.4 million.

The figure below illustrates the change in Pre-K - 12 public school enrollment from the 2009-10 to the 2020-21 school year. States with growth in enrollment were primarily in the southeast and west. Ohio experienced a decrease of 7 percent.

Figure 2. Percentage change in public elementary and secondary school enrollment, categorized into specific ranges, by state: Fall 2009 to fall 2020



Rounds to zero.

NOTE: U.S. average is for the 50 states and the District of Columbia. Data include both traditional public schools and public charter schools. Includes imputations for nonreported prekindergarten enrollment in California and Oregon for fall 2020. Includes imputations for nonreported enrollment for all grades in Illinois for fall 2020. Categorizations are based on unrounded percentages.

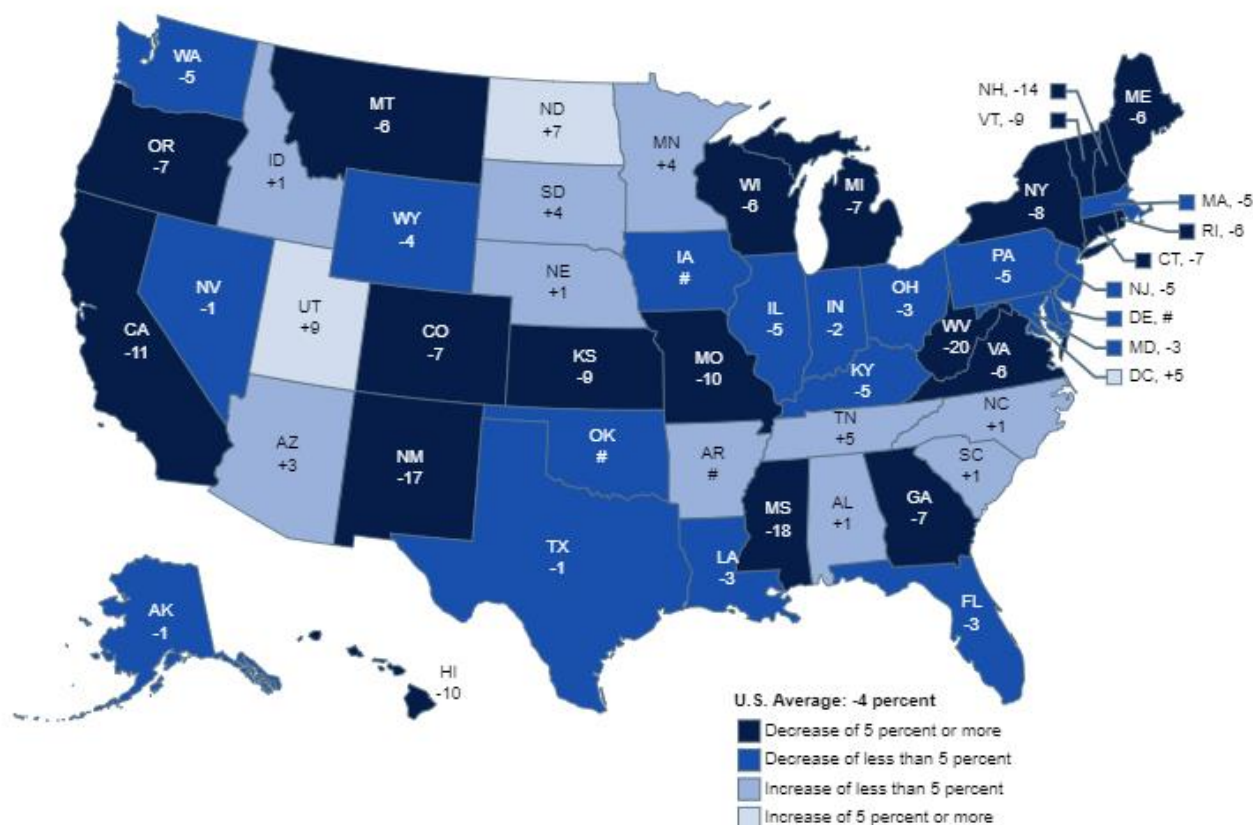
SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2009-10 and 2020-21 Preliminary. See *Digest of Education Statistics 2021*, table 203.20.



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The figure below illustrates the projected change in Pre-K-12 public school enrollment from the 2020-21 to the 2030-31 school year. Growth is expected to continue primarily in parts of the southeast and upper midwest. Ohio is projected to experience a decrease of 3 percent.

Figure 3. Projected percentage change in public elementary and secondary school enrollment, categorized into specific ranges, by state: Fall 2020 to fall 2030



Rounds to zero.

NOTE: U.S. average is for the 50 states and the District of Columbia. Data include both traditional public schools and public charter schools. Includes imputations for nonreported prekindergarten enrollment in California and Oregon for fall 2020. Includes imputations for nonreported enrollment for all grades in Illinois for fall 2020. Projections in this figure were calculated after the onset of the coronavirus pandemic and take into account the expected impacts of the pandemic. Categorizations are based on unrounded percentages.

SOURCE: U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), "State Nonfiscal Survey of Public Elementary/Secondary Education," 2020-21 Preliminary; and State Public Elementary and Secondary Enrollment Projection Model, through 2030. See *Digest of Education Statistics 2021*, table 203.20.



Rocky River City School District

From 2013-14 to 2022-23, Ohio public school enrollment declined by 106,310 students or approximately 6 percent. In 2021-22, there was a slight uptick of 5,810 or less than 0.5 percent.

Ohio Public School Enrollment

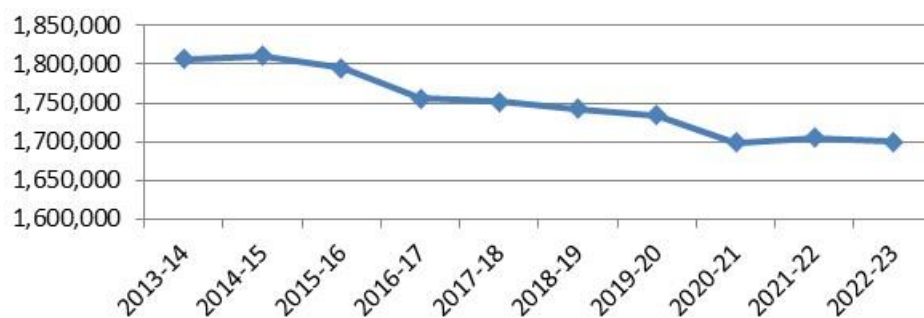
2013-14 - 2022-23

Year	October Headcount*
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
2021-22	1,704,735
2022-23	1,699,957

Source: Ohio Department of Education

*includes grades K-12 and ungraded

Ohio Public School Enrollment



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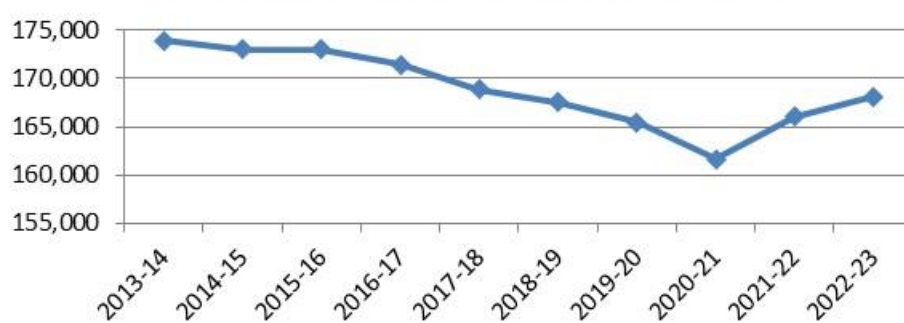
From 2013-14 to 2020-21, non-public school enrollment declined by 12,302 students or approximately 7 percent. However, in 2021-22, enrollment increased by over 4,000 students or approximately 3 percent. Enrollment increased again in 2022-23 by approximately 2,100 students.

Ohio Chartered Non-Public School Enrollment**2013-14 - 2022-23**

Year	October ADM*
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	161,664
2021-22	166,013
2022-23	168,111

Source: Ohio Department of Education

*includes grades K-12

Ohio Non-Public School Enrollment

Rocky River City School District

Out of 609 school districts, only 79 (or approximately 13%) gained enrollment in grades K - 12 from the 2013-14 to the 2022-23 school year and 2 districts experienced neither gain or loss in enrollment.

Of the 527 school districts who lost enrollment, 56 (or approximately 11%) lost less than 5 percent, and 133 districts (or approximately 25%) lost between 5 and 10 percent. Approximately 45% (or 239 districts) lost between 11 and 20 percent, and approximately 19% (or 99 districts) lost more than 20 percent.

For those districts that gained enrollment, 31 (or approximately 39%) increased by less than 5 percent, and 24 (or approximately 30%) increased between 5 and 10 percent. Fifteen districts (or approximately 19%) increased between 10 and 20%, and 9 districts (or approximately 11%) increased over 20 percent.

Analyzing enrollment from a county perspective, only 5 of the 88 counties in Ohio gained K – 12 enrollment from the 2013-14 to the 2022-23 school year: Delaware, Licking, Fairfield, Union, and Warren.

County	2022-23 K-12 Total	2013-14 K-12 Total	Difference	%
Delaware	34,167	28,918	5,249	18%
Licking	27,442	26,652	790	3%
Fairfield	25,339	24,661	678	3%
Union	7,851	7,720	131	2%
Warren	36,697	36,353	344	1%

Vinton County had the highest percentage loss of students at 24.4 percent. Sixty-five percent of the counties (57 total) experienced a decline of greater than 10 percent. The map on the following page illustrates the gain/loss for each county from the 2013-14 to 2022-23 school year.

From School Years 2013-14 to 2022-23

Percent Change

- 24.4% to -20%
- 19.99% to -15%
- 14.99% to -10%
- 9.99% to -5%
- 4.99% to 0%
- +0.01% to +2.5%
- +2.51% to +5%
- +5.01% to +18.2%

Rocky River City School District

HISTORICAL ENROLLMENT

Over the past ten years, student enrollment in the Rocky River City School District has decreased by 199 students in grades Pre-K – 12, including ungraded students. Total enrollment for the 2023-24 school year is 2,569 students.

The following tables and graph illustrate the District's Pre-K – 12 enrollment history from 2014-15 through 2023-24.

**Rocky River City School District
Historical Enrollment**

Grade	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Pre-K	55	41	64	63	67	67	33	82	69	52
K	161	155	134	157	176	186	140	173	176	192
1	197	184	166	164	183	194	193	184	190	183
2	200	202	185	163	173	195	186	201	184	191
3	212	201	202	194	169	174	183	196	203	181
4	218	214	201	208	202	171	172	195	201	205
5	216	220	218	205	205	206	171	173	193	202
6	213	227	237	224	217	214	206	182	178	196
7	209	216	223	236	212	221	211	212	182	178
8	232	214	213	228	239	217	221	205	215	173
9	214	219	205	222	221	225	210	219	197	196
10	216	214	220	199	223	230	227	210	224	195
11	212	217	207	225	200	221	221	225	213	219
12	211	215	217	212	226	199	219	218	221	206
Pre-K - 12 Total	2,766	2,739	2,692	2,700	2,713	2,720	2,593	2,675	2,646	2,569
Ungraded	2	1	0	0	0	0	0	0	0	0
Grand Total	2,768	2,740	2,692	2,700	2,713	2,720	2,593	2,675	2,646	2,569

Source: Ohio Department of Education, EMIS; Rocky River City School District

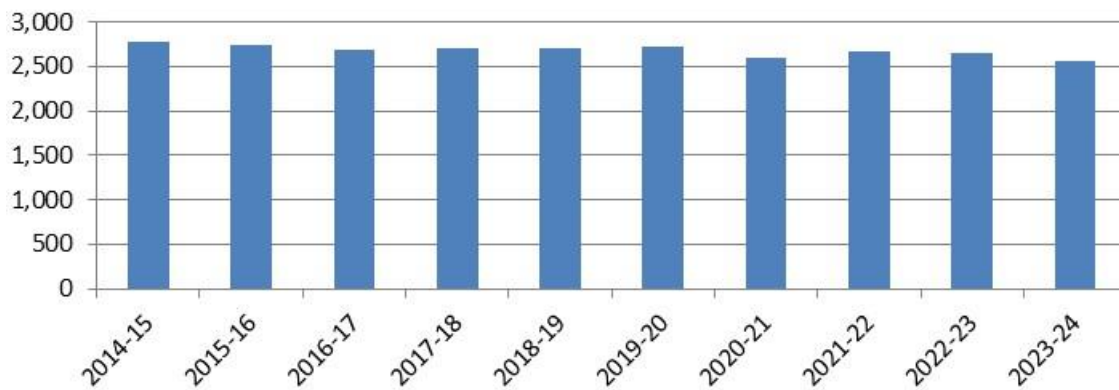
**Rocky River City School District
Historical Enrollment by Grade Group**

Grade	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
Pre-K	55	41	64	63	67	67	33	82	69	52
K - 2	558	541	485	484	532	575	519	558	550	566
3 - 5	646	635	621	607	576	551	526	564	597	588
6 - 8	654	657	673	688	668	652	638	599	575	547
9 - 12	853	865	849	858	870	875	877	872	855	816
Pre-K - 12 Total	2,766	2,739	2,692	2,700	2,713	2,720	2,593	2,675	2,646	2,569
Ungraded	2	1	0	0	0	0	0	0	0	0
Grand Total	2,768	2,740	2,692	2,700	2,713	2,720	2,593	2,675	2,646	2,569

Source: Ohio Department of Education, EMIS; Rocky River City School District

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**Rocky River City School District
Historical Enrollment**



Rocky River 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 only. Information about events occurring to Ohio residents outside of Ohio is included. Information about events occurring to non-Ohio residents inside Ohio 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.

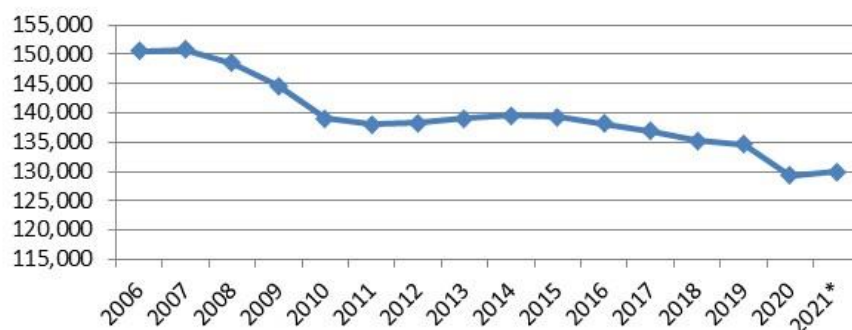
The number of live births is recorded by:

- ▶ 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. In 2021, there was a slight uptick of less than 0.5 percent.

Ohio Birth Counts



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The following table and graph include the live birth counts for zip codes 44107, 44116, and 44126. However, upon analysis of the map on page 13, only zip code 44116 was used for projection purposes.

Rocky River City School District

Live Birth Count by Zip Code

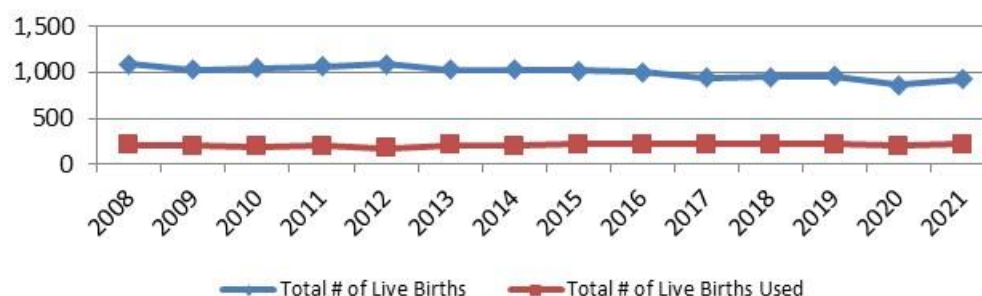
2008-2021

Year	44107	44116	44126	Total # of Live Births	Total # of Live Births Used
2008	653	210	225	1,088	210
2009	647	196	186	1,029	196
2010	691	189	169	1,049	189
2011	656	199	204	1,059	199
2012	705	172	208	1,085	172
2013	612	210	202	1,024	210
2014	622	203	200	1,025	203
2015	592	221	202	1,015	221
2016	582	215	202	999	215
2017	528	220	192	940	220
2018	535	221	194	950	221
2019	510	216	228	954	216
2020	484	198	177	859	198
2021	515	219	186	920	219

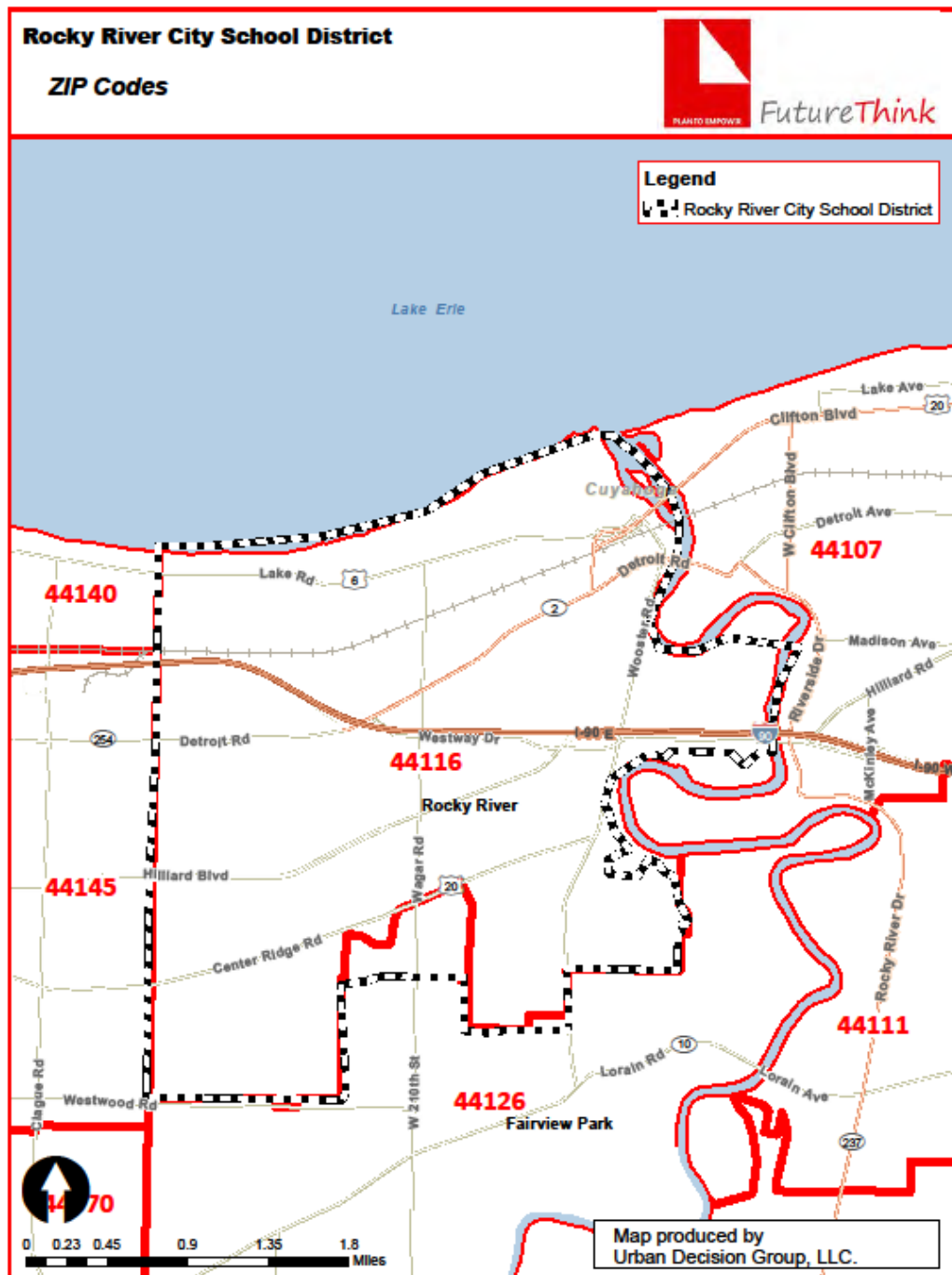
Source: Ohio Department of Health, Public Health Data Warehouse

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Live Birth Count by Zip Code



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DEMOGRAPHICS

The Rocky River City School District is comprised of Rocky River 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	\$36,321	\$34,526
Median Household Income	\$55,109	\$61,938
Persons Below Poverty	16.7%	13.4%

Source: US Census, American Community Survey, 2011 5-Year Estimates

Total Population

	2010 Census	2020 Census
Cuyahoga County	1,280,122	1,264,817
Rocky River	20,213	21,755

Source: 2010 Census: DEC Summary File 2; 2020 Decennial Census

Also included are block group estimates and projections provided by ESRI (a global market leader in GIS software, location intelligence, and mapping). 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

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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.

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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.

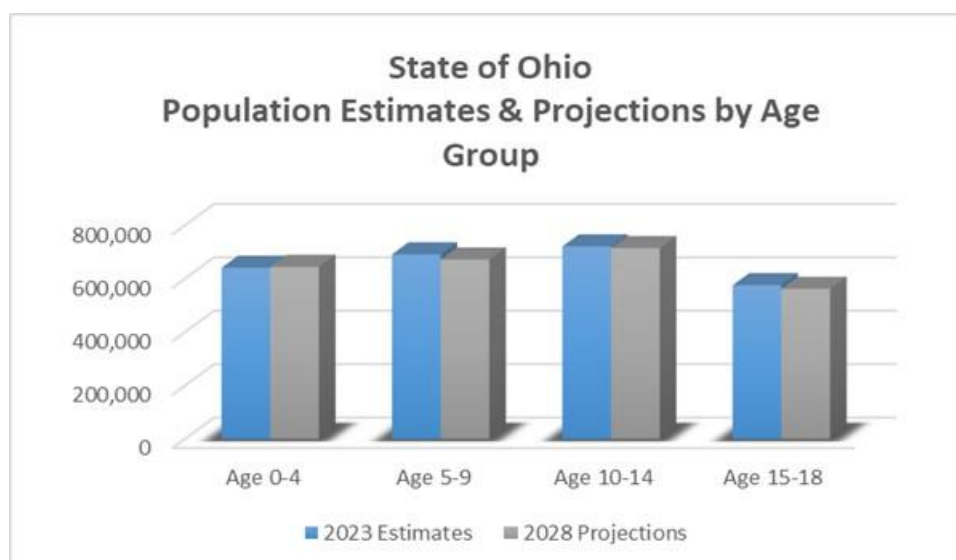
The total population in the State of Ohio is 11,849,266. This population is projected to increase by 1,100 people, or less than 1% over a 5-year period.

The 0-18-year-old population in the State currently totals 2,627,143. This population is projected to decrease by 35,928 children, or approximately 1 percent.

The median age is projected to increase by 2% from 40.8 to 41.6 years of age.

State of Ohio	2023 Estimates	2028 Projections	Change 2023-28	Change 2023-28 (%)
Total Population	11,849,266	11,850,366	1,100	0.0%
Age 0-4	640,713	644,200	3,487	0.5%
Age 5-9	690,743	671,437	-19,306	-2.8%
Age 10-14	720,168	713,978	-6,190	-0.9%
Age 15-18	575,519	561,600	-13,919	-2.4%
Total Age 0-18	2,627,143	2,591,215	-35,928	-1.4%
Median Age	40.8	41.6	0.8	2.0%

Source: ESRI

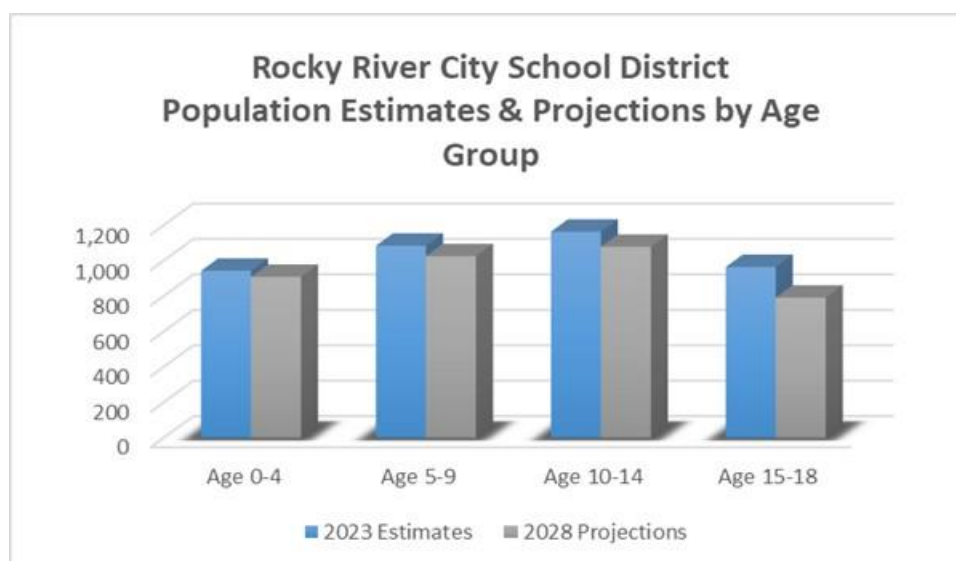


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The total population in the District is 21,840. This population is projected to decrease by 552 people, or 2.5% over a 5-year period. The 0-18-year-old population in the District currently totals 4,157. This population is projected to decrease by 351 people, or approximately 8 percent. The median age is projected to increase by approximately 2%, from 48.6 to 49.7 years of age.

Rocky River City School District	2023 Estimates	2028 Projections	Change 2023-28	Change 2023-28 (%)
Total Population	21,840	21,288	-552	-2.5%
Age 0-4	943	909	-34	-3.6%
Age 5-9	1,085	1,026	-59	-5.4%
Age 10-14	1,164	1,079	-85	-7.3%
Age 15-18	965	792	-173	-17.9%
Total Age 0-18	4,157	3,806	-351	-8.4%
Median Age	48.6	49.7	1.1	2.3%

Source: ESRI



Rocky River City School District

Median and average household incomes in the State are projected to increase by approximately 16% and 14%, respectively over a 5-year period. The average family size is projected to decrease by 1%, and the total number of family households is projected to increase by less than 1 percent.

State of Ohio	2023 Estimates	2028 Projections	Change 2023-28	Change 2023-28 (%)
Median Household Income	\$63,957	\$74,399	\$10,442	16.3%
Average Household Income	\$92,536	\$105,607	\$13,071	14.1%
Average Family Size	3.00	2.97	-0.03	-1.0%
Total Family Households	3,017,264	3,033,665	16,401	0.5%

Source: ESRI

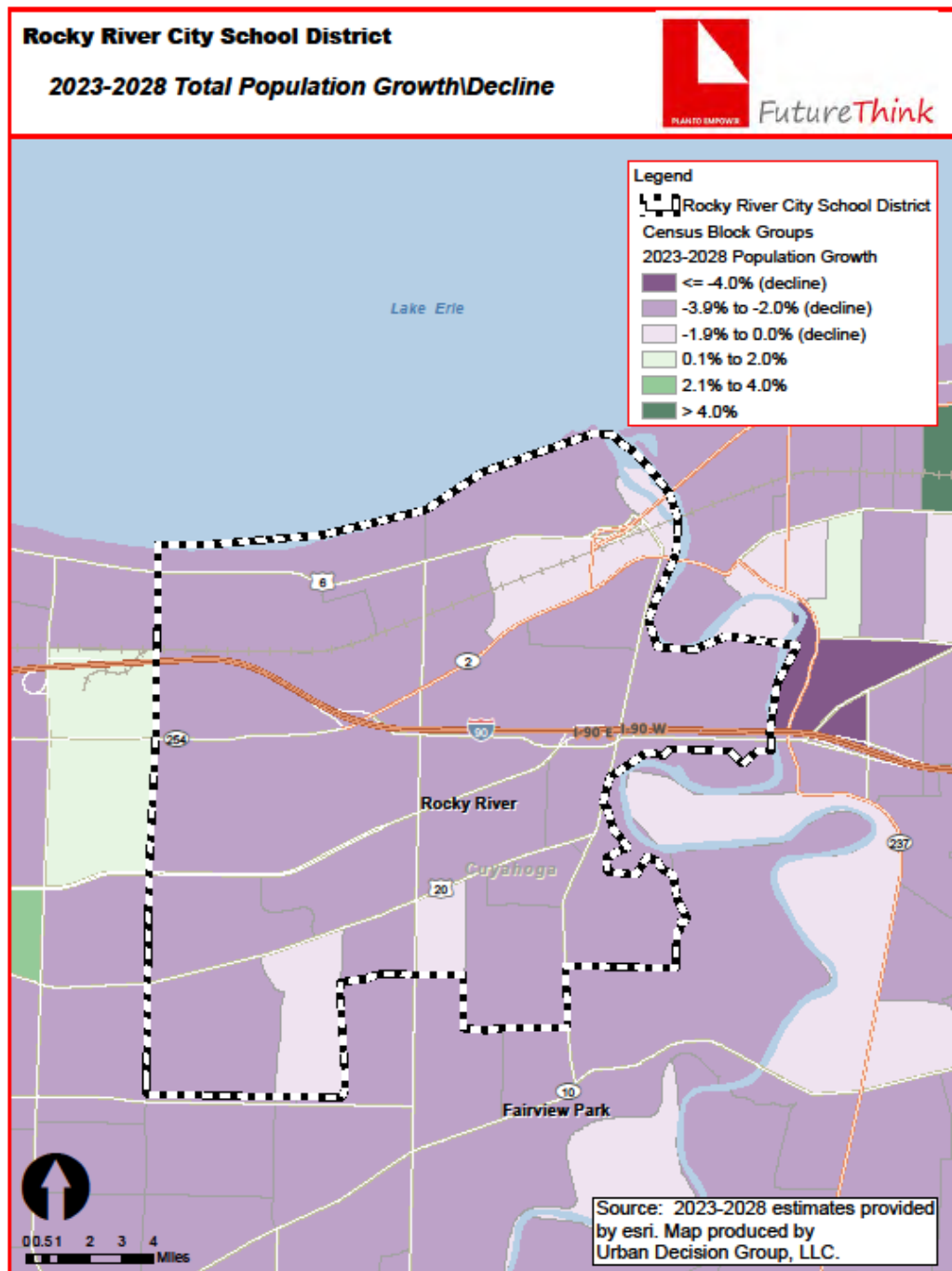
Median and average household incomes in the District are projected to increase by approximately 21% and 15%, respectively over a 5-year period. The average family size is projected to decrease by approximately 1%, and the total number of family households is projected to decrease by approximately 2 percent.

Rocky River City School District	2023 Estimates	2028 Projections	Change 2023-28	Change 2023-28 (%)
Median Household Income	\$84,395	\$102,077	\$17,682	21.0%
Average Household Income	\$138,598	\$158,932	\$20,334	14.7%
Average Family Size	3.07	3.03	-0.04	-1.3%
Total Family Households	5,237	5,144	-93	-1.8%

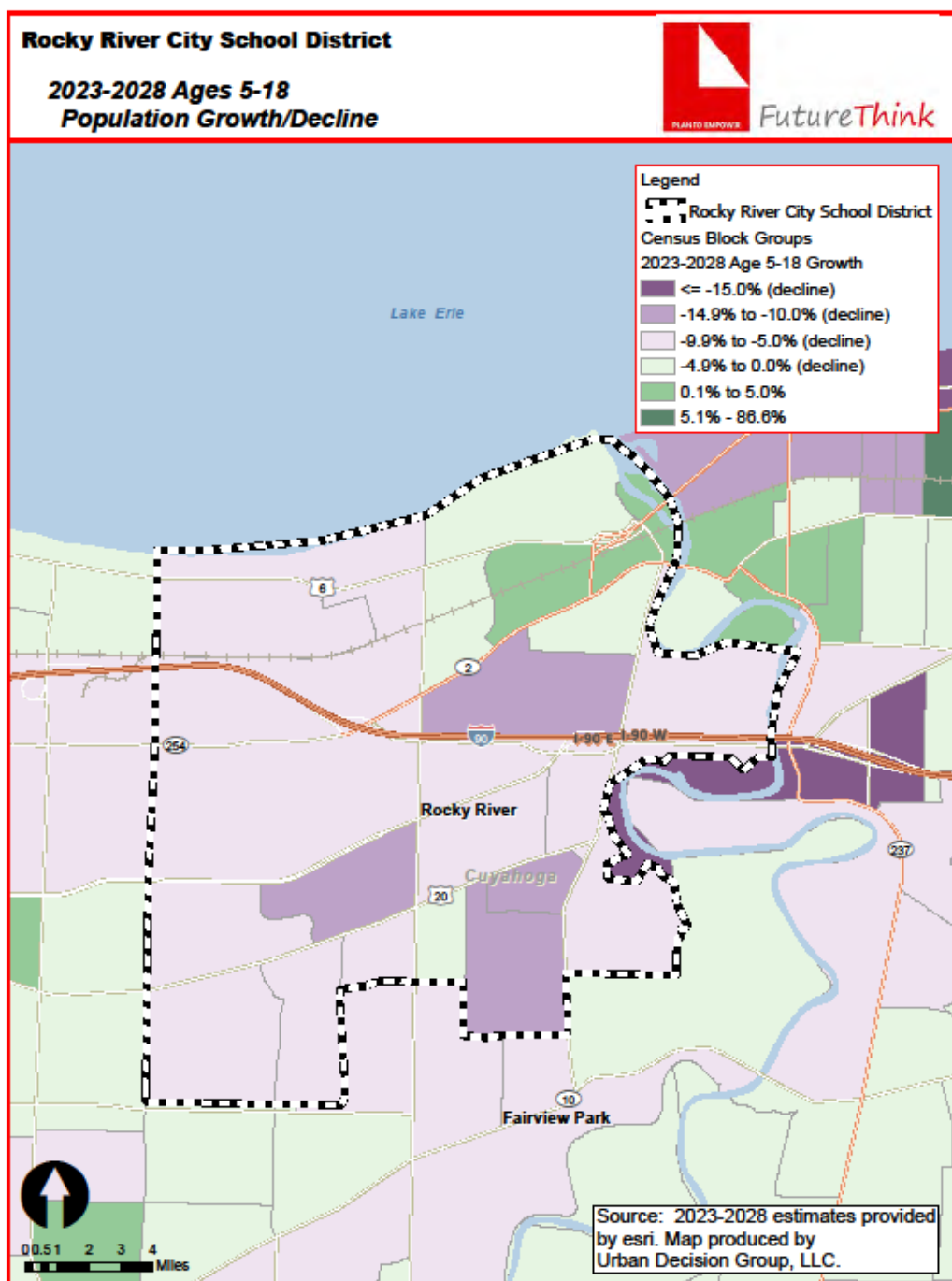
Source: ESRI

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.

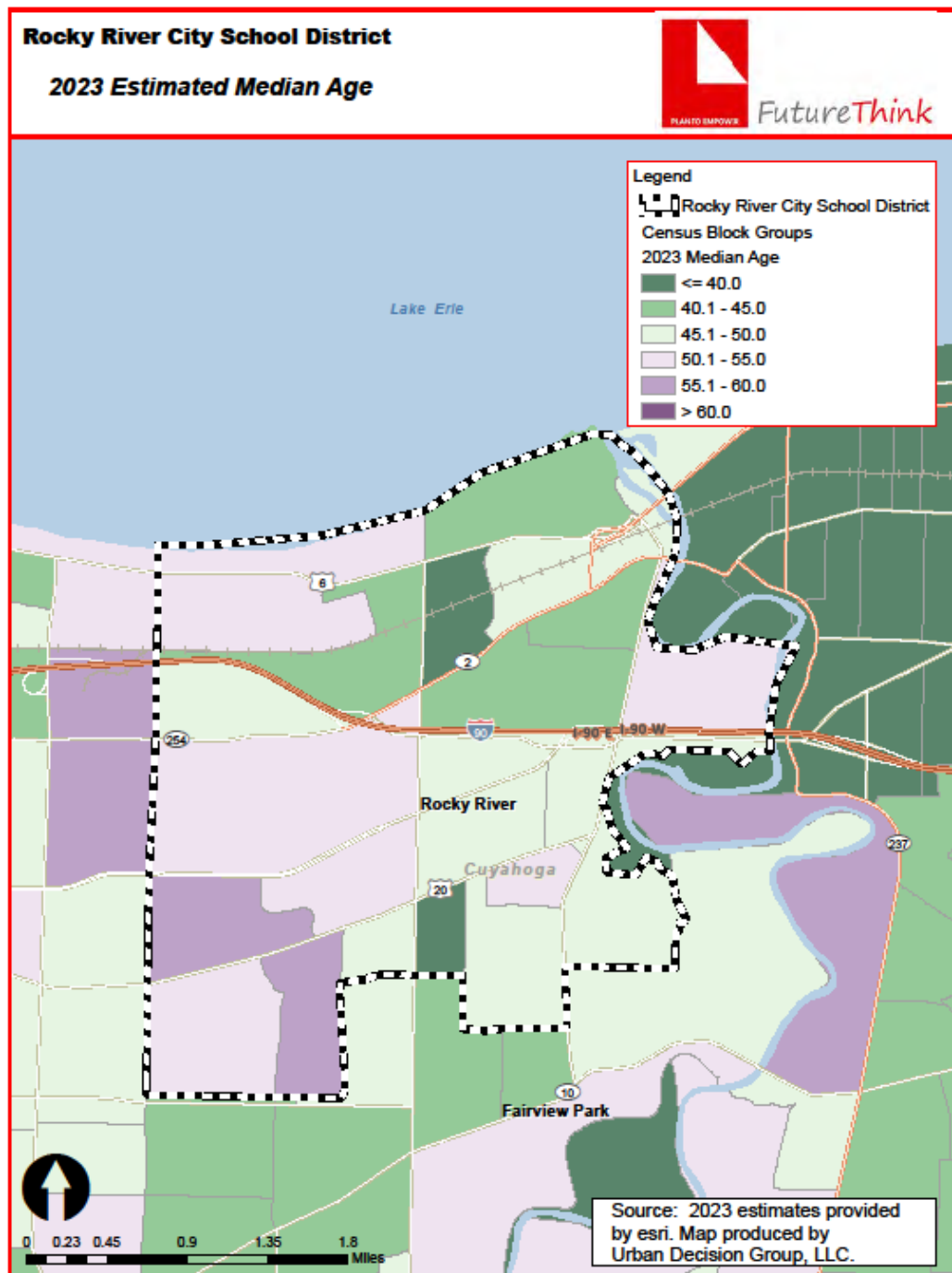
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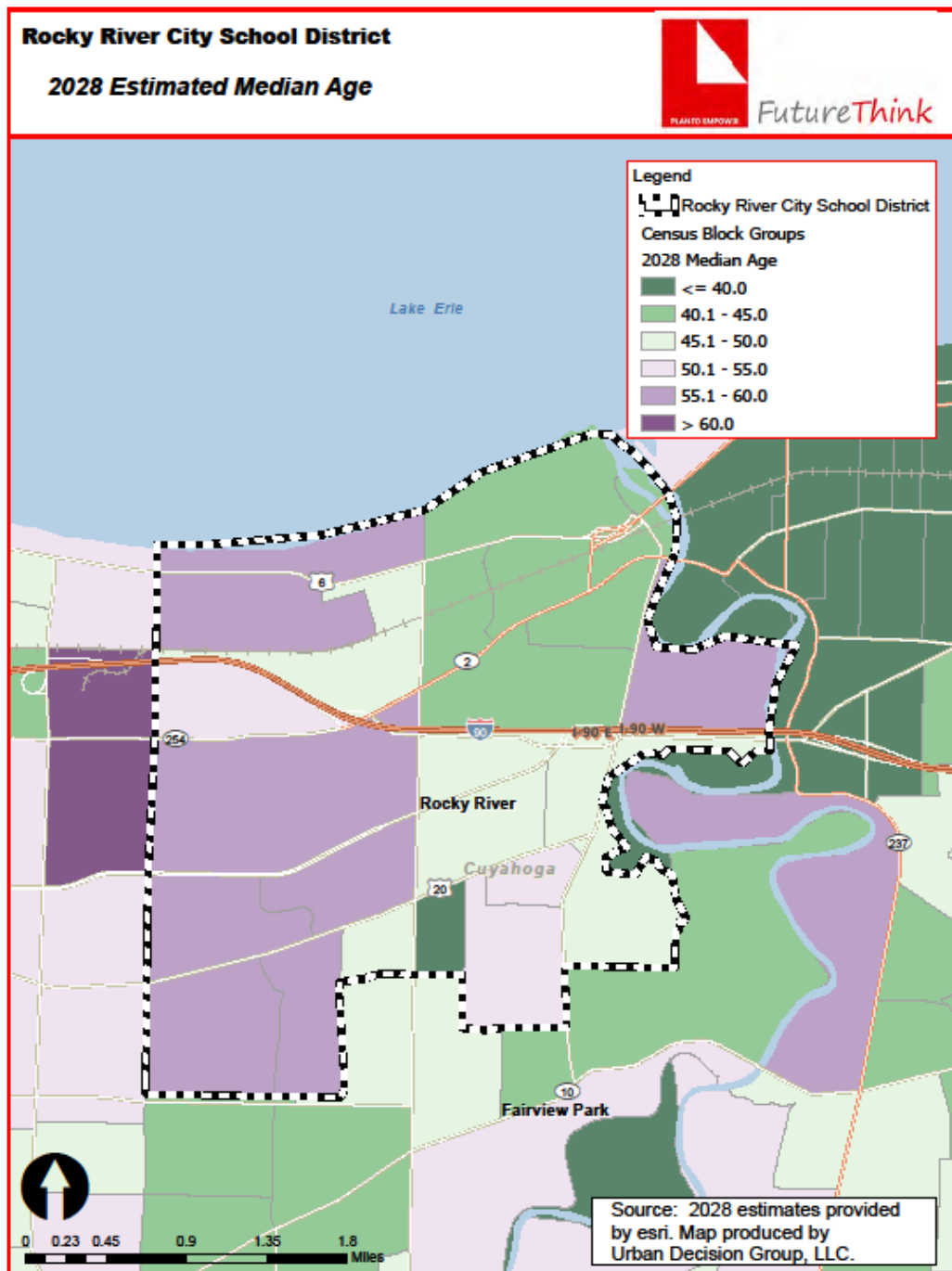
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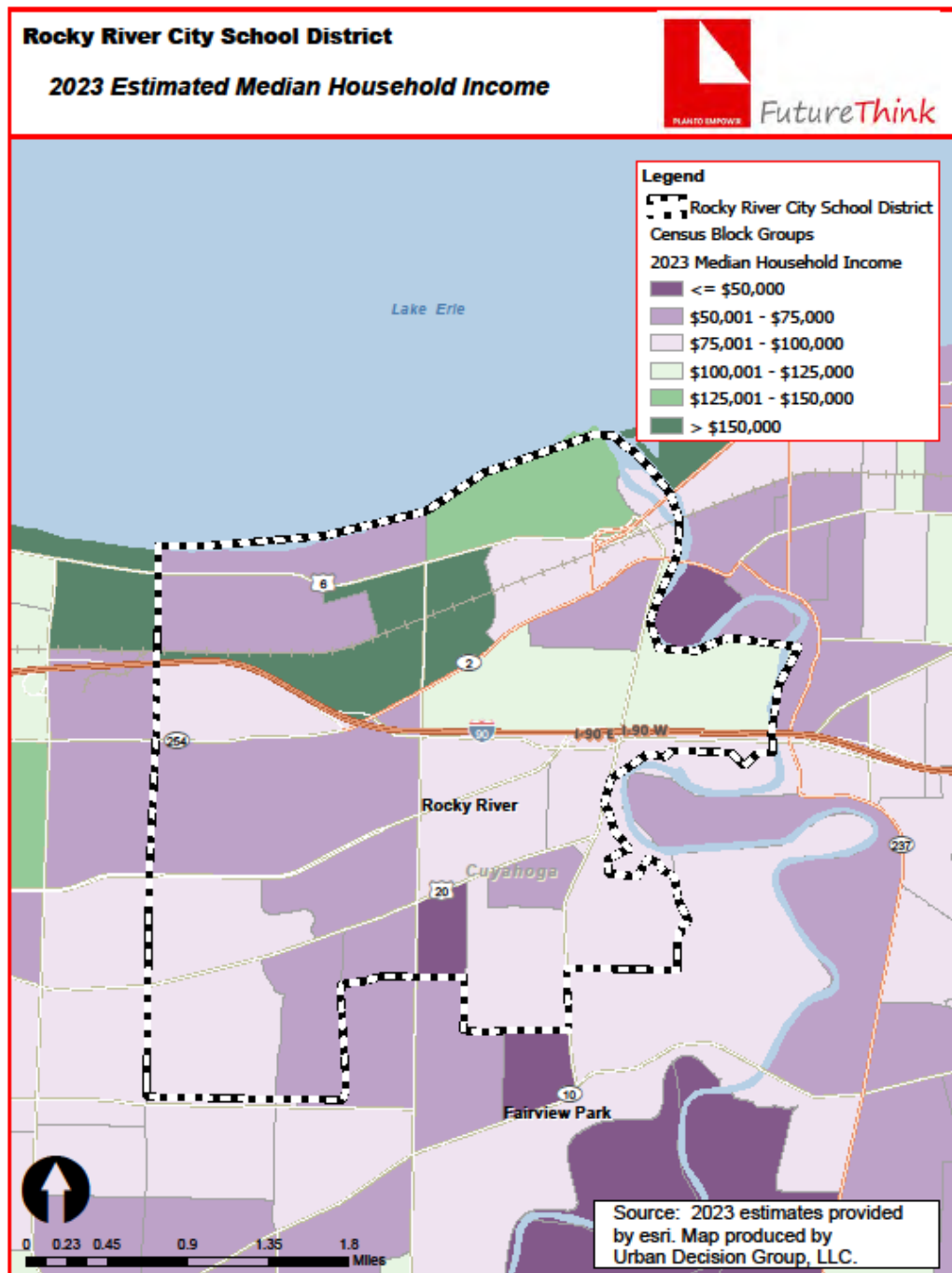
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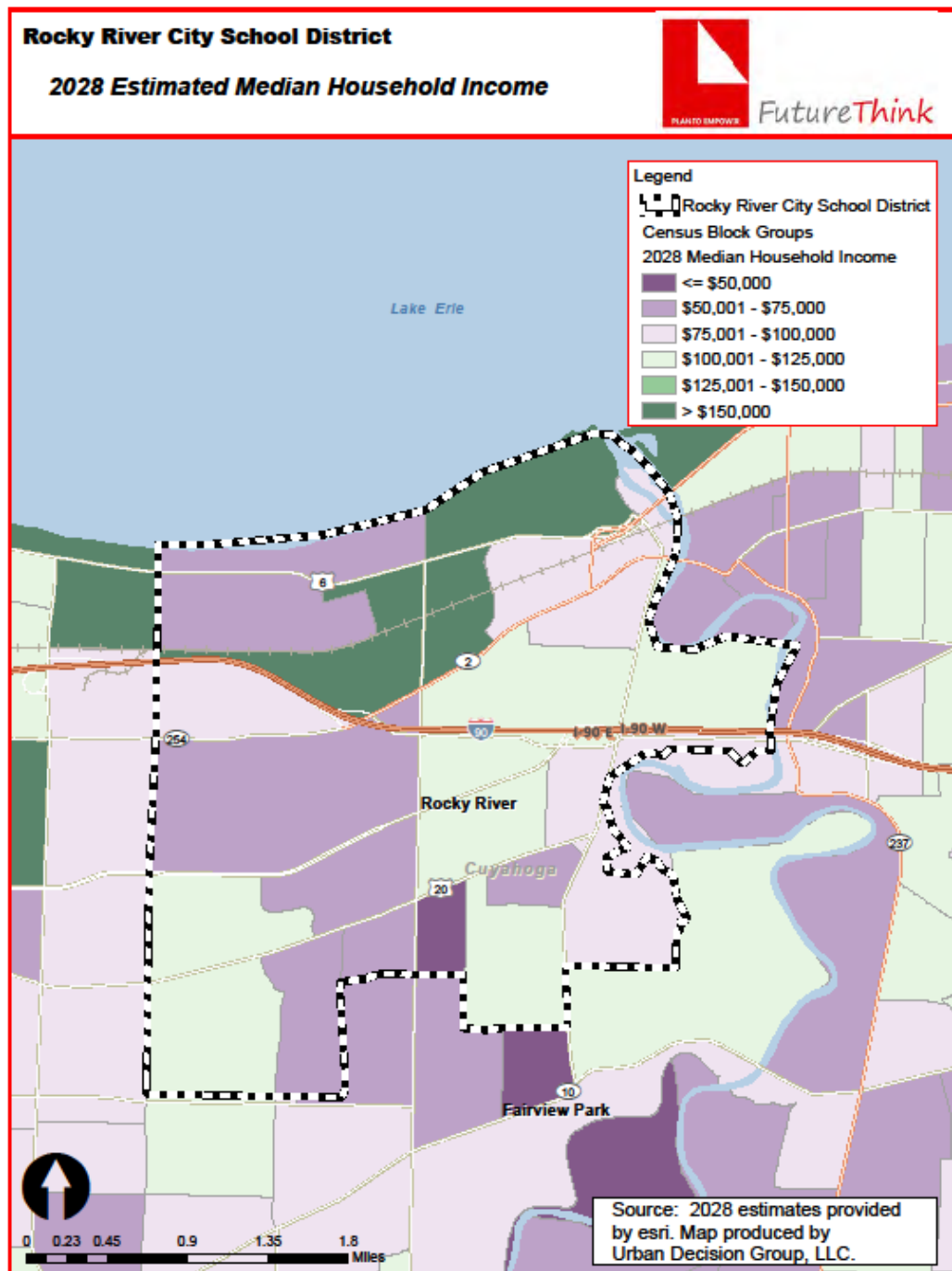
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Rocky River City School District



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Rocky River City School District

HOUSING INFORMATION

The table below illustrates the number of single-family dwelling building permits issued each year in Rocky River and Cuyahoga County.

of Building Permits Issued for Single Family Dwellings

Year	Rocky River	Cuyahoga County
2013	21	678
2014	17	592
2015	12	702
2016	3	719
2017	13	728
2018	9	644
2019	7	570
2020	4	619
2021	10	752
2022	8	639
2023*	2	294

Source: SOCDS Building Permits Database

*preliminary through July 2023



Rocky River 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.

The following table illustrates the survival ratios for the Rocky River 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
2014	2015	82.0%	114.3%	102.5%	100.5%	100.9%	100.9%	105.1%	101.4%	102.4%	94.4%	100.0%	100.5%	101.4%
2015	2016	67.3%	107.1%	100.5%	100.0%	100.0%	101.9%	107.7%	98.2%	98.6%	95.8%	100.5%	96.7%	100.0%
2016	2017	91.3%	122.4%	98.2%	104.9%	103.0%	102.0%	102.8%	99.6%	102.2%	104.2%	97.1%	102.3%	102.4%
2017	2018	83.8%	116.6%	105.5%	103.7%	104.1%	98.6%	105.9%	94.6%	101.3%	96.9%	100.5%	100.5%	100.4%
2018	2019	91.6%	110.2%	106.6%	100.6%	101.2%	102.0%	104.4%	101.8%	102.4%	94.1%	104.1%	99.1%	99.5%
2019	2020	63.3%	103.8%	95.9%	93.8%	98.9%	100.0%	100.0%	98.6%	100.0%	96.8%	100.9%	96.1%	99.1%
2020	2021	80.5%	131.4%	104.1%	105.4%	106.6%	100.6%	106.4%	102.9%	97.2%	99.1%	100.0%	99.1%	98.6%
2021	2022	80.0%	109.8%	100.0%	101.0%	102.6%	99.0%	102.9%	100.0%	101.4%	96.1%	102.3%	101.4%	98.2%
2022	2023	86.9%	104.0%	100.5%	98.4%	101.0%	100.5%	101.6%	100.0%	95.1%	91.2%	99.0%	97.8%	96.7%
	average	80.75%	113.284%	101.54%	100.9%	102.02%	100.6%	104.1%	99.7%	100.1%	96.513%	100.468%	99.275%	99.605%
	standard deviation	9.196%	8.568%	3.270%	3.346%	2.192%	1.189%	2.341%	2.284%	2.458%	3.429%	1.845%	1.986%	1.616%

Rocky River City School District

ENROLLMENT PROJECTION

Enrollment projections were developed after analyzing the data collected in this report. The projections indicate a decrease of 19 students in grades Pre-K - 12 from the 2023-24 to the 2033-34 school year. The following tables and graph illustrate projected enrollments by grade and by grade group through the 2033-34 school year.

Rocky River City School District
Projected Enrollment

Grade	2023-24 Actual	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
Pre-K	52	68	63	69	68	67	68	68	69	70	70
K	192	178	164	181	178	176	178	179	181	183	184
1	183	205	191	175	193	190	188	190	192	193	195
2	191	184	206	191	176	194	191	189	191	192	194
3	181	191	183	206	191	175	194	190	189	190	192
4	205	184	194	186	209	194	178	197	193	192	193
5	202	204	183	193	186	208	194	178	196	193	191
6	196	206	209	187	197	190	213	198	181	201	197
7	178	196	206	209	187	197	190	213	198	181	201
8	173	177	195	206	208	187	197	189	212	197	181
9	196	164	168	185	195	197	177	186	179	201	187
10	195	197	164	168	185	195	198	177	187	180	202
11	219	194	196	163	167	184	194	196	176	186	179
12	206	218	192	194	162	166	183	193	195	175	184
Pre-K - 12 Total	2,569	2,566	2,514	2,513	2,502	2,520	2,543	2,543	2,539	2,534	2,550

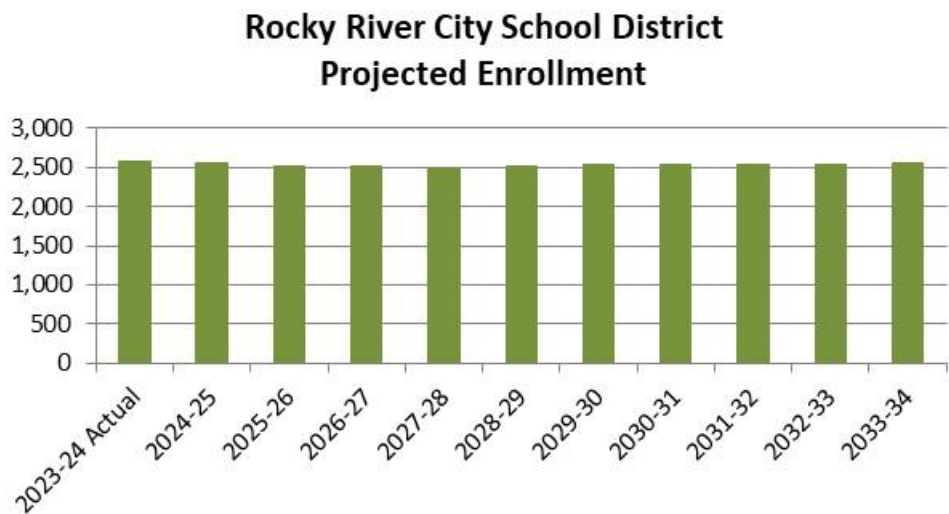
Source: FutureThink

Rocky River City School District
Projected Enrollment by Grade Group

Grade	2023-24 Actual	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34
Pre-K	52	68	63	69	68	67	68	68	69	70	70
K - 2	566	567	561	547	547	560	557	558	564	568	573
3 - 5	588	579	560	585	586	577	566	565	578	575	576
6 - 8	547	579	610	602	592	574	600	600	591	579	579
9 - 12	816	773	720	710	709	742	752	752	737	742	752
Pre-K - 12 Total	2,569	2,566	2,514	2,513	2,502	2,520	2,543	2,543	2,539	2,534	2,550

Source: FutureThink

Rocky River City School District



Rocky River City School District

CONCLUSION

As with any projection, the District should pay close attention to live birth counts, enrollment in elementary schools, 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 Rocky River City School District.

