



Shaler Area School District

September 11, 2024



MGT

Work accomplished by Davis Demographics for Shaler Area School District

1

Spatial and tabular data setup for District

2

Researched active, proposed, and future residential development projects.

3

Analyzed current and future demographic dynamics of the district and attendance areas.

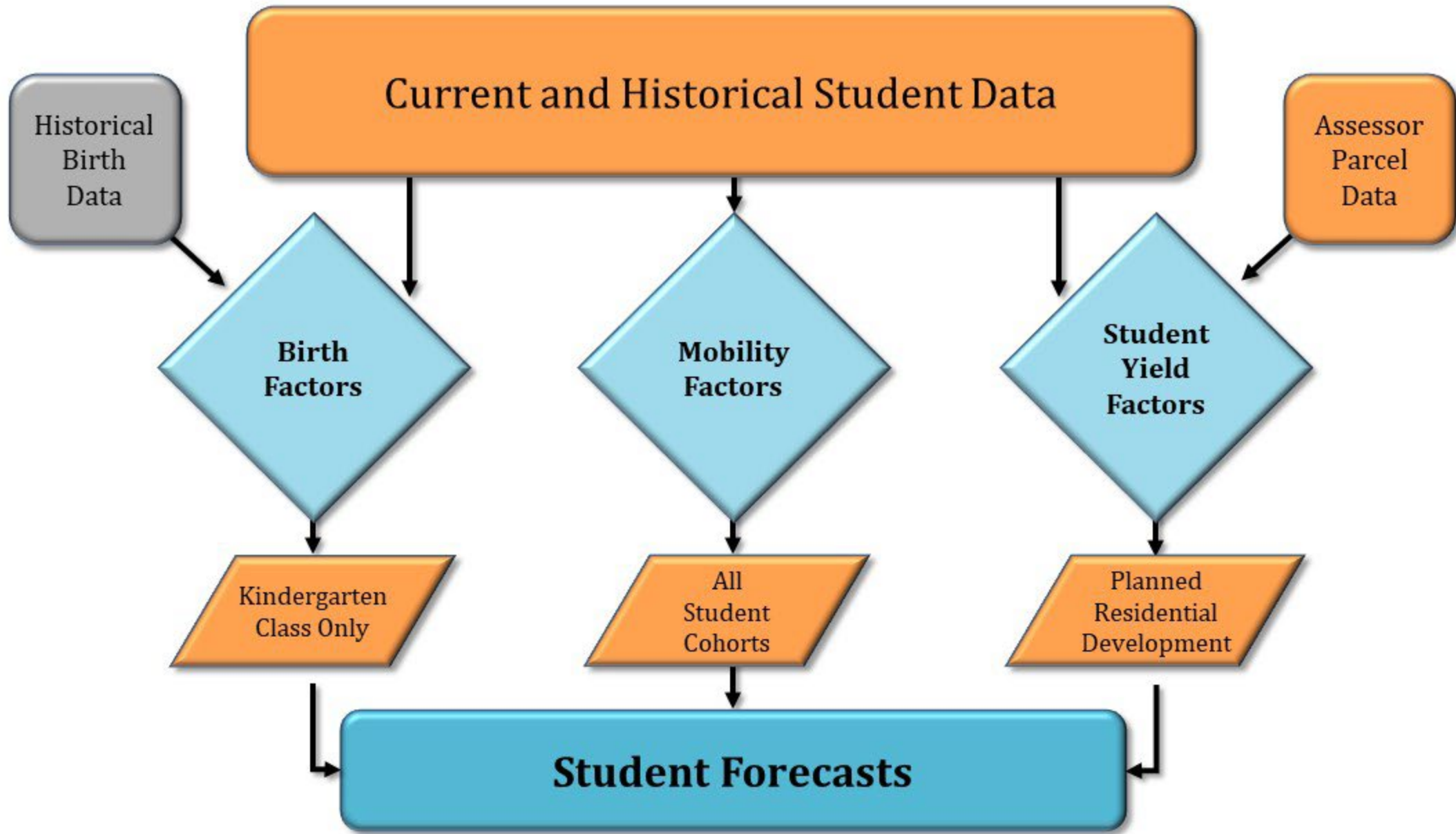
4

Developed population forecasts by grade and attendance area for the next 5 years & Created draft MS scenarios

Data Sets
for
Analysis

Created
Forecast
Factors

Factors
Applied
to Data



Student Data Verification

- ✓ Data set provided from district
- ✓ Review data for any errors
- ✓ Provide Student Data Verification Form for district review.

Data Verification Student Data - SY 2023-2024

File Name: 2023_2024_Students
Total Student Records: 3809
Valid Address Fields: 3809
*Invalid - Empty - PO Box: 0

Data Verification Reporting Dates and Acknowledgement

Please provide us the Annual Fall Reporting Date for each year
(Should match student data export/snapshot date)

Fall 2020	Fall 2021	Fall 2022	Fall 2023
10/31/20	10/31/21	10/31/22	10/31/23

IMPORTANT! PLEASE READ CAREFULLY, SIGN, AND RETURN

By signing below, the district acknowledges the following statements:

1. Data described in this document accurately reflects the district's school and student information.
2. Enrollment for each student file coincides with the district's annual fall reporting date. (Filled in by district above)
3. The fields included with the student files, as listed on each data page, are the only fields necessary to identify any students the district deems important for all anticipated types of boundary planning and analysis.
4. The attendance boundaries provided are accurate.
5. If the district has Student Yield Factors, they will provide them to Davis Demographics - MGT.
6. If the district has information pertaining to residential development, or a contact person, they will provide them to Davis Demographics - MGT.
7. Any modifications to data after this point could result in timeline extensions and fees.
8. Project timelines do not begin until we receive this document back verified and signed.

Bryan O'Brien

Printed Name

Bryan O'Brien

Signature

Deputy Superintendent

Title

5/10/24

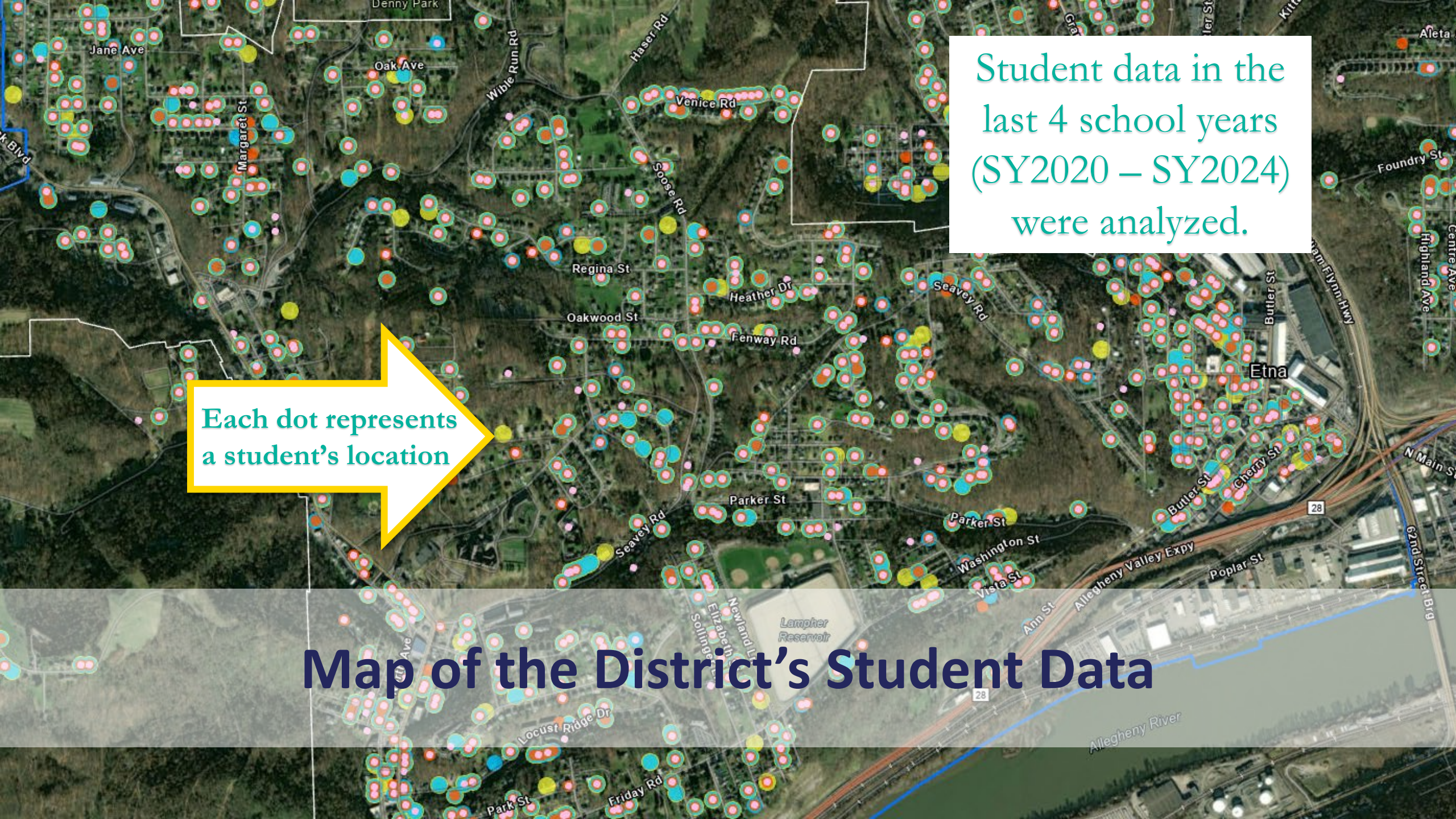
Date

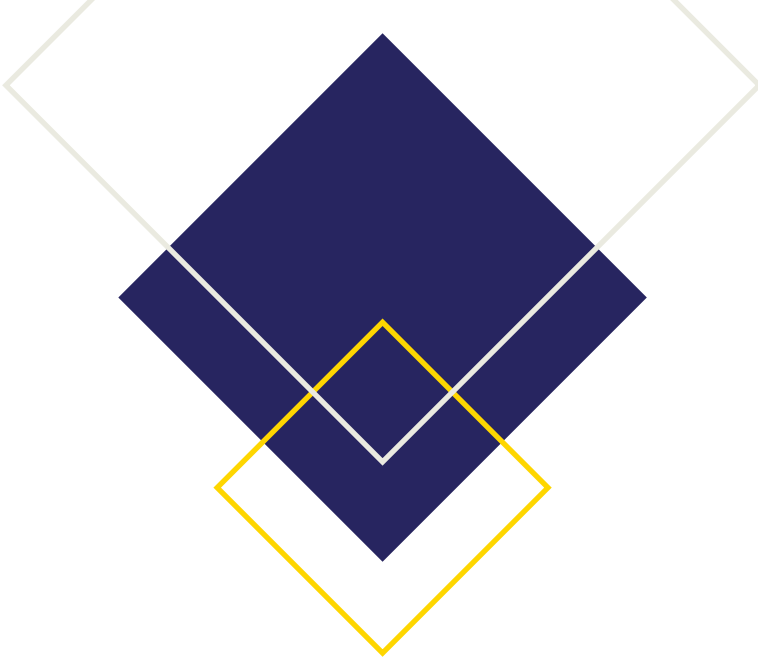
We require this form returned signed prior to moving forward with the project. Time is of the essence, but accuracy is more important. Please contact us with any questions ASAP. Thank you!

Student data in the last 4 school years (SY2020 – SY2024) were analyzed.

Each dot represents a student's location

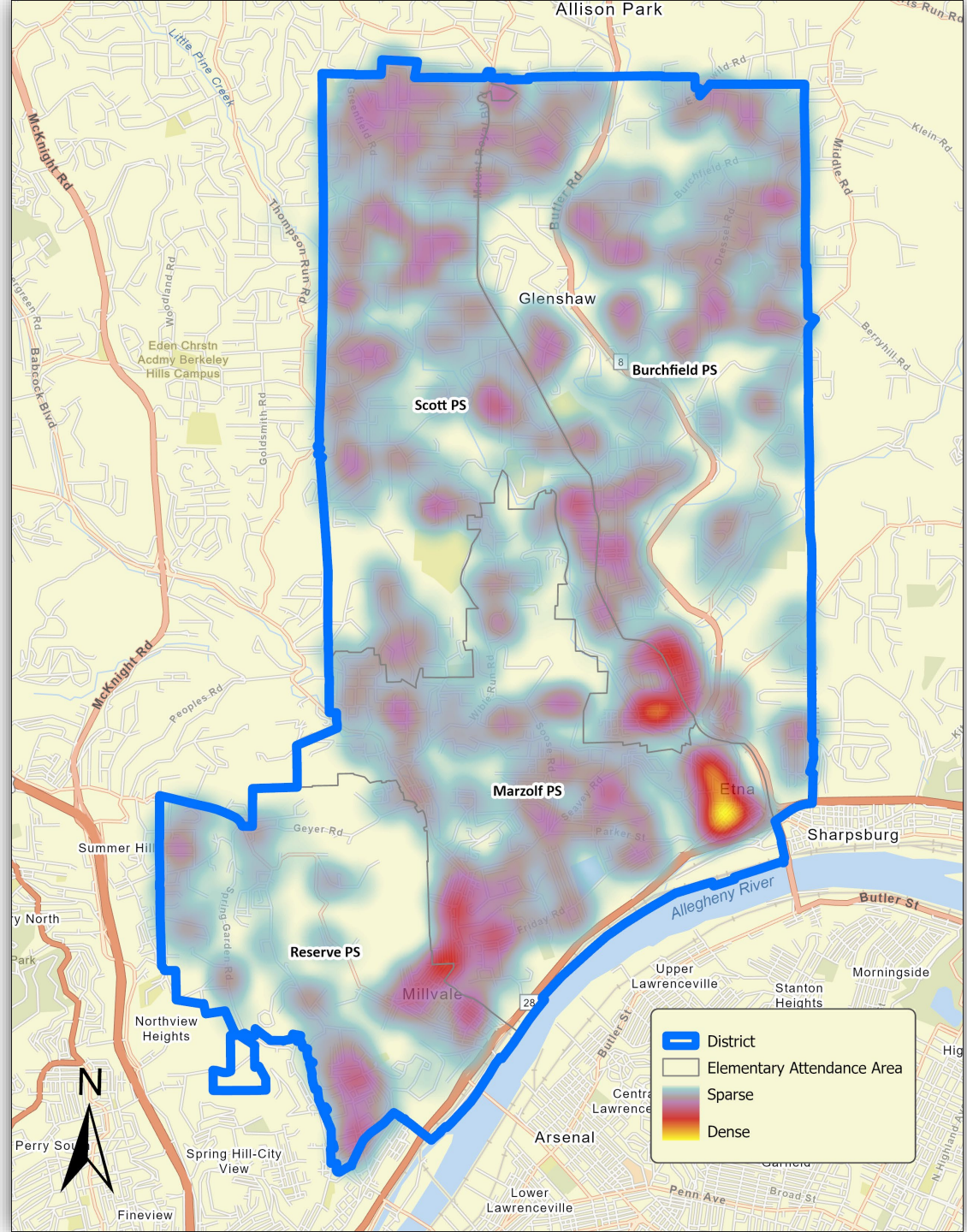
Map of the District's Student Data

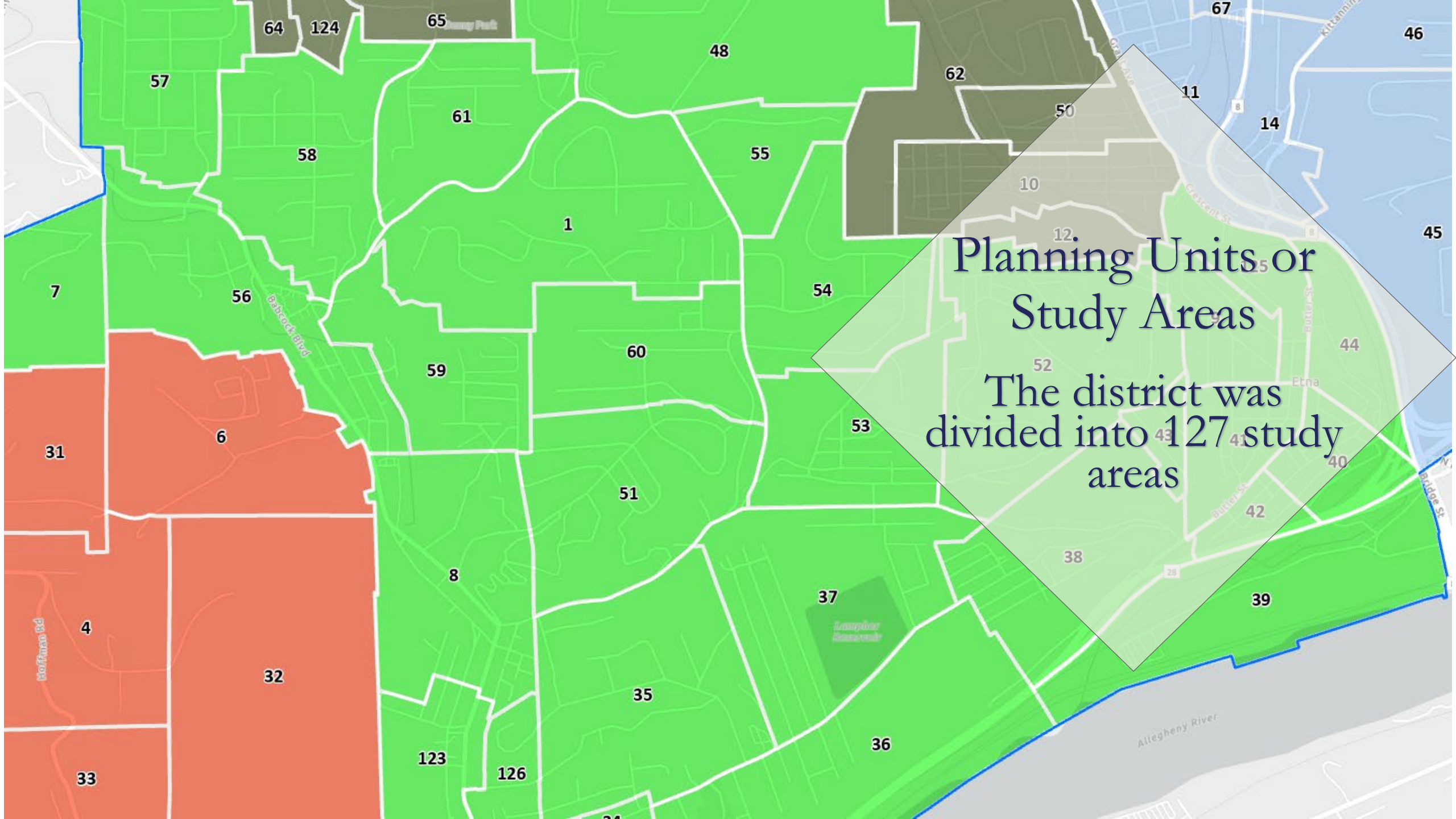




Student Density Fall 2023

Yellow areas indicate a higher concentration of student population, while areas shaded blue have fewer students.





Planning Units or Study Areas

The district was divided into 127 study areas

Attendance Matrix

Attendance Matrices detail where students live compared to where they are enrolled.

Date of Student Data: 10/31/2023			School of Enrollment							
Attendance Area	Grade Range	Count of Students Living within Boundary	Burchfield PS	Marzolf PS	Reserve PS	Scott PS	Shaler Area ES	Shaler Area MS	Shaler Area HS	
			School of Residence	Burchfield PS	0-3	352	316	11	0	25
Marzolf PS	0-3	301		10	269	2	20	0	0	0
Reserve PS	0-3	118		0	7	108	3	0	0	0
Scott PS	0-3	366		9	19	0	335	0	0	0
Shaler Area ES	4-6	874		0	0	0	0	867	0	0
Shaler Area MS	7-8	590		0	0	0	0	0	584	0
Shaler Area HS	9-12	1,194		0	0	0	0	0	0	1,170
Total Resident		3,795		335	306	110	383	867	584	1,170
Non-Resident Students		14	1		3		5	1	4	
Total Enrollment		3,809	336	306	113	383	872	585	1,174	

Utilization & Transfer Analysis

Attendance Area	Grade Range	School Capacity	Residence		Enrollment		Resident Student Transfers			Inter-District Transfers	Total Open Enrollment Rate
			Students	Utilization	Students	Utilization	In	Out	Out Rate	In	
Burchfield PS	0-3	500	352	70%	336	67.2%	19	36	10.2%	1	6.0%
Marzolf PS	0-3	450	301	67%	306	68.0%	37	32	10.6%	0	12.1%
Reserve PS	0-3	275	118	43%	113	41.1%	2	10	8.5%	3	4.4%
Scott PS	0-3	575	366	64%	383	66.6%	48	31	8.5%	0	12.5%
Shaler Area ES	4-6	1,125	874	78%	872	77.5%	0	7	1%	5	0.6%
Shaler Area MS	7-8	1,144	590	52%	585	51.1%	0	6	1%	1	0.2%
Shaler Area HS	9-12	1,716	1,194	70%	1,174	68.4%	0	24	2%	4	0.3%

Birth Factors

Births by (Subdistrict)							Birth Rate				
Birth Year	Kinder Year	Etna Borough	Millville Borough	Reserve Borough	Shaler Township	Total	% Change*	Rates used in forecast	School Year	Resident Kinder Cohort	Resident % Capture
2015	2020	42	35	33	279	389	101.3%		2020/21	293	75%
2016	2021	53	26	35	298	412	107.3%		2021/22	304	74%
2017	2022	34	43	36	257	370	96.4%	2022/23	303	82%	
2018	2023	36	39	34	275	384	Base Year		2023/24	286	74%
2019	2024	33	21	30	298	382	99.5%	0.995	2024/25	285	75%
2020	2025	38	25	37	229	329	85.7%	0.857	2025/26	245	74%
2021	2026	36	27	32	291	386	100.5%	1.005	2026/27	287	74%
2022	2027	39	17	40	313	409	106.5%	1.065	2027/28	305	74%
2023	2028	Birth data was not available at time of study.					97.6%	0.976	2028/29		
2024	2029						101.5%	1.015	2029/30		
2025	2030						101.9%	1.019	2030/31		
2026	2031						100.3%	1.003	2031/32		
2027	2032						101.2%	1.012	2032/33		
2028	2033						101.1%	1.011	2033/34		

Mobility Factors

- ❖ Determined from 4 years of historical mapped student data.
- ❖ Tracks the percentage gain or loss for each grade level as students progress through the grades.
- ❖ Factors are applied at the primary attendance area
- ❖ Addresses move-ins/outs, private school movement, attrition at upper grades

How is Mobility Applied?

100	Kindergarten students in SY2022-23
\times 0.99	(Burchfield PS 1st grade mobility)
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= 99	1st grade students in SY2023-24

Attendance Area	K to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12
Burchfield PS	0.99	0.95	0.99	0.97	0.96	0.99	1.02	0.99	1.03	0.94	0.96	0.95
Marzolf PS	0.96	0.96	0.99	1.00	0.98	1.00	1.00	0.98	1.13	0.89	0.99	0.92
Reserve PS	0.98	0.90	1.02	1.02	1.01	0.98	1.03	0.95	1.06	1.01	0.86	0.94
Scott PS	0.94	0.99	0.94	1.00	0.98	0.99	1.00	1.02	1.07	0.94	1.00	1.01



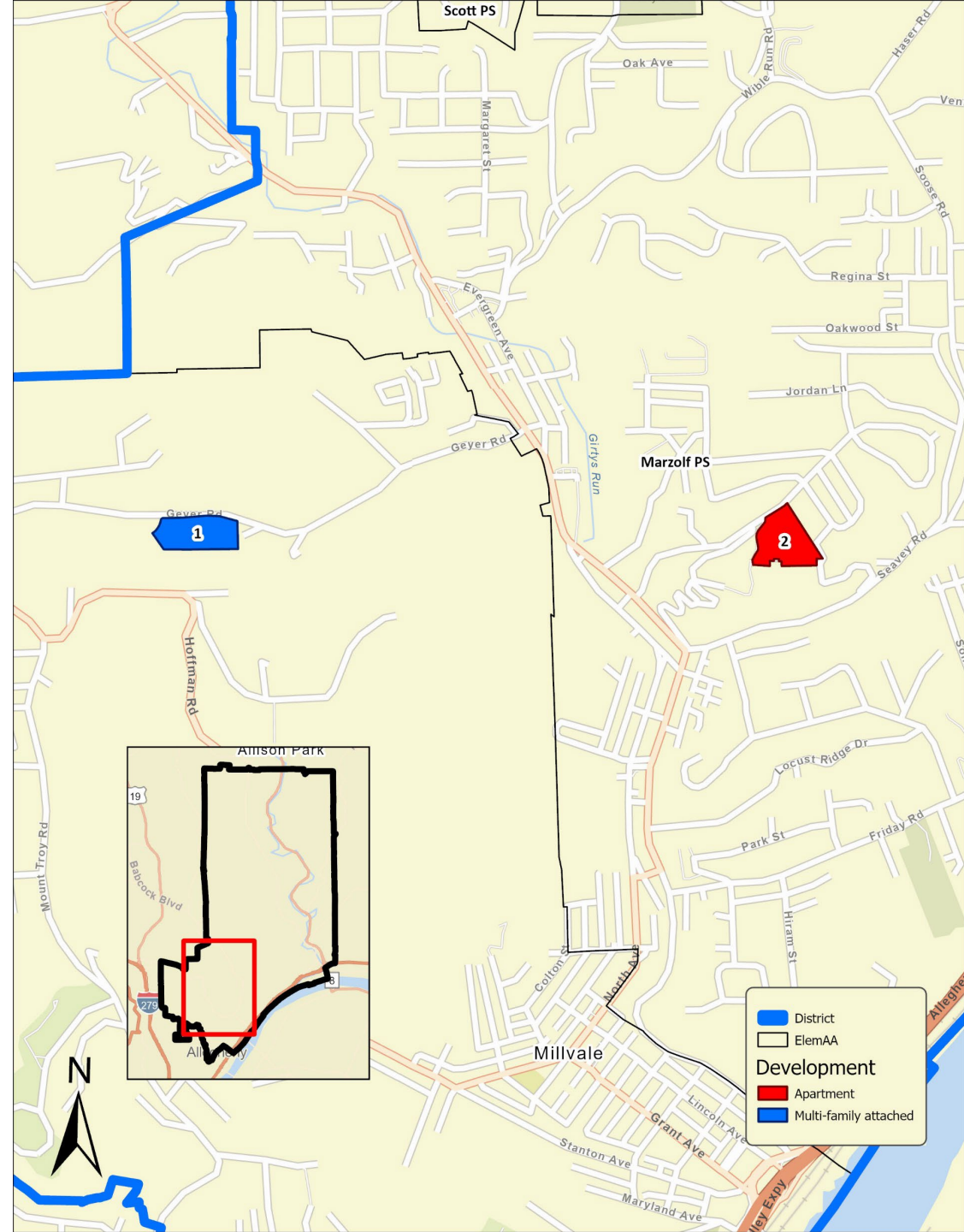
Student Yield Factors

Student Yield Factors (SYF) help determine the forecasted number of students from new residential developments. For single family detached homes, the K-12 MFA is **0.171**, which means Shaler Area SD could expect to gain 17 students for every 100 new single family detached homes.

	APT	MFA
K-12	0.124	0.171

Residential Development Summary

- ❖ 2 projects are currently active or planned
- ❖ 117 units phased over the next 7 years
- ❖ Approx. 20 K-12 students over the next 7 years.



Districtwide 10-Year Resident Student Forecasts

Grade	Resident Students													
	Historic			Current	Forecasted									
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
K	293	304	303	286	300.7	269.4	287.4	304.8	279.4	290.7	291.9	287.4	290.1	289.9
1	313	284	290	300	276.1	290.1	260.1	277.7	294.4	269.9	280.8	282.0	277.7	280.3
2	302	302	281	271	288.0	264.6	278.3	249.5	266.3	282.3	258.9	269.3	270.4	266.3
3	307			280	264.5	281.1	258.8	272.1	244.2	260.6	276.3	253.4	263.5	264.7
4	309	303	291	295	278.0	262.5	279.1	257.2	270.5	242.6	259.0	274.5	251.8	261.9
5	279	304	295	286	288.4	271.6	256.3	273.0	251.6	264.6	237.4	253.3	268.6	246.3
6	288	277	302	293	283.5	285.8	269.3	254.4	270.8	249.6	262.6	235.5	251.3	266.5
7	309	285	286	306	295.9	286.3	288.9	271.9	256.8	273.5	252.2	265.2	238.0	254.0
8	309	314	276	284	302.9	292.8	283.8	286.0	270.1	255.2	271.6	250.1	263.1	236.0
9	305	332	341	290	305.1	325.2	314.7	304.4	306.6	290.3	274.1	291.3	268.4	282.8
10	317	295	305	314	270.5	285.0	303.8	294.3	284.9	287.1	270.7	255.6	272.4	251.1
11	347	308	286	293	302.5	262.1	275.2	293.6	284.1	275.6	276.8	263.2	248.4	264.1
12	295	289	315	297	295.0	305.2	264.4	277.3	296.1	286.5	278.6	279.1	266.3	251.3
Resident Student Totals by Grade Configuration														
K-3	1,215	1,186	1,165	1,137.0	1,129.3	1,105.2	1,084.6	1,104.1	1,084.3	1,103.5	1,107.9	1,092.1	1,101.7	1,101.2
4-6	876	884	888	874.0	849.9	819.9	804.7	784.6	792.9	756.8	759.0	763.3	771.7	774.7
7-8	618	599	562	590.0	598.8	579.1	572.7	557.9	526.9	528.7	523.8	515.3	501.1	490.0
9-12	1,264	1,224	1,247	1,194.0	1,173.1	1,177.5	1,158.1	1,169.6	1,171.7	1,139.5	1,100.2	1,089.2	1,055.5	1,049.3
K-12	3,973	3,893	3,862	3,795	3,751.1	3,681.7	3,620.1	3,616.2	3,575.8	3,528.5	3,490.9	3,459.9	3,430.0	3,415.2

Impact from Mobility

Resident forecasts are based on where the student's home address is within the district.

Forecasts were generated using the Fall 2023 census student data as a base.



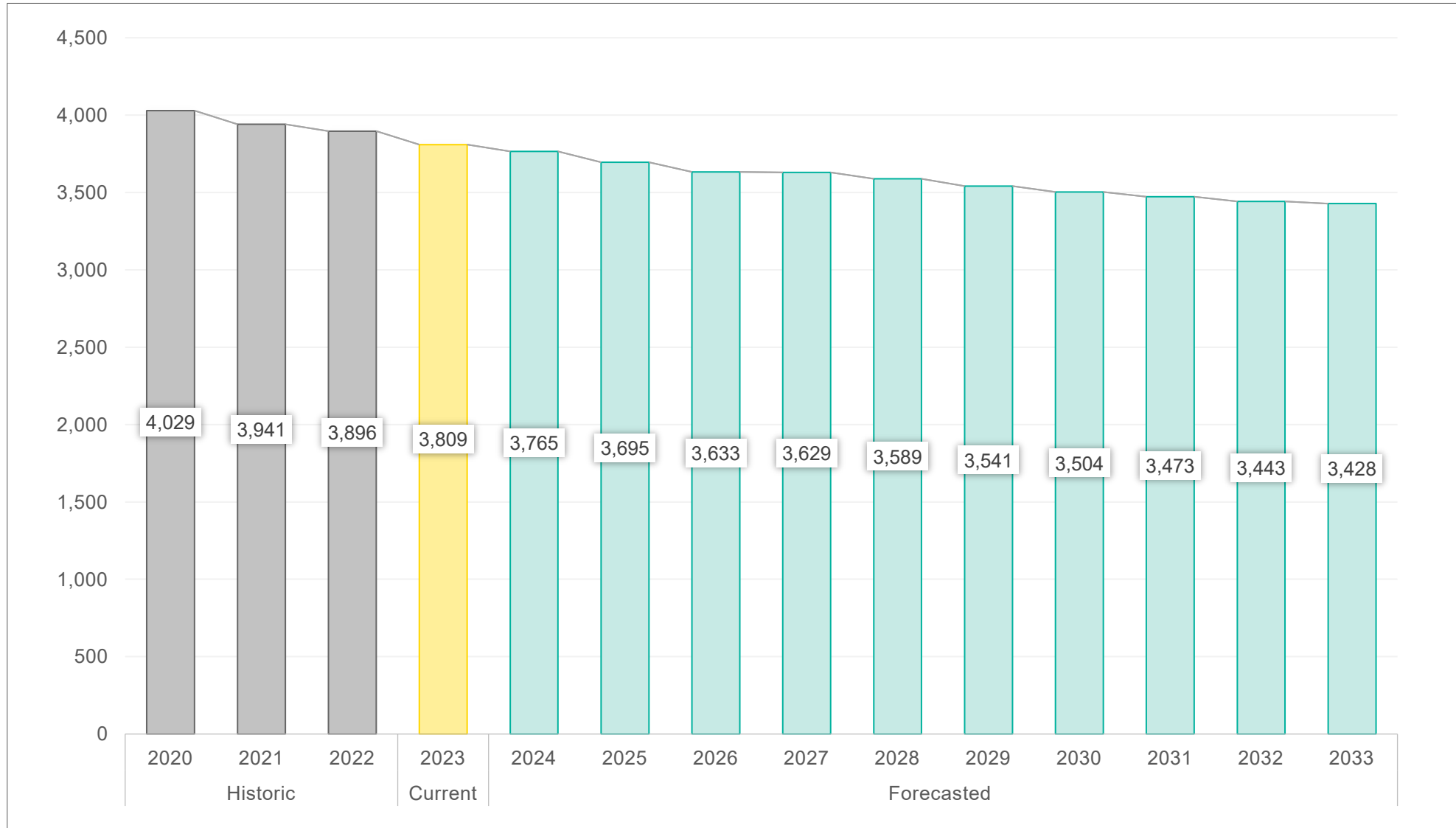
Districtwide 10-Year Resident Student Forecasts

Resident Students														
Grade	Historic			Current	Forecasted									
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
Resident Student Totals by Grade Configuration														
K-12	3,973	3,893	3,862	3,795	3,751.1	3,681.7	3,620.1	3,616.2	3,575.8	3,528.5	3,490.9	3,459.9	3,430.0	3,415.2
Non-Resident & Unmatched Students														
K-12	56	48	34	14	13.8	13.5	13.3	13.2	13.2	12.9	12.8	12.7	12.7	12.7
Total Students														
K-12	4,029	3,941	3,896	3,809	3,764.9	3,695.2	3,633.4	3,629.4	3,589.0	3,541.4	3,503.7	3,472.6	3,442.7	3,427.9
Year-to-Year Net Change														
K-12 Difference	-88	-45	-87	-44.1	-69.7	-61.8	-3.9	-40.5	-47.5	-37.7	-31.1	-30.0	-14.8	



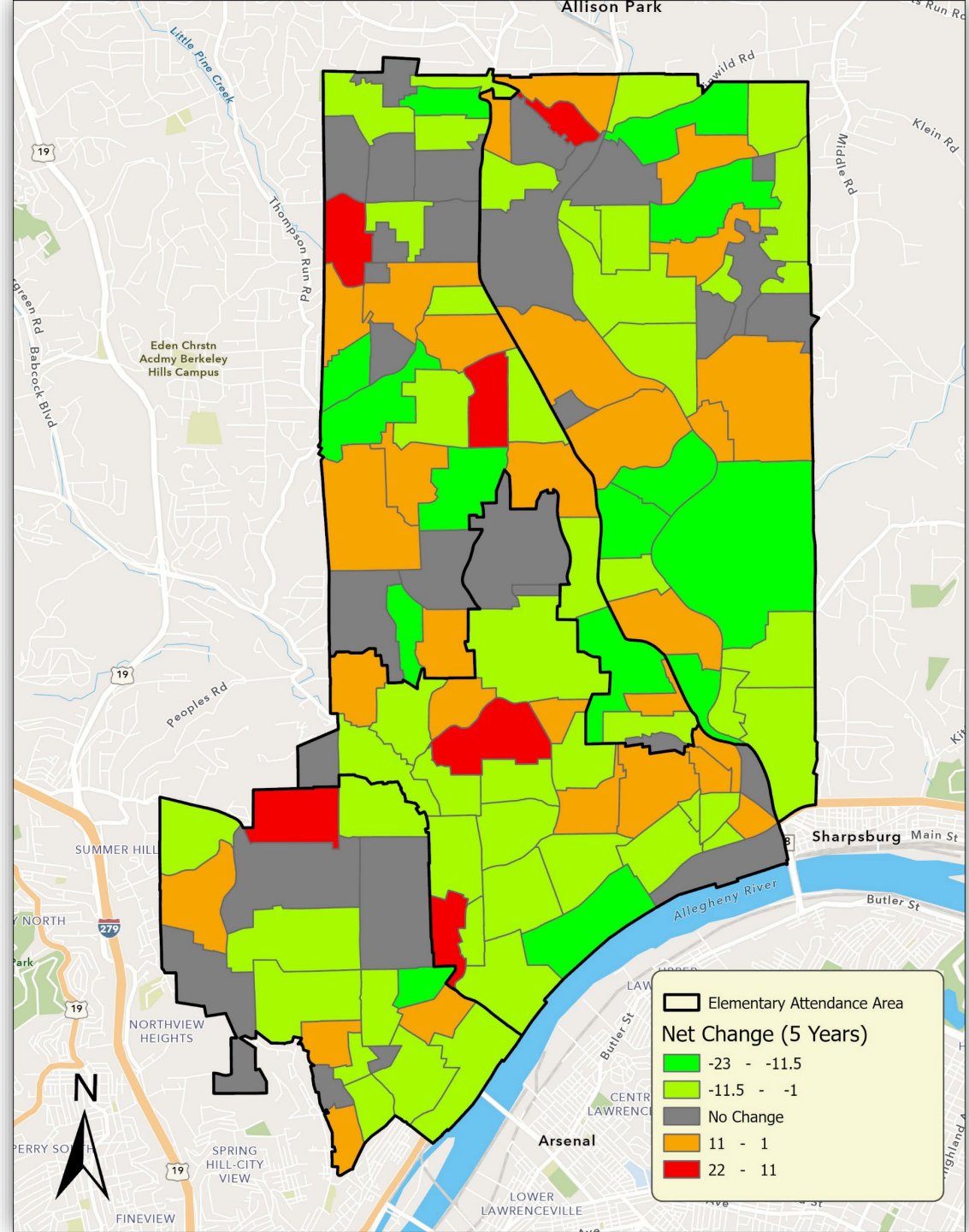
Approx. -5% difference over 5 years

K - 12th Grade Students



Resident Student Projected Net Change SY 2023 to 2028

- ❖ Study areas with significant loss are darker green, while those with minor loss are light green.
- ❖ Gray indicates no net change in the study area.
- ❖ Study areas with significant growth are red, while those with minor growth are orange.



Burchfield Primary School

Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
K	92	94	94	88	87.6	82.9	88.4	93.7	85.9
1	107	90	94	94	87.1	86.7	82.1	87.6	92.8
2	89	105	87	85	89.3	82.8	82.4	78.0	83.2
3	89	91	103	85	84.1	88.4	81.9	81.5	77.2
K-3	377	380	378	352	348.1	340.8	334.8	340.8	339.1
Capacity	Historic Capacity			Forecasted Capacity					
500	75%	76%	76%	70%	70%	68%	67%	68%	68%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
K	85	93	83	90	83.6	71.4	84.4
1	96	86	86	83	86.1	85.7	73.7
2	86	96	84	81	80.3	73.8	73.4
3	89	86	91	82	79.1	83.4	76.9
K-3	356	361	344	336	329.1	314.3	308.4
Capacity	Historic Capacity			Forecasted Capacity			
500	71%	72%	69%	67%	66%	63%	62%

Building capacity is derived from the PDE suggested occupancy of 25 students per classroom

Marzolf Primary School

Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
K	72	81	77	75	82.0	70.6	75.4	80.0	73.3
1	85	73	77	74	72.0	78.8	67.8	72.5	76.9
2	76	77	76	74	71.0	69.1	75.6	65.2	69.6
3	89	72	77	78	73.3	70.3	68.4	75.0	64.6
K-3	322	303	307	301	298.3	288.8	287.2	292.7	284.4
Capacity	Historic Capacity			Forecasted Capacity					
450	72%	67%	68%	67%	66%	64%	64%	65%	63%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
K	81	85	85	73	79.6	69.3	80.4
1	81	74	82	81	69.0	68.6	58.7
2	77	73	76	75	76.0	74.1	73.8
3	83	78	73	77	75.3	72.3	70.4
K-3	322	310	316	306	299.9	284.3	283.3
Capacity	Historic Capacity			Forecasted Capacity			
450	72%	69%	70%	68%	67%	63%	63%

Building capacity is derived from the PDE suggested occupancy of 25 students per classroom

Reserve Primary School

Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
K	31	27	32	35	34.8	33.0	35.2	37.4	34.3
1	41	29	26	34	34.3	34.1	32.3	34.5	36.7
2	36	39	25	23	30.6	30.9	30.7	29.2	31.2
3	43	37	39	26	23.5	31.2	31.5	31.4	29.8
K-3	151	132	122	118	123.2	129.2	129.7	132.5	132.0
Capacity	Historic Capacity			Forecasted Capacity					
275	55%	48%	44%	43%	45%	47%	47%	48%	48%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
K	34	28	28	34	33.8	29.0	34.2
1	46	33	27	31	34.3	34.1	29.4
2	43	40	28	22	27.6	27.9	27.7
3	42	41	40	26	21.5	29.2	29.5
K-3	165	142	123	113	117.2	120.2	120.8
Capacity	Historic Capacity			Forecasted Capacity			
275	60%	52%	45%	41%	43%	44%	44%

Building capacity is derived from the PDE suggested occupancy of 25 students per classroom

Scott Primary School

Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
K	98	102	100	88	96.3	82.9	88.4	93.7	85.9
1	80	92	93	98	82.7	90.5	77.9	83.1	88.1
2	101	81	93	89	97.0	81.9	89.6	77.1	82.3
3	86	96	72	91	83.7	91.2	77.0	84.2	72.5
K-3	365	371	358	366	359.7	346.5	332.9	338.1	328.8
Capacity	Historic Capacity			Forecasted Capacity					
575	63%	65%	62%	64%	63%	60%	58%	59%	57%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
K	96	100	106	90	88.6	76.4	89.4
1	95	94	96	104	87.7	87.3	75.9
2	99	96	97	92	103.0	87.9	87.5
3	95	95	89	97	88.7	96.2	82.0
K-3	385	385	388	383	368.0	347.8	334.8
Capacity	Historic Capacity			Forecasted Capacity			
575	67%	67%	67%	67%	64%	60%	58%

Building capacity is derived from the PDE suggested occupancy of 25 students per classroom

Shaler Area Elementary School

Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
4	309	303	291	295	278.0	262.5	279.1	257.2	270.5
5	279	304	295	286	288.4	271.6	256.3	273.0	251.6
6	288	277	302	293	283.5	285.8	269.3	254.4	270.8
4-6	876	884	888	874	849.9	819.9	804.7	784.6	792.9
Capacity	Historic Capacity			Forecasted Capacity					
1,125	78%	79%	79%	78%	76%	73%	72%	70%	70%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
4	311	304	294	298	280.0	264.5	281.1
5	282	306	291	286	290.4	273.6	258.3
6	292	279	302	288	283.5	285.8	269.3
4-6	885	889	887	872	853.9	823.9	808.7
Capacity	Historic Capacity			Forecasted Capacity			
1,125	79%	79%	79%	78%	76%	73%	72%

Building capacity is derived from the PDE suggested occupancy of 25 students per classroom

Shaler Area Middle School

Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
7	309	285	286	306	295.9	286.3	288.9	271.9	256.8
8	309	314	276	284	302.9	292.8	283.8	286.0	270.1
7-8	618	599	562	590	598.8	579.1	572.7	557.9	526.9
Capacity	Historic Capacity			Forecasted Capacity					
1,144	54%	52%	49%	52%	52%	51%	50%	49%	46%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
7	309	285	287	303	294.9	285.3	287.9
8	310	314	275	282	299.9	289.8	280.8
7-8	619	599	562	585	594.8	575.1	568.7
Capacity	Historic Capacity			Forecasted Capacity			
1,144	54%	52%	49%	51%	52%	50%	50%

Building capacity is derived from the PDE suggested occupancy of 25 students per classroom

Shaler Area High School

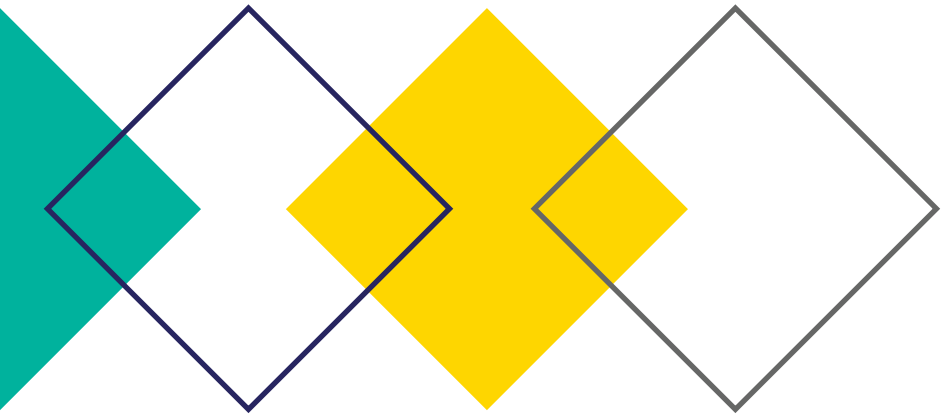
Residence-based Forecast

Grade	Historic Resident Students			Current	Forecasted Resident Students				
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026	SY 2027	SY 2028
9	305	332	341	290	305.1	325.2	314.7	304.4	306.6
10	317	295	305	314	270.5	285.0	303.8	294.3	284.9
11	347	308	286	293	302.5	262.1	275.2	293.6	284.1
12	295	289	315	297	295.0	305.2	264.4	277.3	296.1
9-12	1,264	1,224	1,247	1,194	1,173.1	1,177.5	1,158.1	1,169.6	1,171.7
Capacity	Historic Capacity			Forecasted Capacity					
1,716	74%	71%	73%	70%	68%	69%	67%	68%	68%

Enrollment Forecast

Grade	Historic Resident Students			Current	Forecasted Enrollment		
	SY 2020	SY 2021	SY 2022	SY 2023	SY 2024	SY 2025	SY 2026
9	304	333	339	288	304.1	324.2	313.7
10	323	295	303	312	268.5	283.0	301.8
11	344	310	285	288	299.5	259.1	272.2
12	283	284	310	286	266.3	276.0	237.3
9-12	1,254	1,222	1,237	1,174	1,138.4	1,142.3	1,125.0
Capacity	Historic Capacity			Forecasted Capacity			
1,716	73%	71%	72%	68%	66%	67%	66%

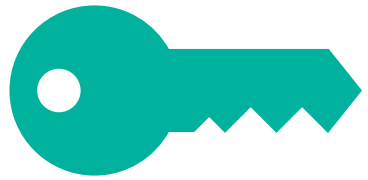
Building capacity is derived from the PDE suggested occupancy of 25 students per classroom



Current and Forecasted Resident Student Summary

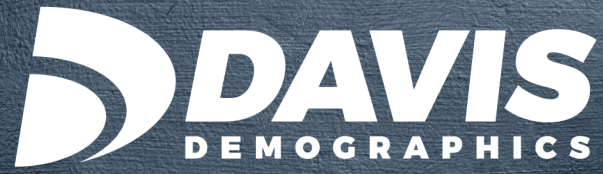
	BASE YEAR SY2023-24	FORECAST FIVE YEARS OUT SY2028-29	FORECAST TEN YEARS OUT SY2033-34
K-3	1,137	1,084.3	1,101.2
4-6	874	792.9	774.7
7-8	590	526.9	490.0
9-12	1,194	1,171.7	1,049.3
K-12	3,795	3,575.8	3,415.2

- These figures represent **Resident Enrollment**
- “Out of District” enrolled students and “unmatched” students are not included.



Key Items in Districtwide Analysis

- ❖ The general trend across all grades and subgroups is a decline in enrollment, indicating potential demographic shifts, reduced birth rates, or other socio-economic factors influencing student numbers.
- ❖ Kindergarten forecasts predict fluctuating numbers, with a low of 269.4 in 2025 and highs around 291.9 in 2030, indicating no significant recovery to early levels.
- ❖ There is not enough residential development to offset the natural decline in mobility and area births.
- ❖ This decline might necessitate strategic planning for resource allocation, staffing, and program offerings to meet changing demands.



Thank You