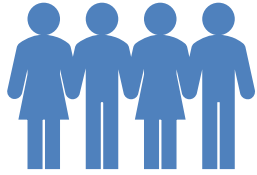




# Demographic Study

Ten-Year Resident Student Forecasts  
SY2022/23 to SY2032/33



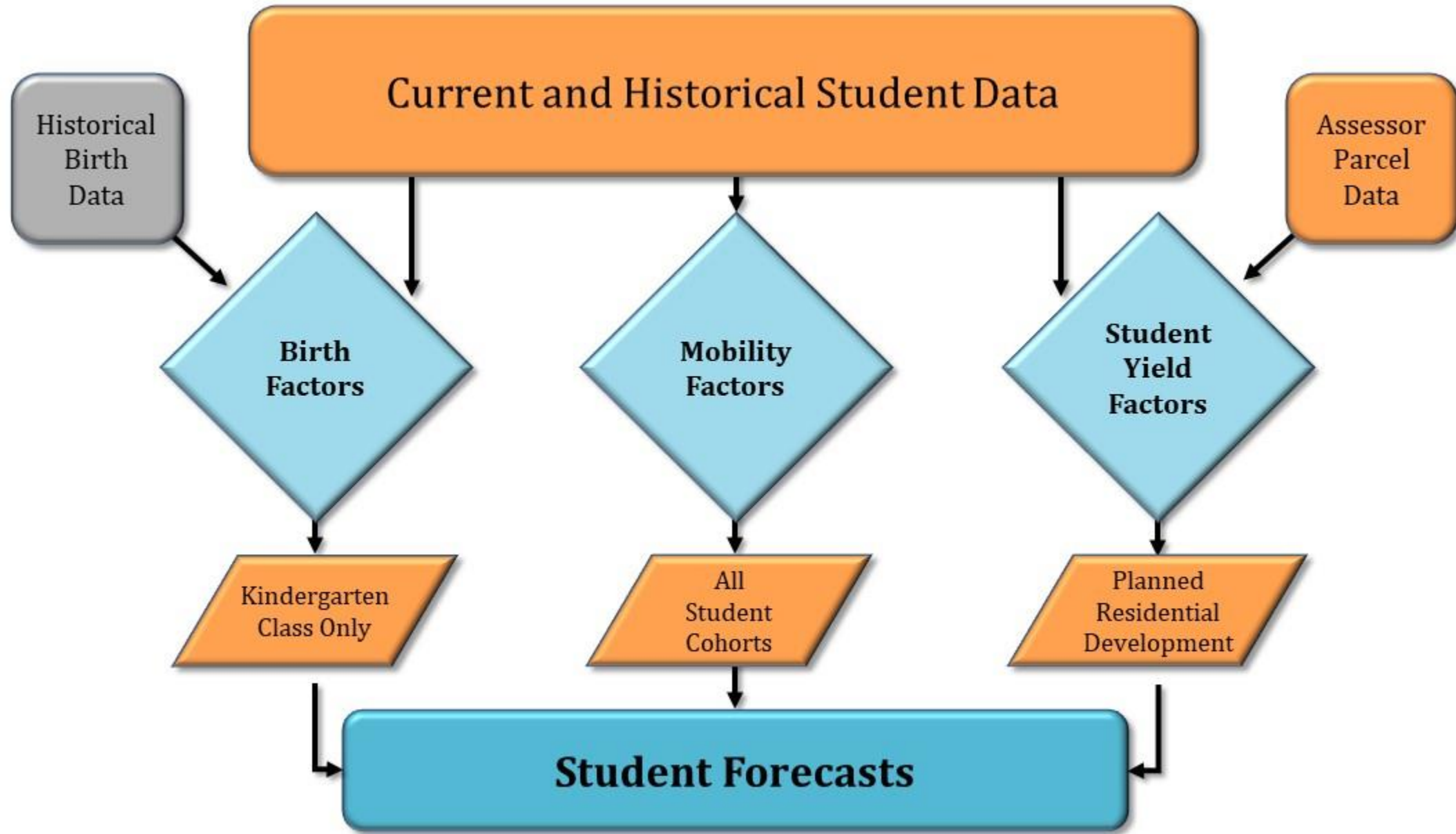
## Work accomplished by Davis Demographics for Moon Area School District

- ✓ Updated data set for District
- ✓ Researched active, proposed, and future residential development projects.
- ✓ Analyzed current and future demographic dynamics of the district and attendance areas.
- ✓ Developed population forecasts by grade and attendance area for the next 10 years (i.e. 2022/23 through 2032/33)

Data Sets  
for  
Analysis

Created  
Forecast  
Factors

Factors  
Applied  
to Data



# Student Data Verification



Student Data Verification Form  
Current SY 2022 - 2023

District: Moon Area School District  
To: Kim Prevost  
Email: kprevost@moonarea.net  
  
From: Analisa Garcia  
Email: agarcia@davisdemographics.com

Date Received	11/22/2022
Date Processed	11/22/2022
Initial	10-3-2022
Date of Data (Fall Snapshot)	
File Name	Student_Snapshot_Template_Details_Oct2022
Student Records	4,035
Valid Address Fields	4,035
*PO Boxes	0
*Invalid/Empty Address Fields	0

*Will not be geocoded	
Data Fields in File:	
The following fields are included in the file. If additional fields are necessary to correctly identify students in various categories or programs for boundary planning or other types of analysis deemed important by the District, immediately notify Davis Demographics and send a new complete student data file with the added fields. PLEASE SEND A LIST OF VALUES (Data Dictionary) FOR EACH FIELD.	
SCHOOL NUMBER	
SCHOOL NUMBER OF RESIDENCE	
Transfer Code	
SCHOOL NAME	
PASECURED	
ADDRESS 1	
ADDRESS 2	
GRADE	
CITY	
STATE CODE	
ZIP	
RACE / ETHNICITY	
FOOD PGM PARTICIPATION CODE	
CHALLENGE TYPE	
EL STATUS CODE	
EL STATUS	
LIEP TYPE	
LIEP TYPE DESCRIPTION	
SPECIAL ED STATUS	
ECONOMIC DISADVANTAGED STATUS CODE	

## Attribute Details

Grade	# of Records	School Name	# of Records
1	323	Bon Meade El Sch	595
2	317	J H Brooks El Sch	377
3	346	J.A. Allard El Sch	208
4	291	McCormick El Sch	184
5	302	Moon Area Lower MS	623
6	322	Moon Area SD	28
7	293	Moon Area Upper MS	581
8	292	Moon SHS	1,218
9	332	Richard J. Hyde El Sch	221
10	295	<b>Total</b>	<b>4,035</b>
11	336		
12	277		
K5F	309		
<b>Total</b>	<b>4,035</b>		

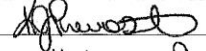
Food PGM Participation Code	# of Records	Race/Ethnicity	# of Records
F	1,094	1	5
N	2,872	10	1
R	69	3	228
<b>Total</b>	<b>4,035</b>	4	315
		5	3,008
		6	258
		9	220
		<b>Total</b>	<b>4,035</b>

Challenge Type	# of Records	EL Status	# of Records
2121	81	Current EL LIFE	7
2123	13	Current EL not LIFE	206
2124	27	Former EL Exited and in 1st year of monitoring	11
2125	5	Former EL Exited and in 2nd year of monitoring	9
2127	29	Former EL Exited and in 3rd year of monitoring	6
2128	221	Former EL Exited and in 4th year of monitoring	6
2129	127	Former EL Exited and no longer monitored	11
2130	2	Never EL	3,779
2131	1	<b>Total</b>	<b>4,035</b>
2132	141		
(blank)	3,388		
<b>Total</b>	<b>4,035</b>		

Special Ed Status	# of Records	LIEP Type	# of Records
E	4	EL Specific English-only	201
N	3,388	Parental refusal-mixed classes with English-only support	12
Y	643	(blank)	3,822
<b>Total</b>	<b>4,035</b>	<b>Total</b>	<b>4,035</b>

Economic Disadvantaged Status Code	# of Records
N	2,998
Y	1,037
<b>Total</b>	<b>4,035</b>

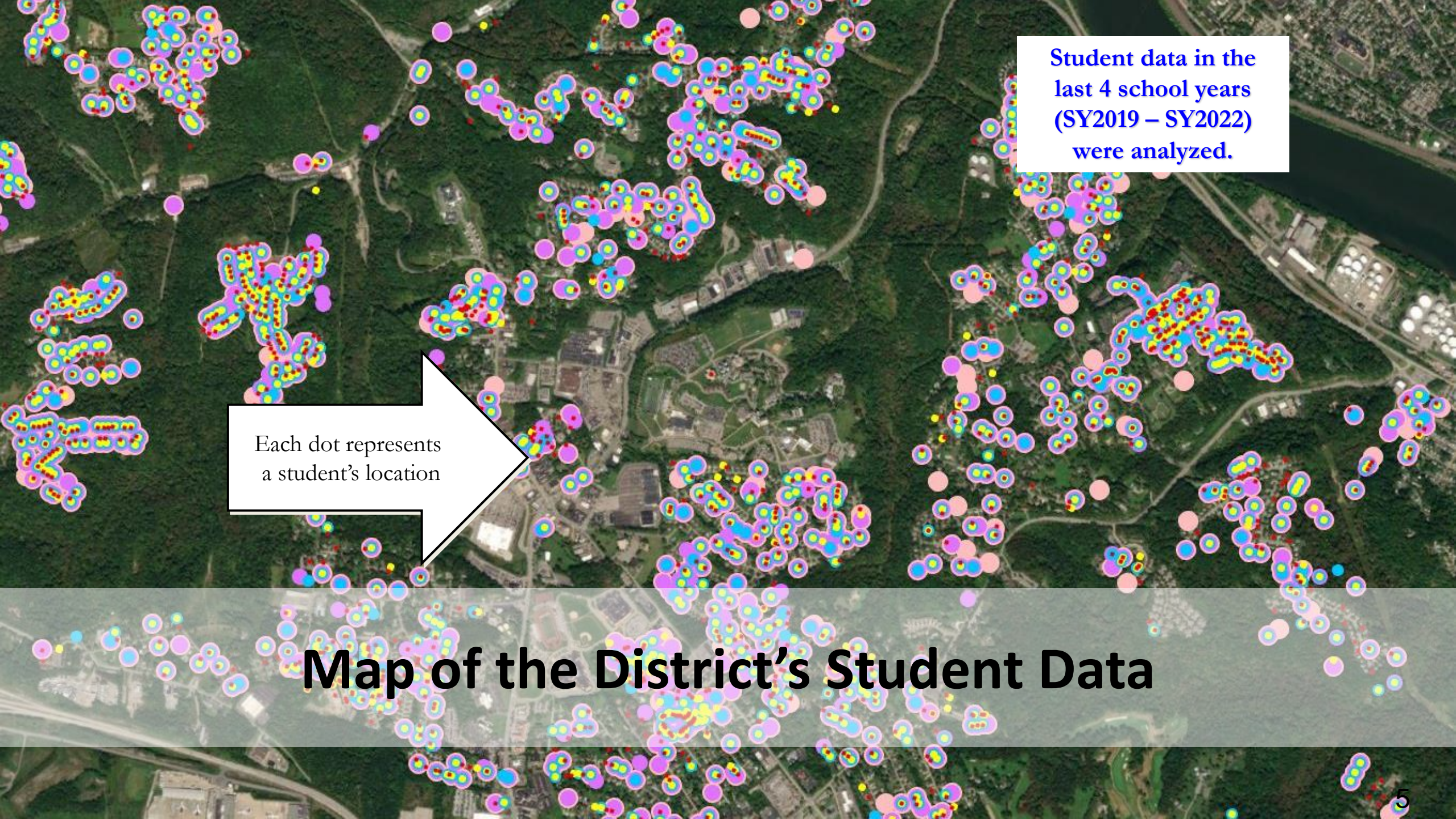
**IMPORTANT! PLEASE READ CAREFULLY, COMPLETE AND SIGN**  
The District acknowledges by signature below that the above numbers accurately reflect the enrollment of the District as of the annual fall reporting date. In addition, the District represents that the fields included with the file, as listed above, are the only fields necessary to identify any students the District deems important for all anticipated types of boundary planning and analysis. Davis Demographics will be basing its project work on this file. If errors are later found to exist in the file or if important fields are not included, additional fees may be required by Davis Demographics to correct any inaccuracies and the project timeline may need to be extended.

  
Signature: Kimberly Prevost  
Date: 12-1-2022  
Title: Director of Data + Analysis

We will proceed with this file once this form has been returned signed. Time is of the essence, but accuracy is more important. Please contact us with any questions ASAP. Thank you!

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



An aerial photograph of a district, likely a school district, showing a mix of green fields, roads, and some buildings. Overlaid on the map are numerous clusters of colored dots. Each dot is surrounded by a semi-transparent colored circle (pink, blue, or yellow). The dots are concentrated in several areas, particularly in the upper left, upper right, and lower right, with some smaller clusters in the center and lower left. A large white arrow points from the text 'Each dot represents a student's location' to one of the clusters in the lower left. A white box in the upper right contains text about the data analysis period.

Student data in the  
last 4 school years  
(SY2019 – SY2022)  
were analyzed.

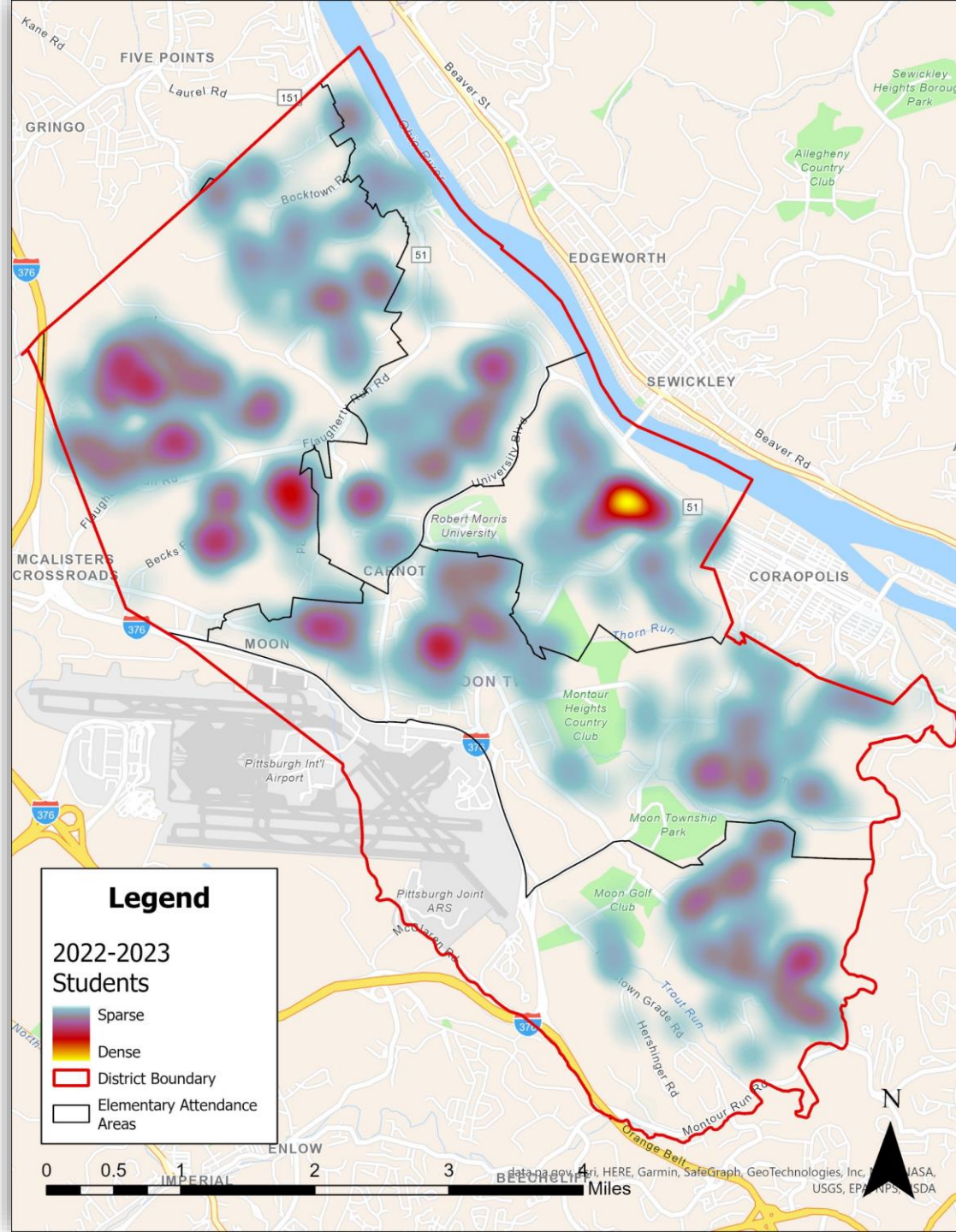
Each dot represents  
a student's location

# Map of the District's Student Data

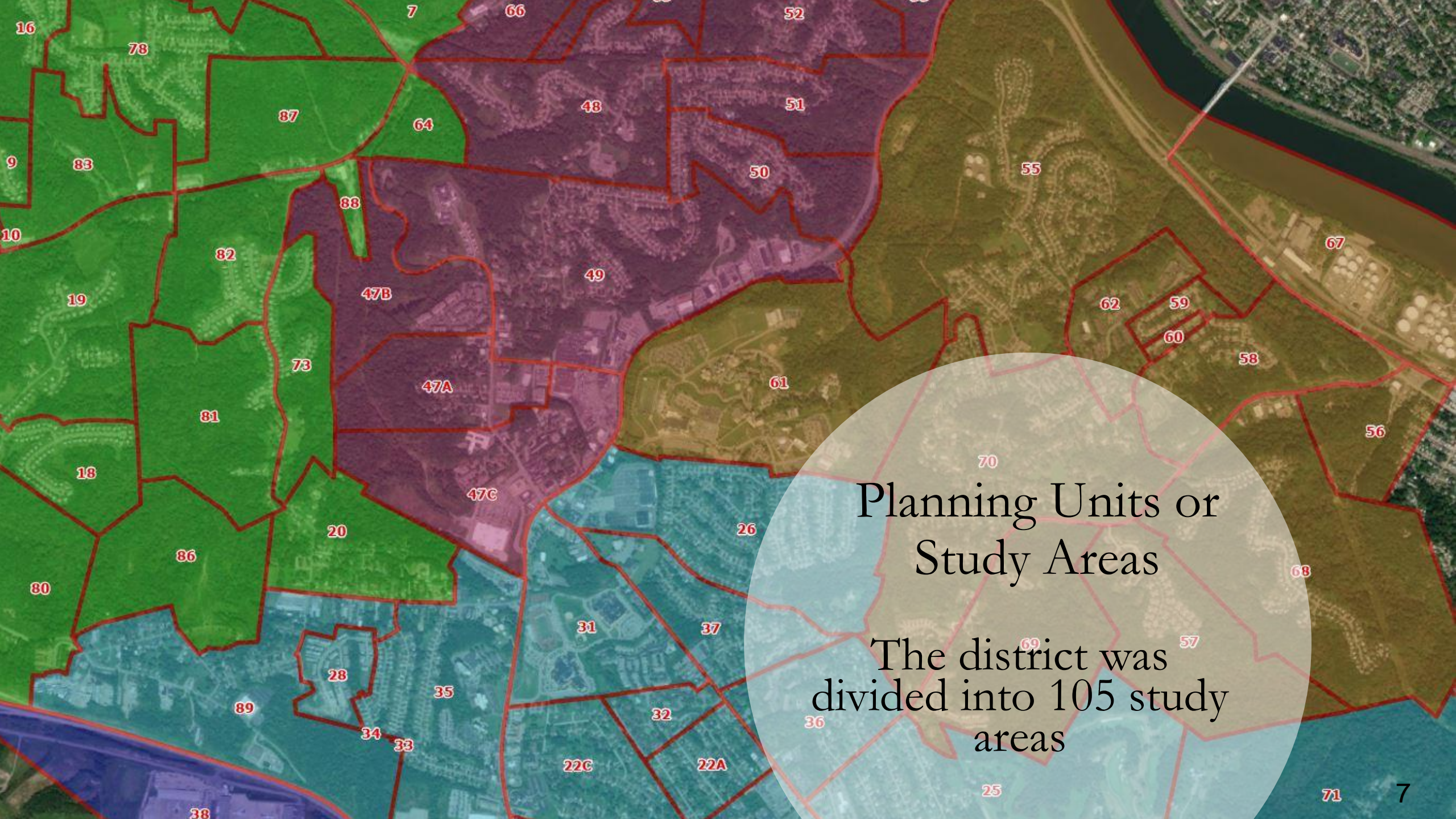


# Student Density Fall 2022

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 105 study  
areas



# Attendance Matrix Summaries

Attendance Matrices were created for all attendance zones in Moon Area SD that detail where students reside compared to where they are enrolled.

Attendance Area	Campus Capacity	Resident Students	Enrolled Students	Utilization*		Resident Student Transfers		Non-Resident Students In	Net Total Transfers In
				Resident Students	Enrolled Students	Students In	Students Out		
Allard ES	350	212	208	60.6%	59.4%	10	15	1	11
Bon Meade ES	625	581	595	93.0%	95.2%	18	6	2	20
Brooks ES	550	373	377	67.8%	68.5%	23	21	2	25
Hyde ES	350	225	221	64.3%	63.1%	10	14	0	10
McCormick ES	350	190	184	54.3%	52.6%	0	6	0	0

The Attendance Matrix Summaries provide the count of Moon Area students who reside in each zone, the number of enrolled students, transfers in and out, and campus utilization.



# Historic Live Birth Counts in Moon Area SD by Zip Code

Births by Municipality					Birth Rate		
Birth Year	Kinder Year	Crescent Township	Moon Township	Total	% Change*	Birthrate Used in Forecast	School Year
2011	2016	23	263	286	93.5%		2016/17
2012	2017	28	247	275	89.9%		2017/18
2013	2018	14	282	296	96.7%		2018/19
2014	2019	20	272	292	95.4%		2019/20
2015	2020	27	288	315	102.9%		2020/21
2016	2021	26	273	299	97.7%		2021/22
2017	2022	13	293	306	Base Year		2022/23
2018	2023	18	298	316	103.3%	1.033	2023/24
2019	2024	23	267	290	94.8%	0.948	2024/25
2020	2025	31	262	293	95.8%	0.958	2025/26
2021	2026	Birth Data was not available at the time of study.			97.9%	0.979	2026/27
2022	2027				96.2%	0.962	2027/28
2023	2028				96.6%	0.966	2028/29
2024	2029				96.9%	0.969	2029/30
2025	2030				96.6%	0.966	2030/31
2026	2031				96.7%	0.967	2031/32
2027	2032				96.6%	0.966	2032/33

# Mobility Factors SY 2019 - 2022

## How is Mobility Applied?

$$\frac{100 \text{ Kindergarten students in SY2021-22} \times 1.01 \text{ (Allard ES 1st grade mobility)}}{101 \text{ 1st grade students in SY2022-23}}$$

- 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 elementary attendance area
- Addresses move-ins/outs, private school movement, attrition at upper grades

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
Allard ES	1.01	0.91	0.88	1.04	0.98	1.12	1.03	0.96	1.03	0.96	1.00	1.00
Bon Meade ES	1.01	1.00	1.00	0.98	0.99	1.02	0.99	1.02	1.02	0.97	0.97	1.03
Brooks ES	0.99	1.00	1.04	0.96	1.07	1.01	1.00	1.01	1.13	0.97	0.98	0.98
Hyde ES	1.05	1.00	1.10	1.05	1.00	0.95	1.01	1.05	0.99	0.87	1.03	0.93
McCormick ES	1.11	0.98	0.95	0.97	1.02	1.02	1.02	1.03	0.96	0.99	0.99	1.02



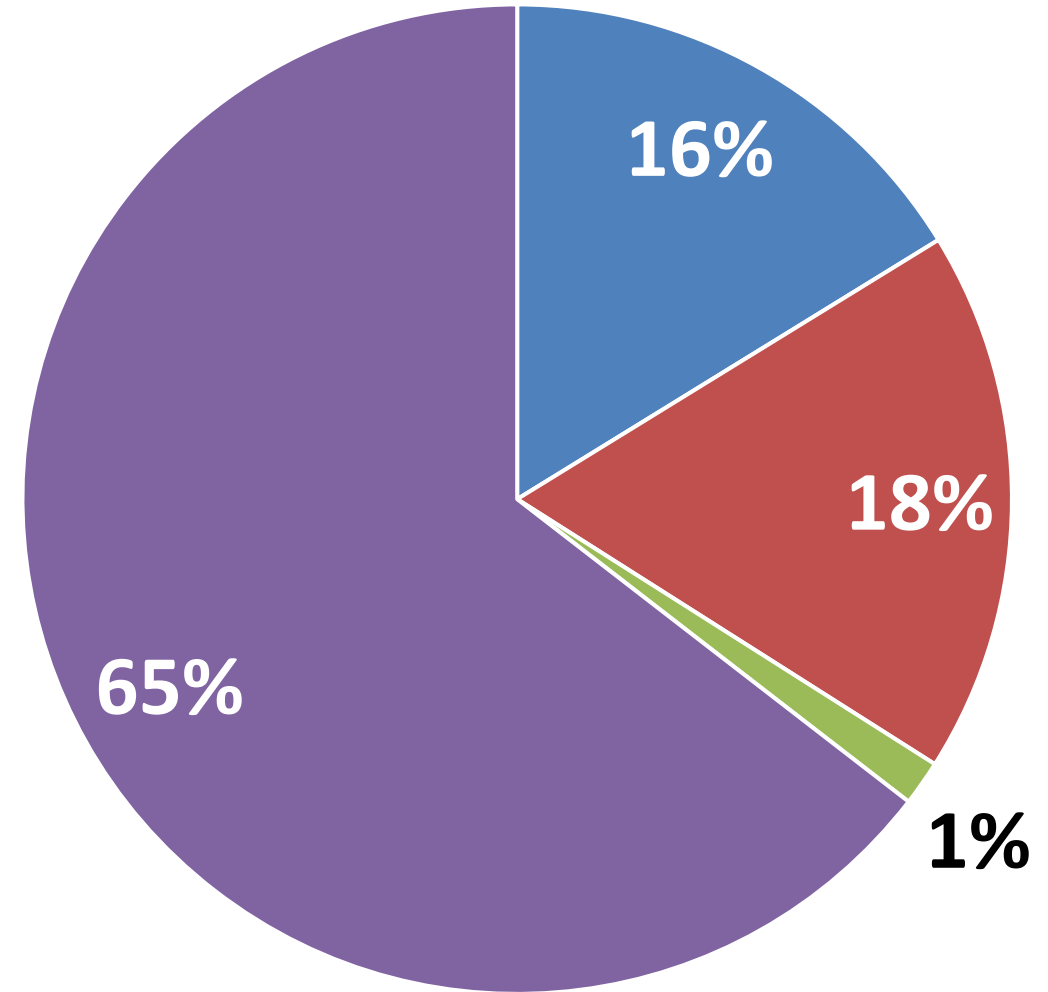
# Student Yield Factors

Student Yield Factors (SYF) help determine the forecasted number of students from new residential developments. For single family detached homes, the K-12 SYF is **0.417**, which means Moon Area SD could expect to gain 42 students for every 100 new single family detached homes.

All Units - All Years								
Grade	Single Family Detached		Single Family Attached		Apartments		Multi-Family Attached	
	7,995 Units		1,508 Units		77 Units		455 Units	
	Students	Factor	Students	Factor	Students	Factor	Students	Factor
K-4	1,303	0.163	77	0.051	2	0.026	83	0.182
5-6	509	0.064	23	0.015	1	0.013	35	0.077
7-8	472	0.059	32	0.021	3	0.039	31	0.068
9-12	1,051	0.131	49	0.032	1	0.013	57	0.125
K-12	3,335	0.417	181	0.120	7	0.091	206	0.453

## Residential Development by Elementary Attendance Area

- 13 projects are currently active or planned in 4 ES attendance areas
- 1,153 units included in forecast
- Majority of students from new developments would be zoned to McCormick ES.

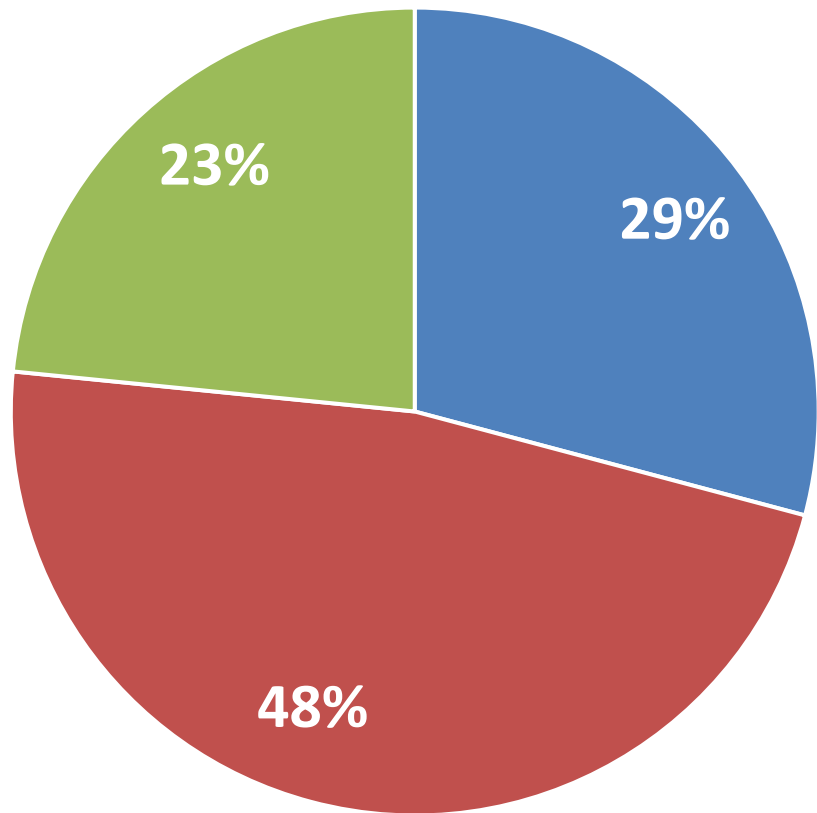


■ Allard ES   ■ Bon Meade ES   ■ Brooks ES   ■ McCormick ES



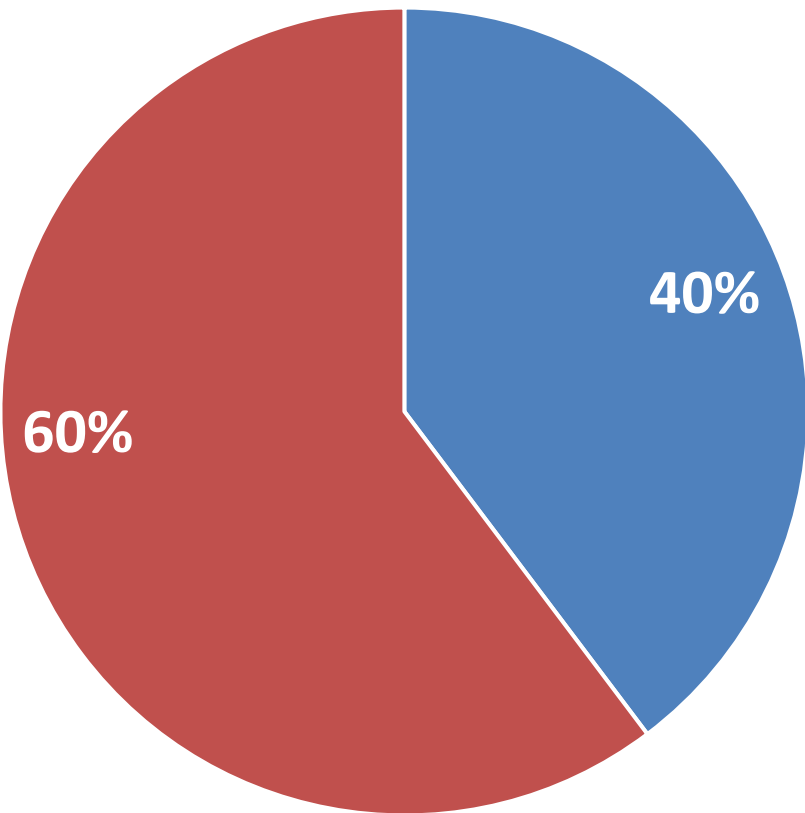
# Residential Development by Housing Type and Status

Development Type

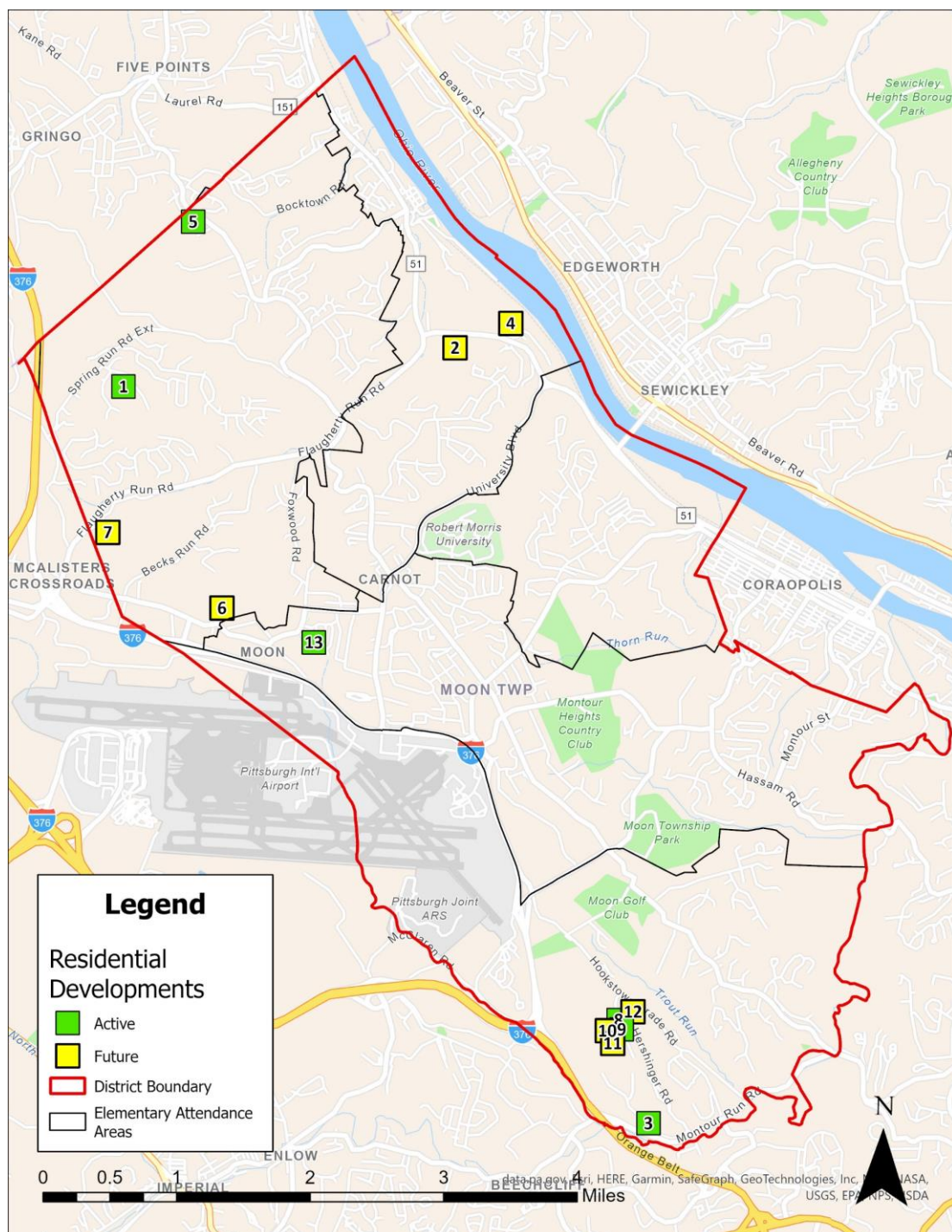


■ APT ■ SFA ■ SFD

Development Status



■ Active ■ Future



# Residential Development

Map ID#	Project	Developer	Total Units	Units Applied in Forecast	Type	Status
Allard ES						
4	River Ridge	Montclair Development	88	84	SFA	Future
2	Elk Ridge	Elk Ridge Development LP	103	103	SFA	Future
Bon Meade ES						
5	Rolling Hills	DRB Homes	78	50	SFA	Active
1	Cimarron Community	Maronda Homes	15	15	SFD	Active
6	Rubenstein	Montclair Development	272	100	SFD	Future
7	Victoria Ridge	Maronda Homes	40	40	SFD	Future
Brooks ES						
13	Wiltshire Estates	Maronda Homes	39	17	SFA	Active
McCormick ES						
8	Village at Marketplace (Ph 1 SFD)	Heartland Homes	17	17	SFD	Active
12	Village at Marketplace (Ph 3)	Heartland Homes	18	18	SFD	Future
3	Prism at Diamond Ridge	Burns Scalo Development	336	336	APT	Active
9	Village at Marketplace (Ph 1 Townhome)	Heartland Homes	53	23	SFA	Active
10	Village at Marketplace (Ph 2 SFD)	Heartland Homes	80	80	SFD	Future
11	Village at Marketplace (Ph 2 Townhome)	Heartland Homes	270	270	SFA	Future



# Forecasted Resident Students

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

Forecasts were generated using the Fall 2022 census student data as a base.

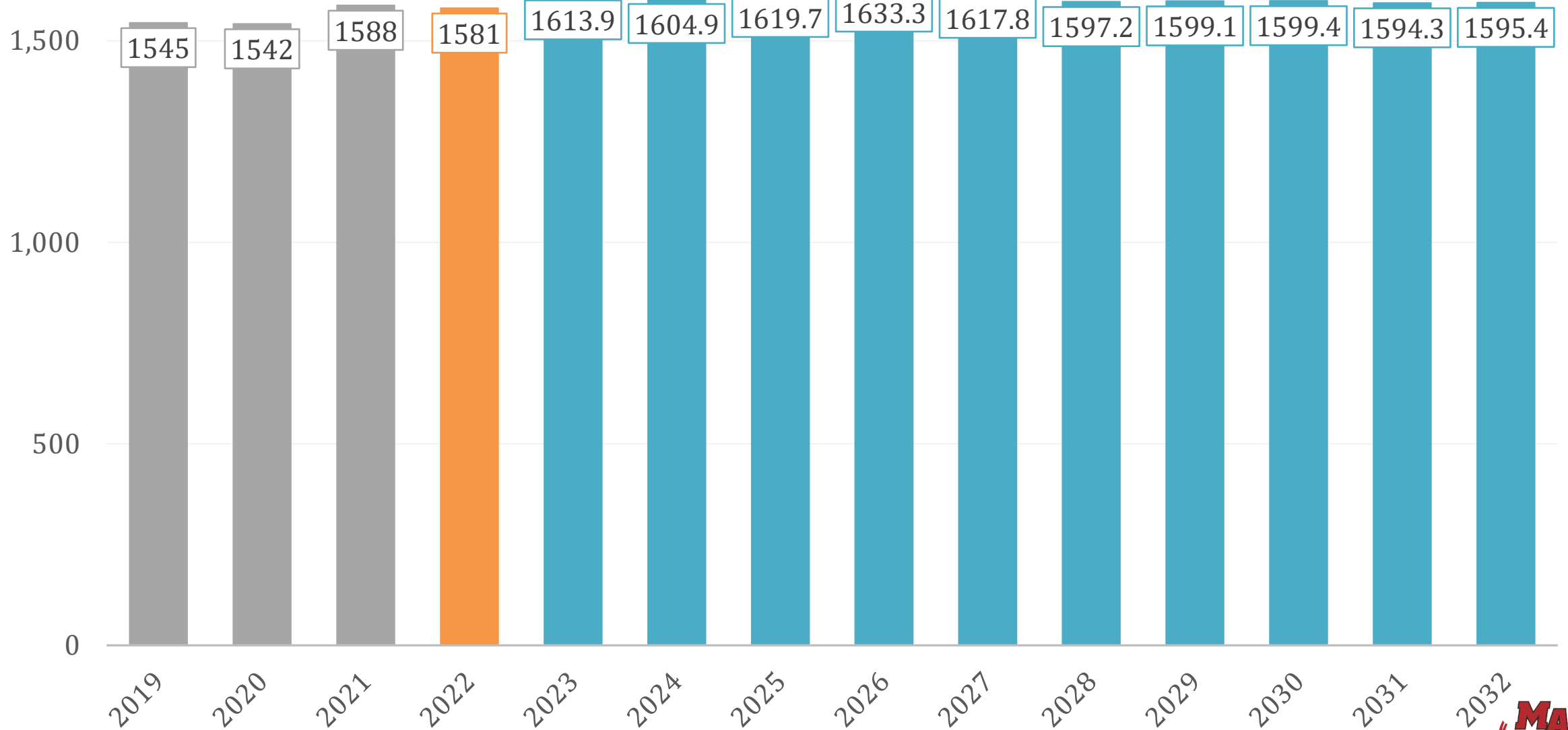
Historic Resident Counts				Current	Forecasted Resident Counts									
Grade	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
K	356	305	315	308	319.1	300.4	308.1	318.0	310.7	313.6	315.0	314.9	315.5	315.4
1	296	351	322	323	315.8	335.0	316.8	324.0	327.8	321.2	323.4	324.8	324.2	324.4
2	306	291	346	316	319.0	317.9	337.0	318.2	319.4	324.1	316.8	318.9	319.8	318.9
3	307	298	299	344	319.0	327.1	325.1	342.8	317.9	320.1	324.2	317.0	318.6	319.2
4	280	297	306	290	341.0	324.5	332.7	330.3	342.0	318.2	319.7	323.8	316.2	317.5
5	290	283	309	302	295.5	354.1	336.9	343.7	335.0	347.8	323.0	324.4	328.0	320.0
6	297	294	287	320	308.9	308.5	370.9	349.3	350.9	344.0	356.3	331.0	332.0	335.3
7	315	299	294	293	322.3	314.1	313.7	376.2	352.2	355.1	347.7	360.0	334.1	334.6
8	310	315	317	292	298.1	330.7	323.1	322.3	382.4	360.8	362.8	354.5	366.5	339.7
9	302	330	310	330	302.6	310.1	344.3	334.5	335.0	398.6	373.1	373.7	365.2	377.2
10	297	290	324	294	316.0	292.0	299.5	331.7	322.3	323.9	385.0	357.9	358.6	349.8
11	299	289	278	334	290.2	314.1	290.5	296.8	328.1	320.1	320.5	380.8	354.5	354.8
12	291	302	285	277	334.2	292.9	315.3	291.7	298.2	330.7	321.7	322.0	382.3	354.4
Resident Student Totals by Grade Configuration														
K-4	1,545	1,542	1,588	1,581	1,613.9	1,604.9	1,619.7	1,633.3	1,617.8	1,597.2	1,599.1	1,599.4	1,594.3	1,595.4
5-6	587	577	596	622	604.4	662.6	707.8	693.0	685.9	691.8	679.3	655.4	660.0	655.3
7-8	625	614	611	585	620.4	644.8	636.8	698.5	734.6	715.9	710.5	714.5	700.6	674.3
9-12	1,189	1,211	1,197	1,235	1,243.0	1,209.1	1,249.6	1,254.7	1,283.6	1,373.3	1,400.3	1,434.4	1,460.6	1,436.2
K-12	3,946	3,944	3,992	4,023	4,081.7	4,121.4	4,213.9	4,279.5	4,321.9	4,378.2	4,389.2	4,403.7	4,415.5	4,361.2

# Districtwide 10-Year Resident Student Forecasts

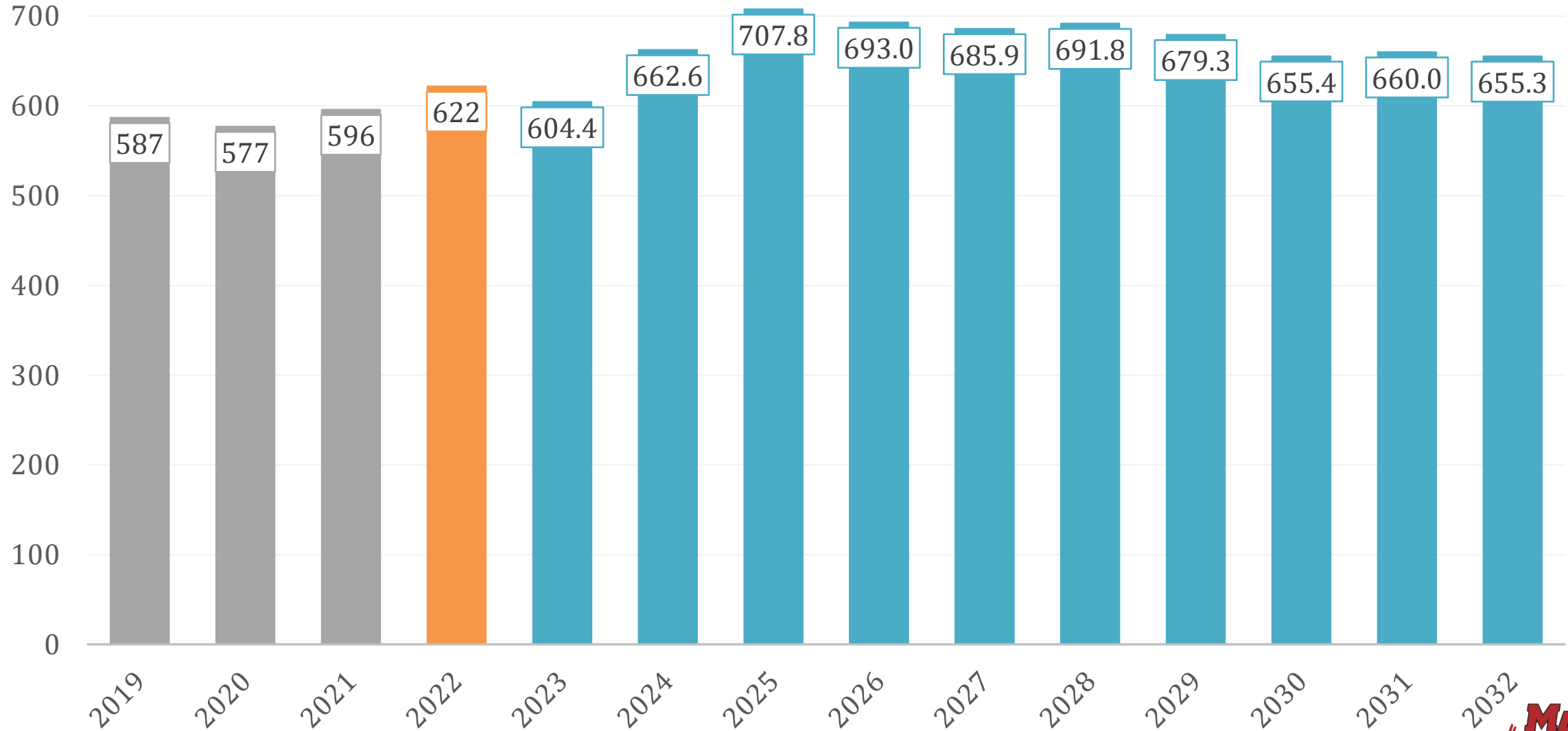
Historic Resident Counts				Current	Forecasted Resident Counts									
Grade	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
K	315	311	315	308	319.1	300.4	308.1	318.0	310.7	313.6	315.0	314.9	315.5	315.4
1	290	291	322	323	315.8	335.0	316.8	324.0	327.8	321.2	323.4	324.8	324.2	324.4
2	306	291	346	316	319.0	317.9	337.0	318.2	319.4	324.1	316.8	318.9	319.8	318.9
3	307	298	299	344	319.0	327.1	325.1	342.8	317.9	320.1	324.2	317.0	318.6	319.2
4	280	297	306	290	341.0	324.5	332.7	330.3	342.0	318.2	319.7	323.8	316.2	317.5
5	290	283	309	302	295.5	354.1	336.9	343.7	335.0	347.8	323.0	324.4	328.0	320.0
6	297	294	287	320	308.9	308.5	370.9	349.3	350.9	344.0	356.3	331.0	332.0	335.3
7	315	299	294	293	322.3	314.1	313.7	376.2	352.2	355.1	347.7	360.0	334.1	334.6
8	310	315	317	292	298.1	330.7	323.1	322.3	382.4	360.8	362.8	354.5	366.5	339.7
9	302	330	310	330	302.6	310.1	344.3	334.5	335.0	398.6	373.1	373.7	365.2	377.2
10	297	290	324	294	316.0	292.0	299.5	331.7	322.3	323.9	385.0	357.9	358.6	349.8
11	299	289	278	334	290.2	314.1	290.5	296.8	328.1	320.1	320.5	380.8	354.5	354.8
12	291	302	285	277	334.2	292.9	315.3	291.7	298.2	330.7	321.7	322.0	382.3	354.4
Resident Student Totals by Grade Configuration														
K-4	1,545	1,542	1,588	1,581	1,613.9	1,604.9	1,619.7	1,633.3	1,617.8	1,597.2	1,599.1	1,599.4	1,594.3	1,595.4
5-6	587	577	596	622	604.4	662.6	707.8	693.0	685.9	691.8	679.3	655.4	660.0	655.3
7-8	625	614	611	585	620.4	644.8	636.8	698.5	734.6	715.9	710.5	714.5	700.6	674.3
9-12	1,189	1,211	1,197	1,235	1,243.0	1,209.1	1,249.6	1,254.7	1,283.6	1,373.3	1,400.3	1,434.4	1,460.6	1,436.2
K-12	3,946	3,944	3,992	4,023	4,081.7	4,121.4	4,213.9	4,279.5	4,321.9	4,378.2	4,389.2	4,403.7	4,415.5	4,361.2



# K – 4<sup>th</sup> Grade Resident Students

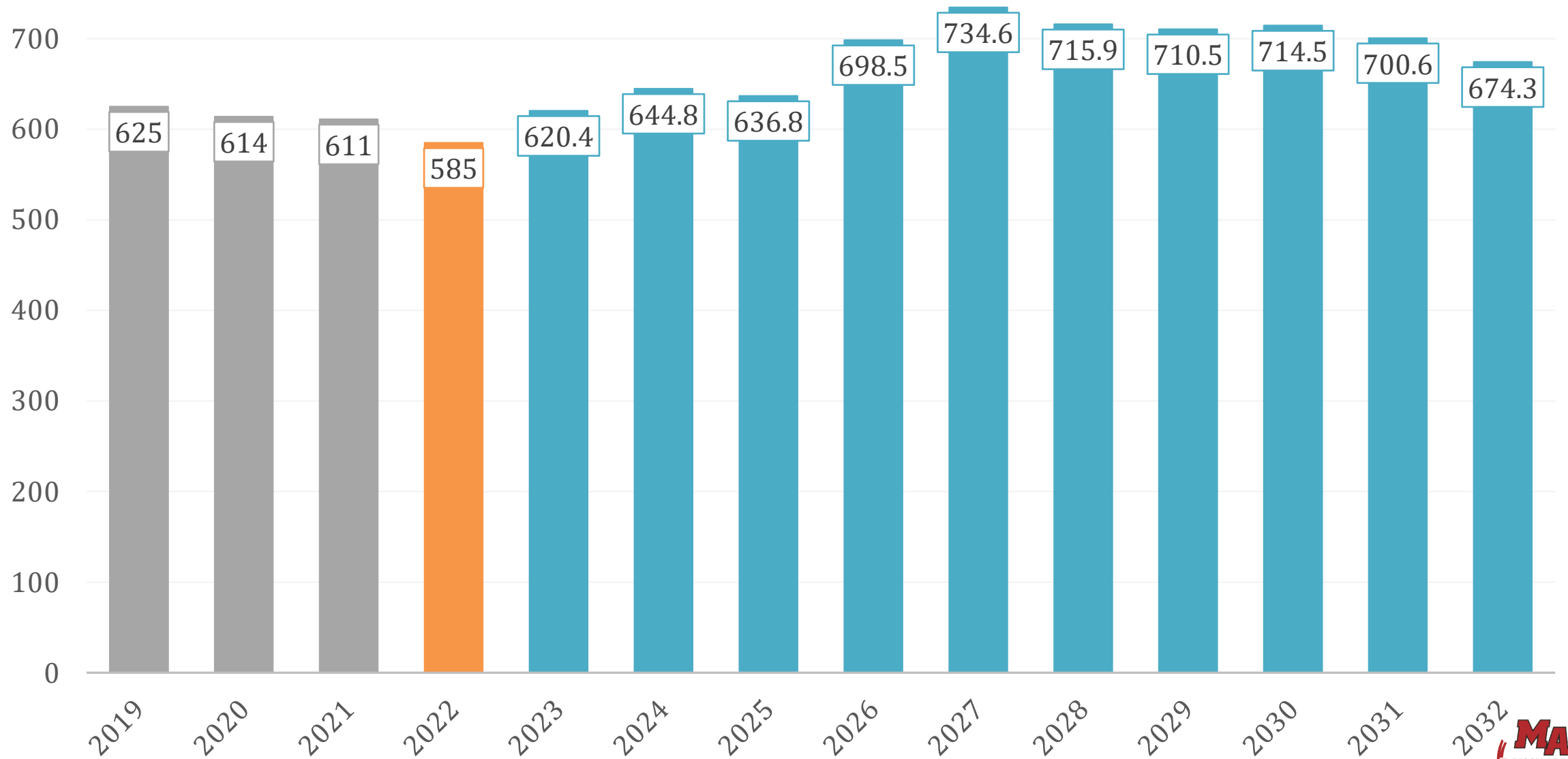


# 5<sup>th</sup> – 6<sup>th</sup> Grade Resident Students

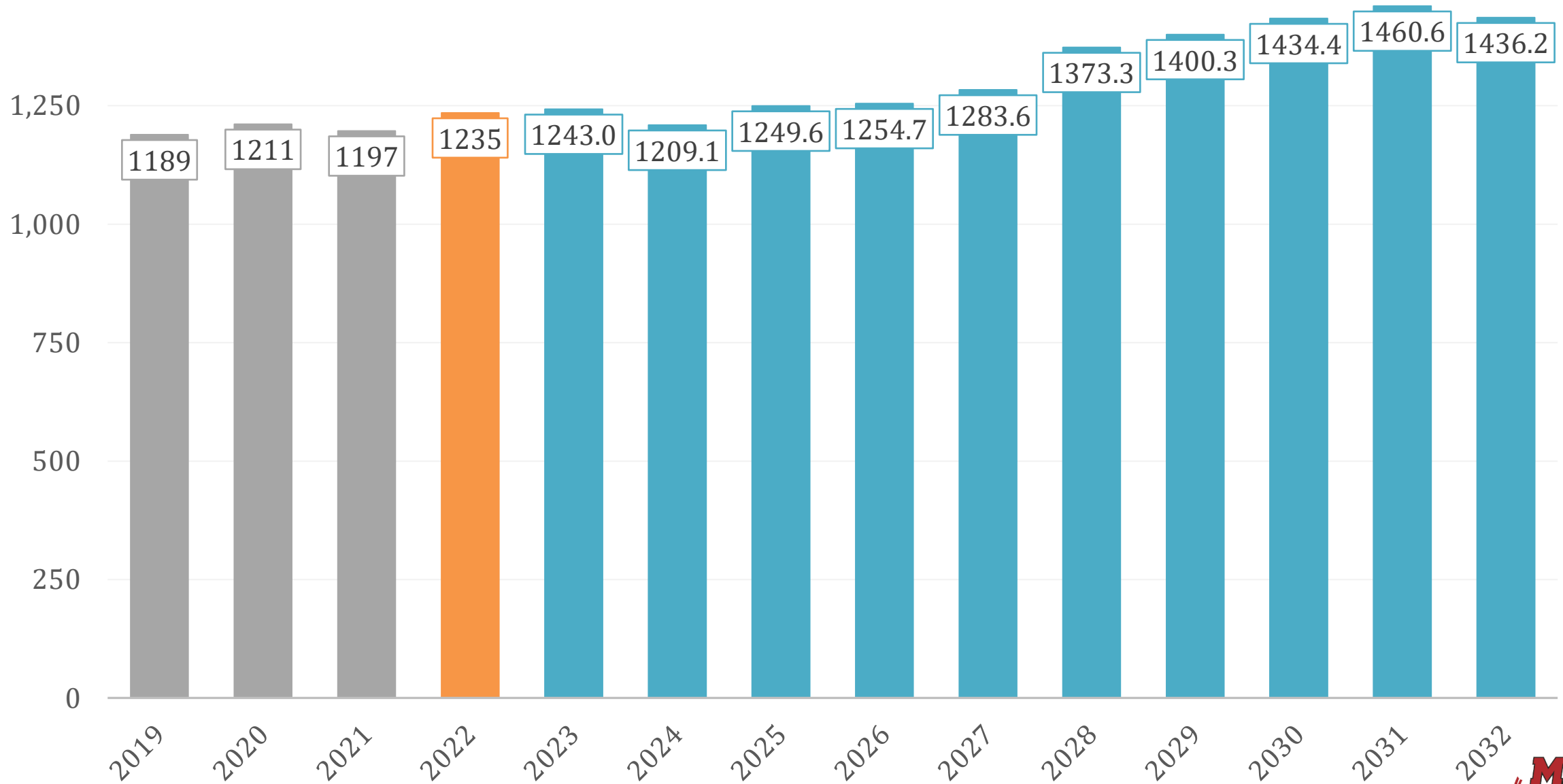




# 7<sup>th</sup> -8<sup>th</sup> Grade Resident Students



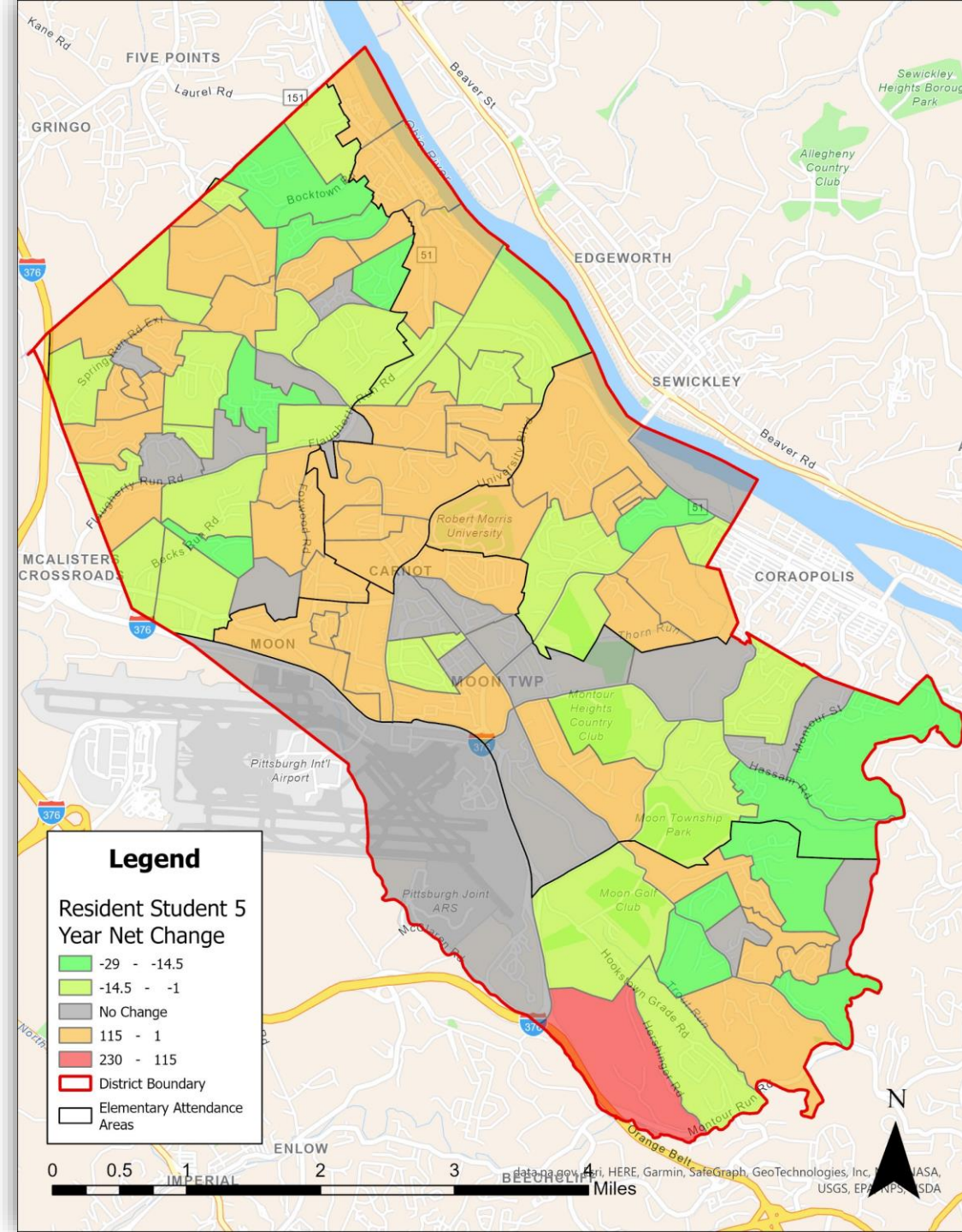
# 9<sup>th</sup> – 12<sup>th</sup> Grade Resident Students





# Resident Student Projected Net Change SY 2022 to 2027

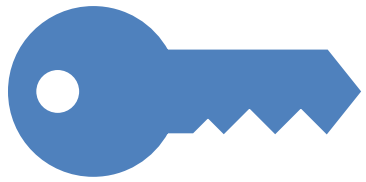
- Study areas with significant loss are darker green, while those with minor loss are light green.
- Gray indicates no net change in the study area.
- Study areas with significant growth are red, while those with minor growth are orange.



Current and  
Forecasted  
Resident  
Student  
Enrollment

	BASE YEAR SY2022-23	FORECAST FIVE YEARS OUT SY2027-28	FORECAST TEN YEARS OUT SY2032-33
PK-4	1,581	1,617.8	1,595.4
5-6	622	685.9	655.3
7-8	585	734.6	674.3
9-12	1,235	1,283.6	1,436.2
PK-12	4,023	4,321.9	4,361.2

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



# Key Items in Districtwide Analysis

- Overall, the student population for Moon Area SD is projected to increase by nearly 300 resident students over the next five years reflecting an increasing rate of 7%.
- The PK-4 resident student population is forecasted to increase 2% over the next 5 years.
- As larger class sizes matriculate through, grades 5-6 are expected to increase approximately 10%, while grades 7-8 are expected to increase 26% over the next 5 years.
- The district high school population is also expected to increase by 4% by SY 2026 as larger class sizes graduate.



Any  
Questions