

Demographic Study
Public School Enrollments
for
Spring-Ford Area School District
857 South Lewis Road, Royersford, PA 19468-2732



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APPENDIX:

- A. Cohort Survival Worksheets
- B. ESI Student Multipliers Report

The Methodology used in projecting enrollments is the recommended method of the Pennsylvania Department of Education (PDE) and is known as "Cohort Survival" or "Grade Level Progression".

The Spring-Ford School District (AGSD) had a student population of over 7,800 students (Oct 2021) in 11 schools, organized as a Grade K-4 Elementary, followed by a Gr 5-7 Middle School, a Grade 8 Center, a Grade 9 Center and a Grade 10-12 High School.

The Constituent Municipalities in the School District include four (4) municipalities, three in Montgomery County; Limerick Township, Upper Providence Township and Royersford Borough, as well as Spring City Borough in Chester County;

Non-Public School enrollment levels start at 17.0% in Kindergarten, and 9.4% in Grade 1-4, increasing to 13.9% in Grades 5-8 and ending at 12.2% in Grades 9-12. Non-Public enrollment grew 153 students per year from 2017 to 2022 or a total of 767 students.

Population Trends are such that the school district area had a population of only 24,264 in 1990 which increased to 52,983 in the peak year of 2020, more than doubling in 30 years.

Population by Age Group from 2010 to 2020 reveals a decrease in Pre-School and School Age groups despite general population growth.

Live Births in the district have been slightly decreasing since year 2005 with a current 6-year average of 471. The 6-year trend is for 10 fewer births per year.

The AGSD, with a year 2020 constituent population of 31,907 continues to grow at a moderately increasing rate.

Historic Residential permitting for new construction was at 614 units in year 2000, and decreased to a recent 6-year average of 178 units per year.

Future Residential Permitting 2022-26 is anticipated to rise above the recent 6-year average to over 500 units per year and include a significant increase in Multi-Family housing.

School Age Children will be generated by this significant increase in anticipated permitting such that 814 students are added to the standard projection based on planned occupancies.

District-wide Enrollment will increase by only 146 students, to just over 8,000 students, despite the influx of 814 students from new housing.

Less accurate 6th to 10th year extended projections are not reported in this summary.

Elementary School Enrollment for Grades K-4 will decrease by 129 students to 2,262, despite the addition of 313 students.

Middle School Enrollments for Grades 5-7 will increase by only 98 students, to 1,964 students, despite the influx of 188 students from new housing.

Grade 8 Enrollments will increase by only 9 students, to 665 students, despite the addition of 63 students from new housing.

Grade 9 Enrollments will increase by only 60 students, to 683 students, with the addition of 63 students from new housing.

High School Enrollments for grades 10-12 will increase by only 109 students, to 2,064 students, despite the influx of 250 students from new housing.

A comparison of future enrollment and building capacity, not including modular classrooms, is as follows;

	DEP Capacity	Utilization	Target Capacity	Enroll 2026	Excess Capacity	Excess %
Elem Schools Gr K-4						
Brooke	488	90%	439	421	18	4%
Evans	674	90%	607	512	95	14%
Limerick	370	90%	333	215	118	32%
Oaks	672	90%	605	502	103	15%
Royersford	464	90%	418	336	82	18%
Spring City	232	90%	209	164	45	19%
Upper Providence	560	90%	504	478	26	5%
	3,460	90%	3,114	2,627	487	
Interm School Gr 5-7						
	2,564	85%	2,179	1,964	215	8%
Middle School Gr 8						
	911	85%	774	665	109	12%
Middle School Gr 9						
	925	80%	740	683	57	6%
High School Gr 10-12						
	2,919	80%	2,335	2,064	271	9%
TOTAL	10,779		9,142	8,002	1,140	

Sundance Associates has been retained by ICS, the Planning Consultant to the Spring Ford Area School District to prepare a demographic study of the district and to project enrollments from school year 2022-23 to school year 2026-27.

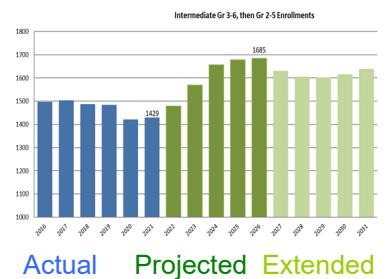
Actual enrollment data (Fall 2016– 2021) is from the official annual October submissions to PDE. Birth data is from the official web site of the Pennsylvania Department of Health.

The actual enrollments for this demographic study begin with the October 1 enrollment reports for the 2016-17 school year and end with the October 1 enrollment reports for 2021-22 school year. In projection graphs, the actual enrollments appear in blue.

The five-year enrollment projections begin with the 2022-23 school year and end with the 2026-27 school year and appear in dark green. The extended and less accurate 6-10 year projection is in light green.

Extensive data and graphics that support understanding of general demographic trends are provided, however, it is important to understand that they are for support purposes only. This projection is made based on Live Births and Historic Enrollment, *the two primary determinants of future enrollments*. The standard projection is then adjusted with an overlay of students from new housing.

The information in this demographic report is suitable for inclusion in any document to be forwarded to the Pennsylvania Department of Education for matters concerning school facilities.



Although many techniques have been used to predict demographic trends including future enrollment, the method most widely employed and accepted for predicting future school enrollment is the “**Cohort-Survival**” method. This method is considered the most reliable. It captures the key determinants of enrollment, yet also allows for changes in historical trends, is relatively simple to apply and the data requirements are reasonable and usually easily fulfilled.

The major assumption underlying the cohort survival method is that the past to a large extent is a reasonable predictor of the future: that is, given the number of births and historical enrollment, the net effect of all other factors remain in relative balance.

However, any of the following factors could cause a significant change in projected student enrollments, and adjustments to the standard methodology may be made for:

- Boundary adjustments, school openings or consolidation
- Changes/additions in program offerings
- Preschool programs
- Change in grade configuration
- General Economic Conditions, Interest rates/unemployment shifts
- Magnet/Charter/Private school opening or closure
- Zoning changes
- New housing activity; planned, but not built, housing
- In and Out-Migration

The cohort-survival method requires the calculation of the ratio of the number of children in one grade in one year compared to the number of children who “survive” the year and enroll in the next grade the following year (see detailed Mathematical Analysis, page 14). Fluctuations in such data from year to year create a pattern over time from which an average rate may be calculated to project enrollment.

The reliability of the cohort-survival method is related to both the number of years one is projecting as well as the relative volatility of the historical data. Projections covering five years or less, especially at the elementary level, tend to be more reliable than projections going out more than five years. In addition, in some communities the numbers of births, population, household size, and net migration rates have held relatively steady which increases the reliability of the results. In other communities, one or more such variables exhibit extreme variation leading to less reliable results.

The major assumption underlying the cohort survival method is that the past to a large extent is a reasonable predictor of the future.

The most important factors are Live Birth counts and historical, grade level Enrollment counts.



The Institute of Educational Sciences, 1997 publication “Accuracy of Enrollment Forecast Methods”, reviews three special-purpose forecasting methods ... and three methods of universal applicability (the cohort-survival, percentage- survival, and law-of-growth methods) to help administrators grasp enrollment forecasting technicalities. *A comparison shows that the cohort-survival method consistently produced lower error rates for each five-year projection for median or mean error rates.*

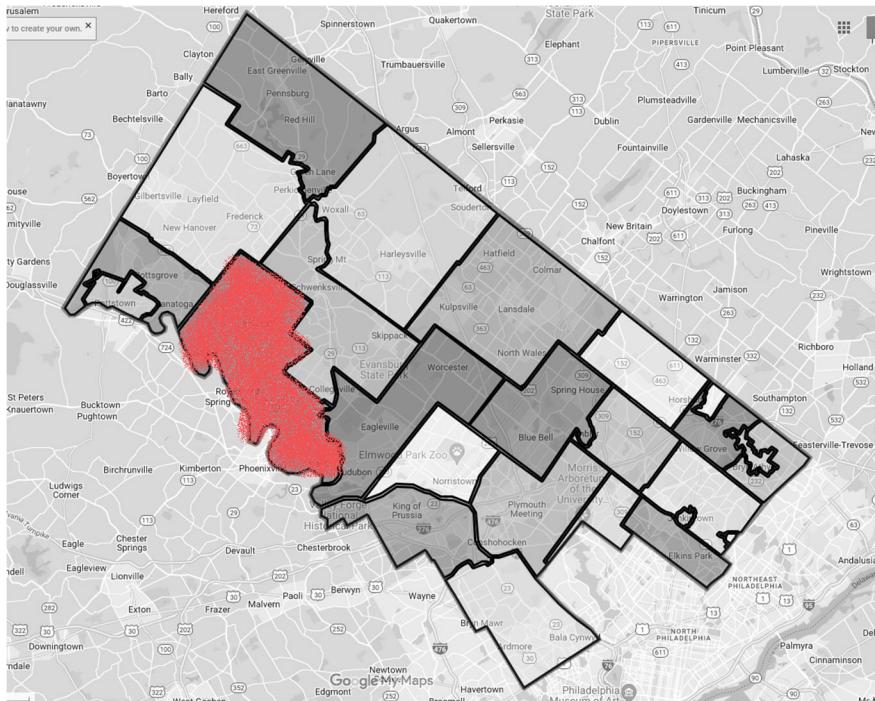
The Spring-Ford Area School District is a K-12 school district based in Montgomery County, Pennsylvania, United States, which expands into Chester County. The District is made up of Limerick Township and Upper Providence Township, along with the boroughs of Royersford and Spring City.

The school district has 7 elementary schools (K-4), a 5-7 grade Middle School, an 8th grade center, a 9th grade center, and a senior high school (10-12).

The growing community of approximately 50,990 straddles the US-422 bypass and offers the best of both a small-town atmosphere and proximity to metropolitan attractions. The district is characterized by small towns, suburban neighborhoods and rural areas, with the name being denoted through the combination of Spring City and Royersford, to make the name Spring-Ford. The location offers easy access to the cultural appeal of Philadelphia, as well as the warmth and nurturing feel of suburban America.

The district is approximately twenty miles northwest of Philadelphia, PA, twenty-five miles south of Reading, PA, and five miles north of Valley Forge, PA.

The district has a combined land area of 44.4 square miles, and the 2020 US Census population of the district is 50,990, compared to 47,368 in 2010 and 36,483 in 2000

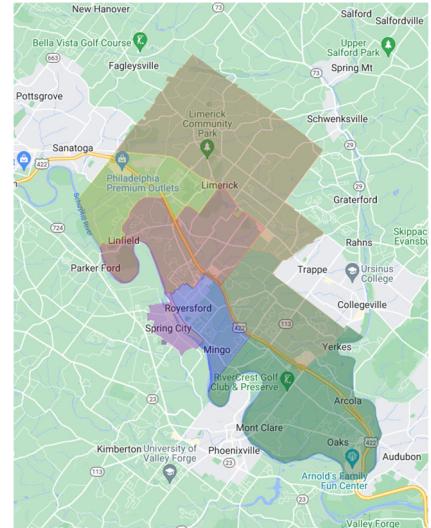
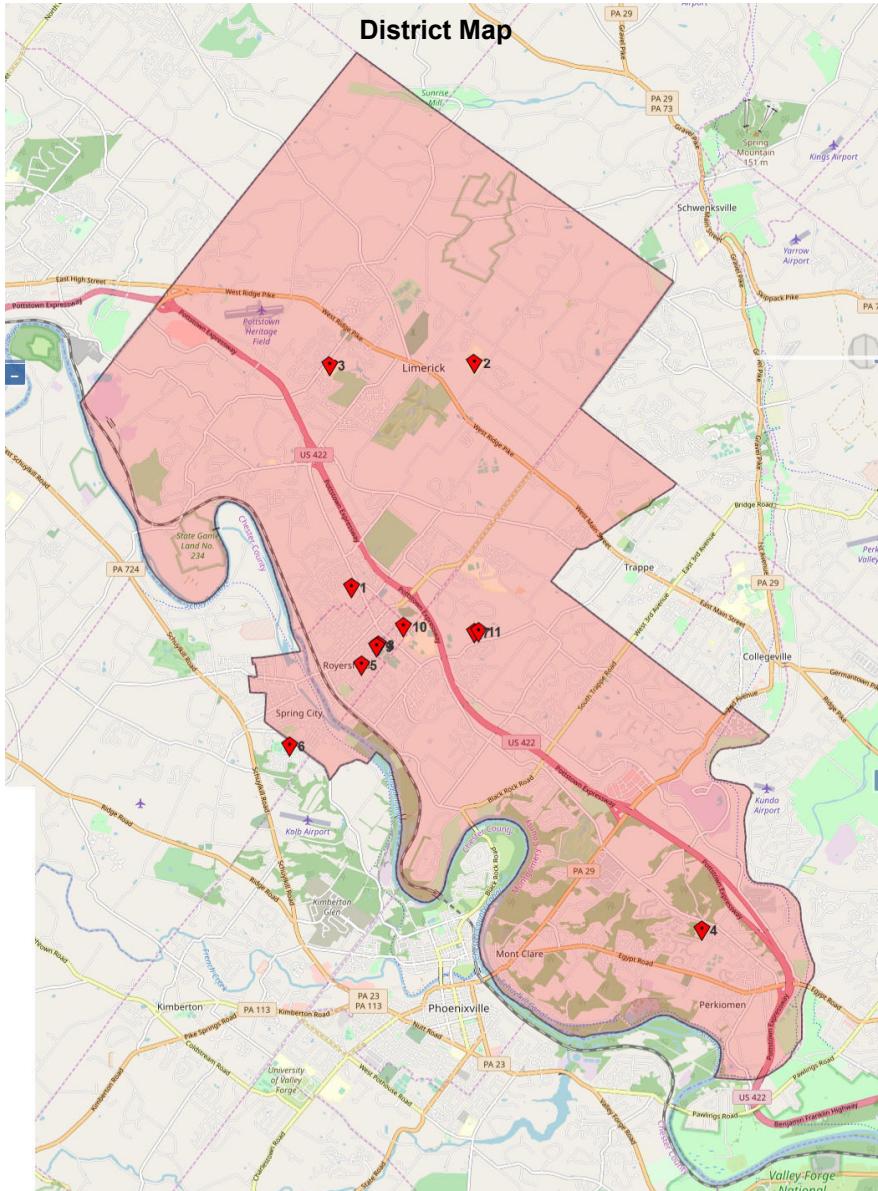


The Spring-Ford Area School District is in north-western Montgomery County extending into Spring City in Chester County.



The Spring-Ford Area School District serves over 7,800 students in grades K-12.

Profile: School District



Seven Elementary School Attendance Areas. Grade 5 and above are district-wide levels.

School	Street	Municipality	Zip	Grade
1 Brooke El Sch	339 N Lewis Rd	Royersford	19468	KG-4
2 Evans El Sch	125 Sunset Rd	Limerick	19468	PK-4
3 Limerick El Sch	81 Limerick Center Rd	Royersford	19468	KG-4
4 Oaks El Sch	325 Oaks School Dr	Oaks	19456	KG-4
5 Royersford El Sch	450 Spring St	Royersford	19468	KG-4
6 Spring City El Sch	190 Wall Street	Spring City	19475	KG-4
7 S-F Intrmd Sch 5th/6th	833 South Lewis Road	Royersford	19468	5-6
8 S-F MS 7th Grade Ctr	833 South Lewis Road	Royersford	19468	7
9 S-S MS 8th Grade Ctr	700 Washington Street	Royersford	19468	8
10 S-F SHS 9-12 Ctr	350 S Lewis Rd	Royersford	19468	9-12
11 Upper Providence El Sch	833 South Lewis Rd Bldg 3	Royersford	19468	KG-4

The following data is an average of the period 2018-20 (latest available) from the American Community Survey 3-Year estimates. The data is presented as the survey collates the information which is not as the District organizes the schools.

Identification as Public or Private is by self selection of the survey responder .

Kindergarten: Public School enrollment is higher than in the County and equivalent with the State.

Elementary: Public School enrollment is significantly higher than in the County or the State.

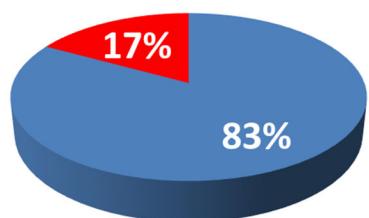
Middle: Public School is significantly higher than in the County and equivalent with the State.

High: Public School enrollment is significantly higher than in the County

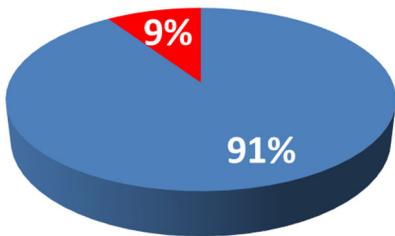
		SFASD	MontCo	Penn
Kindergarten	Public	83.0%	78.6%	83.9%
	Private	17.0%	21.4%	16.1%
Elementary Gr 1-4	Public	90.6%	84.6%	85.6%
	Private	9.4%	15.4%	14.4%
Middle Gr 5-8	Public	86.1%	82.8%	86.0%
	Private	13.9%	17.2%	14.0%
High Sch Gr 9-12	Public	87.8%	79.3%	86.7%
	Private	12.2%	20.7%	13.3%

SOURCE: American Community Survey 2018-20 found at <http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?>

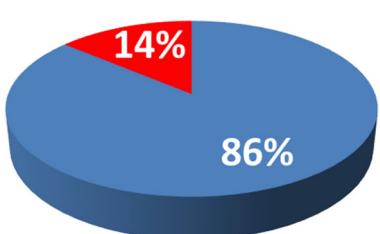
Kindergarten



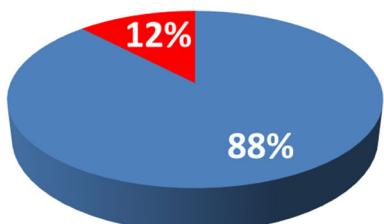
Elementary Gr 1-4



Middle Gr 5-8



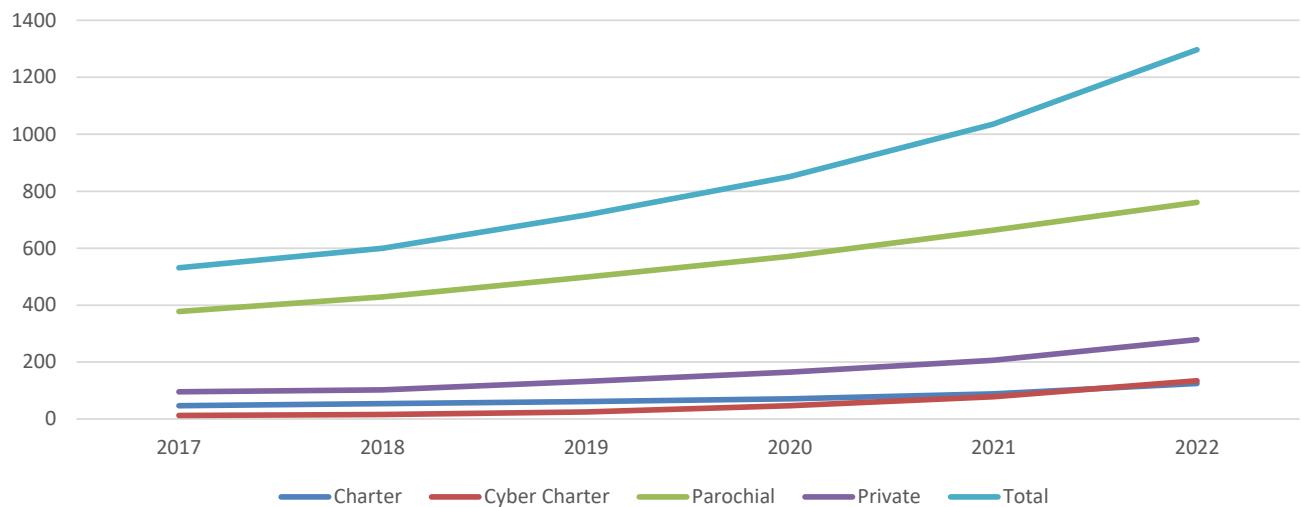
High Gr 9-12



Non-Public Schools
Comparative Enrollment 2017-22

	2017	2018	2019	2020	2021	2022	6-Year Increase	
Charter	46	54	61	70	88	124	78	170%
Cyber Charter	12	15	25	46	78	134	122	1017%
Parochial	377	428	498	571	663	760	383	102%
Private	95	102	132	164	206	279	184	194%
Total	530	599	716	851	1035	1297	767	145%

Non-Public Enrollment



All categories of Non-Public Schools have experienced significant growth since 2017.

Charter schools grew by a 5-year average of 15 students per year.
 Cyber Charter schools grew by a 5-year average of 31 students per year.
 Parochial schools grew by a 5-year average of 76 students per year.
 Private schools grew by a 5-year average of 37 students per year.

Local impacting schools might include;

Pope John Paul II, a regional High School in Royersford that enrolls 825 students, up from 600 in year 2000.

Sacred Heart School, also in Royersford, closed in 2012. Some students were then enrolled in **Holy Cross Regional** (K-8) in Collegeville that enrolls 189 students down from 265 in 2000.

Valley Forge Baptist Academy in Collegeville (PK-12) that enrolls 210 students, is up from 110 in year 2000.



Population Growth

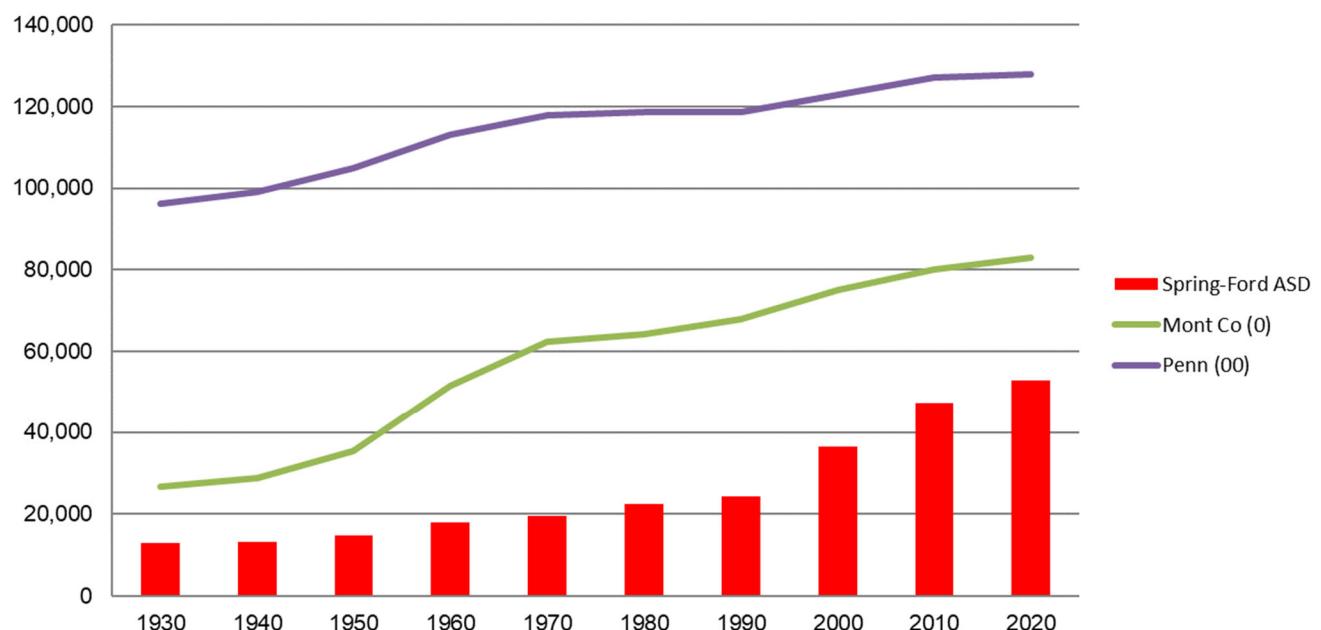
Comparative School District,
County and State

The SFASD population was 52,983 persons, as of the US Census 2020,
up by 5,615 (11.9%) from 47,368 in 2010.

*The SFASD population was 52,983
persons as of the US Census 2020.*

	1930	1940	1950	1960	1970	1980	1990	2000	2010	2020
Spring-Ford ASD	12,906	13,291	14,896	17,848	19,571	22,481	24,264	36,483	47,368	52,983
Montgomery Co	265,804	289,247	353,068	516,682	623,799	643,621	678,111	750,097	799,884	830,915
Pennsylvania	9,631,350	9,900,180	10,498,012	11,319,366	11,793,909	11,863,895	11,881,643	12,281,054	12,702,379	12,801,989

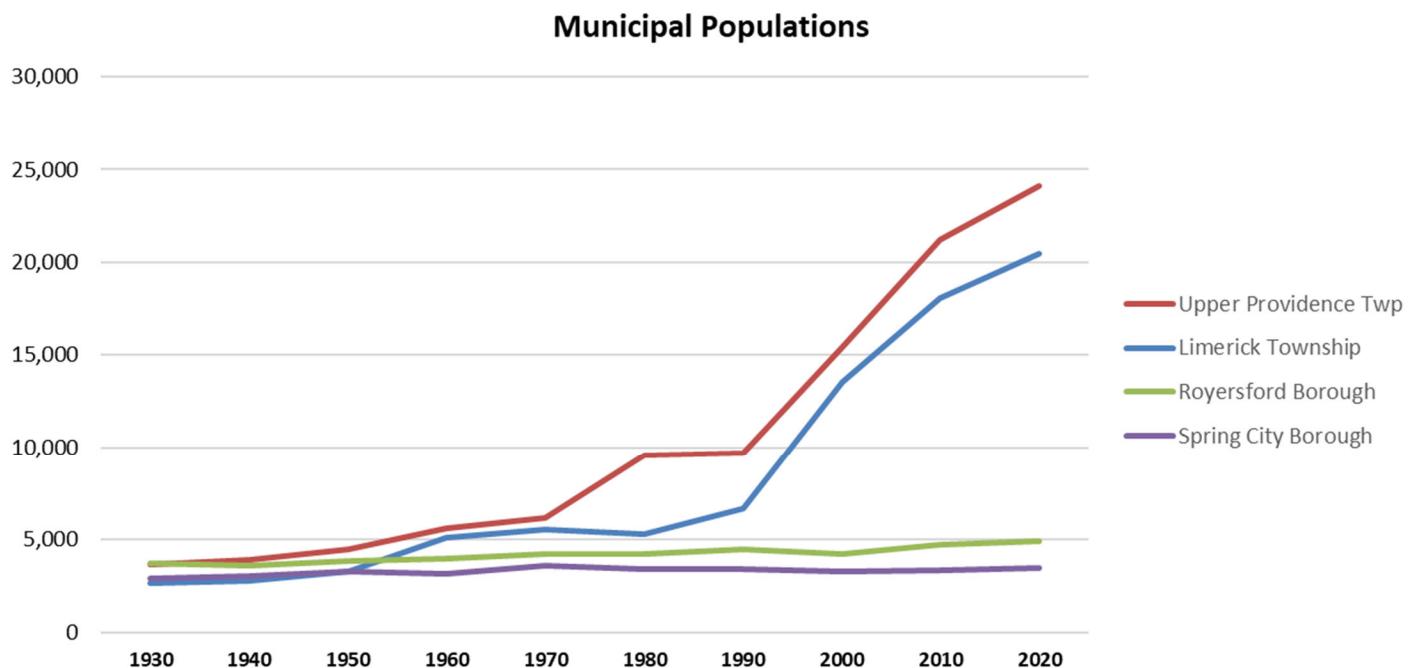
Local-County-State Comparative Population





Population Growth Municipal Comparation

	1930	1940	1950	1960	1970	1980	1990	2000	2010	2020
Limerick Township	2,656	2,769	3,290	5,110	5,556	5,298	6,691	13,534	18,074	20,458
Upper Providence Twp	3,628	3,895	4,486	5,607	6,202	9,551	9,682	15,398	21,219	24,091
Royersford Borough	3,719	3,605	3,862	3,969	4,235	4,243	4,458	4,246	4,752	4,940
Spring City Borough	2,903	3,022	3,258	3,162	3,578	3,389	3,433	3,305	3,323	3,494
	12,906	13,291	14,896	17,848	19,571	22,481	24,264	36,483	47,368	52,983



Upper Providence Township and Limerick Township populations began their increase in the 1980's and surged dramatically after 1990.

Since 1930 Royersford grew by 1,221 persons, and Spring City grew by 591 persons, not even doubling population over the 90 years.



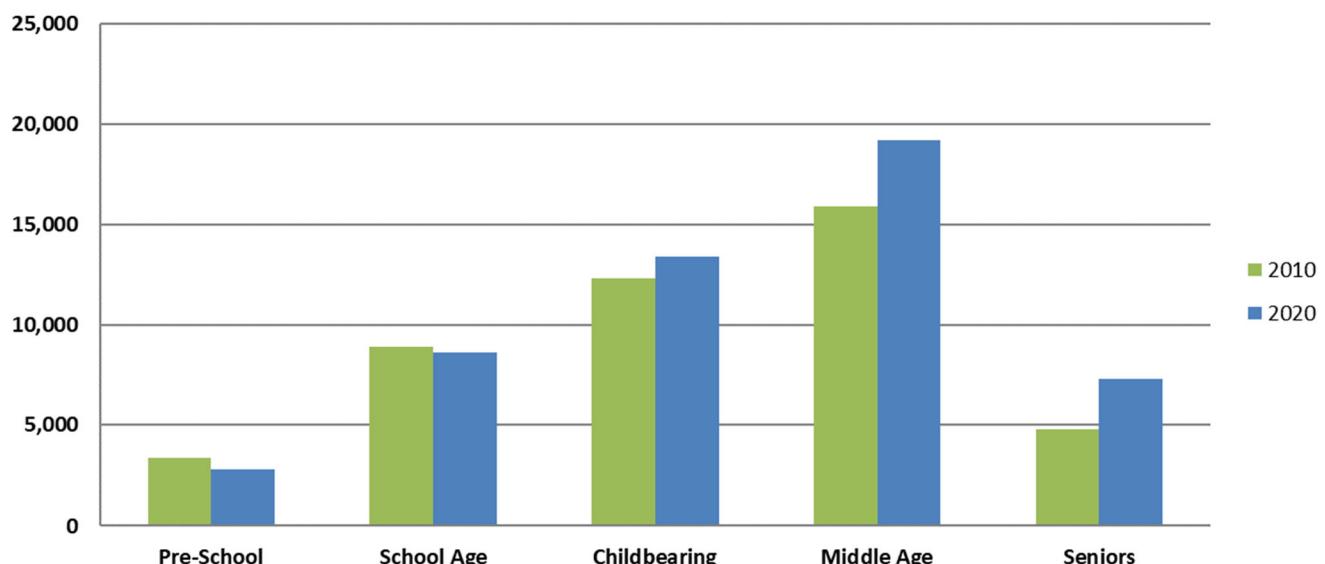
Comparative Population by Age Groups

School District: 2010-2020

	Age	2010	2020
Pre-School	0-4	3,373	-596
School Age	5-17	8,949	-293
Childbearing	18-39	12,360	1,057
Middle Age	40-64	15,918	3,301
Seniors	65 +	4,815	2,487
		45,415	51,371

	Percents	2010	2020
Pre-School	7.4%	5.4%	
School Age	19.7%	16.8%	
Childbearing	27.2%	26.1%	
Middle Age	35.0%	37.4%	
Seniors	10.6%	14.2%	
	100.0%	100.0%	

Population by Age Group: 2010 & 2020



Pre School Age decreased by an average of 59 per year between 2010 and 2020 in advance of an enrollment decline.

School Age Group decreased by an average of 29 per year from 2010 to the 2020, evidencing an enrollment decrease.

Childbearing Age increased by an average 105 per year from 2010 to the 2020. Nonetheless, Births have been decreasing.

Middle Age increased by an average of 330 per year from 2010 to the 2020.

Seniors, increased by an average of 481 per year from 2010 to the 2020.



District Annual Births

The number of babies born to families who reside in the district is a significant factor effecting enrollments. Birth counts from "5 years earlier" are used for the "Birth to Kindergarten" Survival Ratios in the standard Cohort Survival projection method. Births are the starting point for all cohorts in every year.

Combined Births in the area municipalities have decreased slightly for the last 3 years of the 6-year projection period. The 6-year trend, is perhaps more indicative of recent levels of birth. The 6-year trend is for about 10 fewer births every year (green line).

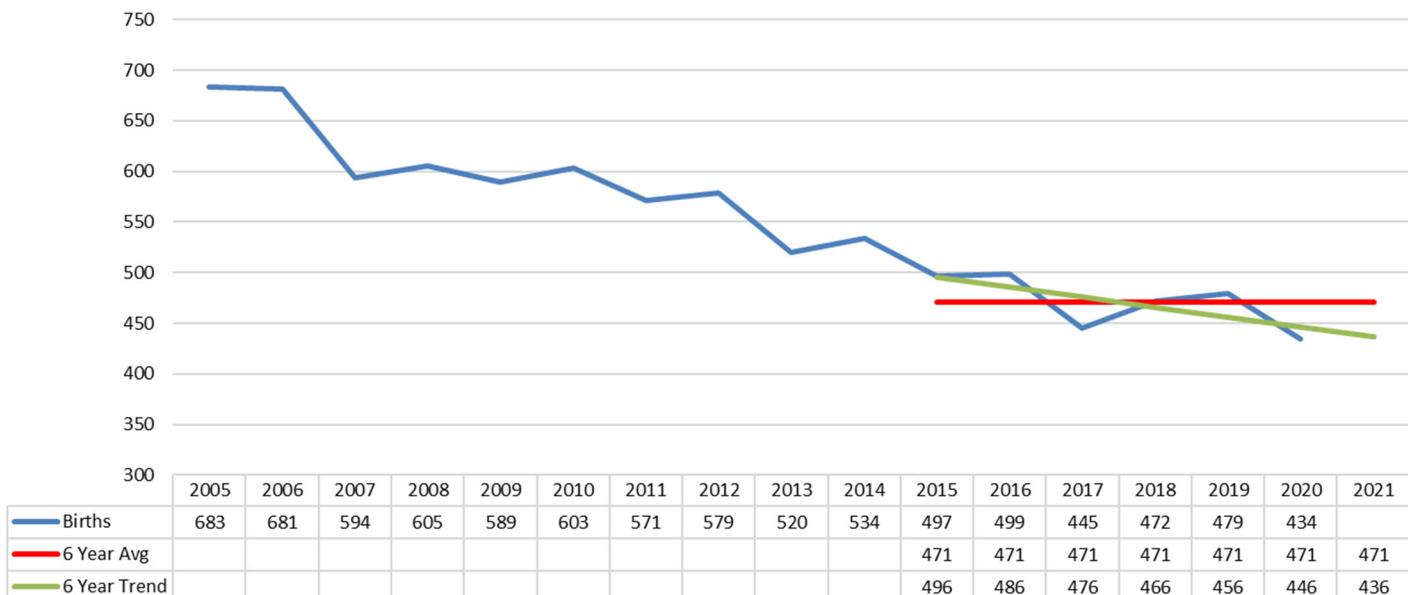
However births could easily turn around and start an increase. It is for that reason that **the Cohort Survival methodology is based on averages.** The 6-year average is from the same years as the 6-years of actual enrollments that is the basis of the Cohort Survival projection used in this study. The 6-year average is 471 births per year (red line).

Actual Births are used for the first 4 years of the projection. Only the 5th thru 10th years use the average.

Births have been averaging 471 per year for the last 6 years paralleling the last 6 years of actual enrollment data on which the projection is based.

The 6-year trend is for about 10 fewer births per year.

Births: Spring-Ford ASD



SOURCE: Births Data from Pa Department of Health found at <http://www.statistics.health.pa.gov/Pages/default.aspx#.VckGXzZRGUk>

The 6-year **Trend** is for 10 fewer births each year, and if continued for 5 years could cause a decrease of as many as 45 additional students to the Kindergarten class by school year 2030-31 (at a Birth to Kindergarten Survival Rate of 0.916, the current rate by the standard method).



Municipal Annual Births

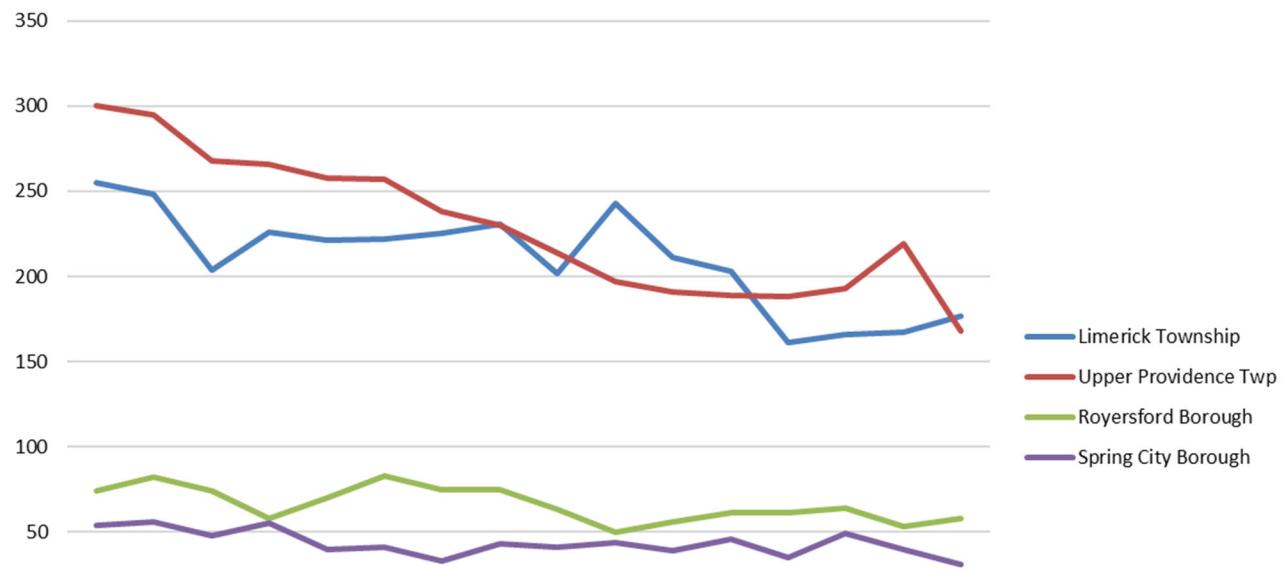
Live Births in each contributing municipality are provided below.

Live Births are generally trending **lower** in Limerick where Births are trending 23.5 fewer per year.

Births are generally trending **higher** in Upper Providence where Births are trending 21.3 more per year, and in Spring City where Births are trending 4.6 more per year.

Births are **stable** in Royersford where Births are trending 0.3 fewer per year.

Municipal Populations



Source: Pa Dept. of Health at http://www.portal.state.pa.us/portal/server.pt/community/health_statistics_and_research/11599



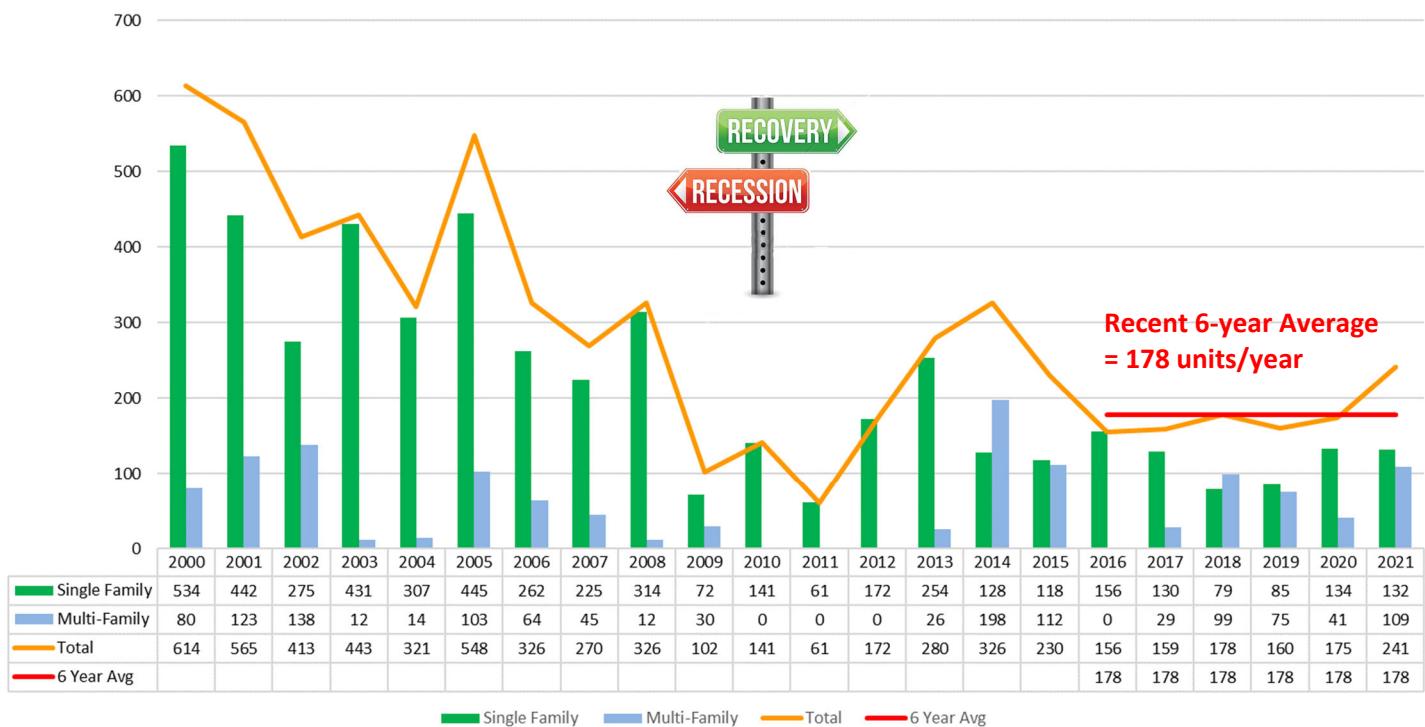
Residential Permitting History for New Construction

A Building Permit is obtained by a developer after approval of a major sub-division, and when construction of a "next phase" of residential units is eminent. Residential Building Permits are often correlated with population growth in a community.

As with the nation, residential development in the District had been depressed for several years prior to 2008. The southeastern PA economy, however, is reported to be in recovery.

Residential permitting for Multi-family units has been a 6-Year Average of 58 units per year.

Residential Building Permits by Type



SOURCE: <http://socds.huduser.org/permits/index.html> and Local Planning Officials

The recent 6-year average of all Residential Building Permits is 178 units per year of which 67% or an average of 119 per year are for Single Family units.

Limerick Township accounts for 92.6% of Multi-family housing in the last 6 years, with Upper Providence at 6% and with Royersford Borough at a very distant third with 1%. Spring City contributed no Multi-family housing in the last 6 years.





Residential Permitting History by Municipality

Upper Providence Township averaged 92 Single Family and 4 Multi-family units over the last 6 years. Permitting is increasing in Upper Providence.

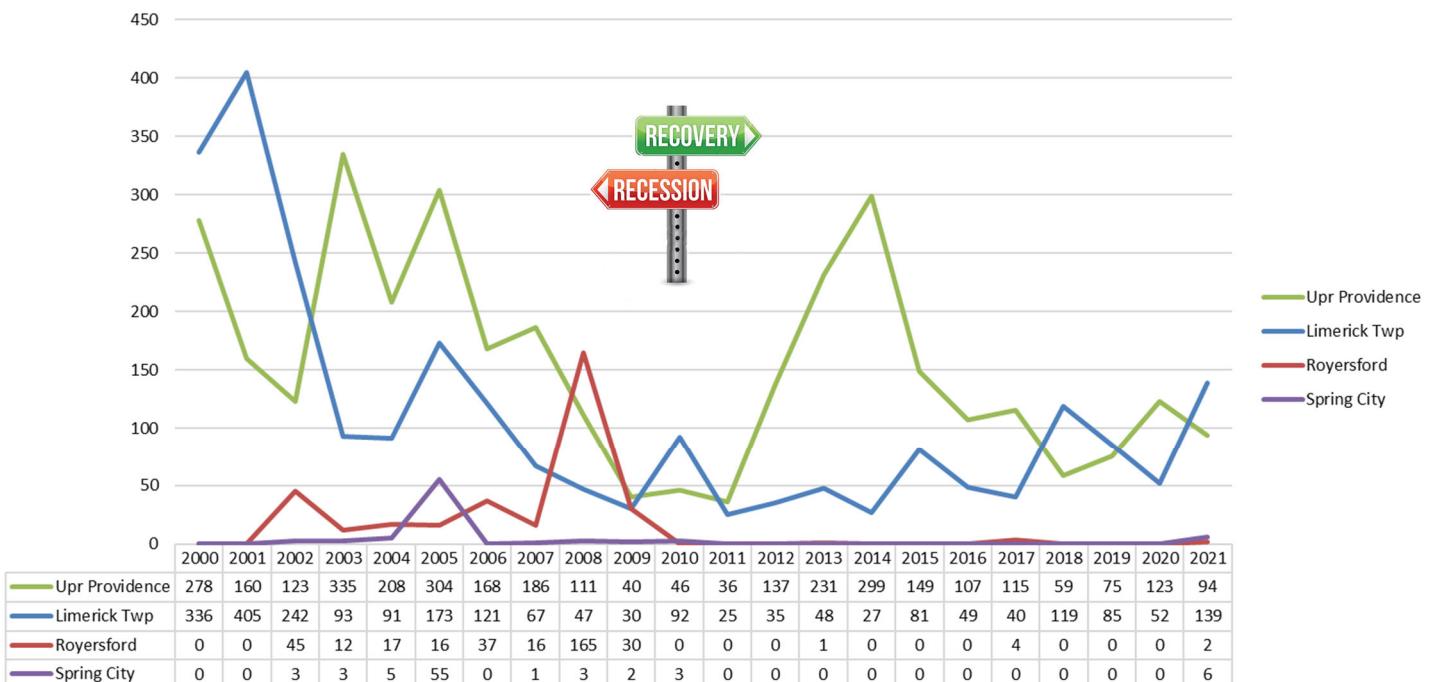
Limerick Township averaged 26 Single Family and 55 Multi-family units over the last 6 years.

Royersford Borough averaged less than 1 Single Family and 1 Multi-family units over the last 6 years.

Spring City Borough averaged 1 Single Family and 0 Multi-family units over the last 6 years.

Residential permitting for Multi-family units has been a 6-Year Average of 58 units per year.

Residential Permits by Municipality



SOURCE: <http://socds.huduser.org/permits/index.html> and Local Planning Officials



Residential Permitting for New Construction

Future Housing Occupancy by Unit Type & Year

Development/Status	Type	Bdrms	Unit Count	Sold	2022	2023	2024	2025	2026	5 Yr Total	Elem Sch
Limerick Twp											
1 Sukonik Limerick Homes <i>School Rd</i>	SF	3-4 Bdrms	51		20	20	11			51	Evans
2 Approved SF X 5 <i>Misc. Locations</i>	SF	3-4 Bdrms	12		6	6				12	
3 Limerick Town Ctr <i>Swamp Pike</i>	TH	2 Bdrm	10				10			10	Evans
	TH	3 Bdrm	20				20			20	Evans
4 Gambone <i>614 W. Ridge Pike</i>	Apt	2 Bdrm	8				8			8	Limerick
5 Piazza Realty Co. Inc. <i>3373 Ridge Pike</i>	TH	3 Bdrm	19				19			19	Evans
6 544 Limerick Center Rd. <i>544 Limerick Center Road</i>	SF	3-4 Bdrms	10				10			10	Limerick
7 Ironwood <i>S. Limerick Road</i>	TH	2 Bdrm	25				12			25	Brooke
	TH	3 Bdrm	70				35			70	Brooke
8 RML Construction <i>Game Farm Road</i>	SF	3-4 Bdrms	4				4			4	Evans
9 Neiffer Road Devel., LLC <i>1 & 15 Neiffer Road</i>	TH	2 Bdrm	10				10			10	Evans
	TH	3 Bdrm	24				24			24	Evans
10 Saratoga Springs (Metro Con Apts <i>Evergreen Road</i>		1 Bdrm	45				15			45	Brooke
		2 Bdrm	257				85			257	Brooke
		3 Bdrm	30				10			30	Brooke
11 MacMichael & Celli Tracts <i>511 & 523 Linfield Road</i>	TH	2 Bdrm	6				6			6	Brooke
	TH	3 Bdrm	35				35			35	Brooke
Limerick Township										636	
Royersford Borough											
12 Riverwalk	TH	2 Bdrm	48		24	24				48	Spring City
	TH	3 Bdrm	140		70	70				140	Spring City
Royersford Total										188	

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Residential Permitting for New Construction

Future Housing Occupancy by Unit Type & Year

Development/Status	Type	Bdrms	Unit Count	Sold	2022	2023	2024	2025	2026	5 Yr Total	Elem Sch
Upper Providence											
13 Gambone Developers <i>615 Egypt Rd.</i>	TH	3 Bdrm	49	19	15	15				30	Oaks ES
14 Jim Terra Devel <i>188 Bechtel Rd.</i>	SF	3-4 Bdrms	8	1	3	4				7	Upr Prov ES
15 Founders Estates (Barker) <i>116 Hess Rd.</i>	SF	3-4 Bdrms	16		4	4	4	4		16	Upr Prov ES
16 Oxford Lea (Stearly) <i>395 Greenwood Ave</i>	SF	3-4 Bdrms	17		6	6	5			17	Evans ES
17 Res at Prov Town Ctr <i>Arcola Rd & Water Loop Rd.</i>	Apts	1 Bdrm	250		125	125				250	Upr Prov ES
	Apts	2 Bdrm	250		125	125				250	
	Apts	3 Bdrm	<u>85</u>		42	43				85	
18 172 Hopwood (Galman) <i>Hopwood Rd & Morgan Lane</i>	TH	3 Bdrm	48				48			48	Upr Prov ES
19 Yerkes Station <i>Hopwood Road and Route 29/Collegeville Rd</i>	Apts	1 Bdrm	103		52	51				103	Oaks
	Apts	2 Bdrm	103		52	51				103	
	Apts	3 Bdrm	<u>22</u>		11	11				22	
20 PRDC Kline Road <i>Kline and Linfield Trappe Roads</i>	SF	3-4 Bdrms	30		15	15				30	Evans
21 Meadows at Longview (WE) <i>Greenwood Ave & Knoll Circle</i>	SF	3-4 Bdrms	25		12	13				25	Evans
22 Toll Brothers / Foley <i>Rittenhouse and Hess Roads</i>	SF	3-4 Bdrms	54				27	27		54	Upr Prov ES
23 South Lewis Road Townhou <i>Lewis and Vaughn Roads</i>	TH	3 Bdrm	21				21			21	Royersford
24 Amelia Street Townhomes <i>Amelia Street and Route 29/Collegeville Road</i>	TH	3 Bdrm	8					8	8	8	Oaks
25 Parkhouse Resident Care <i>Age-Restricted</i>	MXD		1,203							0	

Upper Providence Total

1,069

Spring City Borough

26 Spring Hill Villages-Lennar	TH	3 Bdrm	74	0	37	37				74	Spring City
	CH	3 Bdrm	62	8	18	18	18			54	Spring City
	SF	3-4 Bdrms	36	8	10	10	8			28	Spring City
27 Spring Hill Vill-Ph 2 <i>(Hunsberger Tract)</i>	SF	4 Bdrms	30				15	15		30	Spring City

Spring City Total

186

Grand Total

2,079





Student Multipliers for Unit Types

Spring-Ford ASD

Multipliers for New Public School Age Students

Multiplier
Public SAC

Type # Bdrms (School Age Children)

SF/CH 3 Bdrm 0.328
SF/CH 4 Bdrm 0.721

TH-Dplx 2 Bdrm 0.234
TH-Dplx 3 Bdrm 0.501

Apts 1 Bdrm 0.023
Apts 2 Bdrm 0.241
Apts 3 Bdrm 0.873



Source: CDA Planning Ratio Estimation Program (PREP) and 2014-2018 ACS-PUMS

Multipliers for Public School Attendees are a custom analysis of the most recent 4 years of the American Community Survey at a local level including Montgomery County and parts of Berks and Chester County with similar characteristics with the SDASD.

The sampling is for Newly Moved-in Households, not just newly built units.

These Multipliers by Type and Bedrooms are applied to the unit counts to determine student yield for individual Developments and approximate Occupancy dates. This analysis is presented on the following page.



Student Yield from New Construction

Student Yield by Unit Type & Year

Project	Type	Bdrms	PSAC/Unit Multiplier						5 Yr Total	Elementary School
				2022	2023	2024	2025	2026		
Limerick Twp										
1 Sukonik Limerick Homes <i>School Rd</i>	SF	3-4 Bdrms	0.721	14.42	14.42	7.93			36.8	Evans
2 Approved SF X 5 <i>Misc. Locations</i>	SF	3-4 Bdrms	0.721	4.33	4.33				3.0	Evans
									3.0	Limerick
									3.0	Brooke
3 Limerick Town Ctr <i>Swamp Pike</i>	TH	2 Bdrm	0.234		2.34				2.3	Evans
	TH	3 Bdrm	0.501		10.02				10.0	Evans
4 Gambone <i>614 W. Ridge Pike</i>	Apt	2 Bdrm	0.241		1.93				1.9	Limerick
5 Piazza Realty Co. Inc. <i>3373 Ridge Pike</i>	TH	3 Bdrm	0.501			9.52			9.5	Evans
6 544 Limerick Center Rd. <i>544 Limerick Center Road</i>	SF	3-4 Bdrms	0.721			7.21			7.2	Limerick
7 Ironwood <i>S. Limerick Road</i>	TH	2 Bdrm	0.234		2.81	3.04			5.9	Brooke
	TH	3 Bdrm	0.501		17.54	17.54			35.1	Brooke
8 RML Construction <i>Game Farm Road</i>	SF	3-4 Bdrms	0.721		2.88				2.9	Evans
9 Neiffer Road Devel., LLC <i>1 & 15 Neiffer Road</i>	TH	2 Bdrm	0.234			2.34			2.3	Evans
	TH	3 Bdrm	0.501			12.02			12.0	Evans
10 Saratoga Springs (Metro Con <i>Evergreen Road</i>	Apts	1 Bdrm	0.023		0.35	0.35	0.35		1.0	Brooke
	Apts	2 Bdrm	0.241		20.49	20.73	20.73		61.9	Brooke
	Apts	3 Bdrm	0.873		8.73	8.73	8.73		26.2	Brooke
11 MacMichael & Celli Tracts <i>511 & 523 Linfield Road</i>	TH	2 Bdrm	0.234			1.40			1.4	Brooke
	TH	3 Bdrm	0.501			17.54			17.5	Brooke
Limerick Township								243		
Royersford Borough										
12 Riverwalk	TH	2 Bdrm	0.234		5.62	5.62			11.2	Spring City
	TH	3 Bdrm	0.501		35.07	35.07			70.1	Spring City
Royersford Total								81		

Cont'd next page



Student Yield from New Construction

Future Public School Children by Unit Type & Year

Project	Type	Bdrms	PSAC/Unit Multiplier	2022			2023			2024			5 Yr Total		Elementary School
				2022	2023	2024	2025	2026	2022	2023	2024	2025	2026	2022	
13 Gambone Developers <i>615 Egypt Rd.</i>	TH	3 Bdrm	0.501	19	7.5	7.5								15.0	Oaks ES
14 Jim Terra Devel <i>188 Bechtel Rd.</i>	SF	3-4 Bdrms	0.721	1	2.2	2.9								5.0	Upr Prov ES
15 Founders Estates (Barker) <i>116 Hess Rd.</i>	SF	3-4 Bdrms	0.721		2.9	2.9	2.9	2.9						11.5	Upr Prov ES
16 Oxford Lea (Stearly) <i>395 Greenwood Ave</i>	SF	3-4 Bdrms	0.721		4.3	4.3	3.6							12.3	Evans ES
17 Res at Prov Town Ctr <i>Arcola Rd & Water Loop Rd.</i>	Apts	1 Bdrm	0.023		2.9	2.9								5.8	Upr Prov ES
	Apts	2 Bdrm	0.241		30.1	30.1								60.3	Upr Prov ES
	Apts	3 Bdrm	<u>0.873</u>		36.7	37.5								74.2	Upr Prov ES
18 172 Hopwood (Galman) <i>Hopwood Rd & Morgan Lane</i>	TH	3 Bdrm	0.501				48.0							48.0	Upr Prov ES
19 Yerkes Station <i>Hopwood Road and Route 29/College</i>	Apts	1 Bdrm	0.023		1.2	1.2								2.4	Oaks
	Apts	2 Bdrm	0.241		12.5	12.3								24.8	Oaks
	Apts	3 Bdrm	<u>0.873</u>		9.6	9.6								19.2	Oaks
20 PRDC Kline Road <i>Kline and Linfield Trappe Roads</i>	SF	3-4 Bdrms	0.721		10.8	10.8								21.6	Evans
21 Meadows at Longview (WE) <i>Greenwood Ave & Knoll Circle</i>	SF	3-4 Bdrms	0.721		8.7	9.4								18.0	Evans
22 Toll Brothers / Foley <i>Rittenhouse and Hess Roads</i>	SF	3-4 Bdrms	0.721				19.5	19.5						38.9	Upr Prov ES
23 South Lewis Road Townhou <i>Lewis and Vaughn Roads</i>	TH	3 Bdrm	0.501				10.5							10.5	Royersford
24 Amelia Street Townhomes <i>Amelia Street and Route 29/Collegeville Road</i>	TH	3 Bdrm	0.501				4.0							4.0	Oaks
25 Parkhouse Resident Care <i>Age-Restricted</i>	MXD													0.0	

Upper Providence Total

372

Spring City Borough															
26 Spring Hill Villages-Lennar	TH	3 Bdrm	0.501	0	18.54	18.54								37.1	Spring City
	CH	3 Bdrm	0.721	8	12.98	12.98	12.98							38.9	Spring City
	SF	3-4 Bdrms	0.721	8	7.21	7.21	5.77							20.2	Spring City
27 Spring Hill Vill-Ph 2	SF	4 Bdrms	0.721				10.82	10.82						21.6	Spring City

Spring City Total

118

Grand Total

814





Cohort Survival Methodology

Mathematical Analysis

Cohort Survival is the name given to the method of projecting enrollments which is recommended by the Pennsylvania Department of Education. The most important terms, concepts and methodology are illustrated herein.

Cohort Survival projections are based on historic enrollment and birth data in the individual school district and incorporate six years of demographic data. They are considered very reliable where trends are expected to continue, without significant change in housing or birth rates.

Cohort is the name given to the common groups of children originally born in a given year and progressing, together, through the school system, one grade level to the next.

Survival Ratios refer to the number of students from one year and grade level who “survive to” or enter the next grade level the following year.

For example, in the sample partial table in the side bar, historic enrollments show 328 students in 1st Grade in year 2013-14, following a 289 student Kindergarten in year 2012-13. This yields a Kindergarten to First Grade **Survival Ratio** of 1.135 (or $328 \div 289$). Another expression of the Survival Ratio would be that 113% of the Kindergarten students “survived” to 1st Grade.

Similar calculations are made for “survival” from Births Five Years Earlier to Kindergarten, and for each and every grade level transition in each and every year of historical enrollments which are used. In general, six years of historic data will yield five Survival Ratios for each grade level change, Birth to K, K to 1, 1 to 2, etc.

The **Average Survival Ratio** is then calculated for each grade level change. In the side-bar example 1.165 is the 6-year average Kindergarten to Grade 1 ratio and 1.051 is the 6-year Grade 1 to Grade 2 Survival Ratio.

The sample projections use the past school year 2016-17 enrollments, at the bottom of the Historic chart, as a base year. The Average Cohort Survival Ratios are applied to those base year enrollments and to the actual and estimated births, and projected into the next year, one grade level higher.

In the side-bar example 331 Kindergarten students in 2018-19 survive at a rate of 1.165 as a 2019-20 First Grade of 386 students. This similar projection is made across all grade levels for a 5-year period. Finally, the individual grade level enrollment projections are summed across each year to determine district-wide enrollments in that year.

Enrollment projections have been made using the Cohort Survival method.

Historic Enrollments

School Year	Births		1st Gr.	2nd Gr.	3rd Gr.
	Sch	5 Sch Yrs.			
	K	"s"			
2011-12	169	1538	260	308	327
2012-13	175	1651	289	313	338
2013-14	132	2,091	276	328	319
2014-15	131	1916	251	308	340
2015-16	143	1720	246	290	327
2016-17	187	1545	289	299	302
6 Yr Avg SR		1,744			
			1.165	1.051	1.043

Projected Enrollments

5-YR PROJECTIONS		323	337	314	315
2017-18	185	1744	165	1051	1043
2018-19	190	1744	331	376	354
2019-20	187	1744	165	1051	1043
2020-21	181	1744	326	386	395
2021-22	186	1744	165	1051	1043
			316	380	406
			165	1051	1043
			324	368	399
					423





Cohort Survival Methodology

Adjustments and Distribution to
Elementary Attendance Areas

Residential Construction

An adjustment is made for accelerated housing construction. Schedules of new housing units by project were documented on pages 14-15. Schedules of Student Yield from New Housing are found on page 17-18.

Students are added to the standard projection in an overlay method for each year, equally divided across 13 grade levels and those added students are then “survived” to the next year at the district’s grade level Survival Rates. The following years’ Student Yield is added and the overlay process repeats.

Modifications were made to the Standard projection for the impact of additional students from Residential Developments.

New Students by Elementary Attendance Area

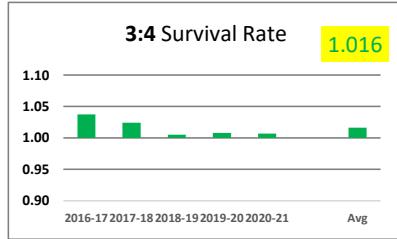
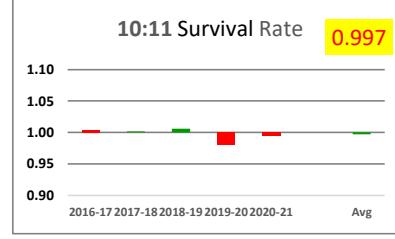
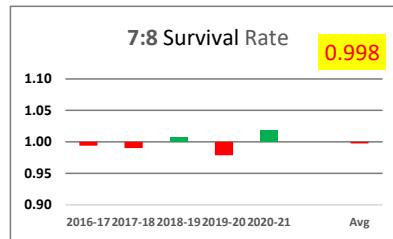
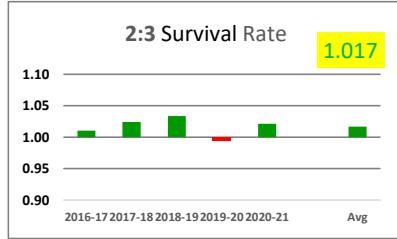
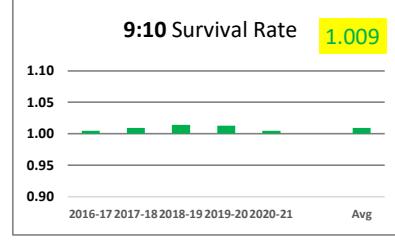
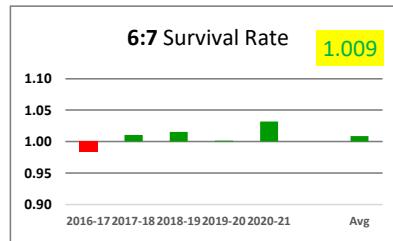
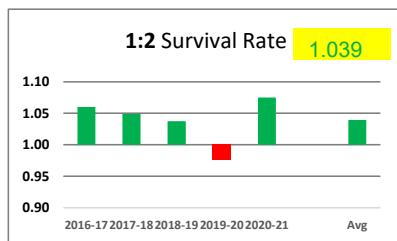
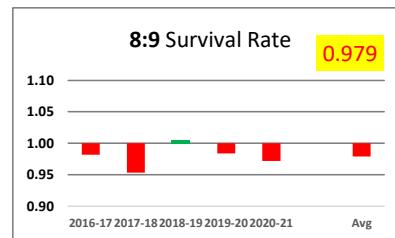
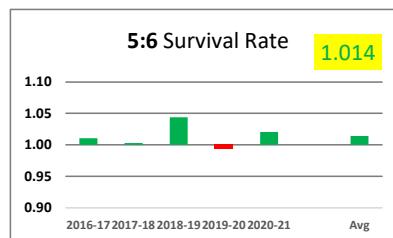
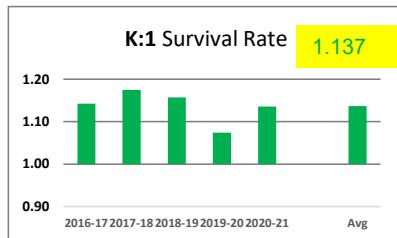
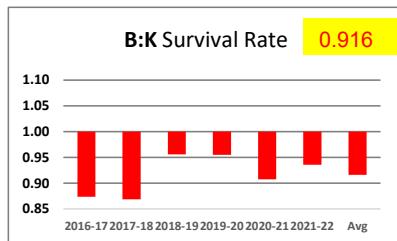
	2022	2023	2024	2025	2026	TOTAL
Brooke	1.0	2.0	49.9	50.4	48.7	152
Evans	20.7	43.6	41.2	25.2	0.0	131
Limerick	1.0	3.9	7.2	0.0	0.0	12
Oaks	7.5	7.5	23.3	23.1	4.0	65
Royersford	0.0	0.0	0.0	10.5	0.0	11
Spring City	38.7	38.7	70.2	51.5	0.0	199
Upr Prov ES	5.0	75.4	73.4	70.4	19.5	244
	74.0	171.2	265.4	231.0	72.2	814



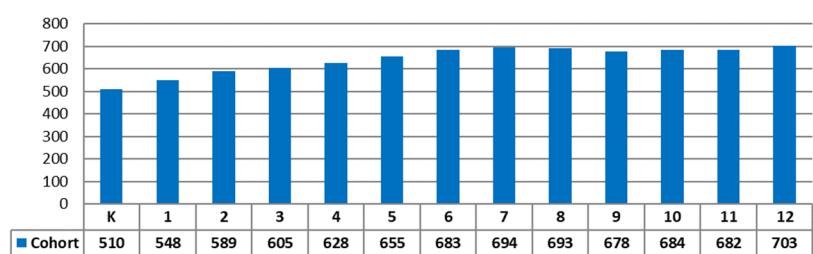
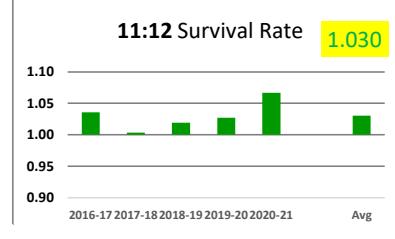
Cohort Survival Rates Standard Projection

On this page are graphs of each year of each Grade Level Survival Ratio, followed by a five-year average. Red bars are a Survival Rate below 1.0 signifying student loss between grades and green bars are greater than 1.0 indicating growth from one grade to the next.

The upper right side highlighted number and far right bar is the 6-year Average. The Pandemic interruption is obvious.

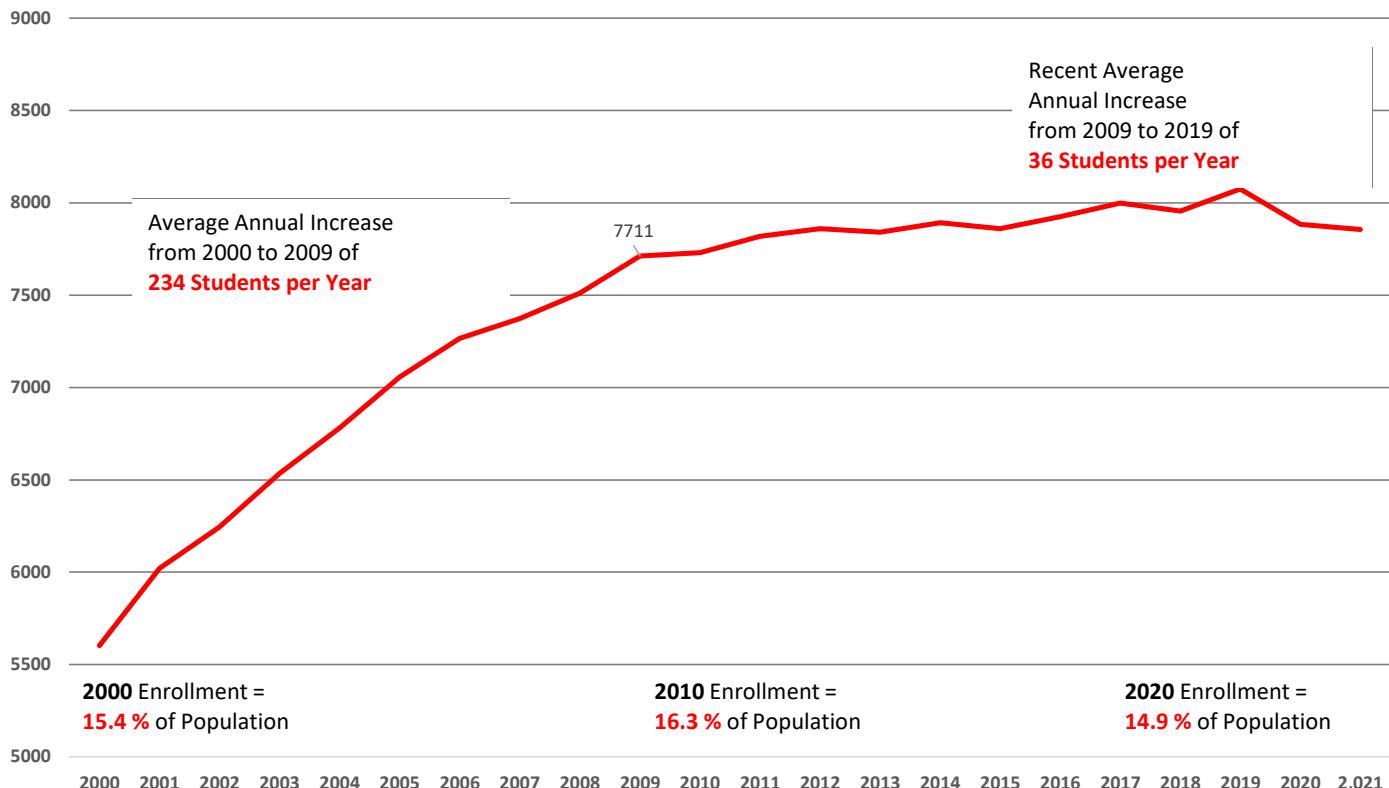


The Cohort Growth graph (below) illustrates the projected growth of the year 2019 Kindergarten as it survives to the 12th Grade graduating class of 2031.



Actual Enrollments History 2000-2021

Historical Enrollment October 2000 to 2021



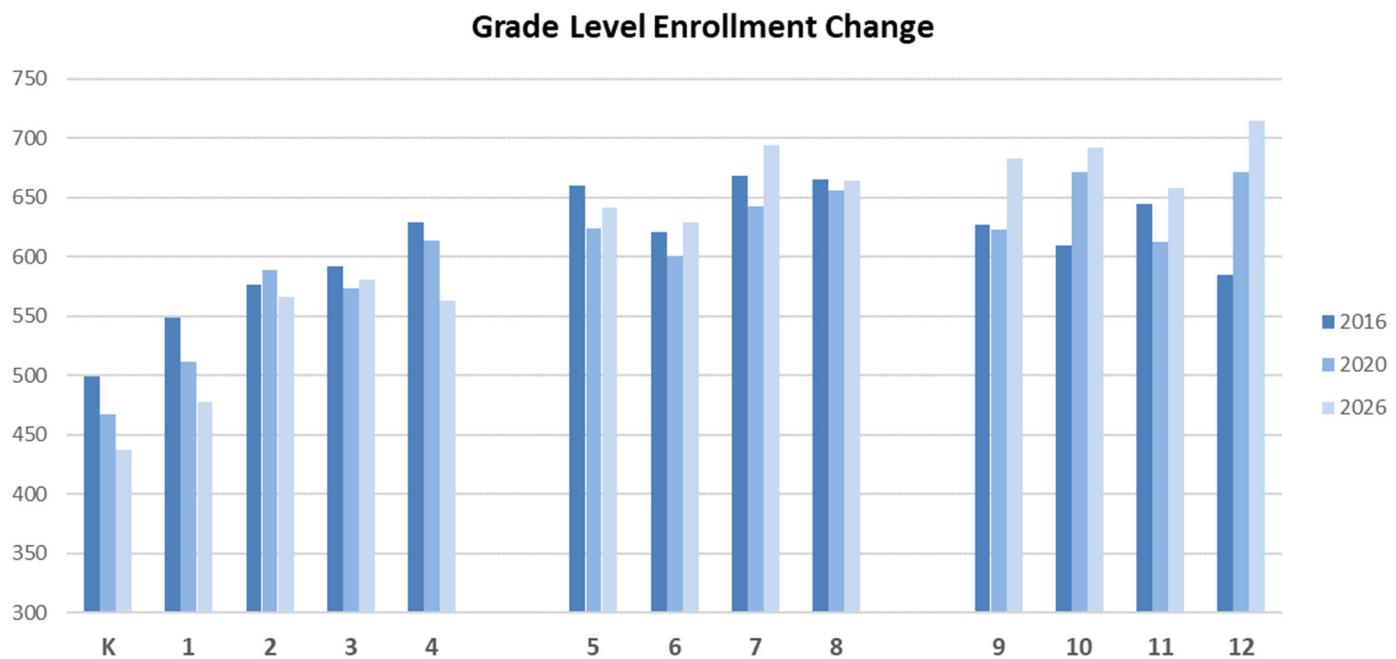
As a Percent of Population, Student Enrollment has increased from 15.4% in year 2000 to 16.3 % in year 2010 and decreased to 14.9% in 2020.

Annual enrollment increase from 2000 to 2009 was 234 students per year. The recent annual increase from 2009 to 2019 was a significantly reduced 36 students per year.

However, enrollments peaked in 2019 and have declined for two years.

Change in Grade Level Enrollments

Actual through Projected



In all Elementary Grades, K-Grade 4, enrollments decreased from year 2016 to 2021 except for Grade 2. This trend generally continues into the projection period that ends in 2026, except for Grade 3 which is stable.

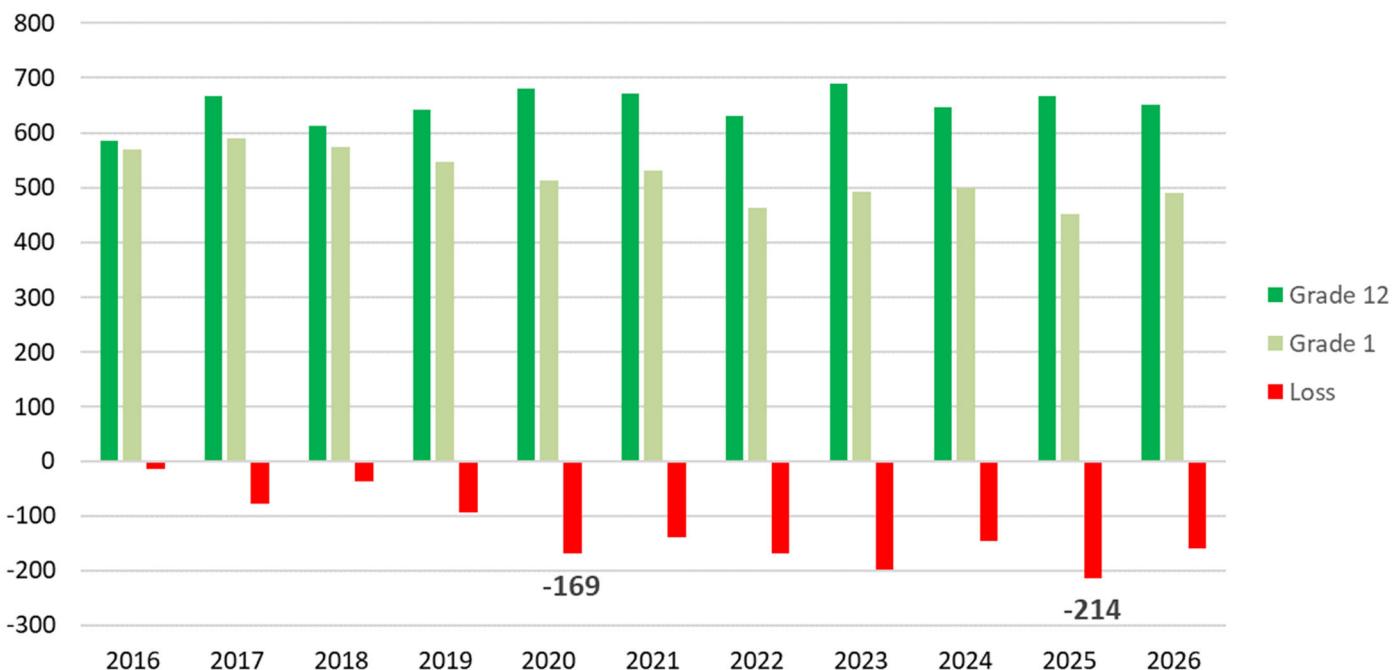
Enrollments in the middle school grades 5-8 also decreased from the beginning to the end of the Actual period. However enrollments are anticipated to increase in the 5-year projection period through 2026.

High School enrollments decreased in the 9th and 11th grades and increased in the 10th and 12th period during the Actual enrollment period. All High School grade sizes increase significantly in the projection period.

Grade 12 to Grade 1 Replacement

	Actual						Projected					<u>Average</u>
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
Gr 12 Prior	585	668	613	643	681	671	632	689	646	666	650	
Gr 1	570	591	575	548	512	531	463	492	499	452	491	
Loss	-15	-77	-38	-95	-169	-140	-168	-198	-147	-214	-160	-89 -177

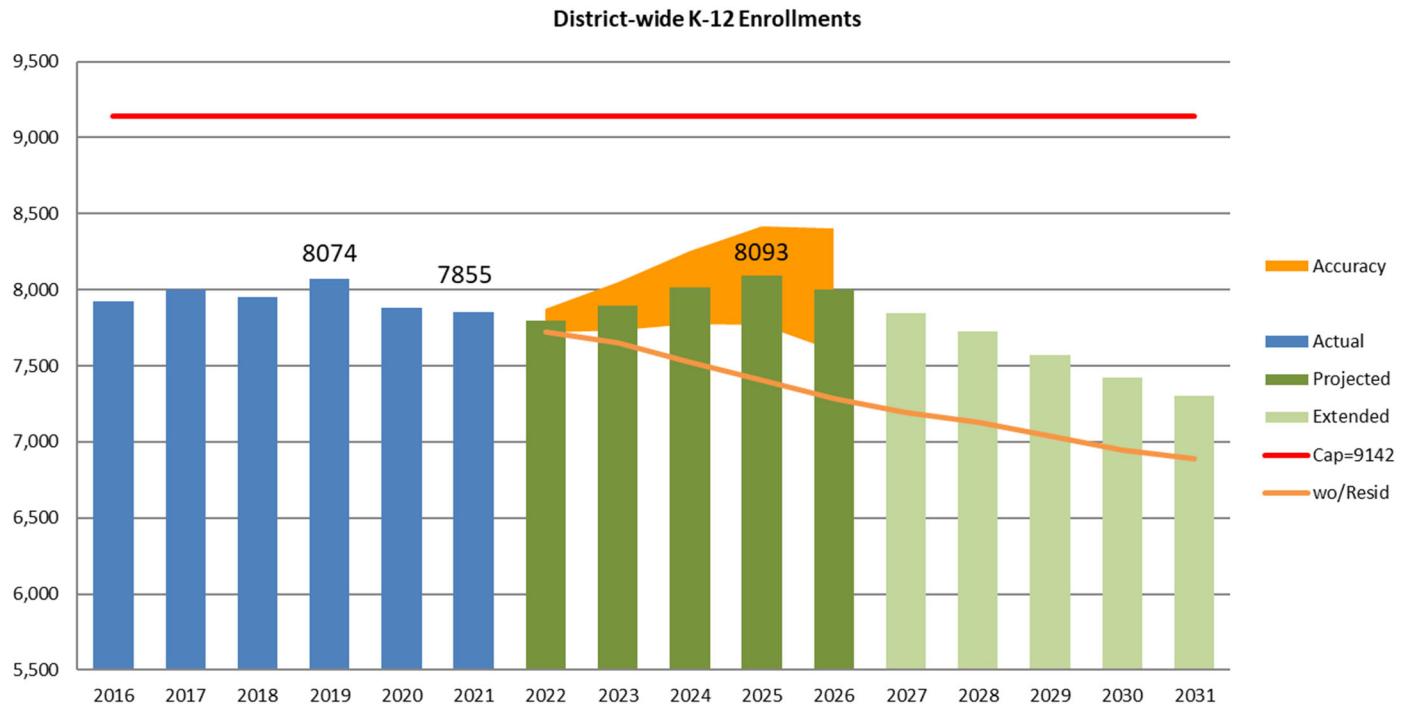
Grade 12 to Incoming Gr 1 Replacement



The difference between the prior year 12th Grade graduating class and the incoming Grade 1 is increasing, leading to decreasing enrollment.

In the 6 years of actual enrollment the difference grew from 15 students to 169 students. In the Projected period the difference is anticipated to grow to an average of 177 students each year.

Reading the Enrollment Charts



The blue bars are the 6 years of actual enrollments from Fall 2016 to Fall 2021.

The dark green bars are the resulting 1-5 year projected enrollments in the Standard Method plus Students from New Housing projection.

The 6 to 10 year projections shown in light green are not considered accurate for facilities planning. Long-range projection counts range as high as $\pm 10\%$ in accuracy in the 10th year.

The orange colored shape is the $\pm 1\%$ per year "Cone of Accuracy" in the first 5 years of the standard projection.

The yellow line is the projected enrollment without Students from New Housing

The red line is the grade-level (building) capacity as determined by the District and/or the Pennsylvania Department of Education (PDE).

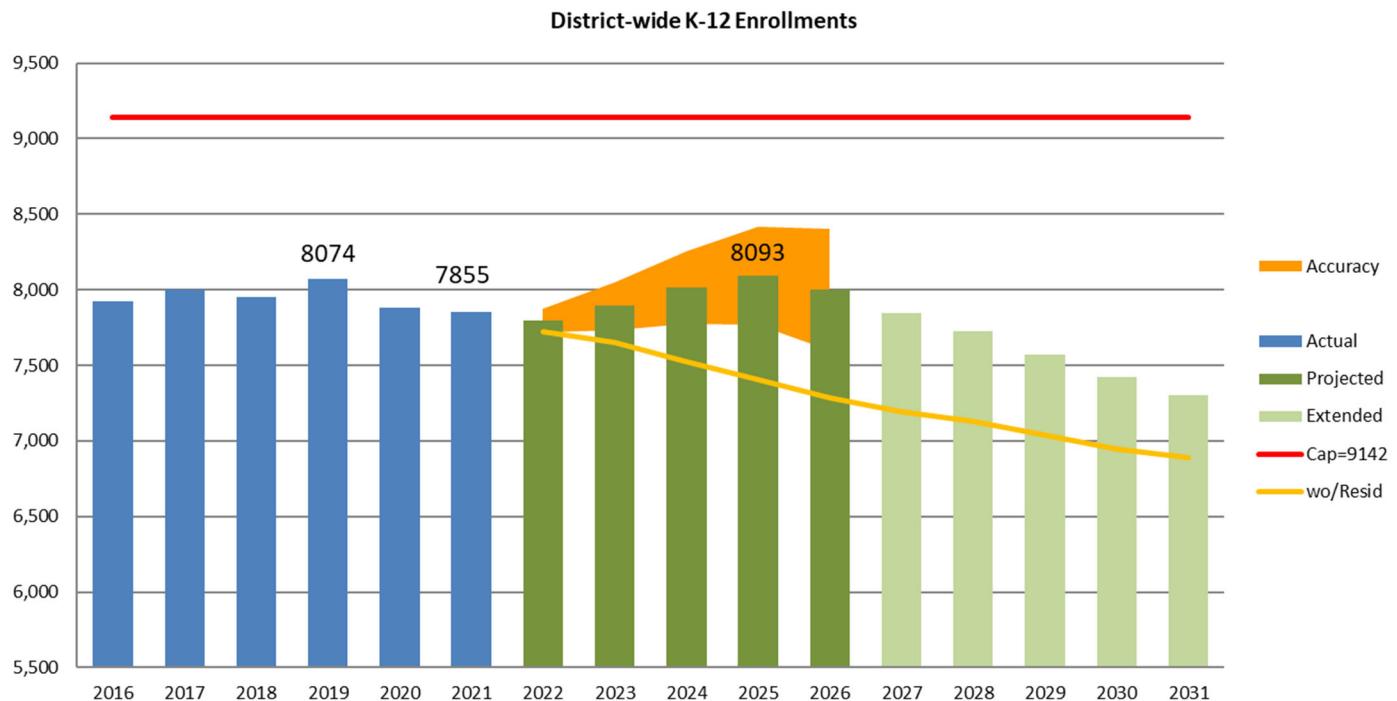
ACCURACY: Cohort Survival Enrollment Projections have an accuracy of $\pm 1\%$ per year as represented by the golden cone on the chart and establishes a 5th year range for enrollments between 7,601 and 8,401 students.

Though not shown on every chart, this is also true of the Grade Level and School based projections.

District-Wide Enrollment

The 2021 enrollment is 70 students (0.9%) fewer than the 2016 enrollment at the beginning of the actual period having decreased to 7,855 students. That is the equivalent of 5 students per grade.

The District averaged 7,948 students in the actual period, and will average 7,960 in the projection period.



Enrollments are projected to grow by 146 students past the peak year of 2025-26 (8,093) where enrollments will have increased by the end of the period to 8,001 students (1.8% over the end of the historic period).

814 students are added from new housing. Across the District

Spring-Ford Area School District

814 Public School Students from new housing

		TOTAL	Average Change	%Chg
Actual	2016	7,925		
	2017	7,998		
	2018	7,954		
	2019	8,074	7,948	
	2020	7,882		
	2021	7,855	-70	-0.9%
Projected	2022	7,798		
	2023	7,892		
	2024	8,017	7,960	
	2025	8,093		
	2026	8,001	146	1.9%
Extended	2027	7,845		
	2028	7,726		
	2029	7,573	7,574	
	2030	7,421		
	2031	7,303	-698	-8.9%



Elementary School Kindergarten-Grade 4

In the historic period enrollments decreased 90 students to a total of 2,755 students.

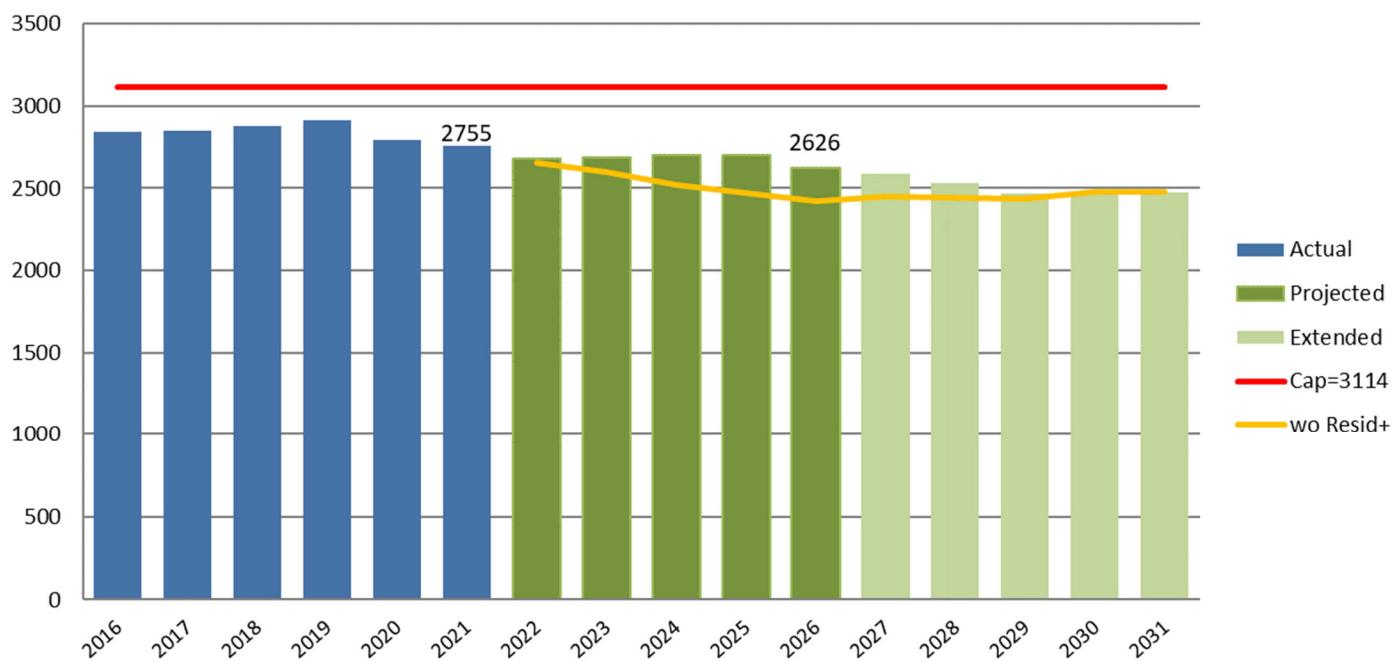
In the projection period enrollments will continue to decrease by 129 students to 2,626 students at the end of the projection period in year 2026-27.

Elementary enrollments are under capacity now and in all projection years.

Elementary School enrollments do not exceed capacity in any years of the projection.

313 students are added from new housing at the K-Gr 4 level.

Elementary K-Gr 4 Enrollments



Spring-Ford Area School District
Elementary K-Grade 4 Enrollments

313 Students from new housing to Public School at the elementary level

	PK	K	1	2	3	4	UG	K-4 Period to Period		
								TOTAL	Average	Change
Actual	2016	499	549	576	592	629	0	2,845		
	2017	503	570	582	582	614	0	2,851		
	2018	497	591	598	596	596	0	2,878		
	2019	510	575	613	618	599	0	2,915	2,840	
	2020	451	548	561	610	623	0	2,793		
	2021	467	512	589	573	614	0	2,755	-90	-3.2%
Projected	2022	413	537	538	605	588	0	2,680		
	2023	446	483	571	560	628	0	2,687		
	2024	459	527	523	601	590	0	2,699	2,678	
	2025	415	540	565	549	628	0	2,698		
	2026	437	478	567	581	564	0	2,626	-129	-4.8%
Extended	2027	431	497	497	576	590	0	2,591		
	2028	431	491	516	505	586	0	2,529		
	2029	431	491	510	525	513	0	2,470	2,510	
	2030	431	491	510	518	534	0	2,484		
	2031	431	491	510	518	527	0	2,477	-148	-5.7%

Middle School

Grade 5-7

In the historic period enrollments decreased 83 students to a total of 1,866 students by Fall 2021.

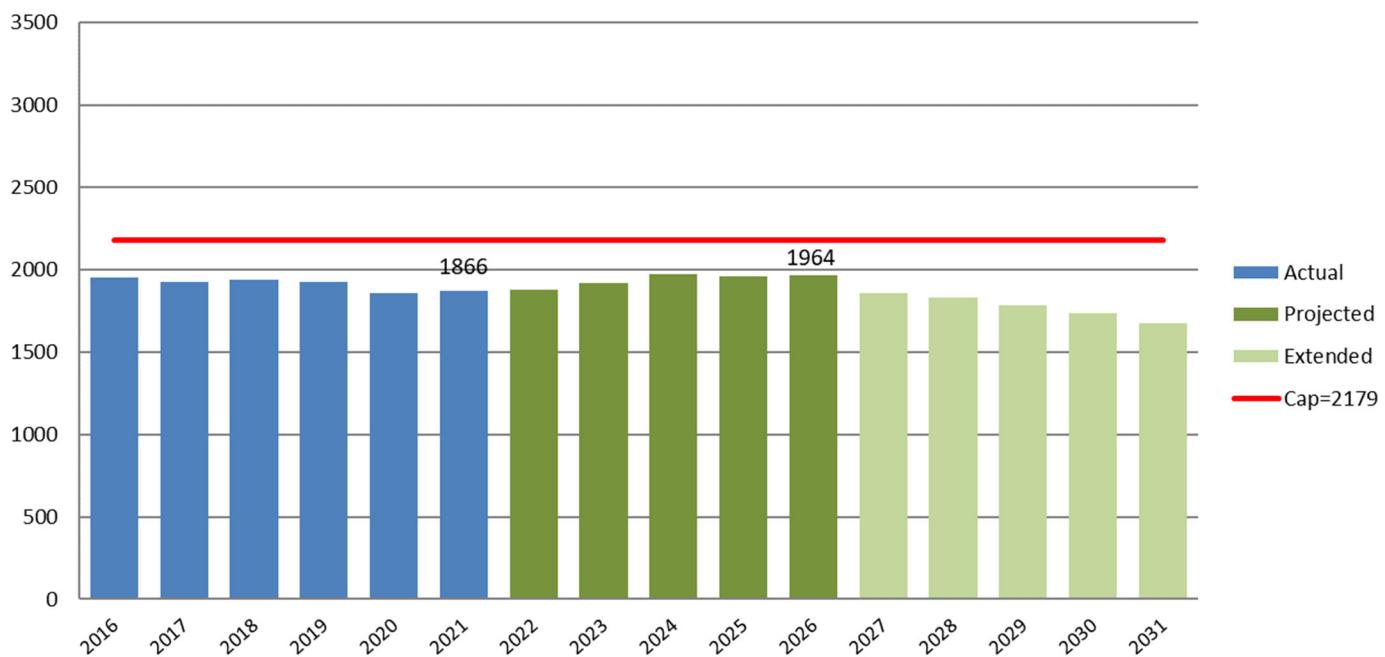
In the projection period enrollments will increase by 98 students to a new high of 1,964 students at the end of the projection period.

Enrollments do not exceed capacity in any years of the 5-year projection.

Middle School enrollments do not exceed capacity in any year of the projections.

188 students are added from new housing at the Gr 5-7 level.

Middle Schools Gr 5-7 Enrollments



Spring-Ford Area School District Middle School Grade 5-7 Enrollments

188 Students from new housing to Public Schools at the Middle School level.

		5	6	7	UG	Gr 5-7 TOTAL	Period Average	Period Change
Actual	2016	660	621	668		1,949		
	2017	643	667	611		1,921		
	2018	616	645	674		1,935		
	2019	626	643	655		1,924	1908	
	2020	588	622	644		1,854		
	2021	624	600	642		1,866	-83	-4.3%
Projected	2022	627	639	611		1,877		
	2023	608	649	657		1,915		
	2024	655	637	675		1,968	1936	
	2025	614	683	661		1,957		
	2026	641	629	694		1,964	98	5.2%
Extended	2027	570	651	634		1,855		
	2028	597	578	656		1,832		
	2029	592	605	583		1,781	1774	
	2030	519	601	611		1,731		
	2031	540	527	606		1,673	-291	-15.7%



Grade 8 Center

Grades 8

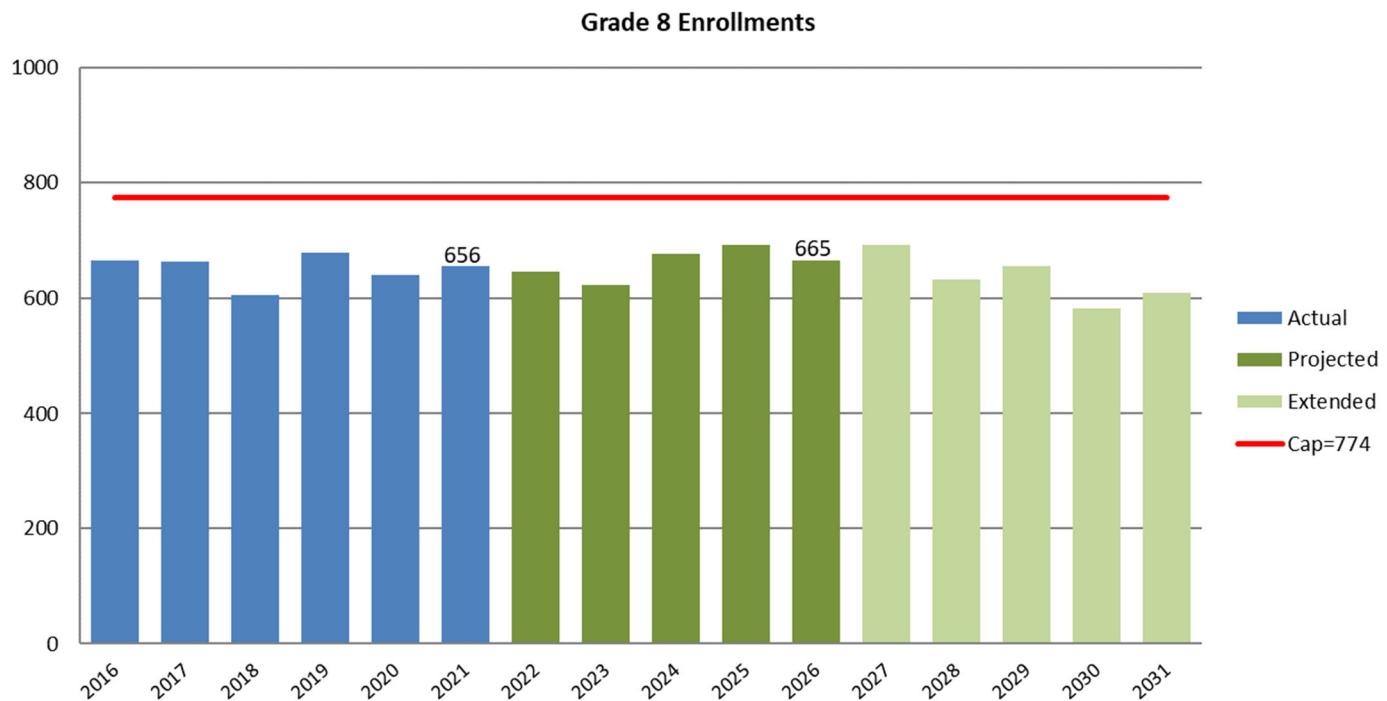
In the historic period enrollments decreased 9 students to a total of 656 students by Fall 2021.

In the projection period enrollments will increase by 9 students to 665 students at the end of the projection period.

Enrollments do not exceed capacity in any years of the 5-year projection.

Grade 8 Enrollments do not exceed capacity in any years of the 5-year projection.

63 students are added from new housing at the Gr 8 level.



Grade 8 Enrollments

63 Students from new housing to Public Schools at the Middle School level.

	8	UG	TOTAL	Gr 8	Period	Period
				Average	Change	
Actual	2016		665	665		
	2017		664	664		
	2018		605	605		
	2019		679	679	652	
	2020		641	641		
	2021		656	656	-9	-1.4%
Projected	2022		646	646		
	2023		623	623		
	2024		676	676	660	
	2025		691	691		
	2026		665	665	9	1.3%
Extended	2027		693	693		
	2028		633	633		
	2029		655	655	634	
	2030		582	582		
	2031		609	609	-55	-8.0%



In the historic period enrollments decreased 4 students to a total of 623 students by Fall 2021.

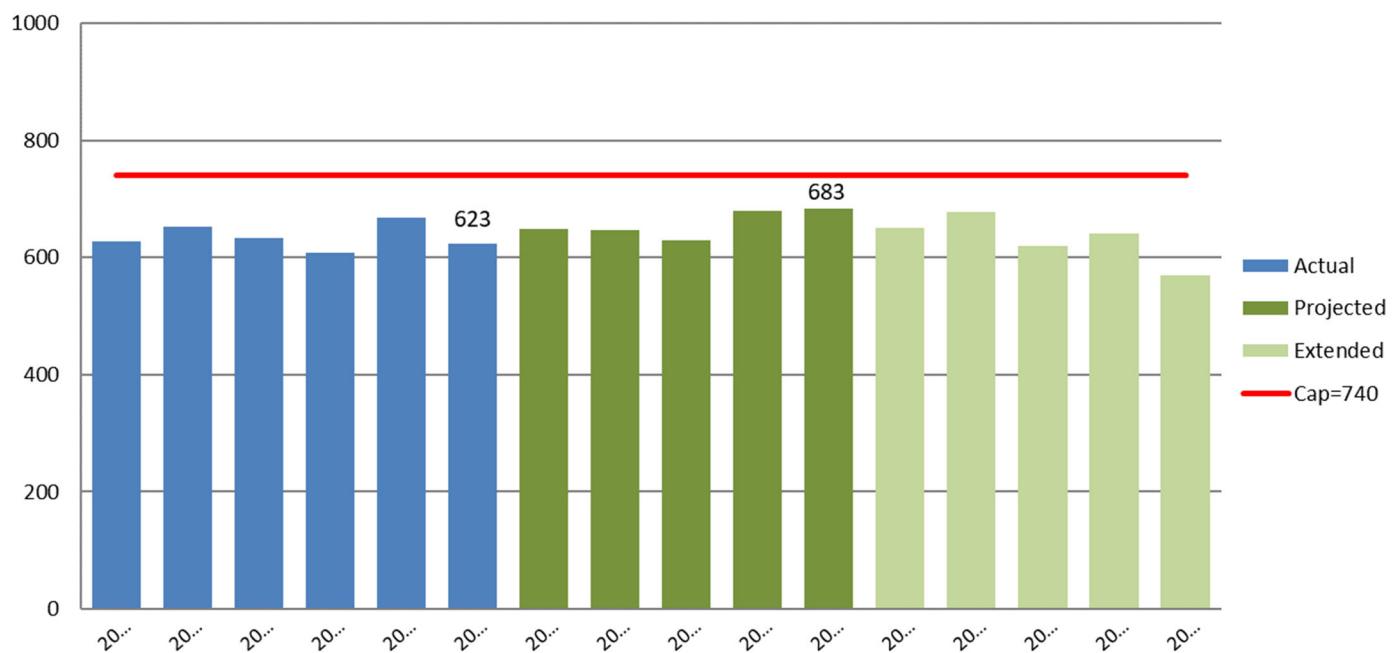
In the projection period enrollments will increase by 60 students to a new high of 683 students at the end of the projection period.

Enrollments do not exceed capacity in any years of the 5-year projection.

Grade 9 Enrollments do not exceed capacity in any years of the 5-year projection.

63 students are added from new housing at the Gr 9 level.

Grade 9 Enrollments



Spring-Ford Area School District

Grade 9 Enrollments

63 Students from new housing to Public Schools at the Middle School level.

	Actual	Gr 9		Period	Period	
		9	UG	TOTAL	Average	Change
Actual	2016	627		627		
	2017	653		653		
	2018	633		633		
	2019	608		608	635	
	2020	668		668		
	2021	623		623	-4	-0.6%
Projected	2022	648		648		
	2023	646		646		
	2024	630		630	657	
	2025	680		680		
	2026	683		683	60	9.2%
Extended	2027	651		651		
	2028	678		678		
	2029	620		620	632	
	2030	641		641		
	2031	570		570	-113	-17.3%

High School Enrollment

Grade 10-12

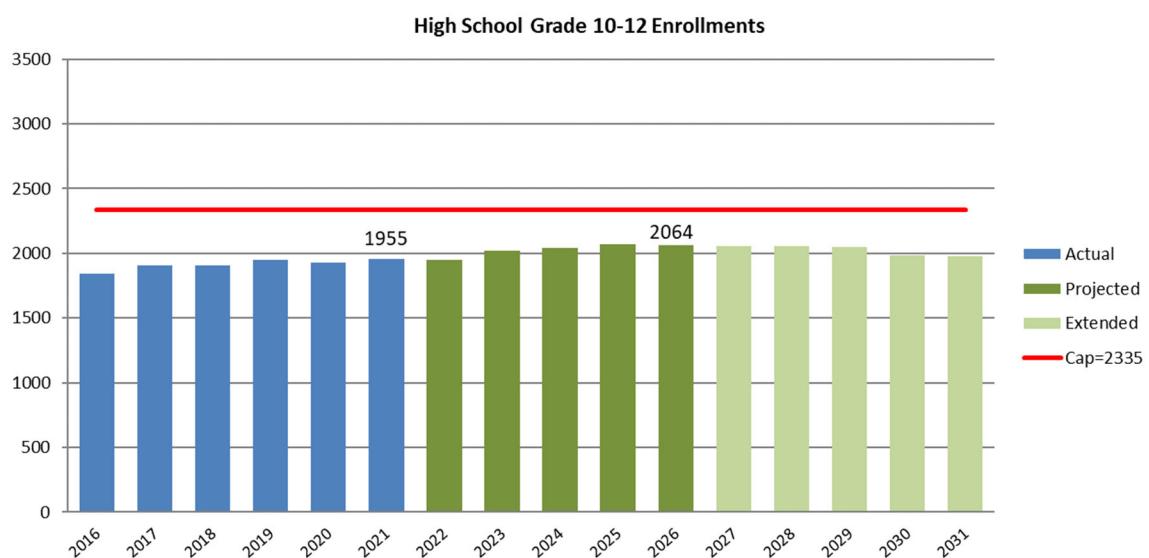
In the historic period enrollments increased 116 students to a total of 1,995 students.

In the projection period enrollments will continue to increase by 109 students to 2,064 students at the end of the projection period.

Enrollments do not exceed capacity in any years of the 5-year projection.

High School enrollments which averaged 1,913 students in the Actual period, will average 2,026 students in the projection period.

250 students are added from new housing at the Gr 10-12 level.



Spring-Ford Area School District
High School Grade 10-12 Enrollments

250 Students from new housing at the High School level

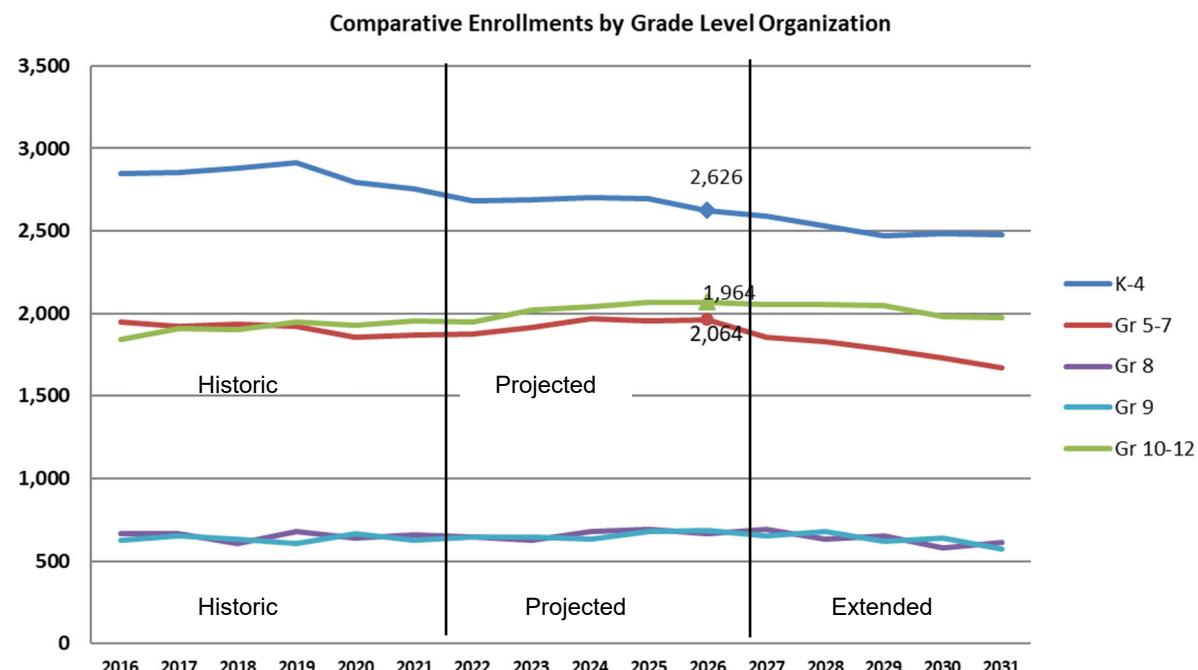
High School Enrollments do not exceed capacity in any years of the 5-year projection.

		Gr 10-12				Period Average	Period Change
		10	11	12	UG	TOTAL	
Actual	2016	609	645	585	0	1,839	
	2017	630	611	668	0	1,909	
	2018	659	631	613	0	1,903	
	2019	642	663	643	0	1,948	1913
	2020	616	629	681	0	1,926	
	2021	671	613	671	0	1,955	116 6.3%
Projected	2022	634	675	637	0	1,947	
	2023	667	646	708	0	2,021	
	2024	672	686	686	0	2,044	2028
	2025	654	688	724	0	2,066	
	2026	692	657	715	0	2,064	109 5.6%
Extended	2027	689	690	677	0	2,056	
	2028	657	687	711	0	2,054	
	2029	684	655	708	0	2,047	2023
	2030	625	682	675	0	1,982	
	2031	647	623	703	0	1,974	-90 -4.4%

Comparative Enrollments by Grade Level Organization Standard Projection

Comparative Enrollments by Grade Level Organization

	K-4	Gr 5-7	Gr 8	Gr 9	Gr 10-12	TOTAL	
Actual	2016	2,845	1,949	665	627	1,839	7,925
	2017	2,851	1,921	664	653	1,909	7,998
	2018	2,878	1,935	605	633	1,903	7,954
	2019	2,915	1,924	679	608	1,948	8,074
	2020	2,793	1,854	641	668	1,926	7,882
	2021	2,755	1,866	656	623	1,955	7,855
Projected	2022	2,680	1,877	646	648	1,947	7,798
	2023	2,687	1,915	623	646	2,021	7,892
	2024	2,699	1,968	676	630	2,044	8,017
	2025	2,698	1,957	691	680	2,066	8,093
	2026	2,626	1,964	665	683	2,064	8,001
Extended	2027	2,591	1,855	693	651	2,056	7,845
	2028	2,529	1,832	633	678	2,054	7,726
	2029	2,470	1,781	655	620	2,047	7,573
	2030	2,484	1,731	582	641	1,982	7,421
	2031	2,477	1,673	609	570	1,974	7,303



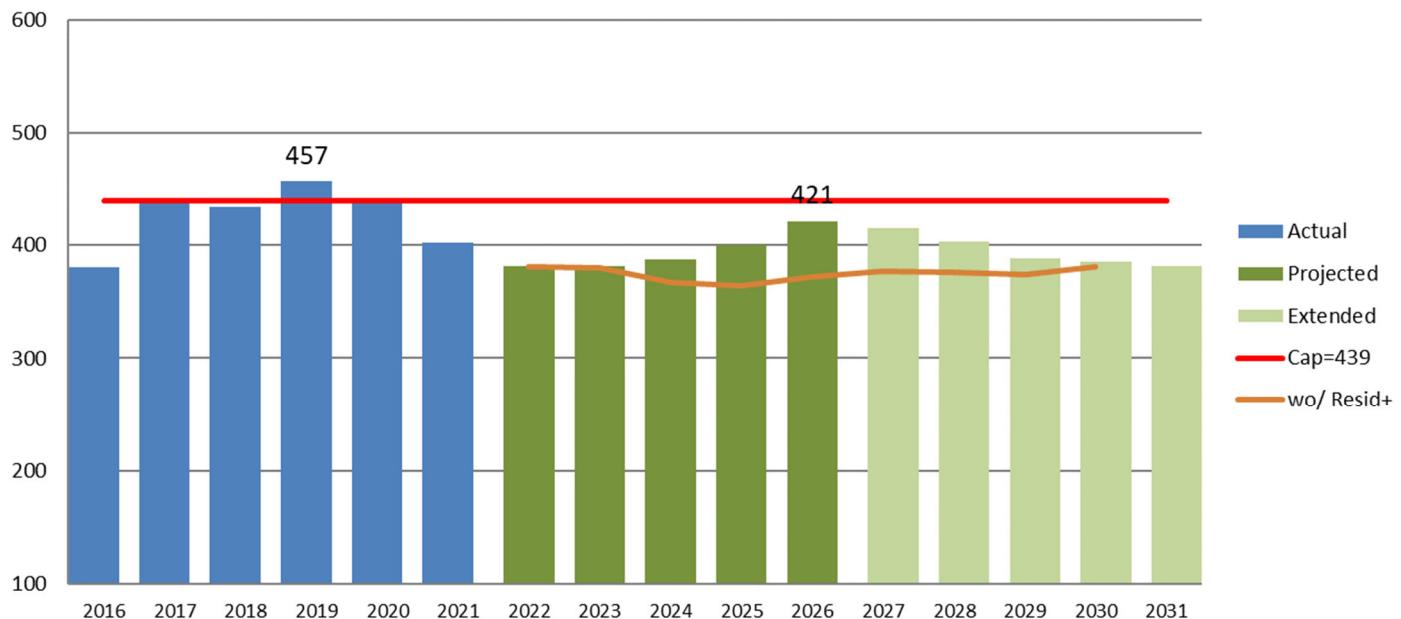
Enrollments which increased 21 in the actual period, will increase by 19 in the projection period to a high of 421 students at the end of the projection period. That high is less than the 457 student high in the Actual period.

58 students from New Housing are added to this school

Sections increase from a current 21 classrooms to a high of 21 classrooms as in the Actual period..

The school is under capacity in all years of the projection period.

Enrollments: Actual & Projected



Brook Elementary School

Enrollments

	K-5					TOTAL	Average Change	% Chg
	K	1	2	3	4			
Actual	2016	66	60	76	92	87	381	
	2017	94	73	83	87	101	438	
	2018	69	103	84	87	91	434	
	2019	79	83	108	93	94	457	426
	2020	77	85	82	106	91	441	
	2021	60	67	90	83	102	402	21 5.5%
Projected	2022	62	64	75	95	86	382	
	2023	66	66	72	80	98	381	
	2024	70	74	78	80	86	388	394
	2025	64	78	86	86	86	400	
	2026	69	72	92	95	93	421	19 4.9%
Extended	2027	65	74	81	97	98	415	
	2028	65	70	83	85	100	403	
	2029	65	70	78	87	88	388	395
	2030	65	70	78	83	90	386	
	2031	65	70	78	83	85	381	-40 -9.6%

Sections

	22	22	22	24	24	Total
K	1	2	3	4		
3	3	4	4	4	4	18
5	4	4	4	5		22
4	5	4	4	4		21
4	4	5	4	4		21
4	4	4	5	4		21
3	4	5	4	5		21
3	3	4	4	4		18
3	4	4	4	5		20
4	4	4	4	4		20
3	4	4	4	4		19
4	4	5	4	4		21
3	4	4	5	5		21
3	4	4	4	5		20
3	4	4	4	4		19
3	4	4	4	4		19
3	4	4	4	4		19



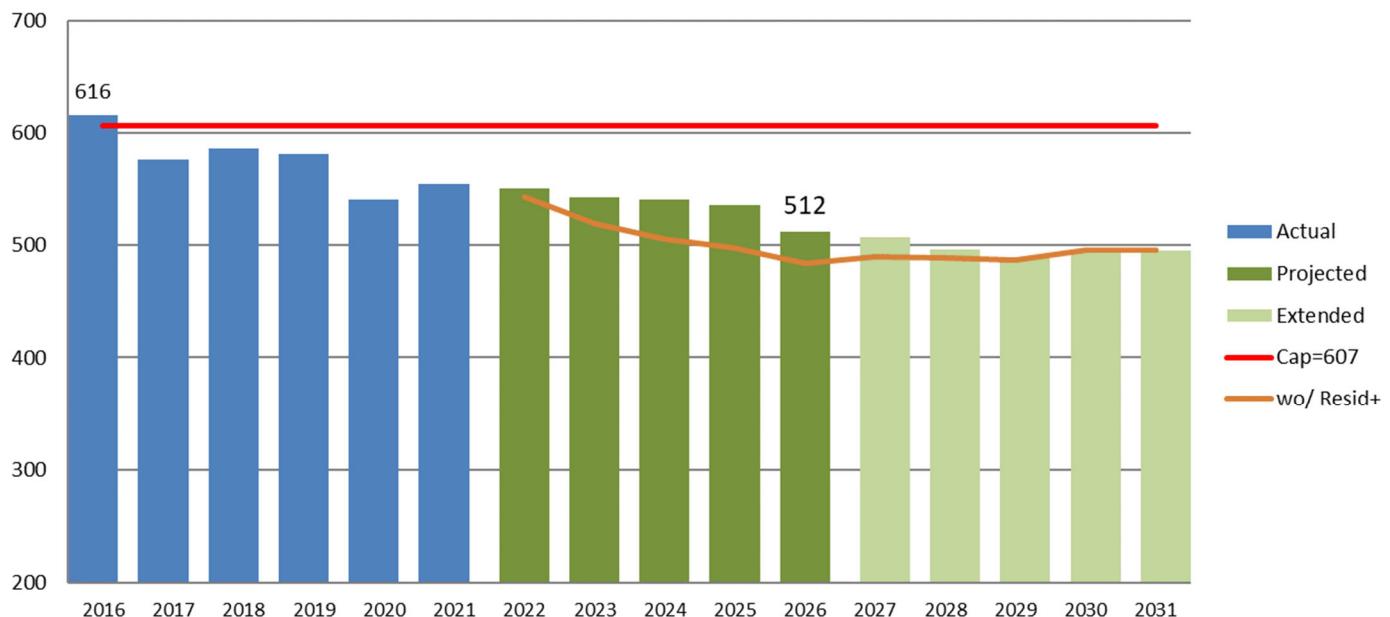
Enrollments which decreased 61 in the historic period, will decrease by 43 in the projection period to a low of 512 students in year 2026-27.

50 students from New Housing are added to this school

Sections decrease from a current 27 to a low of 24 classrooms.

The school is under capacity in all years of the projection period.

Enrollments: Actual & Projected



Evans Elementary School

	Enrollments						K-5		
	K	1	2	3	4	TOTAL	Average	Change %	Chg
Actual	2016	121	114	126	123	132	616		
	2017	83	122	119	124	128	576		
	2018	101	102	131	127	125	586		
	2019	96	115	104	137	129	581	576	
	2020	74	101	115	112	139	541		
	2021	96	95	115	130	117	555	-61	-9.9%
Projected	2022	81	110	102	123	135	551		
	2023	88	95	119	111	129	543		
	2024	89	103	103	130	116	541	537	
	2025	79	102	109	111	134	536		
	2026	84	90	108	116	114	512	-43	-7.8%
Extended	2027	84	96	95	114	119	507		
	2028	84	96	100	100	117	497		
	2029	84	96	100	106	102	489	497	
	2030	84	96	100	106	109	495		
	2031	84	96	100	106	109	495	-17	-3.3%

Sections

	22	22	22	24	24	Total
	K	1	2	3	4	
	6	6	6	6	6	30
	4	6	6	6	6	28
	5	5	6	6	6	28
	5	6	5	6	6	28
	4	5	6	5	6	26
	5	5	6	6	5	27
	4	6	5	6	6	27
	4	5	6	5	6	26
	5	5	5	6	5	26
	4	5	5	5	6	25
	4	5	5	5	5	24
	4	5	5	5	5	24
	4	5	5	5	5	24
	4	5	5	5	5	24
	4	5	5	5	5	24

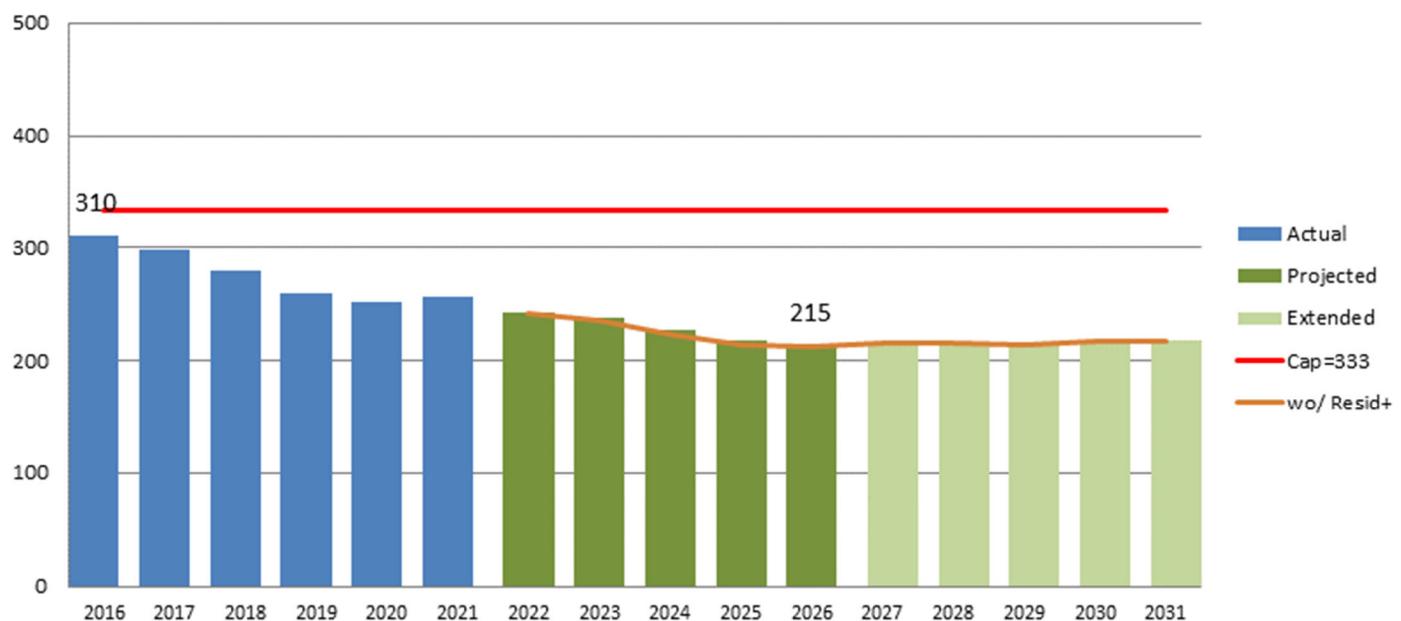
Enrollments which decreased 54 students in the actual period, will decrease by 41 in the projection period to a new low of 215 students in year 2026-27.

5 students from New Housing are added to this school

Sections decrease from a current 15 classrooms to a low of 11 classrooms.

The school is under capacity in all projected years.

Enrollments: Actual & Projected



Limerick Elementary School

	Enrollments					K-4		
	K	1	2	3	4	TOTAL	Average	% Chg
Actual	2016	45	62	76	65	62	310	
	2017	51	46	64	77	60	298	
	2018	47	53	45	60	75	280	
	2019	52	49	55	44	60	260	276
	2020	48	54	46	57	47	252	
	2021	45	48	57	51	55	256	-54 -17.4%
Projected	2022	40	46	48	58	50	243	
	2023	43	41	46	49	57	237	
	2024	44	44	42	48	49	227	228
	2025	39	45	44	43	47	217	
	2026	43	40	45	45	42	215	-41 -17.1%
Extended	2027	43	43	40	46	44	216	
	2028	43	43	44	41	45	215	
	2029	43	43	44	44	40	214	216
	2030	43	43	44	44	43	217	
	2031	43	43	44	44	44	218	3 1.4%

Sections

	22	22	22	24	24	Total
K	1	2	3	4		
3	3	4	3	3	16	
3	3	3	4	3	16	
3	3	3	3	4	16	
3	3	3	2	3	14	
3	3	3	3	2	14	
3	3	3	3	3	15	
2	3	3	3	3	14	
2	2	3	3	3	13	
2	3	2	2	3	12	
2	3	3	2	2	12	
2	2	3	2	2	11	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	



Oaks Elementary

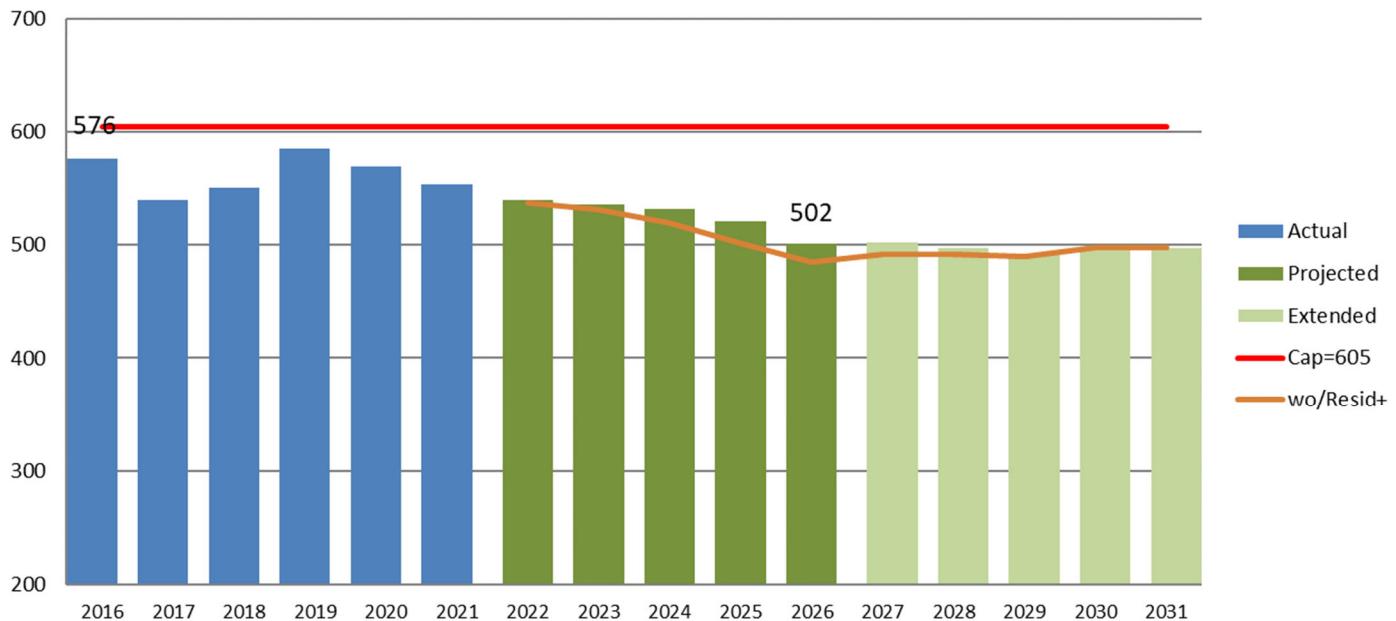
Enrollments which decreased 22 students in the historic period, will decrease by 52 in the projection period to a new low of 502 students in year 2026-27.

25 students from New Housing are added to this school

Sections decrease to 24.

The school is under capacity in all projected years.

Enrollments: Actual & Projected



Oaks Elementary School

	Enrollments						K-5		
	K	1	2	3	4	TOTAL	Average	Change	% Chg
Actual	2016	105	117	118	117	119	576		
	2017	77	124	113	111	115	540		
	2018	92	108	127	115	109	551		
	2019	106	115	118	129	117	585	563	
	2020	98	119	108	113	131	569		
	2021	100	113	117	107	117	554	-22	-3.8%
Projected	2022	81	122	113	116	108	540		
	2023	86	100	122	112	117	536		
	2024	89	107	101	122	114	532	526	
	2025	80	109	108	101	124	521		
	2026	86	98	110	106	102	502	-52	-9.7%
Extended	2027	86	104	98	108	107	502		
	2028	86	104	104	96	108	498		
	2029	86	104	104	102	96	492	497	
	2030	86	104	104	102	103	498		
	2031	86	104	104	102	102	498	-4	-0.8%

Sections						Total
22	22	22	24	24		
K	1	2	3	4		
5	6	6	5	5		27
4	6	6	5	5		26
5	5	6	5	5		26
5	6	6	6	5		28
5	6	5	5	6		27
5	6	6	5	5		27
4	6	6	5	5		26
4	5	6	5	5		25
5	5	5	6	5		26
4	5	5	5	6		25
4	5	5	5	5		24
4	5	5	5	5		24
4	5	5	5	5		24
4	5	5	5	5		24
4	5	5	5	5		24
4	5	5	5	5		24
4	5	5	5	5		24



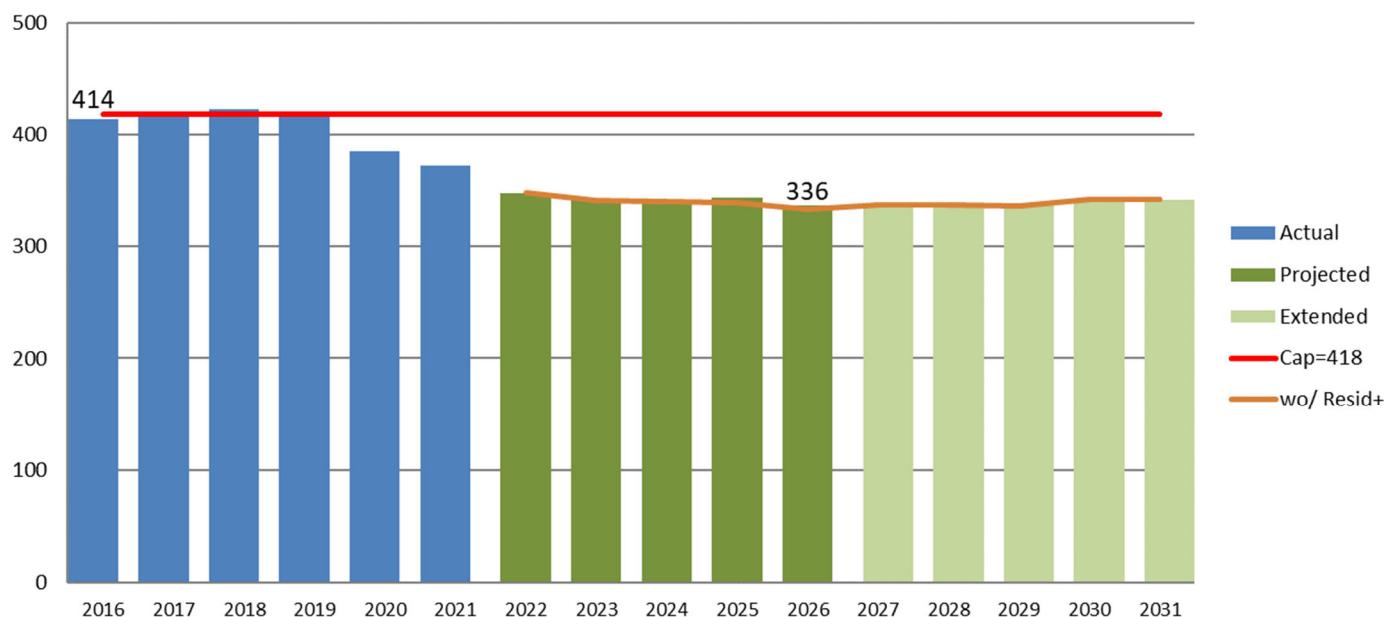
Enrollments which decreased 42 students in the historic period, will decrease by 36 in the projection period to 336 students in year 2026-27.

4 students from New Housing are added to this school

Sections decrease from a current 20 classrooms to between 16 and 19 classrooms.

The school is under capacity in all projected years.

Enrollments: Actual & Projected



Royersford Elementary School

	Enrollments					K-5		Total	Average Change % Chg
	K	1	2	3	4				
Actual	2016	76	90	72	79	97	414		
	2017	92	92	86	72	79	421		
	2018	83	100	91	78	71	423		
	2019	69	91	95	92	74	421	406	
	2020	61	69	82	87	86	385		
	2021	74	67	73	73	85	372	-42	-10.1%
Projected	2022	63	80	65	69	71	348		
	2023	67	69	78	61	67	342		
	2024	68	73	67	74	59	341	342	
	2025	62	75	71	64	72	343		
	2026	67	68	73	67	62	336	-36	-10.2%
Extended	2027	67	73	66	68	65	339		
	2028	67	73	71	62	66	339		
	2029	67	73	71	67	60	337	340	
	2030	67	73	71	67	64	342		
	2031	67	73	71	67	65	342	5	1.6%

Sections

	22	22	22	24	24	Total
	K	1	2	3	4	
	4	5	4	4	5	22
	5	5	4	3	4	21
	4	5	5	4	3	21
	4	5	5	4	4	22
	3	4	4	4	4	19
	4	4	4	4	4	20
	3	4	3	3	3	16
	4	4	4	3	3	18
	4	4	4	4	3	19
	3	4	4	3	3	17
	4	4	4	3	3	18
	4	4	3	3	3	17
	4	4	4	3	3	18
	4	4	4	3	3	18
	4	4	4	3	3	18
	4	4	4	3	3	18

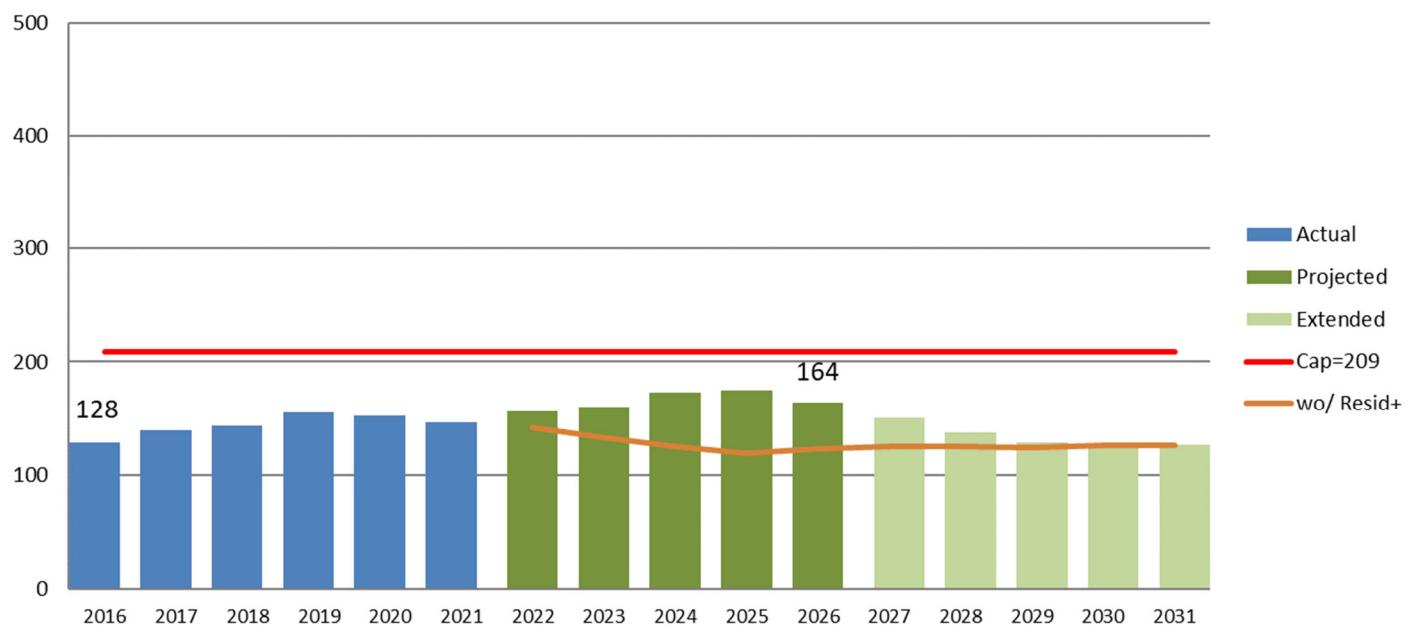
Enrollments which increased 18 students in the historic period, will also increase by 18 in the projection period, and peak at 164 students in 2023-24.

77 students from New Housing are added to this school

Sections increase from a current 9 classrooms to a high of 10 classrooms.

The school is under capacity in all projected years.

Enrollments: Actual & Projected



Spring City Elementary School

Enrollments

	K-5					Average Change	% Chg
	K	1	2	3	4		
Actual	2016	24	35	24	21	24	128
	2017	31	24	36	24	24	139
	2018	33	30	22	35	23	143
	2019	30	37	32	22	34	155 144
	2020	29	32	37	31	23	152
	2021	21	29	35	33	28	146 18 14.1%
Projected	2022	26	24	33	37	36	156
	2023	28	30	28	34	40	160
	2024	31	34	36	32	40	173 165
	2025	27	35	38	39	36	175
	2026	25	27	36	37	39	164 18 11.5%
Extended	2027	25	25	28	35	37	150
	2028	25	25	26	27	35	138
	2029	25	25	26	25	27	128 133
	2030	25	25	26	25	25	126
	2031	25	25	26	25	25	126 -38 -25.3%

Sections

22	22	22	24	24	Total	
					K	1
2	2	2	1	1	8	
2	2	2	1	1	8	
2	2	1	2	1	8	
2	2	2	1	2	9	
2	2	2	2	1	9	
1	2	2	2	2	9	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	
2	2	2	2	2	10	



Upper Providence Elementary

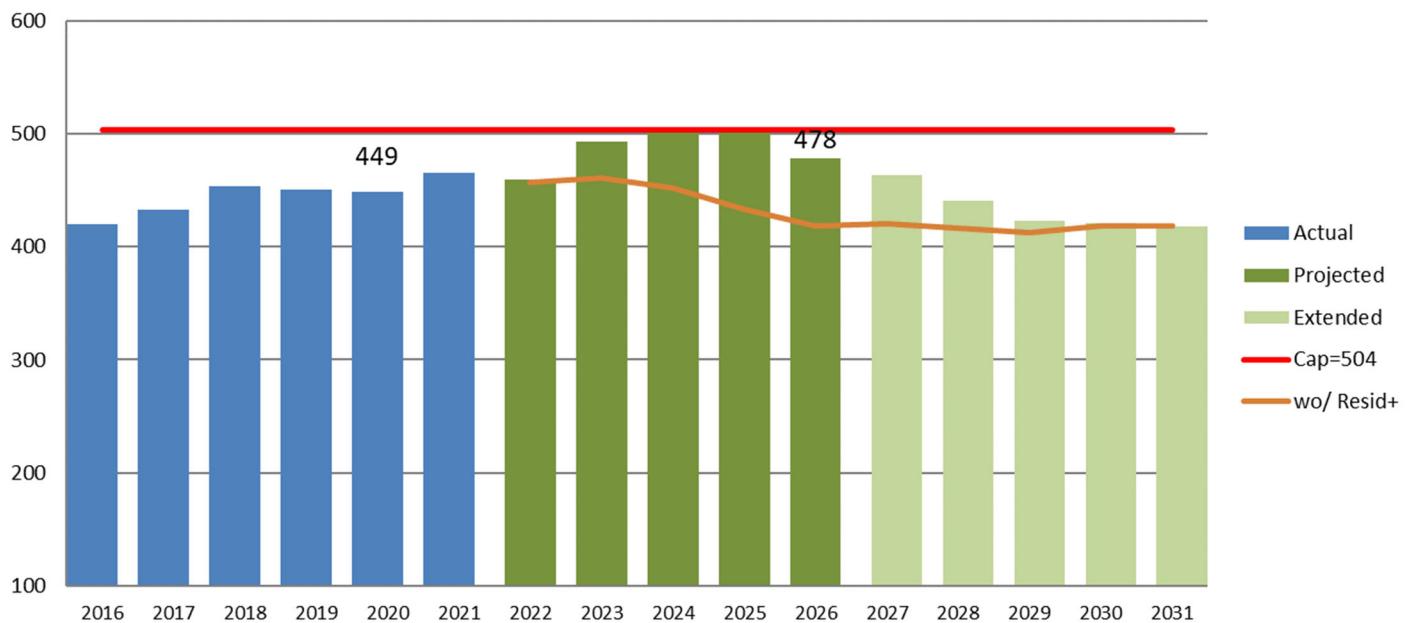
Enrollments which increased 46 students in the actual period, will increase by 12 in the projection period to a period high of 478 students in year 2026-27.

112 students from New Housing are added to this school

Sections increase from a current 23 classrooms to a high of 25 classrooms in Fall 2024.

The school is under capacity in all projected years.

Enrollments: Actual & Projected



Upper Providence Elementary School

	Enrollments					TOTAL	Average Change	% Chg
	K	1	2	3	4			
Actual	2016	62	71	84	95	420		
	2017	75	88	80	85	433		
	2018	72	94	97	91	454		
	2019	78	85	100	100	451	446	
	2020	64	88	91	102	449		
	2021	71	92	102	94	466	46	11.0%
Projected	2022	59	91	102	107	459		
	2023	68	81	106	112	493		
	2024	69	93	95	116	504	487	
	2025	63	93	107	105	501		
	2026	64	82	104	114	478	12	2.6%
Extended	2027	62	82	90	109	463		
	2028	62	80	90	94	441		
	2029	62	80	87	94	423	433	
	2030	62	80	87	92	421		
	2031	62	80	87	92	418	-59	-12.8%

Sections

	22	22	22	24	24	Total
K	1	2	3	4		
3	4	4	4	5		20
4	4	4	4	5		21
4	5	5	4	5		23
4	4	5	5	4		22
3	4	5	5	5		22
4	5	5	4	5		23
3	5	5	5	5		23
4	4	5	5	5		23
4	5	5	5	6		25
3	5	5	5	6		24
3	4	5	5	5		22
3	4	5	5	6		23
3	4	5	4	5		21
3	4	4	4	5		20
3	4	4	4	5		20
3	4	4	4	5		20



Comparative Elementary Enrollments

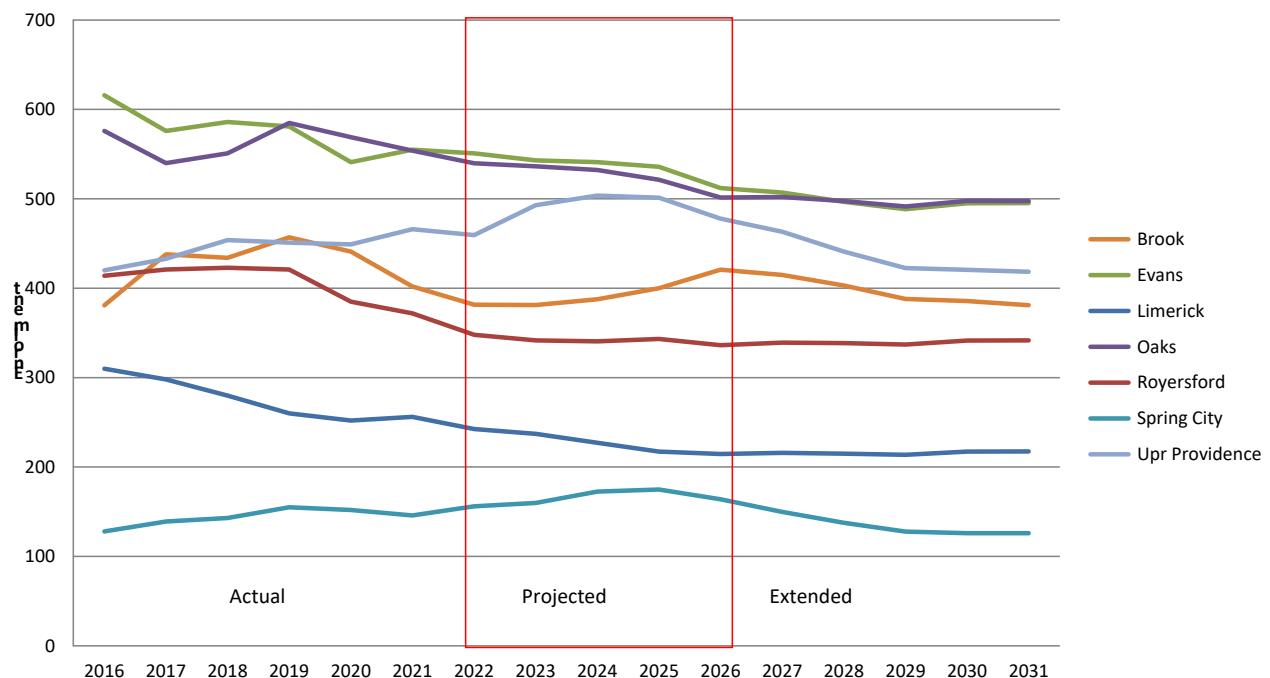
	Brook	Evans	Limerick	Oaks	Royersford	Spring City	Upr Providence
Actual	2016 381	616	310	576	414	128	420
	2017 438	576	298	540	421	139	433
	2018 434	586	280	551	423	143	454
	2019 457	581	260	585	421	155	451
	2020 441	541	252	569	385	152	449
	2021 402	555	256	554	372	146	466
Projected	2022 382	551	243	540	348	156	459
	2023 381	543	237	536	342	160	493
	2024 388	541	227	532	341	173	504
	2025 400	536	217	521	343	175	501
	2026 421	512	215	502	336	164	478
Extended	2027 415	507	216	502	339	150	463
	2028 403	497	215	498	339	138	441
	2029 388	489	214	492	337	128	423
	2030 386	495	217	498	342	126	421
	2031 381	495	218	498	342	126	418

Projection Period

Low

High

Comparative Enrollments: Elementary Schools



A. Cohort Survival Worksheets

1. Standard Projection
2. Adjusted for New Housing Projection

B. ESI Student Multipliers Report

Standard Cohort-Survival Enrollment Projection Worksheet

DISTRICT NAME:		Spring-Ford Area School District																																
COUNTY:		Montgomery County & Chester County																																
DATA ISSUES:		Enrollments are from the PDE Enrollment website																																
"s" = survival rate																																		
School Year	Births 5 Sch Yrs.	1st K Ago	2nd Gr.	3rd Gr.	4th Gr.	5th Gr.	K-5 Subt.	K-5 SCSE	K-5 Total (excl. PK)	PK 3 yrs.	PK 4yrs.	PK 5 Total	6th Gr.	7th Gr.	8th Gr.	6-8 Subt.	6-8 SCSE	6-8 Total	9th Gr.	10th Gr.	11th Gr.	12th Gr.	9-12 Subt.	9-12 SCSE	9-12 Total	PK Subt.	K-12 Subt.	K-12 Total	PK-12 Total					
Actual DATA		"s"	"s"	"s"	"s"	"s"							"s"	"s"	"s"				"s"	"s"	"s"	"s"												
2016-17	571	0.874	499	549	576	592	629	660	3505	0	3505	0	0	0	0	3505	621	668	665	1954	0	1954	627	609	645	585	2466	0	7925	7925	7925			
2017-18	579	0.869	503	570	582	582	614	643	3494	0	3494	0	0	0	0	3494	667	611	664	1942	0	1942	653	630	611	668	2562	0	7998	7998	7998			
2018-19	520	0.956	497	591	598	596	596	616	3494	0	3494	0	0	0	0	3494	645	674	605	1924	0	1924	633	659	631	613	2536	0	7954	7954	7954			
2019-20	534	0.955	510	575	613	618	599	626	3541	0	3541	0	0	0	0	3541	643	655	679	1977	0	1977	608	642	663	643	2556	0	8074	8074	8074			
2020-21	497	0.907	451	548	561	610	623	588	3381	0	3381	0	0	0	0	3381	622	644	641	1907	0	1907	668	616	629	681	2594	0	7882	7882	7882			
2021-22	499	0.936	467	512	589	573	614	624	3379	0	3379	0	0	0	0	3379	600	642	656	1898	0	1898	623	671	613	671	2578	0	7855	7855	7855			
6 Yr Average	0.916																																	
Survival Rate	0.916		1.137	1.039	1.017	1.016	1.012																											
Change # Students										-126	-126	-126																						
Change % Students										-4%	-4%	-4%																						
5-YR PROJECTIONS																																		
2022-23	445	0.916	408	531	532	599	582	621	3273	0	3273	0	0	0	0	3273	633	605	641	1879	0	1879	642	629	669	632	2572	0	7724	7724	7724			
2023-24	472	0.916	432	463	552	541	609	589	3187	0	3187	0	0	0	0	3187	630	638	604	1872	0	1872	627	648	627	689	2592	0	7651	7651	7651			
2024-25	479	0.916	439	492	482	561	550	616	3139	0	3139	0	0	0	0	3139	598	636	637	1870	0	1870	591	633	646	646	2517	0	7526	7526	7526			
2025-26	434	0.916	398	499	511	490	570	556	3024	0	3024	0	0	0	0	3024	625	603	634	1862	0	1862	624	597	631	666	2518	0	7403	7403	7403			
2026-27	471	0.916	431	452	519	520	498	577	2996	0	2996	0	0	0	0	2996	564	630	601	1796	0	1796	621	629	595	650	2496	0	7288	7288	7288			
Change # Students										-383	-383	-383																						
Change % Students										-11%	-11%	-11%																						
KEY to Number Colors																																		
99																																		
99																																		
99																																		
99																																		
99																																		
NOT CONSIDERED RELIABLE																																		
431	491	470	527	528	504	2951	0	2951	0	0	0	0	2951	585	569	629	1783	0	1783	589	627	628	613	2456	0	2456	0	7190	7190	7190				
431	491	510	478	536	534	2980	0	2980	0	0	0	0	2980	511	590	568	1669	0	1669	616	594	625	647	2482	0	2482	0	7130	7130	7130				
431	491	510	518	485	542	2978	0	2978	0	0	0	0	2978	542	515	589	1646	0	1646	556	621	593	644	2414	0	2414	0	7038	7038	7038				
431	491	510	518	527	491	2968	0	2968	0	0	0	0	2968	550	547	514	1611	0	1611	577	561	619	611	2368	0	2368	0	6947	6947	6947				
431	491	510	518	527	533	3010	0	3010	0	0	0	0	3010	498	555	545	1598	0	1598	503	582	560	638	2283	0	2283	0	6892	6892	6892				
Change # Students																																		



2018 - Demographic Multipliers

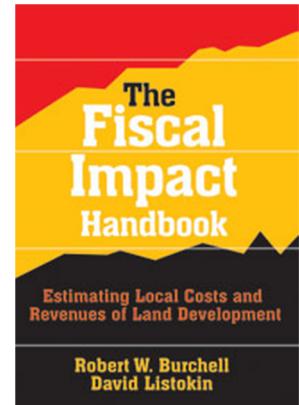
Technical Appendix

June 2022

The purpose of this appendix is to provide technical information and reference to supplement the 2018 Custom Demographic School Multipliers for the region containing nine Pennsylvania PUMAs containing and surrounding Spring-Ford School District.

Traditional Residential Demographic Multipliers

In 1978, Professors Robert Burchell and David Listokin first formalized a method to develop demographic multipliers, using the Census Bureau raw records for the long form questionnaire (SF3), as well as American Housing Survey data. In 2006, funded by the Fannie Mae Foundation, Burchell and Listokin released a series of residential multipliers for each state. In the same year, Listokin et al. published several editions of "Who Lives in New Jersey Housing? (WLNJH)" which produced demographic multipliers at a regional, sub-state level. Both the Fannie Mae series and WLNJH utilize the 2000 census Public Use Microdata Sample (PUMS) records. Also, they both report three multipliers: AVHH (average size of household), SAC (school age children) and PSAC (public school age children). As noted, while the Fannie Mae series provides statewide multipliers, the WLNJH provides demographic multipliers for New Jersey, both statewide multipliers and three sub-state regions. It also contains sections of age-restricted communities, affordable housing, and non-residential multipliers.



Community Data Analytics Demographic Multipliers

Community Data Analytics (CDA) has developed demographic multipliers using the 5-Year American Community Survey Public Use Microdata Sample (ACS-PUMS). The ACS-PUMS records are released every year, enabling CDA to update multipliers each year. Since the current CDA multipliers use the 2014-2018 ACS release, they reflect recent demographic changes. In contrast, both the Fannie Mae series and WLNJH base multiplier characteristics of households and housing units on data from the 1990s.

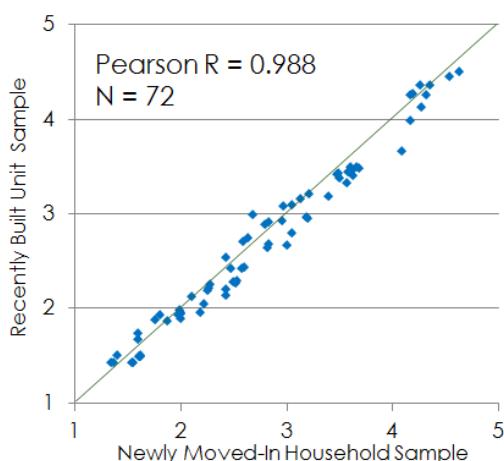
The PUMS records are reported at a level of geography called Public Use Microdata Area (PUMA) which is a geographical unit of at least 100,000 people. The usual population size ranges from 120,000 to 190,000. These records contain detailed responses by householders on each person in the household and the housing units in the ACS survey. CDA is able to apply variables for the time the householder moved in the unit, the year the unit was built, the age of each person, the grade level of students, and other attributes to develop samples and prepare a variety of demographic multipliers and planning ratios.

CDA also advances the methods of developing demographic multipliers at the local level. WLNJH attempted to provide locally specific multipliers by reporting three sets of multipliers by Northern, Central and Southern Jersey. However, because WLNJH samples recently built units, called the Recently Built Units Sample, its ability to provide statistically valid multipliers for smaller geographic units is limited by sample



size issues. The sample size is particularly insufficient during the period of the housing recession. Since the late 2000s, housing starts have dropped significantly and only recovered slowly in recent years.

To overcome the sampling problem, CDA developed a more significant sample based on household movement, called the Newly Moved-In Household Sample. This sample relies on the fact that relocating households can move into newly built units or older units, but in either case, these households are looking for similar housing services. These CDA multipliers are based on the Newly Moved-In Household Sample. That is, households that moved into their current housing unit less than four years ago for the 2014-2018 PUMS, the earliest moving year is 2010, i.e., four years before 2014. This newly moved-in household sample also includes housing units recently built. Since this sample is several times bigger than the recently built units, it makes the development of multipliers at the PUMA or PUMA aggregate level possible for most popular housing configurations.



2014 New Jersey State Level Scatterplot

Sources: Community Data Analytics (2018), based on 2000 Census and 2010-2014 5-Year ACS-PUMS

Also, the Newly Moved-In Household Sample has other advantages. Because it is less affected by housing market fluctuation than the Recently Built Unit Sample, the statistical validity of the multipliers is better. Second, multipliers from the Newly Moved-In Household sample show a more stable, long-term effect than those from the Recently Built Unit sample. Over time, units "recently" built will age and will be occupied by incoming households when the first occupying household moves out. The Newly Moved-In Household Samples better reflect the characteristics of the successive, replacement households.

The empirical test to examine the difference or similarity between the estimated multipliers from these two samples indicates that they are almost identical. The Pearson R of 72 pairs of multipliers for 2014 New Jersey data is 0.988.

Demographic Shifts

Over the last two decades, America has experienced a real estate bubble and a deep recession that have transformed the homebuilding industry and home buying preferences. America is also aging as baby-boomers are retiring and moving away from big suburban homes. Concurrently, echo-boomers have all been entering the labor market and in their prime time of family formation.

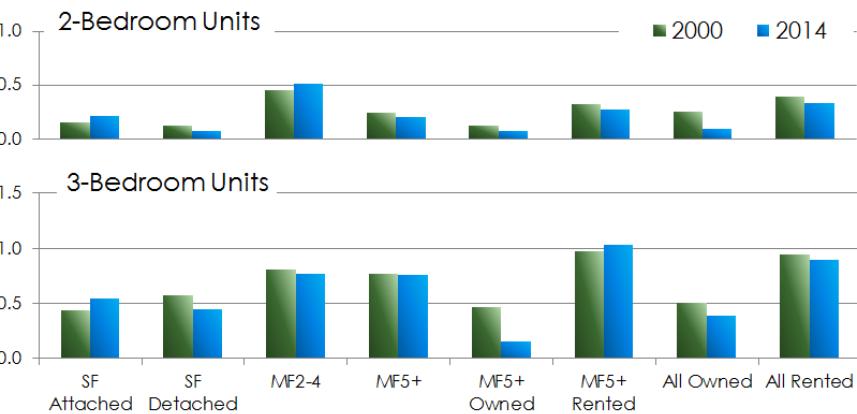
At the national level, between 2000 and 2010, the average size of households (AVHH) for all occupied units declined in 40 states and DC but grew in Nevada, California, Florida, Delaware, and Texas. It remained unchanged in New Jersey, Maryland, Virginia, Oklahoma, and Tennessee.



For example, in New Jersey, the estimated AVHH for all occupied units as reported in the 2015 1-Year ACS is 2.75, in comparison with 2.68 reported in the 2010 Census. The average SAC for all occupied units is almost identical between 2010 and 2015. In other words, New Jersey did not follow most states, which experienced a declining trend in AVHH and SAC.

We also note that at the state level; the absolute number of SAC has been slightly declining. The constant ratio of SAC per all occupied units indicates that the number of households is growing more slowly than the majority of other states.

The chart on the right illustrates the changes in New Jersey SAC overtime. The chart shows that even if the overall SAC may not change, there is significant reconfiguration among housing types. SAC ratio for either 2 or 3 bedroom townhomes is growing, in contrast to the decline in single-family detached units. There are increases in 2-bedroom multi-family (2-4 units) structures as well as 3-bedroom rented multi-family (5+ units) structures.



School-Age Children per Unit, Recently Built Unit Sample

Sources: Community Data Analytics (2018), based on 2000 Census and 2010-2014 5-Year ACS-PUMS

Public School-Age Children, Public School Children, or Public School Attendees?

The terms Public School-Age Children (PSAC) and Public School Children (PSC) deserve a technical discussion. The WLNJH and the Fannie Mae series report PSAC or PSC with grade cohort differentiation at the state level. However, the public school participation rate is specific to local school districts. Many factors affect the local rate, including the quality of the public school service, the religious and faith preference, and the income of the residents. Thus, a statewide PSAC or PSC ratio has one fundamental assumption that public school participation rate is uniform throughout the state. Impact analysts should avoid using the statewide PSAC or PSC to minimize estimation biases. While not ideal, a better method is to apply the local public school participation rate to the statewide SAC ratio for the relevant housing configuration.

Estimation bias can be reduced if the PSAC or PSC ratio is computed only for a small geography. As a result, CDA factors the local – not the statewide – public school participation rate into the multipliers. So far, only CDA can provide demographic multipliers at the very local level.

The technical documentation of the WLNJH and the Fannie Mae series does not provide a detailed specification of the PUMS variables used in deriving PSAC and PSC. Because WLNJH and the Fannie Mae multipliers are grade cohort differentiated, public school attendance and grade level variables were likely used. However, it is unclear if the WLNJH and the Fannie Mae series restrict estimates of public school attendees just to SAC, defined as age 5 to 17. Because a school age child can be home-schooled, attending



private or parochial school, public school, or for other reasons, not in the school systems, a public school attendee can be outside the age range of 5 to 17. For example, in rare cases, a public school system may serve students over 18 years old.

To accurately estimate the full school impact, CDA uses local Public School Attendees (PSA) instead of PSAC or SAC. Consequently, CDA captures the full impact on the public school system.

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Variables in Analysis

Public School Attendees (PA 9-PUMA region)

- Public school age children
 - Kindergarten – Grade 5
 - Grade 6 – Grade 8
 - Grade 9 – Grade 12
- Housing Configurations
 - Single Family Owner-Occupied
 - 2 bedrooms
 - 3 bedrooms
 - 4 bedrooms
 - Single Family Detached
 - 3 bedrooms
 - 4 bedrooms
 - Single Family Attached
 - 2 bedrooms
 - 3 bedrooms
 - Multi Family Owner-Occupied
 - 1 bedroom
 - 2 bedrooms
 - 3 bedrooms
 - Multi Family Renter-Occupied
 - 1 bedroom
 - 2 bedrooms
 - 3 bedrooms

PUMAs in Analysis

PUMA ID	PUMA Name
3101	Montgomery County (Northwest)--Pottstown Borough
3102	Montgomery County (Northeast)--Lansdale Borough
3104	Montgomery County (Central)--Norristown Borough
3001	Bucks County (North)
3105	Montgomery County (Southeast)--Willow Grove, Horsham & Montgomeryville
2703	Berks County (East)
3402	Chester County (East Central)--West Chester Borough
3401	Chester County (North)--Phoenixville Borough
3103	Montgomery County (Southwest)--King of Prussia & Ardmore (East)

*Spring-Ford School District is located within PA PUMA 3101.