

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



Prepared by



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**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.

**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.

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

**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		Target	Enroll	Excess	Excess
	Capacity	Utilization	Capacity	2026	Capacity	%
<b>Elem Schools Gr K-4</b>						
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	
<b>Interm School Gr 5-7</b>	2,564	85%	2,179	1,964	215	8%
<b>Middle School Gr 8</b>	911	85%	774	665	109	12%
<b>Middle School Gr 9</b>	925	80%	740	683	57	6%
<b>High School Gr 10-12</b>	2,919	80%	2,335	2,064	271	9%
<b>TOTAL</b>	<b>10,779</b>		<b>9,142</b>	<b>8,002</b>	<b>1,140</b>	

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.

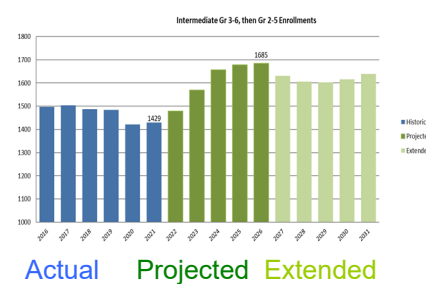
Actual enrollment data (Fall 2016– 2021) is from the official annual October submissions to PDE. Birth data is from the official web site of the Pennsylvania Department of Health.

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.**

## Profile: School District

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).

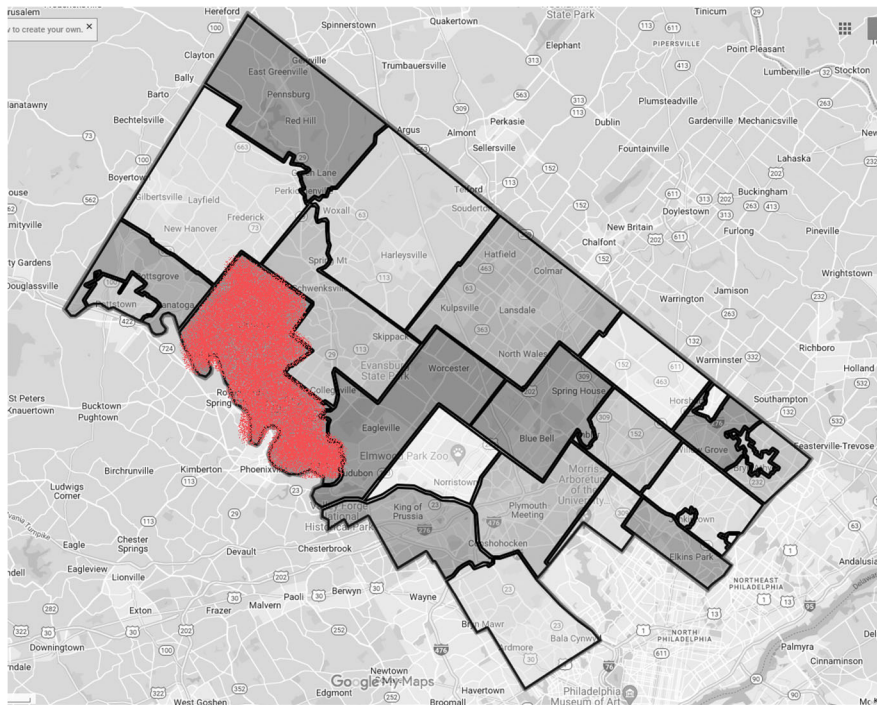
The growing community of approximately 50,990 straddles the US-422 bypass and offers the best of both a small-town atmosphere and proximity to metropolitan attractions. The district is characterized by small towns, suburban neighborhoods and rural areas, with the name being denoted through the combination 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.



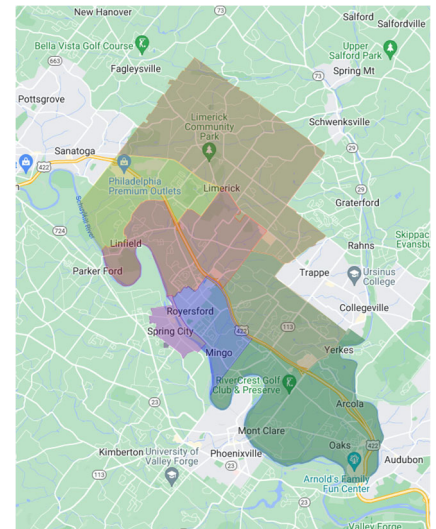
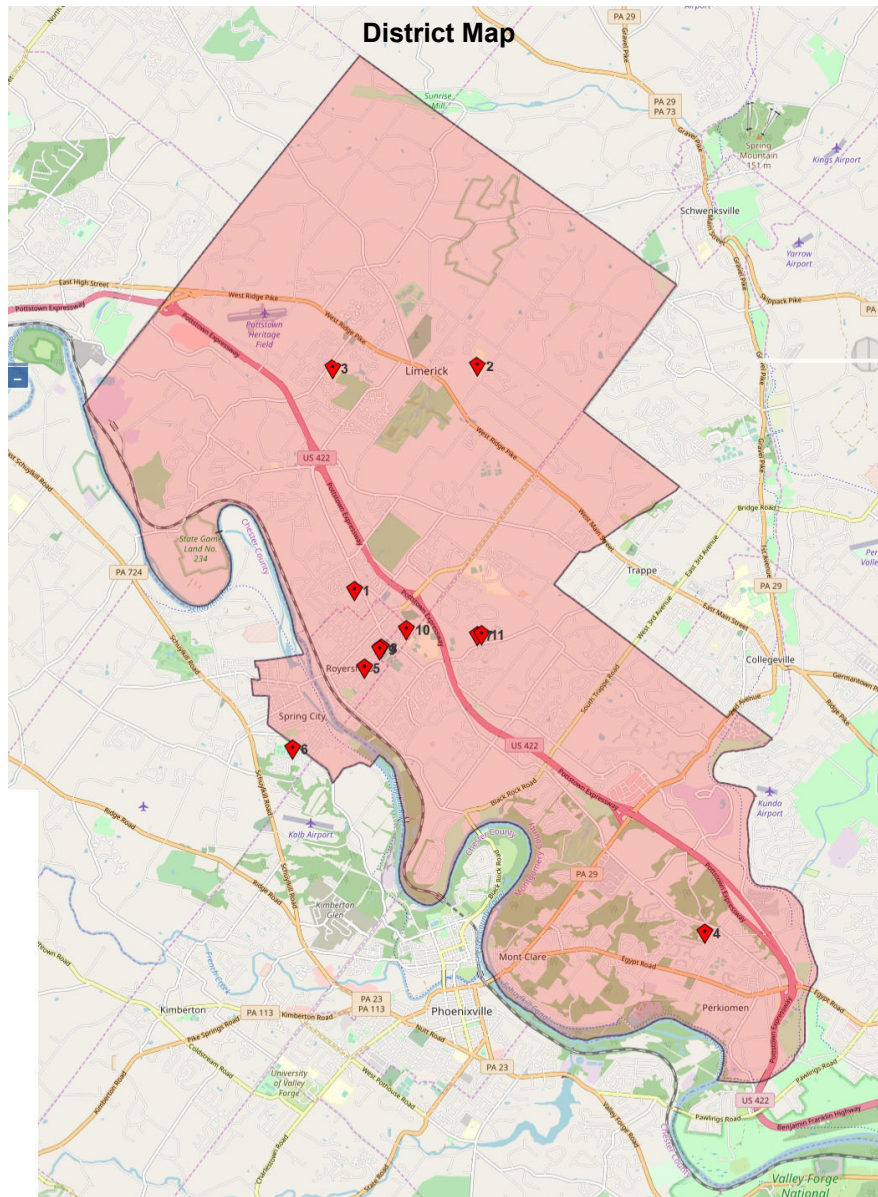
*The Spring-Ford Area School District serves over 7,800 students in grades K-12.*



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



## 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



## Public & Private Schools

### Comparative Enrollment 2018-20

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.

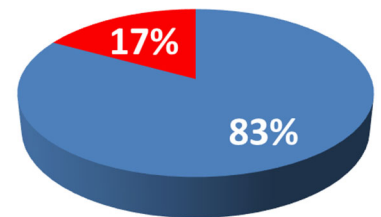
**Middle:** Public School is significantly higher than in the County and equivalent with the State.

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

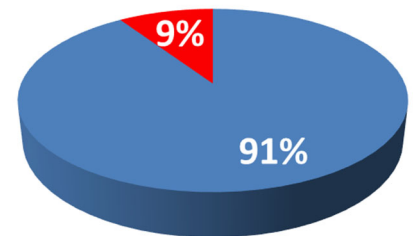
		SFASD	MontCo	Penn
<b>Kindergarten</b>	<b>Public</b>	83.0%	78.6%	83.9%
	<b>Private</b>	17.0%	21.4%	16.1%
<b>Elementary Gr 1-4</b>	<b>Public</b>	90.6%	84.6%	85.6%
	<b>Private</b>	9.4%	15.4%	14.4%
<b>Middle Gr 5-8</b>	<b>Public</b>	86.1%	82.8%	86.0%
	<b>Private</b>	13.9%	17.2%	14.0%
<b>High Sch Gr 9-12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

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

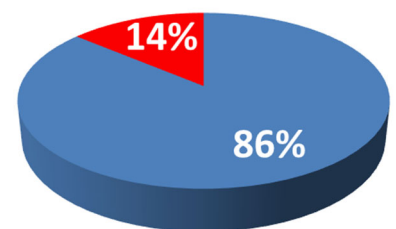
**Kindergarten**



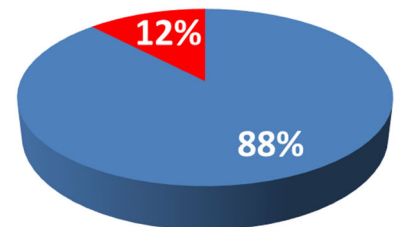
**Elementary Gr 1-4**



**Middle Gr 5-8**

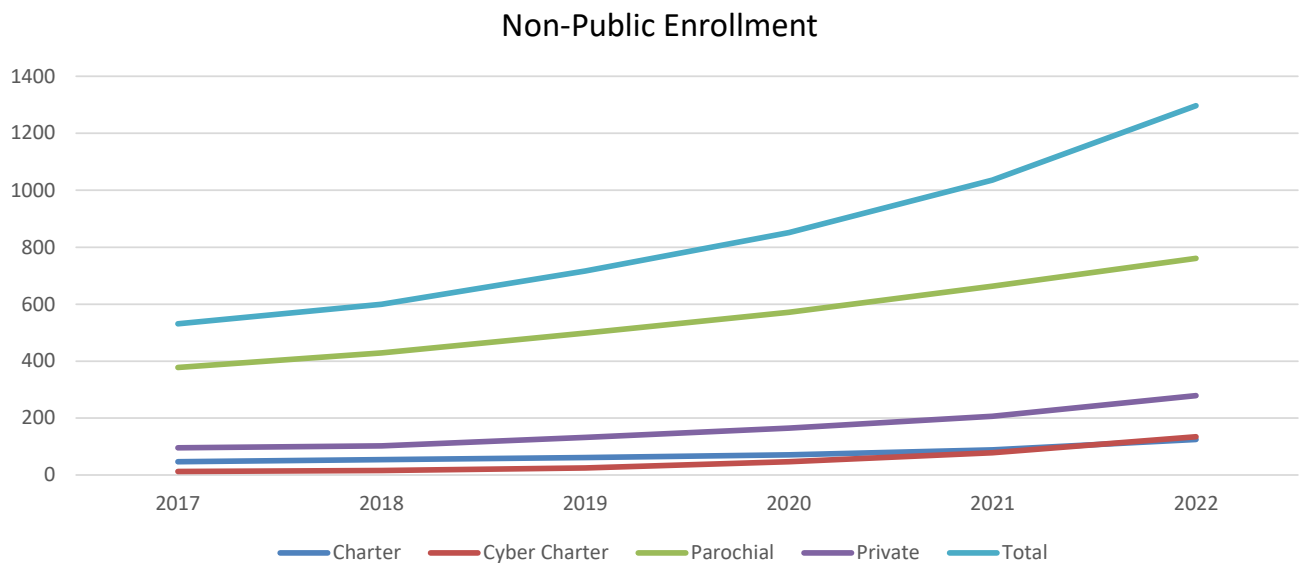


**High Gr 9-12**



## Non-Public Schools Comparative Enrollment 2017-22

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



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

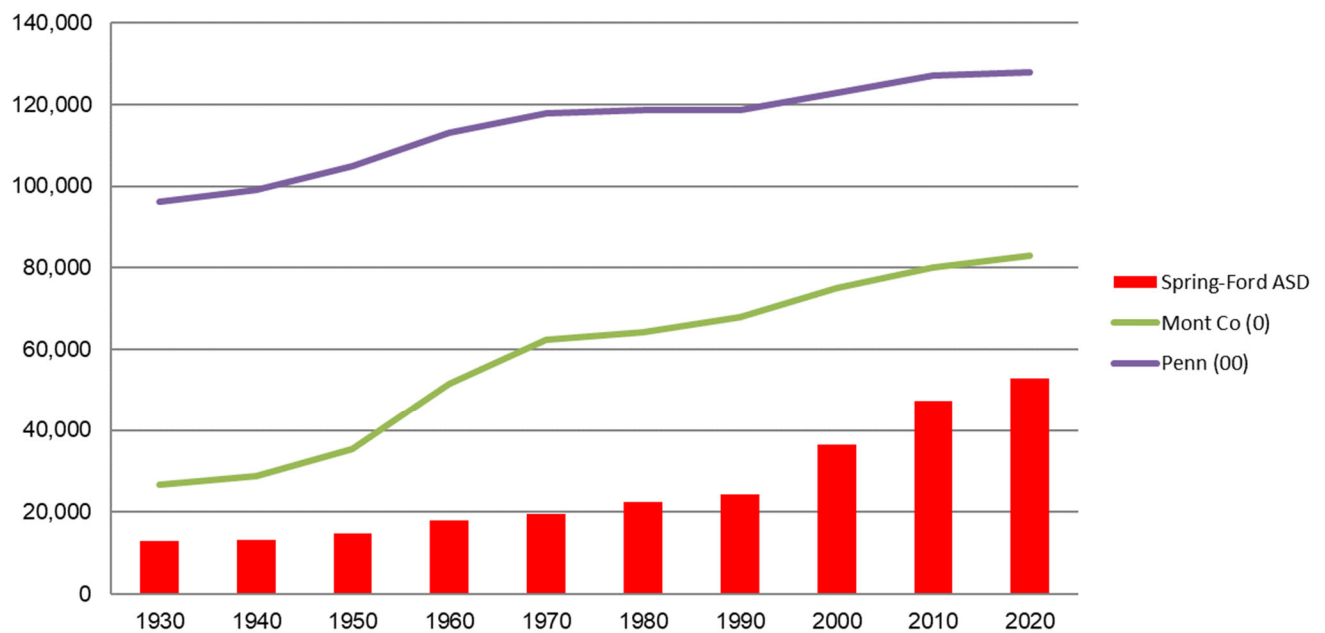
Comparative School District,  
County and State

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

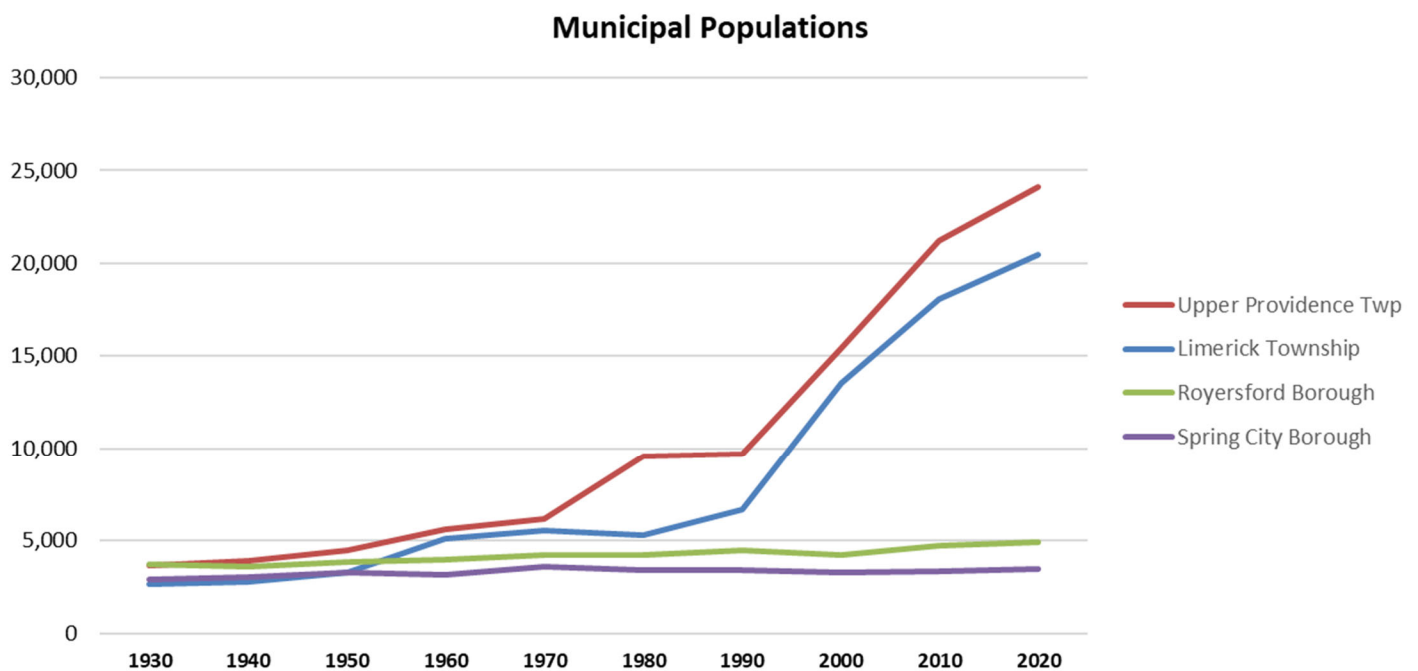
Local-County-State Comparative Population





## Population Growth Municipal Comparison

	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.



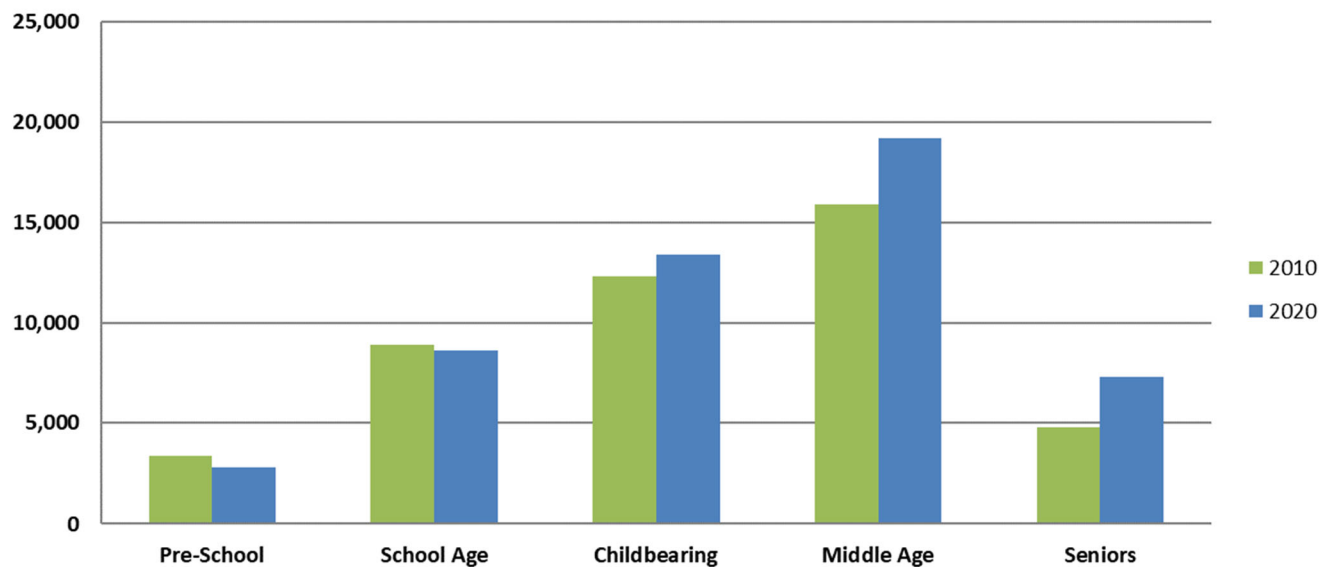
## Comparative Population by Age Groups

School District: 2010-2020

	Age	2010		2020
<b>Pre-School</b>	0-4	3,373	<b>-596</b>	2,777
<b>School Age</b>	5-17	8,949	<b>-293</b>	8,656
<b>Childbearing</b>	18-39	12,360	<b>1,057</b>	13,417
<b>Middle Age</b>	40-64	15,918	<b>3,301</b>	19,219
<b>Seniors</b>	65 +	4,815	<b>2,487</b>	7,302
		<b>45,415</b>	<b>5,956</b>	<b>51,371</b>

	Percents	2010	2020
<b>Pre-School</b>		7.4%	5.4%
<b>School Age</b>		19.7%	16.8%
<b>Childbearing</b>		27.2%	26.1%
<b>Middle Age</b>		35.0%	37.4%
<b>Seniors</b>		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).

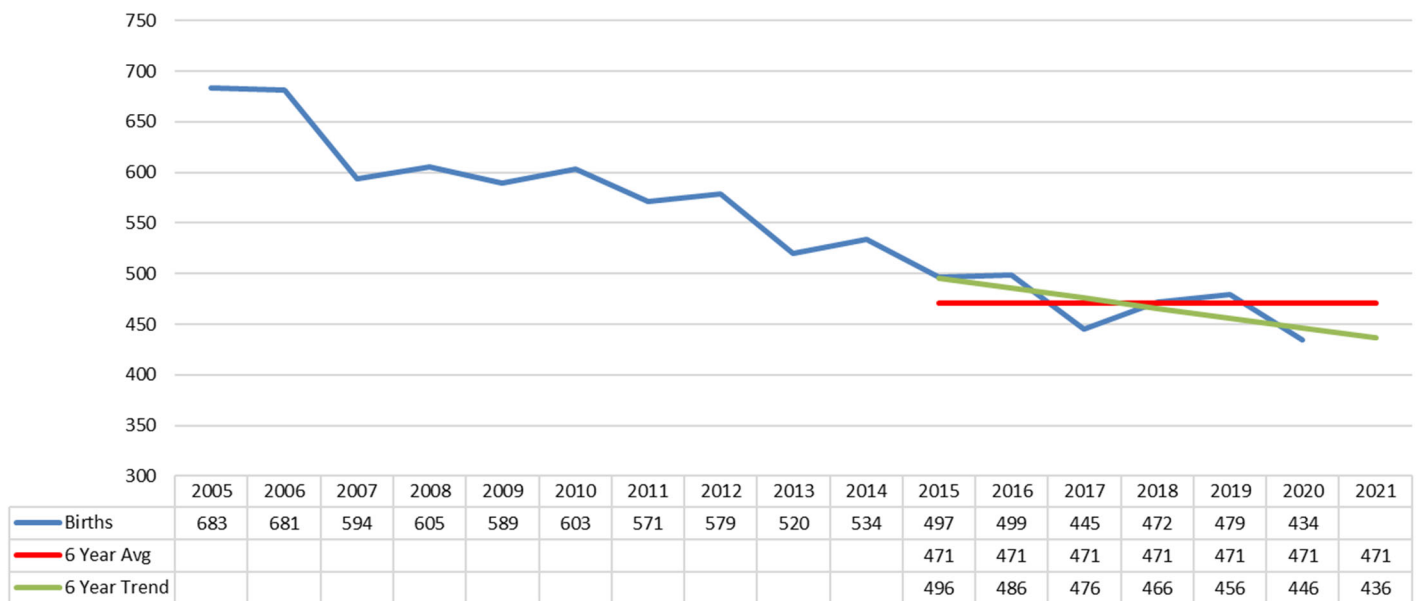
However births could easily turn around and start an increase. It is for that reason that **the Cohort Survival methodology is based on averages**. The 6-year average is from the same years as the 6-years of actual enrollments that is the basis of the Cohort Survival projection used in this study. The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

*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.*

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

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

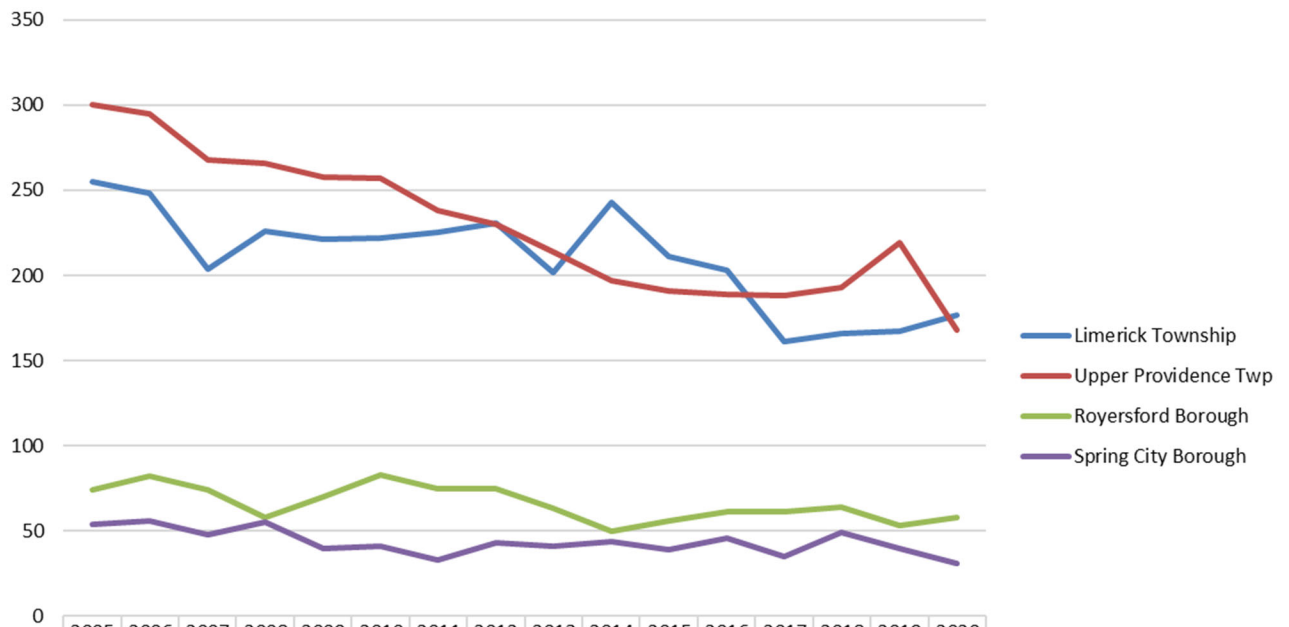
Live Births in each contributing municipality are provided below.

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



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Limerick Township	255	248	204	226	221	222	225	231	202	243	211	203	161	166	167	177
Upper Providence Twp	300	295	268	266	258	257	238	230	214	197	191	189	188	193	219	168
Royersford Borough	74	82	74	58	70	83	75	75	63	50	56	61	61	64	53	58
Spring City Borough	54	56	48	55	40	41	33	43	41	44	39	46	35	49	40	31

Source: Pa Dept. of Health at [http://www.portal.state.pa.us/portal/server.pt/community/health\\_statistics\\_and\\_research/11599](http://www.portal.state.pa.us/portal/server.pt/community/health_statistics_and_research/11599)



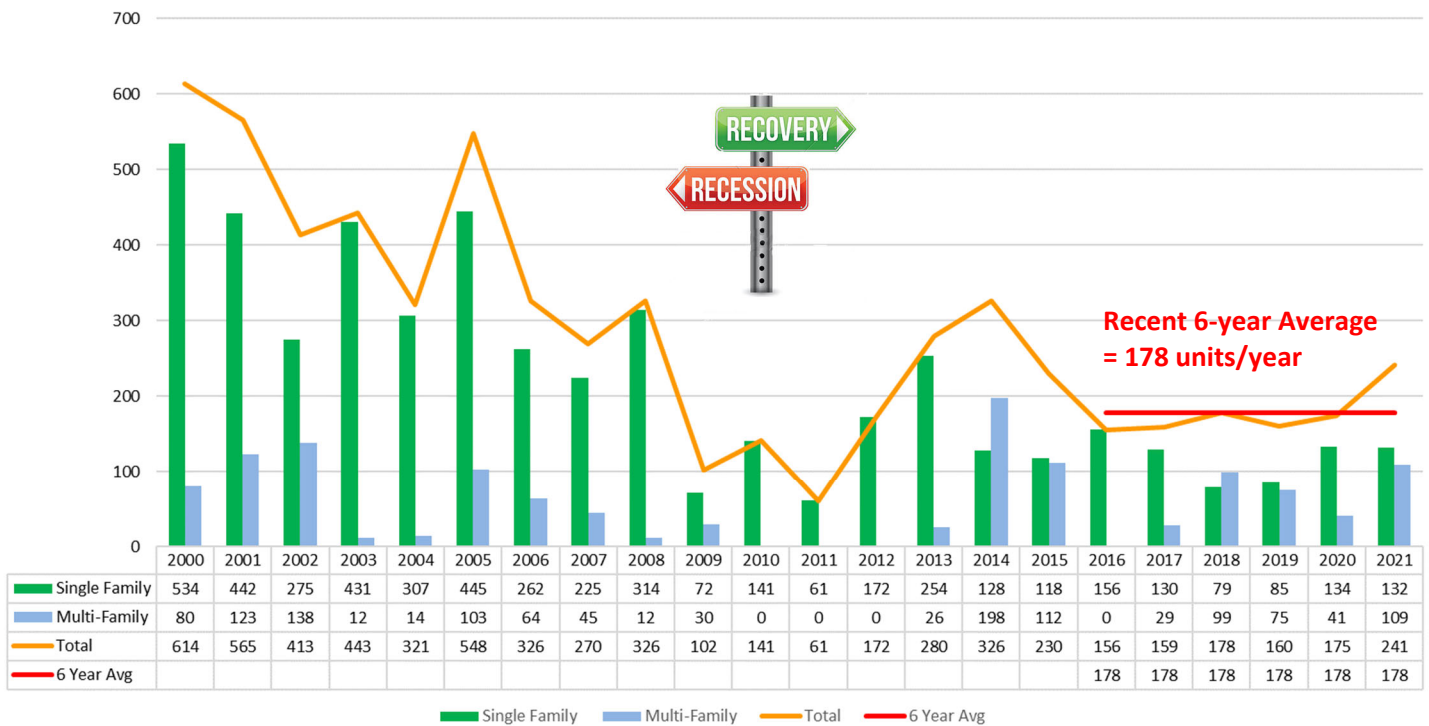
## Residential Permitting History for New Construction

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.

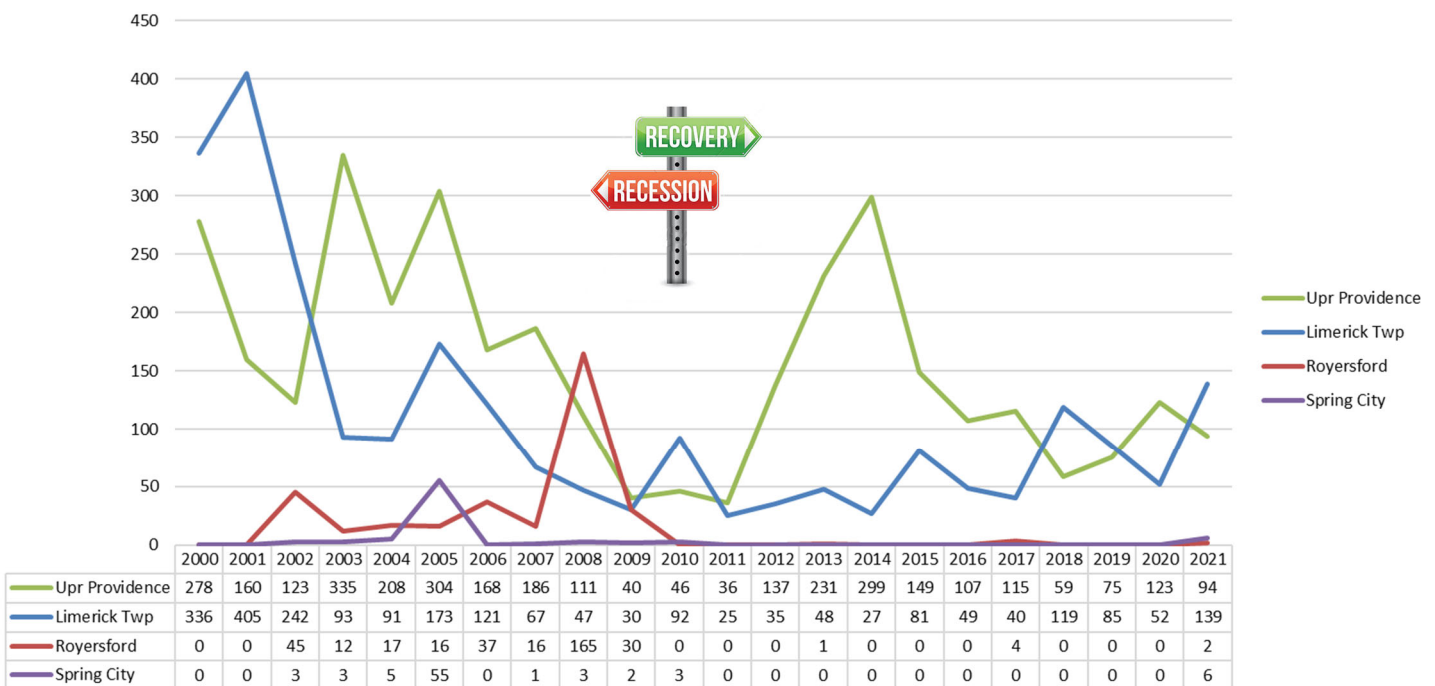
Limerick Township averaged 26 Single Family and 55 Multi-family units over the last 6 years.

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
<b>Limerick Twp</b>											
1 <b>Sukonik Limerick Homes</b> <i>School Rd</i>	SF	3-4 Bdrms	51		20	20	11			51	Evans
2 <b>Approved SF X 5</b> <i>Misc. Locations</i>	SF	3-4 Bdrms	12		6	6				12	
3 <b>Limerick Town Ctr</b> <i>Swamp Pike</i>	TH	2 Bdrm	10			10				10	Evans
	TH	3 Bdrm	20			20				20	Evans
4 <b>Gambone</b> <i>614 W. Ridge Pike</i>	Apt	2 Bdrm	8			8				8	Limerick
5 <b>Piazza Realty Co. Inc.</b> <i>3373 Ridge Pike</i>	TH	3 Bdrm	19				19			19	Evans
6 <b>544 Limerick Center Rd.</b> <i>544 Limerick Center Road</i>	SF	3-4 Bdrms	10				10			10	Limerick
7 <b>Ironwood</b> <i>S. Limerick Road</i>	TH	2 Bdrm	25				12	13		25	Brooke
	TH	3 Bdrm	70				35	35		70	Brooke
8 <b>RML Construction</b> <i>Game Farm Road</i>	SF	3-4 Bdrms	4			4				4	Evans
9 <b>Neiffer Road Devel., LLC</b> <i>1 &amp; 15 Neiffer Road</i>	TH	2 Bdrm	10					10		10	Evans
	TH	3 Bdrm	24					24		24	Evans
10 <b>Saratoga Springs (Metro Con)</b> <i>Evergreen Road</i>	Apts	1 Bdrm	45				15	15	15	45	Brooke
	Apts	2 Bdrm	257				85	86	86	257	Brooke
	Apts	3 Bdrm	30				10	10	10	30	Brooke
11 <b>MacMichael &amp; Celli Tracts</b> <i>511 &amp; 523 Linfield Road</i>	TH	2 Bdrm	6						6	6	Brooke
	TH	3 Bdrm	35						35	35	Brooke
<b>Limerick Township</b>										<b>636</b>	
<b>Royersford Borough</b>											
12 <b>Riverwalk</b>	TH	2 Bdrm	48				24	24		48	Spring City
	TH	3 Bdrm	140				70	70		140	Spring City
<b>Royersford Total</b>										<b>188</b>	

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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 <b>Gambone Developers</b> <i>615 Egypt Rd.</i>	TH	3 Bdrm	49	19	15	15				30	Oaks ES
14 <b>Jim Terra Devel</b> <i>188 Bechtel Rd.</i>	SF	3-4 Bdrms	8	1	3	4				7	Upr Prov ES
15 <b>Founders Estates (Barker)</b> <i>116 Hess Rd.</i>	SF	3-4 Bdrms	16		4	4	4	4		16	Upr Prov ES
16 <b>Oxford Lea (Stearly)</b> <i>395 Greenwood Ave</i>	SF	3-4 Bdrms	17		6	6	5			17	Evans ES
17 <b>Res at Prov Town Ctr</b> <i>Arcola Rd &amp; Water Loop Rd.</i>	Apts	1 Bdrm	250			125	125			250	Upr Prov ES
	Apts	2 Bdrm	250			125	125			250	
	Apts	3 Bdrm	85			42	43			85	
18 <b>172 Hopwood (Galman)</b> <i>Hopwood Rd &amp; Morgan Lane</i>	TH	3 Bdrm	48					48		48	Upr Prov ES
19 <b>Yerkes Station</b> <i>Hopwood Road and Route 29/Collegeville Road</i>	Apts	1 Bdrm	103				52	51		103	Oaks
	Apts	2 Bdrm	103				52	51		103	
	Apts	3 Bdrm	22				11	11		22	
20 <b>PRDC Kline Road</b> <i>Kline and Linfield Trappe Roads</i>	SF	3-4 Bdrms	30				15	15		30	Evans
21 <b>Meadows at Longview (WE)</b> <i>Greenwood Ave &amp; Knoll Circle</i>	SF	3-4 Bdrms	25			12	13			25	Evans
22 <b>Toll Brothers / Foley</b> <i>Rittenhouse and Hess Roads</i>	SF	3-4 Bdrms	54					27	27	54	Upr Prov ES
23 <b>South Lewis Road Townhou</b> <i>Lewis and Vaughn Roads</i>	TH	3 Bdrm	21					21		21	Royersford
24 <b>Amelia Street Townhomes</b> <i>Amelia Street and Route 29/Collegeville Road</i>	TH	3 Bdrm	8						8	8	Oaks
25 <b>Parkhouse Resident Care</b> <i>Age-Restricted</i>	MXD		1,203							0	
Upper Providence Total										1,069	
Spring City Borough											
26 <b>Spring Hill Villages-Lennar</b>	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 <b>Spring Hill Vill-Ph 2</b> <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

Type	# Bdrms	Multiplier Public SAC (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	2022	2023	2024	2025	2026	5 Yr Total	Elementary School
Limerick Twp										
1 <b>Sukonik Limerick Homes</b> <i>School Rd</i>	SF	3-4 Bdrms	0.721	14.42	14.42	7.93			36.8	Evans
2 <b>Approved SF X 5</b> <i>Misc. Locations</i>	SF	3-4 Bdrms	0.721	4.33	4.33				3.0 3.0 3.0	Evans Limerick Brooke
3 <b>Limerick Town Ctr</b> <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 <b>Gambone</b> <i>614 W. Ridge Pike</i>	Apt	2 Bdrm	0.241		1.93				1.9	Limerick
5 <b>Piazza Realty Co. Inc.</b> <i>3373 Ridge Pike</i>	TH	3 Bdrm	0.501			9.52			9.5	Evans
6 <b>544 Limerick Center Rd.</b> <i>544 Limerick Center Road</i>	SF	3-4 Bdrms	0.721			7.21			7.2	Limerick
7 <b>Ironwood</b> <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 <b>RML Construction</b> <i>Game Farm Road</i>	SF	3-4 Bdrms	0.721		2.88				2.9	Evans
9 <b>Neiffer Road Devel., LLC</b> <i>1 &amp; 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 <b>Saratoga Springs (Metro Con</b> <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 <b>MacMichael &amp; Celli Tracts</b> <i>511 &amp; 523 Linfield Road</i>	TH	2 Bdrm	0.234					1.40	1.4	Brooke
	TH	3 Bdrm	0.501					17.54	17.5	Brooke
<b>Limerick Township</b>									<b>243</b>	
Royersford Borough										
12 <b>Riverwalk</b>	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
<b>Royersford Total</b>									<b>81</b>	

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	2025	2026	5 Yr Total	Elementary School
13 Upper Providence <b>Gambone Developers</b> 615 Egypt Rd.	TH	3 Bdrm	0.501	19	7.5	7.5				15.0	Oaks ES
14 <b>Jim Terra Devel</b> 188 Bechtel Rd.	SF	3-4 Bdrms	0.721	1	2.2	2.9				5.0	Upr Prov ES
15 <b>Founders Estates (Barker)</b> 116 Hess Rd.	SF	3-4 Bdrms	0.721		2.9	2.9	2.9	2.9		11.5	Upr Prov ES
16 <b>Oxford Lea (Stearly)</b> 395 Greenwood Ave	SF	3-4 Bdrms	0.721		4.3	4.3	3.6			12.3	Evans ES
17 <b>Res at Prov Town Ctr</b> Arcola Rd & Water Loop Rd.	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	0.873			36.7	37.5			74.2	Upr Prov ES
18 <b>172 Hopwood (Galman)</b> Hopwood Rd & Morgan Lane	TH	3 Bdrm	0.501					48.0		48.0	Upr Prov ES
19 <b>Yerkes Station</b> Hopwood Road and Route 29/Colle	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	0.873				9.6	9.6		19.2	Oaks
20 <b>PRDC Kline Road</b> Kline and Linfield Trappe Roads	SF	3-4 Bdrms	0.721				10.8	10.8		21.6	Evans
21 <b>Meadows at Longview (WE</b> Greenwood Ave & Knoll Circle	SF	3-4 Bdrms	0.721			8.7	9.4			18.0	Evans
22 <b>Toll Brothers / Foley</b> Rittenhouse and Hess Roads	SF	3-4 Bdrms	0.721					19.5	19.5	38.9	Upr Prov ES
23 <b>South Lewis Road Townhou</b> Lewis and Vaughn Roads	TH	3 Bdrm	0.501					10.5		10.5	Royersford
24 <b>Amelia Street Townhomes</b> Amelia Street and Route 29/Collegeville Road	TH	3 Bdrm	0.501						4.0	4.0	Oaks
25 <b>Parkhouse Resident Care</b> <i>Age-Restricted</i>	MXD									0.0	
<b>Upper Providence Total</b>										<b>372</b>	
Spring City Borough											
26 <b>Spring Hill Villages-Lennar</b>	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 <b>Spring Hill Vill-Ph 2</b>	SF	4 Bdrms	0.721				10.82	10.82		21.6	Spring City
<b>Spring City Total</b>										<b>118</b>	
<b>Grand Total</b>										<b>814</b>	





## 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		K		1st	2nd	3rd
	5 Sch Yrs. Ago	"s"	"s"	"s"	Gr.	Gr.	Gr.
2011-12	169	1538	260	308	327	404	
2012-13	175	1651	289	313	338	336	
2013-14	132	2,091	276	328	319	351	
2014-15	131	1,915	251	308	340	328	
2015-16	143	1,720	246	290	327	362	
2016-17	187	1,545	289	299	302	346	
6 Yr Avg SR		1.744	1.165	1.051	1.043		

### Projected Enrollments

5-YR PROJECTIONS		K		1st	2nd	3rd
Year	Births	K	1st	2nd	3rd	4th
2017-18	185	323	337	314	315	
2018-19	190	331	376	354	328	
2019-20	187	326	386	395	369	
2020-21	181	316	380	406	412	
5 Yr Average		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.

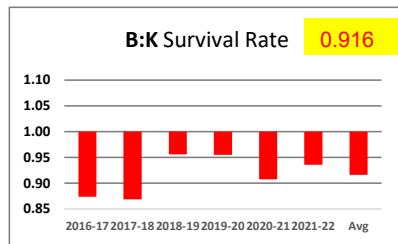
*Modifications were made to the Standard projection for the impact of additional students from Residential Developments.*

### 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	<b>814</b>

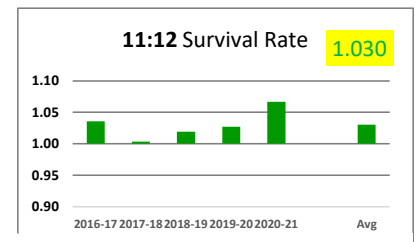
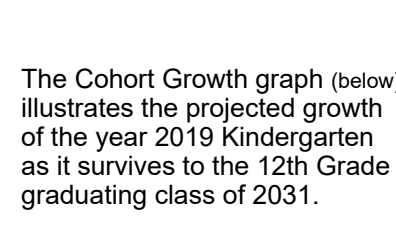
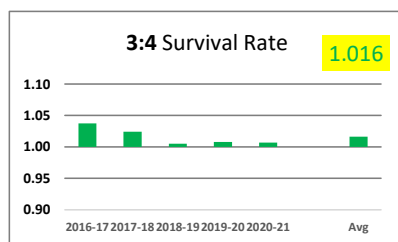
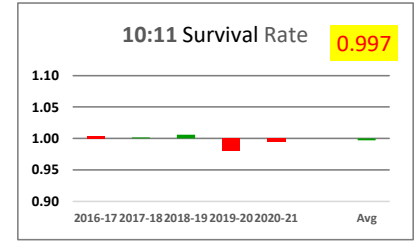
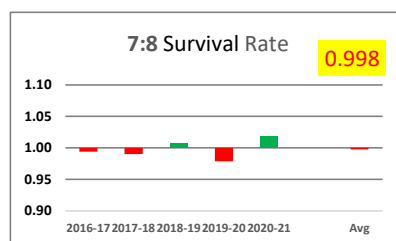
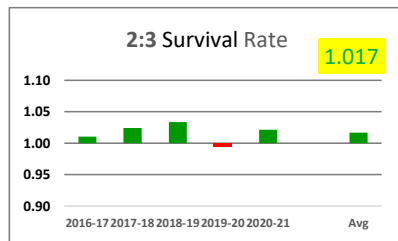
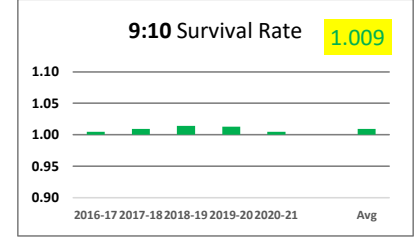
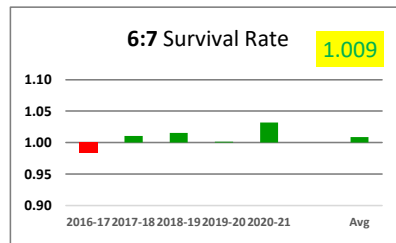
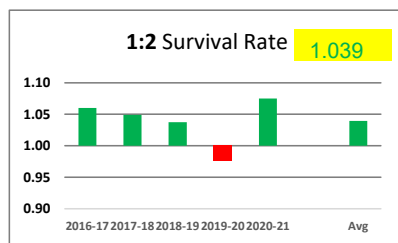
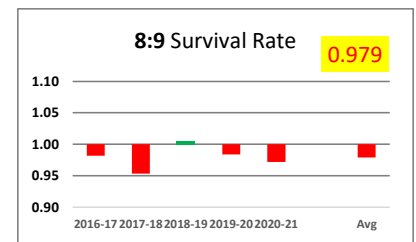
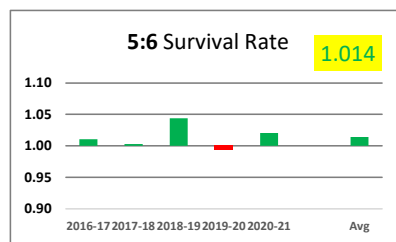
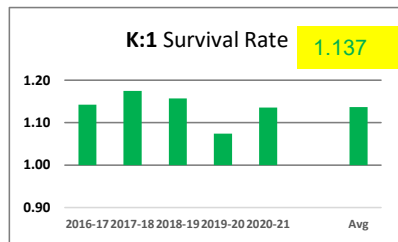


## Cohort Survival Rates Standard Projection



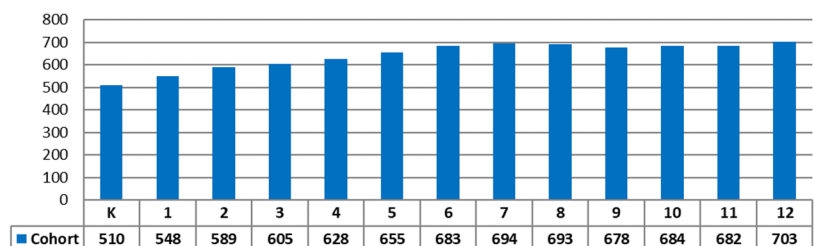
On this page are graphs of each year of each Grade Level Survival Ratio, followed by a five-year average. Red bars are a Survival Rate below 1.0 signifying student loss between grades and green bars are greater than 1.0 indicating growth from one grade to the next.

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



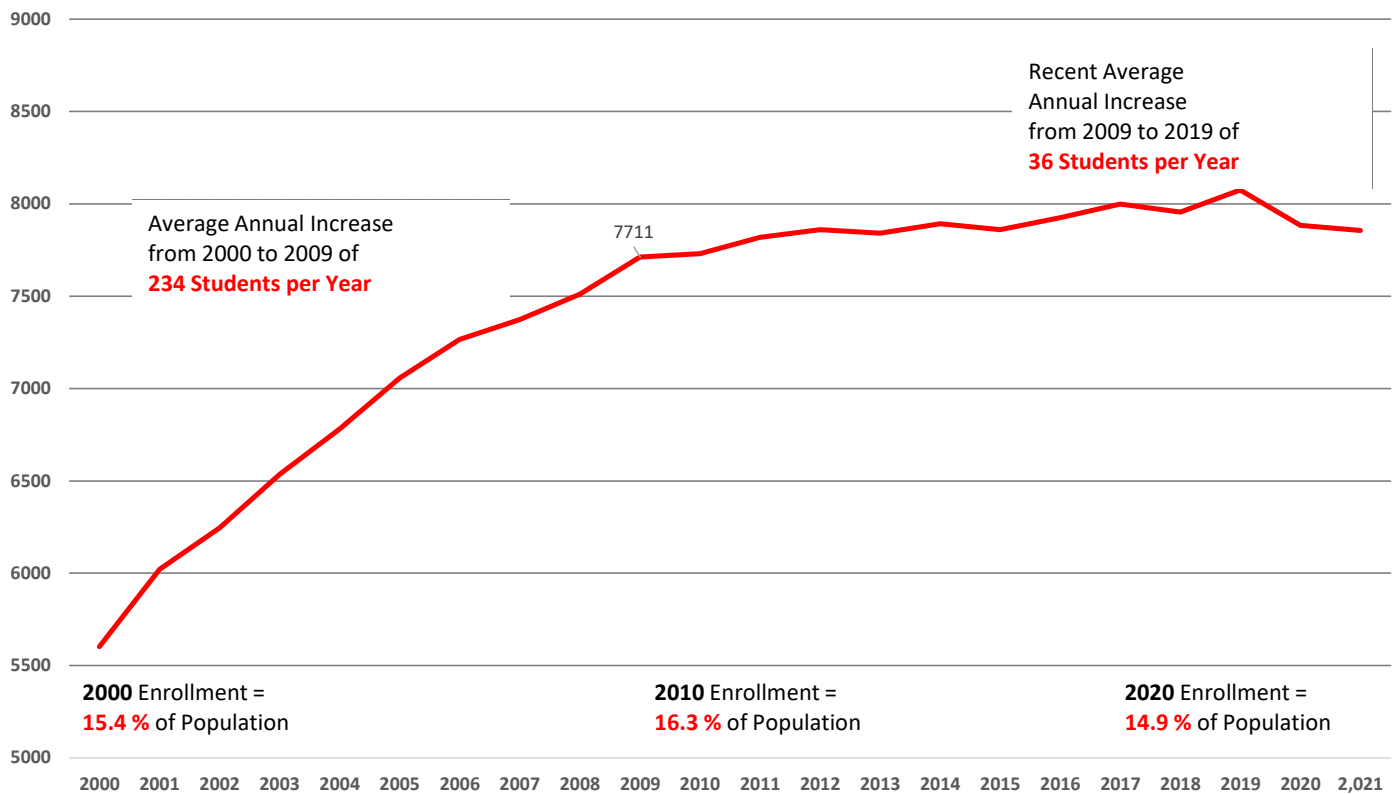
The Cohort Growth graph (below) illustrates the projected growth of the year 2019 Kindergarten as it survives to the 12th Grade graduating class of 2031.

Cohort Growth: 2019 K - 2031 Gr 12



## Actual Enrollments History 2000-2021

Historical Enrollment October 2000 to 2021



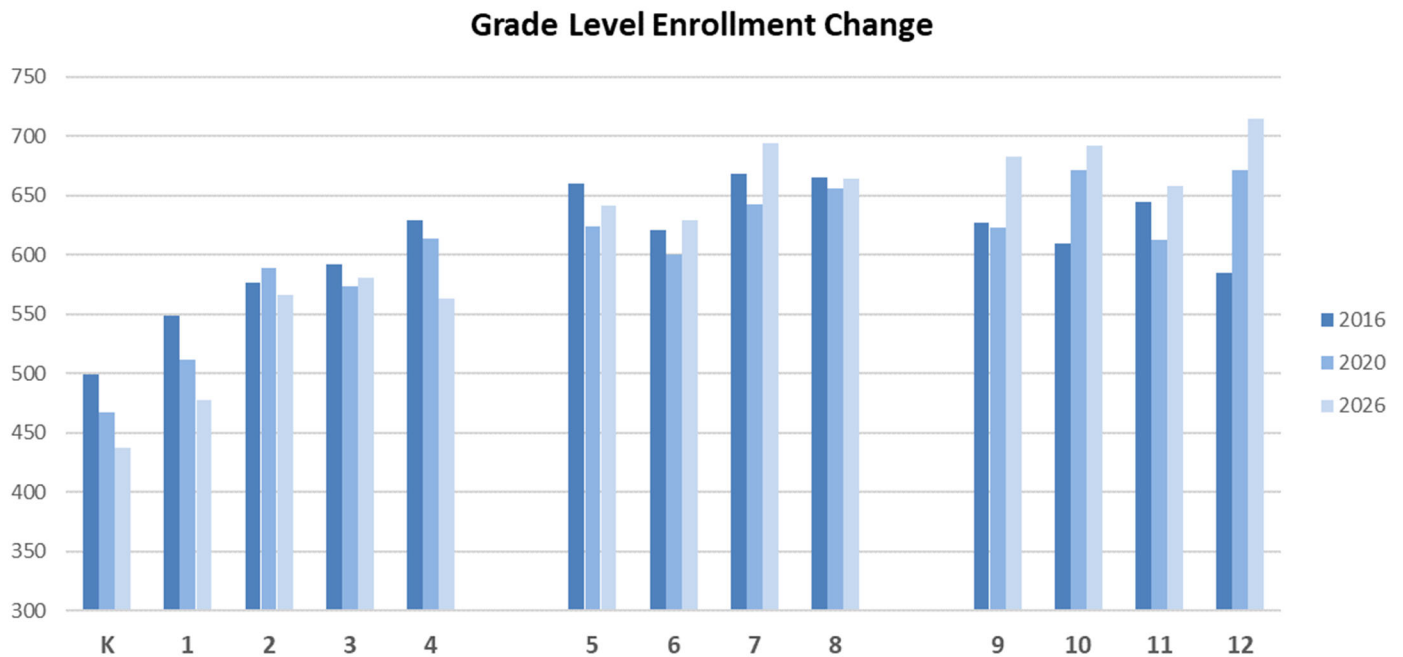
As a Percent of Population, Student Enrollment has increased from 15.4% in year 2000 to 16.3 % in year 2010 and decreased to 14.9% in 2020.

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.

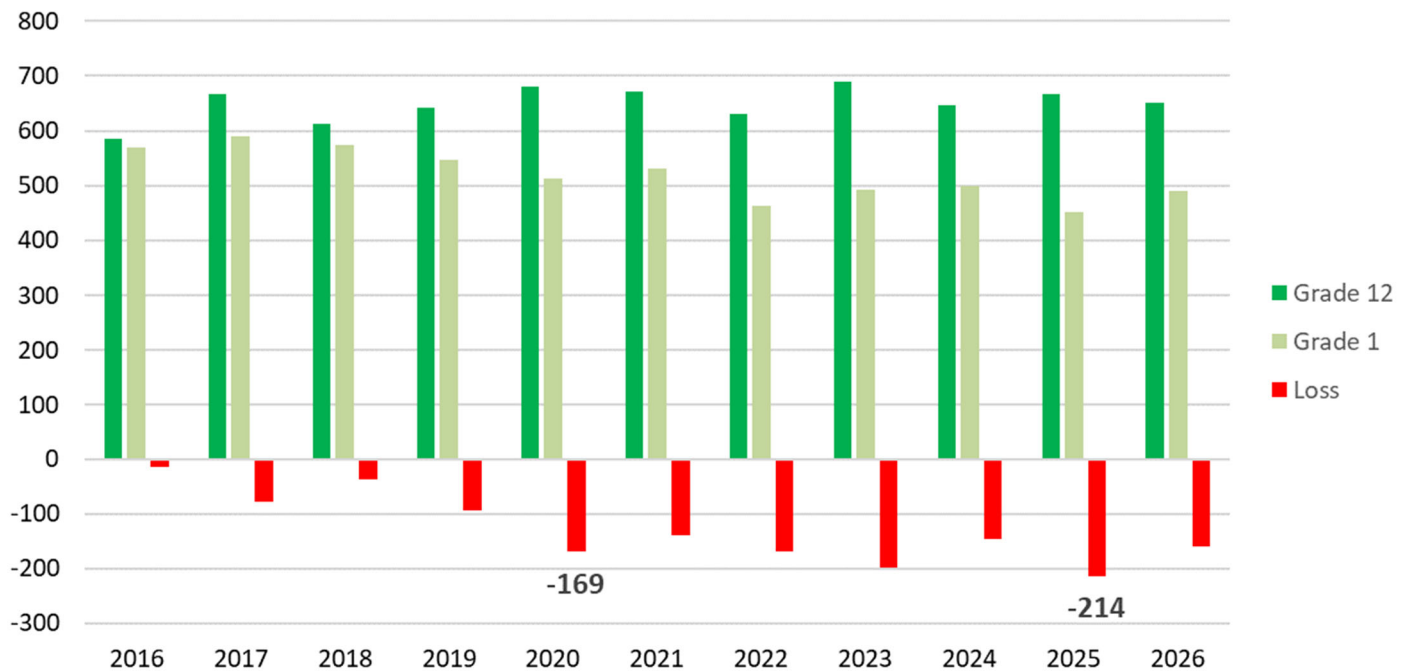
Enrollments in the middle school grades 5-8 also decreased from the beginning to the end of the Actual period. However enrollments are anticipated to increase in the 5-year projection period through 2026.

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					Average
	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

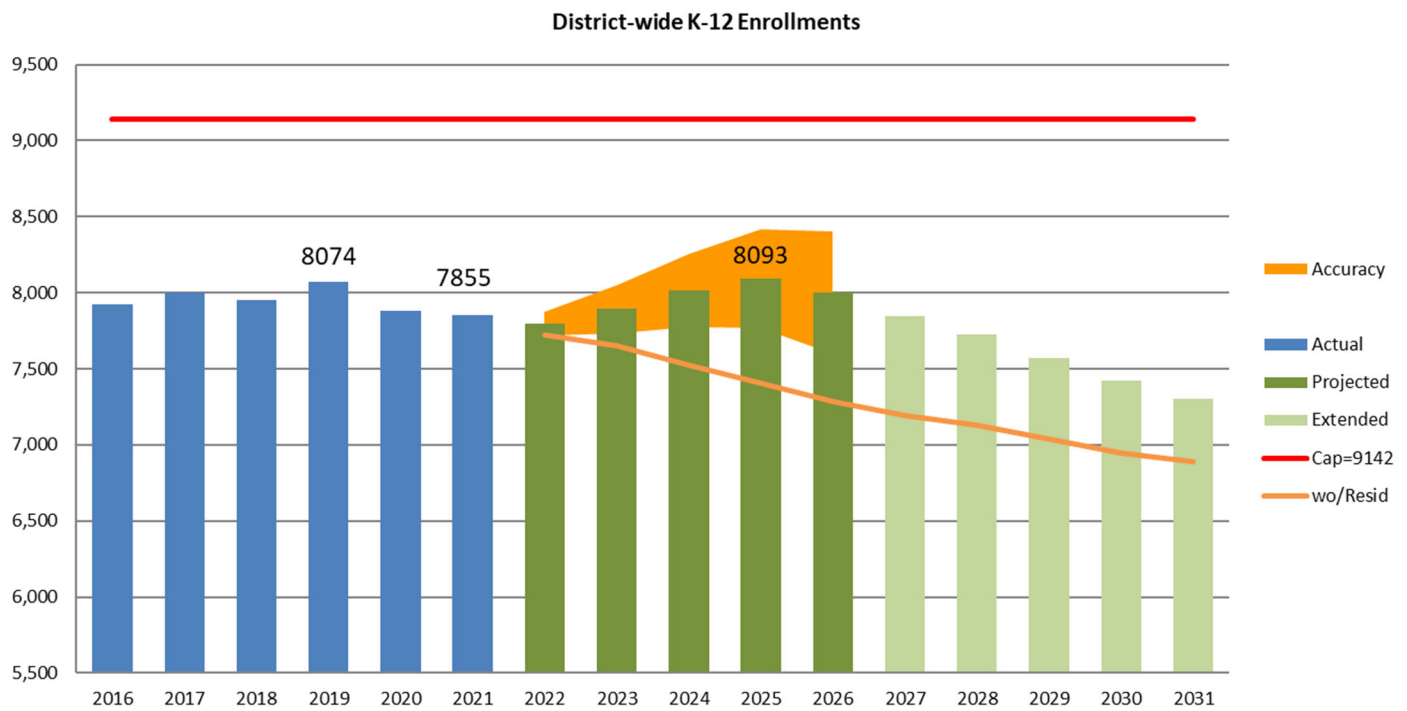


The difference between the prior year 12th Grade graduating class and the incoming Grade 1 is increasing, leading to decreasing enrollment.

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).

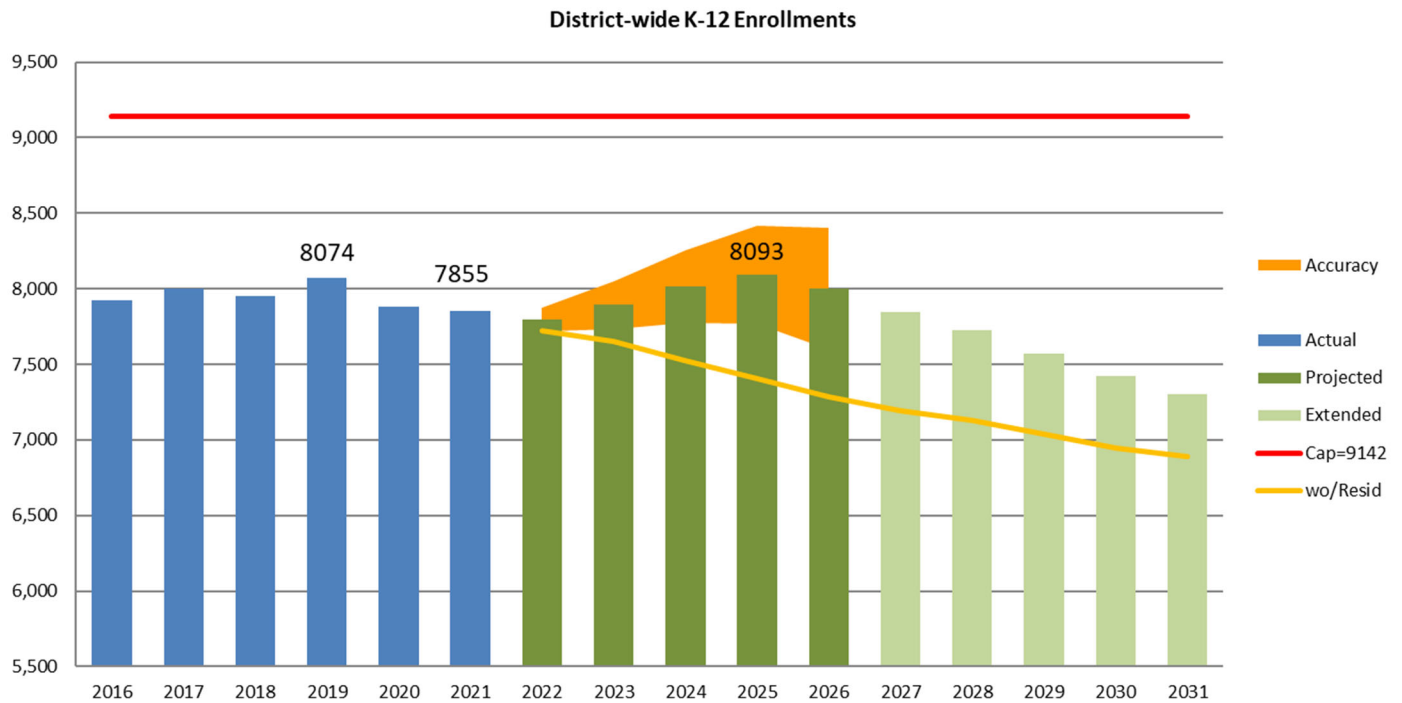
**ACCURACY:** Cohort Survival Enrollment Projections have an accuracy of  $\pm 1\%$  per year as represented by the golden cone on the chart and establishes a 5th year range for enrollments between 7,601 and 8,401 students.

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 enrollments 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
<b>Actual</b>	2016	7,925		
	2017	7,998		
	2018	7,954		
	2019	8,074	7,948	
	2020	7,882		
	2021	7,855	-70	-0.9%
<b>Projected</b>	2022	7,798		
	2023	7,892		
	2024	8,017	7,960	
	2025	8,093		
	2026	8,001	146	1.9%
<b>Extended</b>	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.

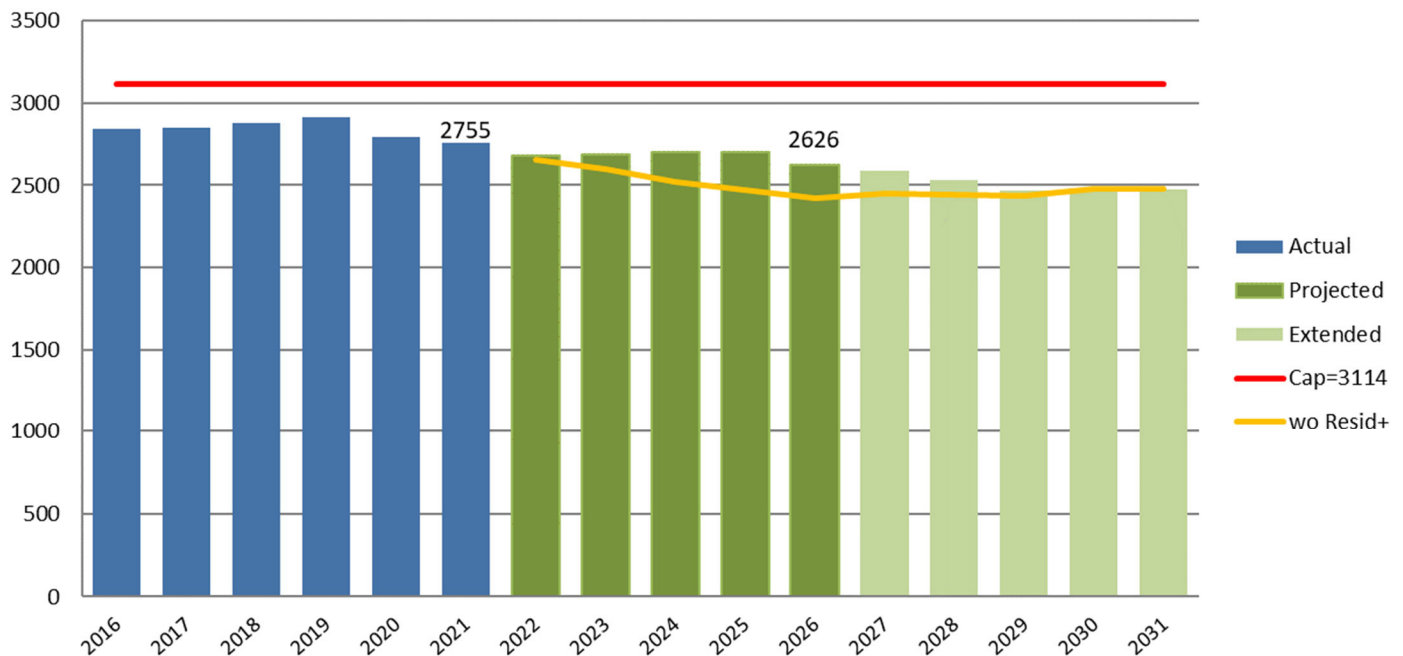
In the projection period enrollments will continue to decrease by 129 students to 2,626 students at the end of the projection period in year 2026-27.

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

								K-4	Period to Period	
		PK	K	1	2	3	4	UG	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.

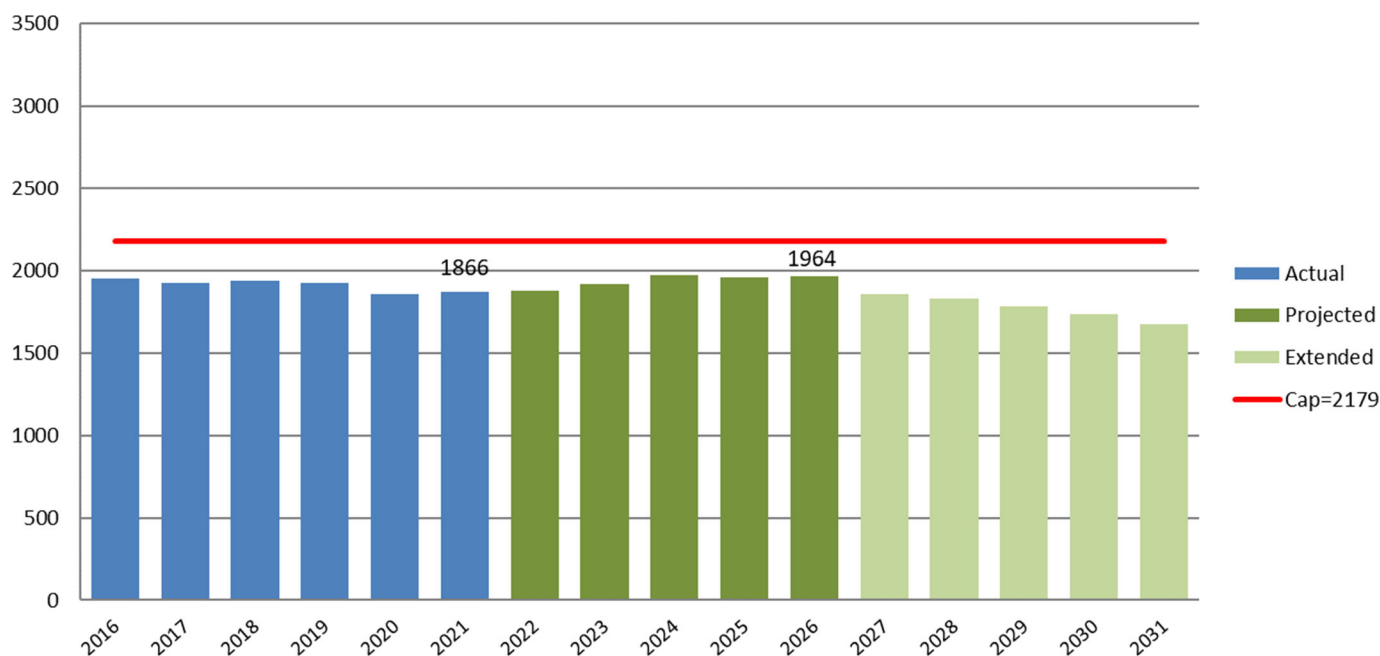
In the projection period enrollments will increase by 98 students to a new high of 1,964 students at the end of the projection period.

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.

		Gr 5-7			Period	Period
		5	6	7	UG	TOTAL
					Average	Change
Actual	2016	660	621	668		1,949
	2017	643	667	611		1,921
	2018	616	645	674		1,935
	2019	626	643	655	1908	1,924
	2020	588	622	644		1,854
	2021	624	600	642		1,866
Projected	2022	627	639	611		1,877
	2023	608	649	657		1,915
	2024	655	637	675	1936	1,968
	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	1774	1,781
	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.

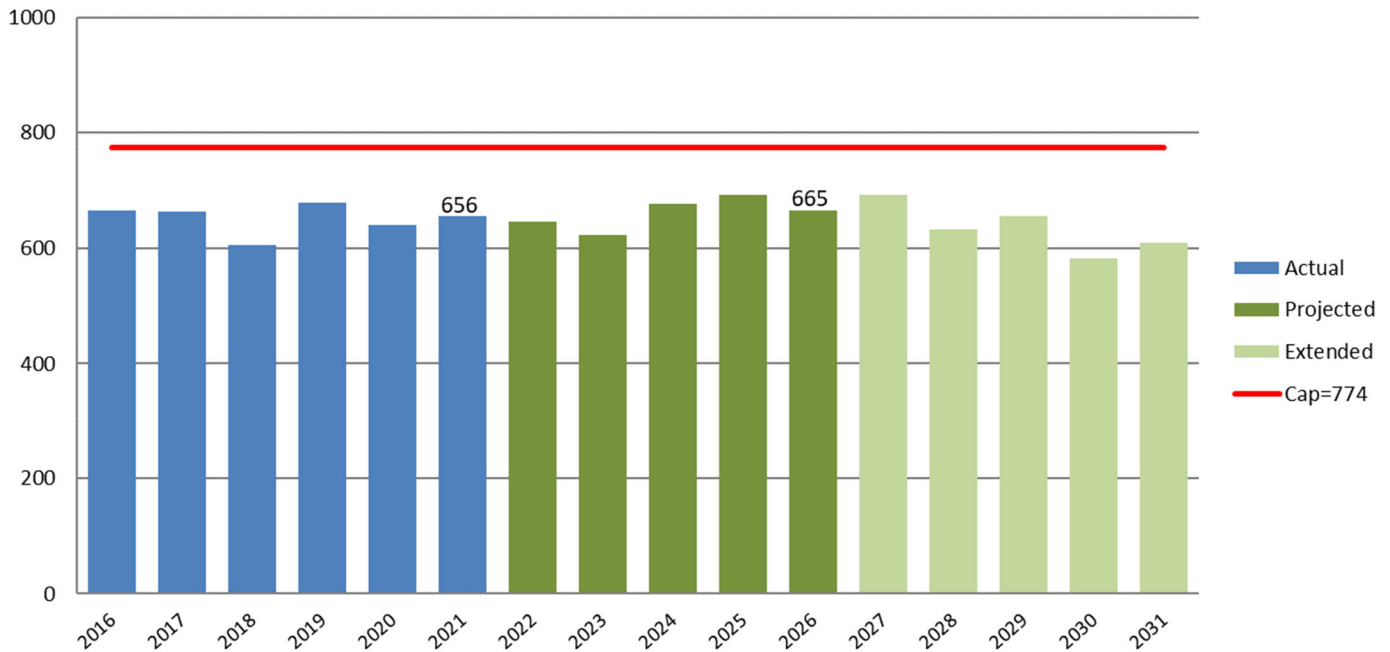
In the projection period enrollments will increase by 9 students to 665 students at the end of the projection period.

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



### Grade 8 Enrollments

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

		Gr 8	TOTAL	Period	Period
		8	UG	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%



## Grade 9 Center Grades 9

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

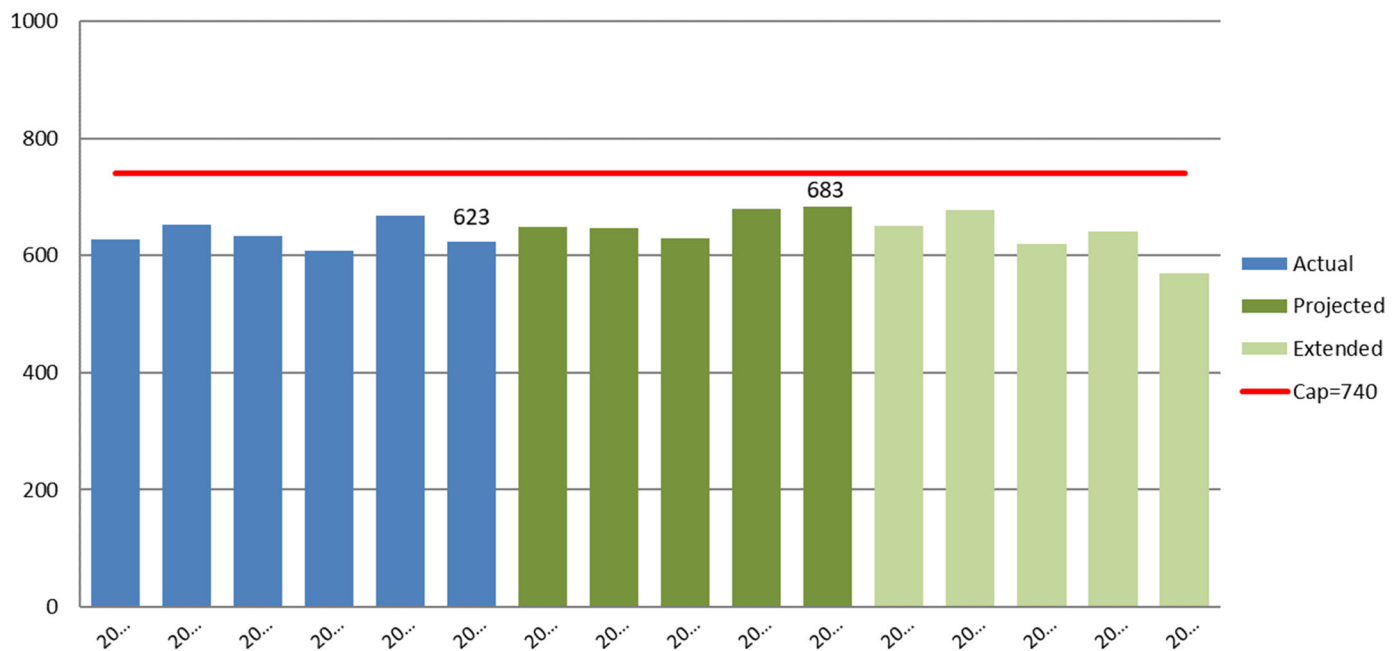
In the projection period enrollments will increase by 60 students to a new high of 683 students at the end of the projection period.

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.

			Gr 9	Period	Period
			9 UG	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%
	2027	651	651		
Extended	2028	678	678		
	2029	620	620	632	
	2030	641	641		
	2031	570	570		-113 -17.3%



## High School Enrollment

### Grade 10-12

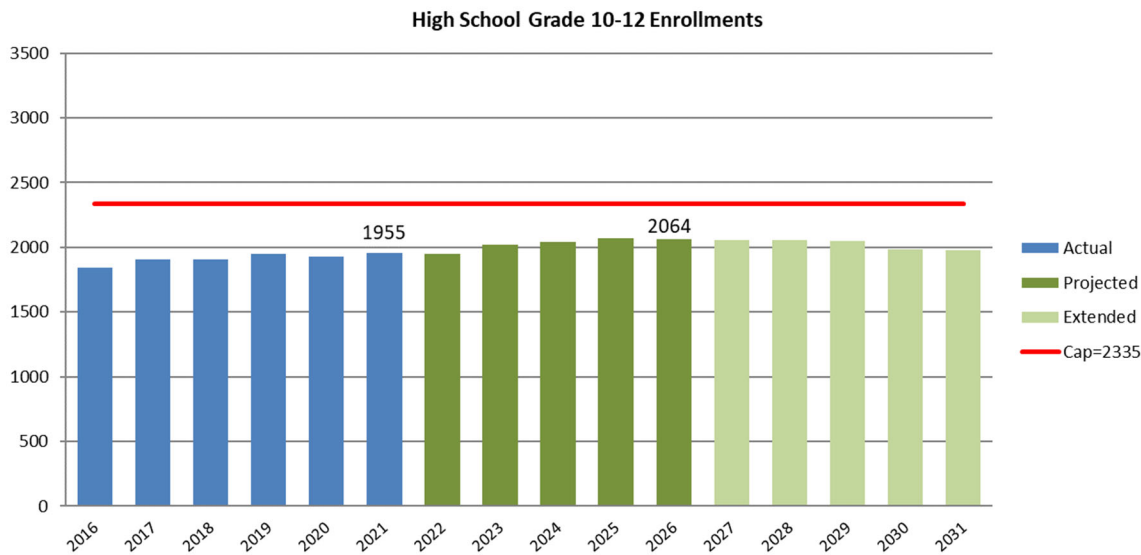
In the historic period enrollments increased 116 students to a total of 1,995 students.

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.*

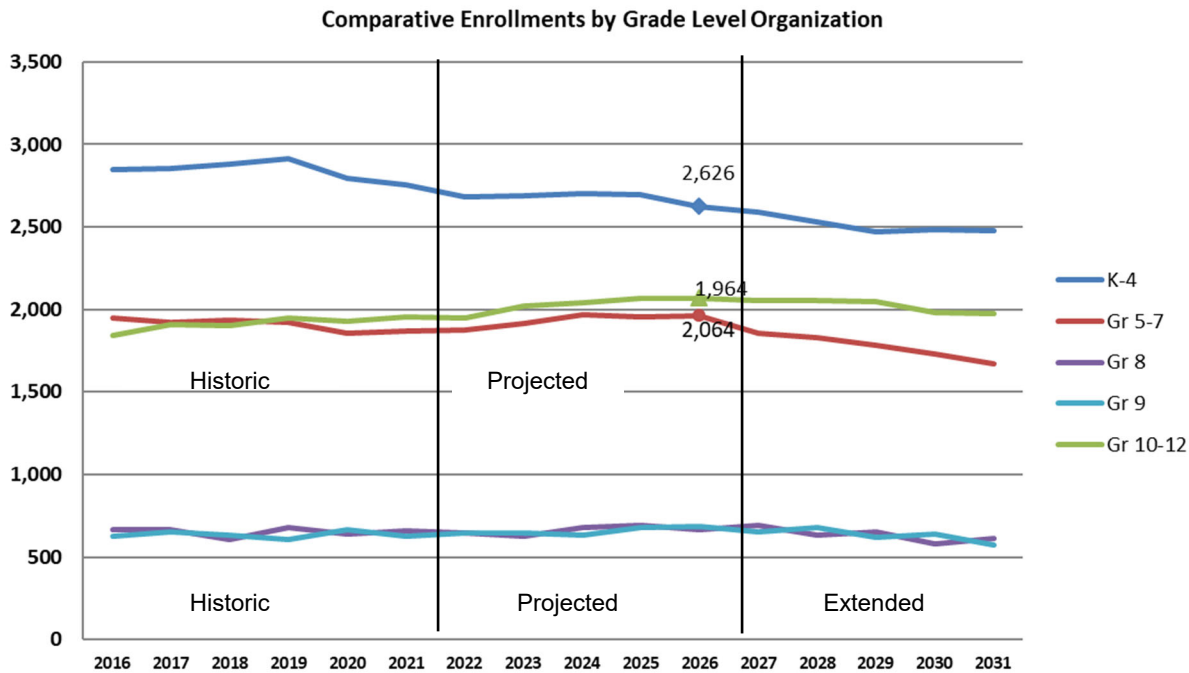
		Gr 10-12				Period	Period
		10	11	12	UG	TOTAL	Average Change
<b>Actual</b>	<b>2016</b>	609	645	585	0	1,839	
	<b>2017</b>	630	611	668	0	1,909	
	<b>2018</b>	659	631	613	0	1,903	
	<b>2019</b>	642	663	643	0	1,948	1913
	<b>2020</b>	616	629	681	0	1,926	
	<b>2021</b>	671	613	671	0	1,955	116 6.3%
<b>Projected</b>	<b>2022</b>	634	675	637	0	1,947	
	<b>2023</b>	667	646	708	0	2,021	
	<b>2024</b>	672	686	686	0	2,044	2028
	<b>2025</b>	654	688	724	0	2,066	
	<b>2026</b>	692	657	715	0	2,064	109 5.6%
	<b>2027</b>	689	690	677	0	2,056	
<b>Extended</b>	<b>2028</b>	657	687	711	0	2,054	
	<b>2029</b>	684	655	708	0	2,047	2023
	<b>2030</b>	625	682	675	0	1,982	
	<b>2031</b>	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	
<b>Actual</b>	<b>2016</b>	2,845	1,949	665	627	1,839	<b>7,925</b>	
	<b>2017</b>	2,851	1,921	664	653	1,909	<b>7,998</b>	
	<b>2018</b>	2,878	1,935	605	633	1,903	<b>7,954</b>	
	<b>2019</b>	2,915	1,924	679	608	1,948	<b>8,074</b>	
	<b>2020</b>	2,793	1,854	641	668	1,926	<b>7,882</b>	
	<b>2021</b>	2,755	1,866	656	623	1,955	<b>7,855</b>	
<b>Projected</b>	<b>2022</b>	2,680	1,877	646	648	1,947	<b>7,798</b>	<b>HIGH</b>
	<b>2023</b>	2,687	1,915	623	646	2,021	<b>7,892</b>	<b>LOW</b>
	<b>2024</b>	2,699	1,968	676	630	2,044	<b>8,017</b>	
	<b>2025</b>	2,698	1,957	691	680	2,066	<b>8,093</b>	
	<b>2026</b>	2,626	1,964	665	683	2,064	<b>8,001</b>	
	<b>2027</b>	2,591	1,855	693	651	2,056	<b>7,845</b>	
<b>Extended</b>	<b>2028</b>	2,529	1,832	633	678	2,054	<b>7,726</b>	
	<b>2029</b>	2,470	1,781	655	620	2,047	<b>7,573</b>	
	<b>2030</b>	2,484	1,731	582	641	1,982	<b>7,421</b>	
	<b>2031</b>	2,477	1,673	609	570	1,974	<b>7,303</b>	



## Brook Elementary

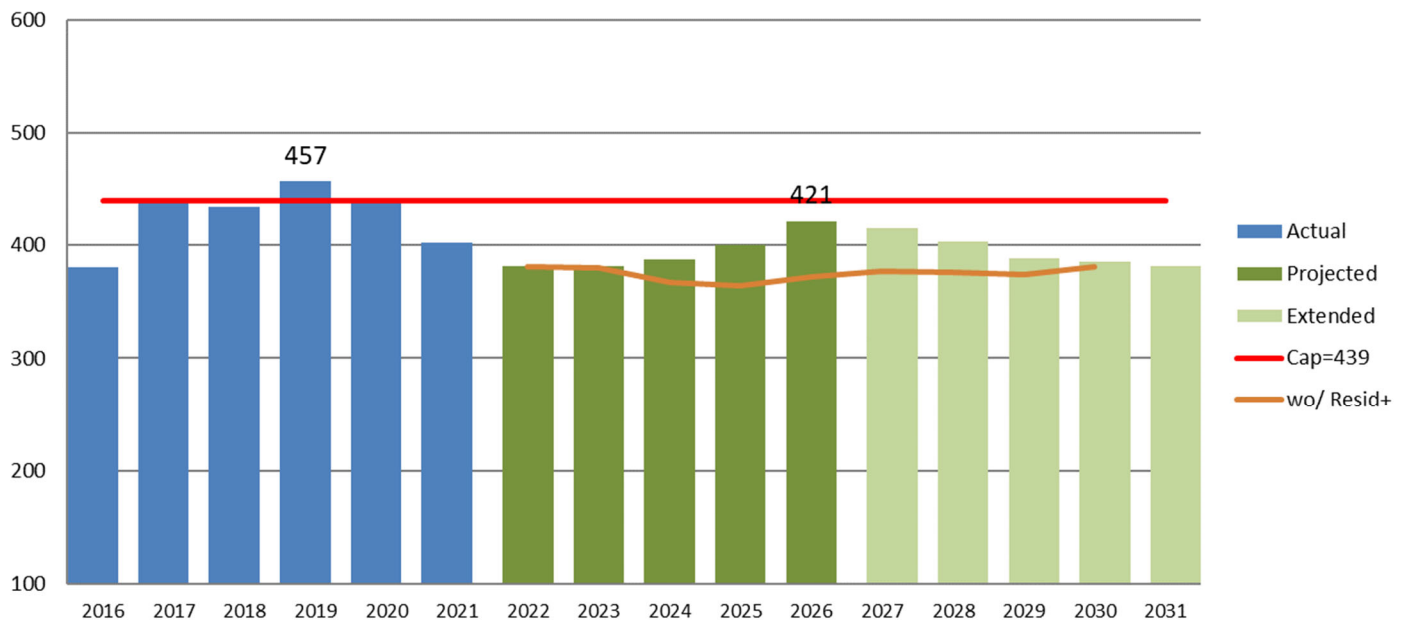
Enrollments which increased 21 in the actual period, will increase by 19 in the projection period to a high of 421 students at the end of the projection period. That high is less than the 457 student high in the Actual period.

*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							
		K	1	2	3	4	TOTAL	Average Change	% Chg
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	
K	1	2	3	4	Total
3	3	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



## Evans Elementary

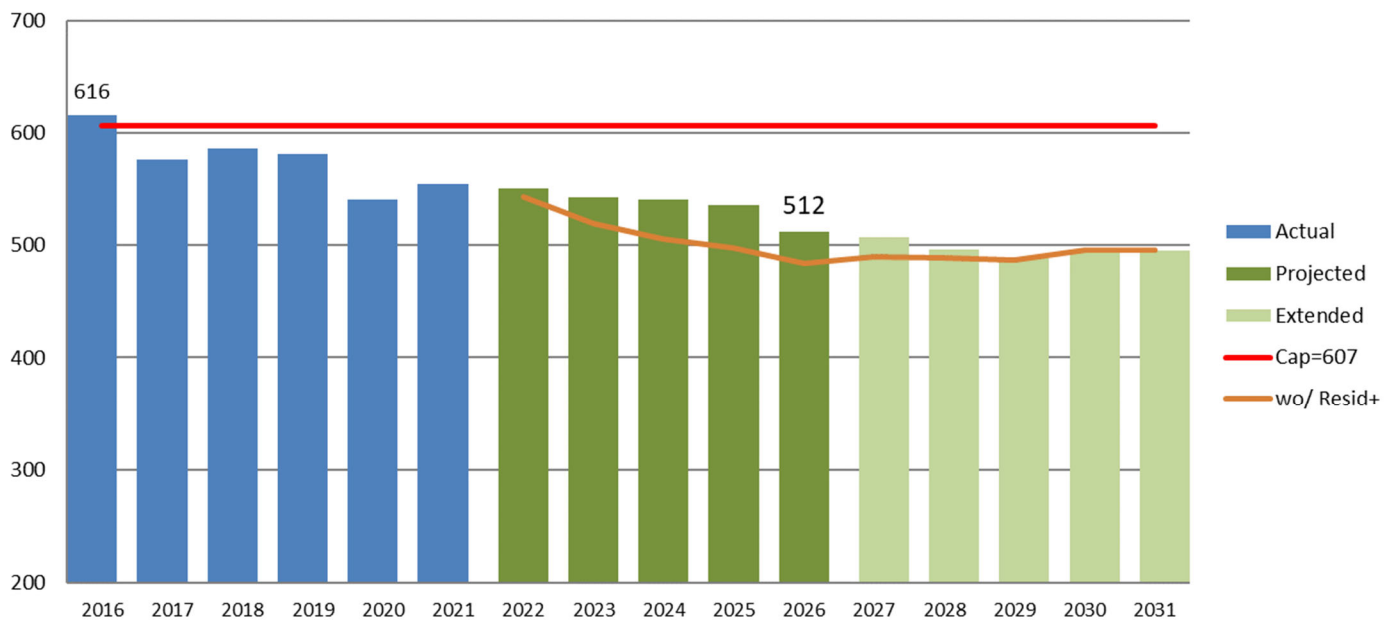
Enrollments which decreased 61 in the historic period, will decrease by 43 in the projection period to a low of 512 students in year 2026-27.

*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%
	2027	84	96	95	114	119	507		
Extended	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	
	K	1	2	3	4	Total
	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

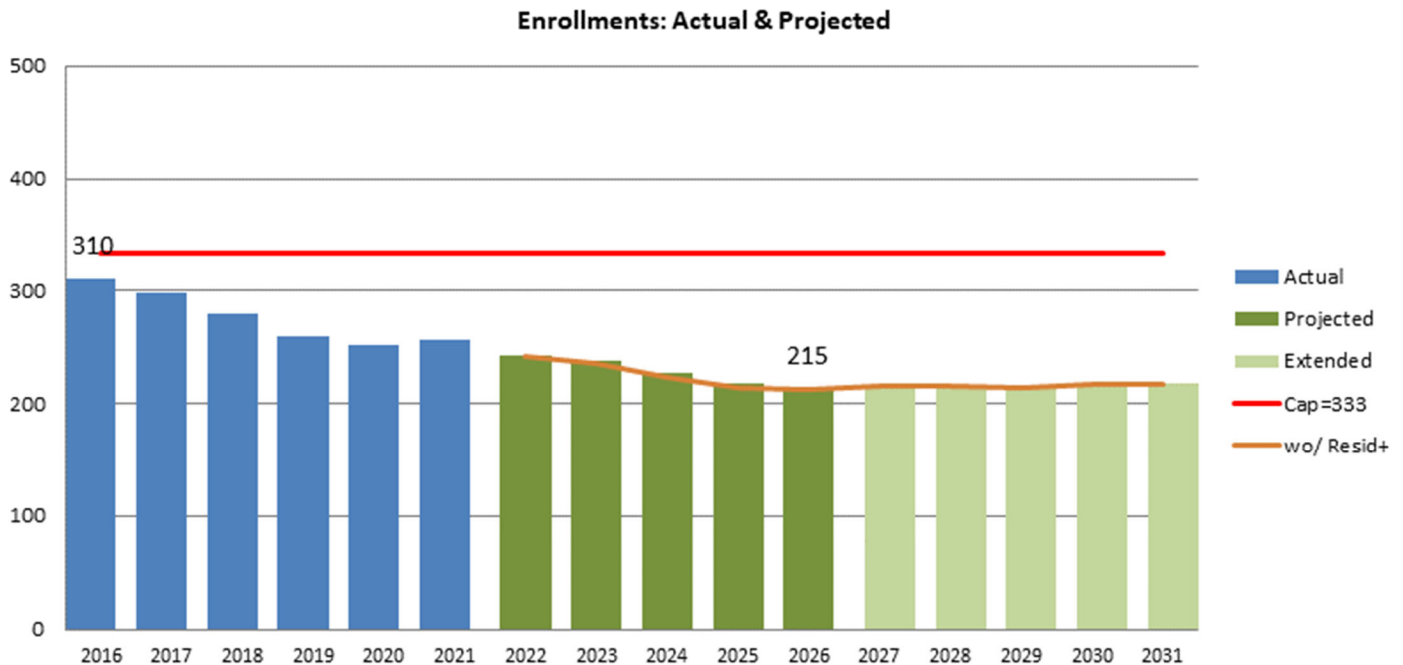
## Limerick Elementary

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.



### Limerick Elementary School

Enrollments							K-4		
		K	1	2	3	4	TOTAL	Average Change	% Chg
<b>Actual</b>	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%
<b>Projected</b>	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%
<b>Extended</b>	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	
	K	1	2	3	4	Total
	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



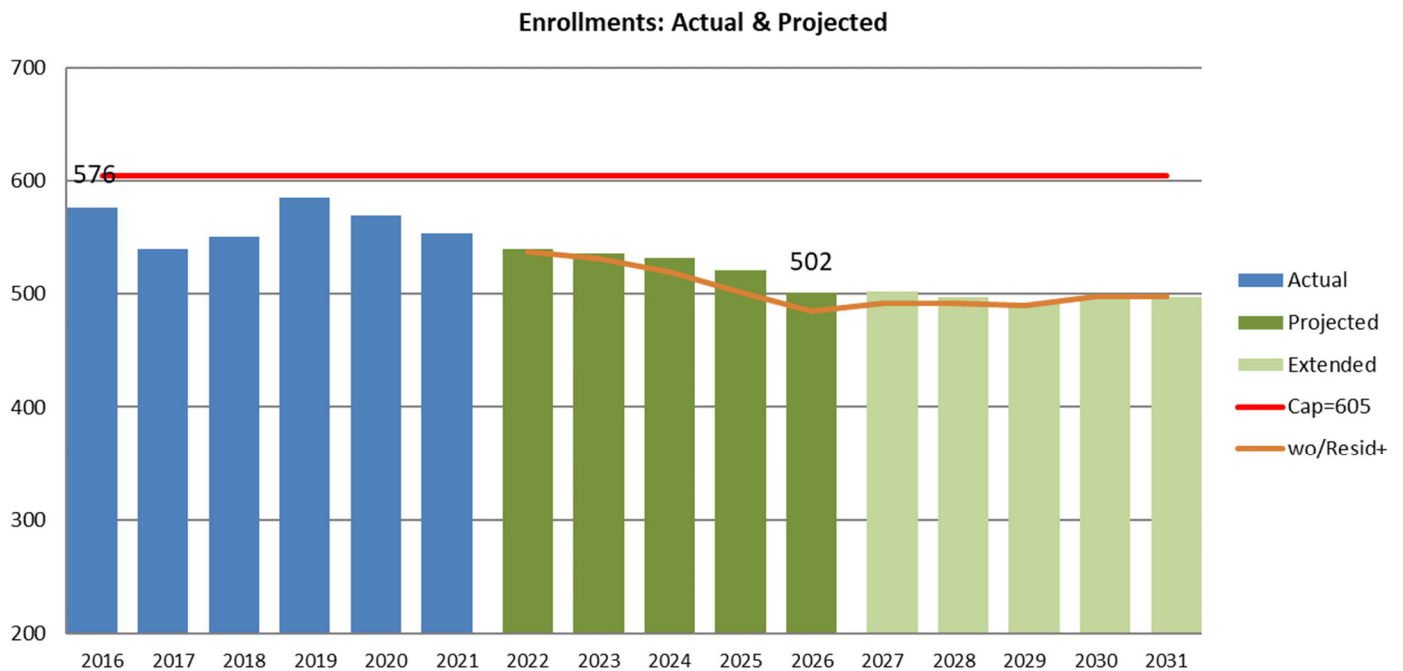
## Oaks Elementary

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.



### 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

22	22	22	24	24	
K	1	2	3	4	Total
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



## Royersford Elementary

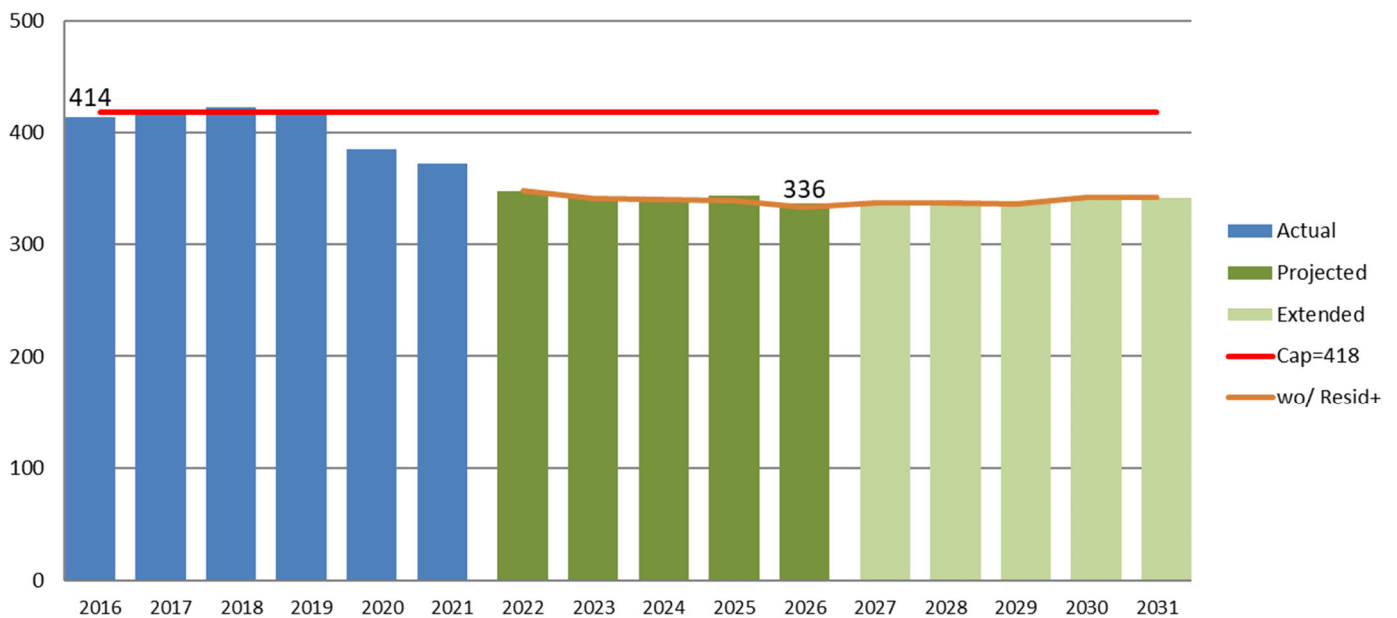
Enrollments which decreased 42 students in the historic period, will decrease by 36 in the projection period to 336 students in year 2026-27.

*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					
		K	1	2	3	4	TOTAL Average Change % Chg
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	
	K	1	2	3	4	Total
	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



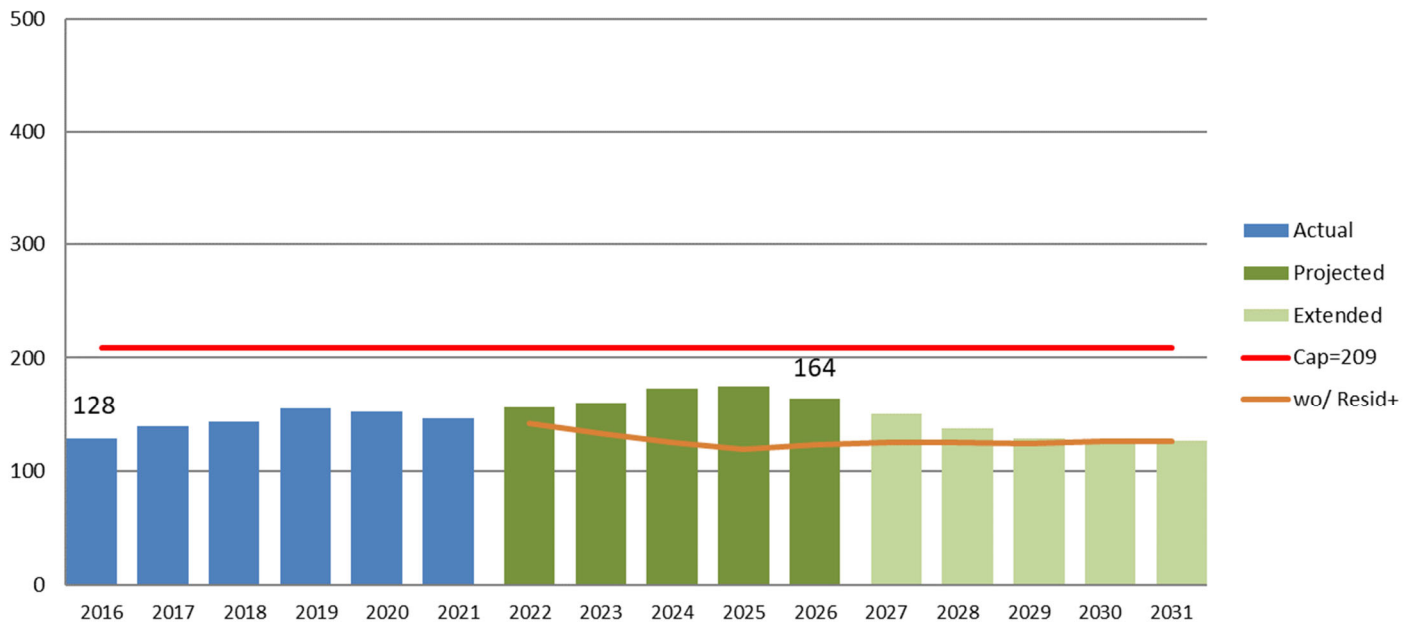
Enrollments which increased 18 students in the historic period, will also increase by 18 in the projection period, and peak at 164 students in 2023-24.

*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					
		K	1	2	3	4	TOTAL Average Change % Chg
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	
K	1	2	3	4	Total
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





## Upper Providence Elementary

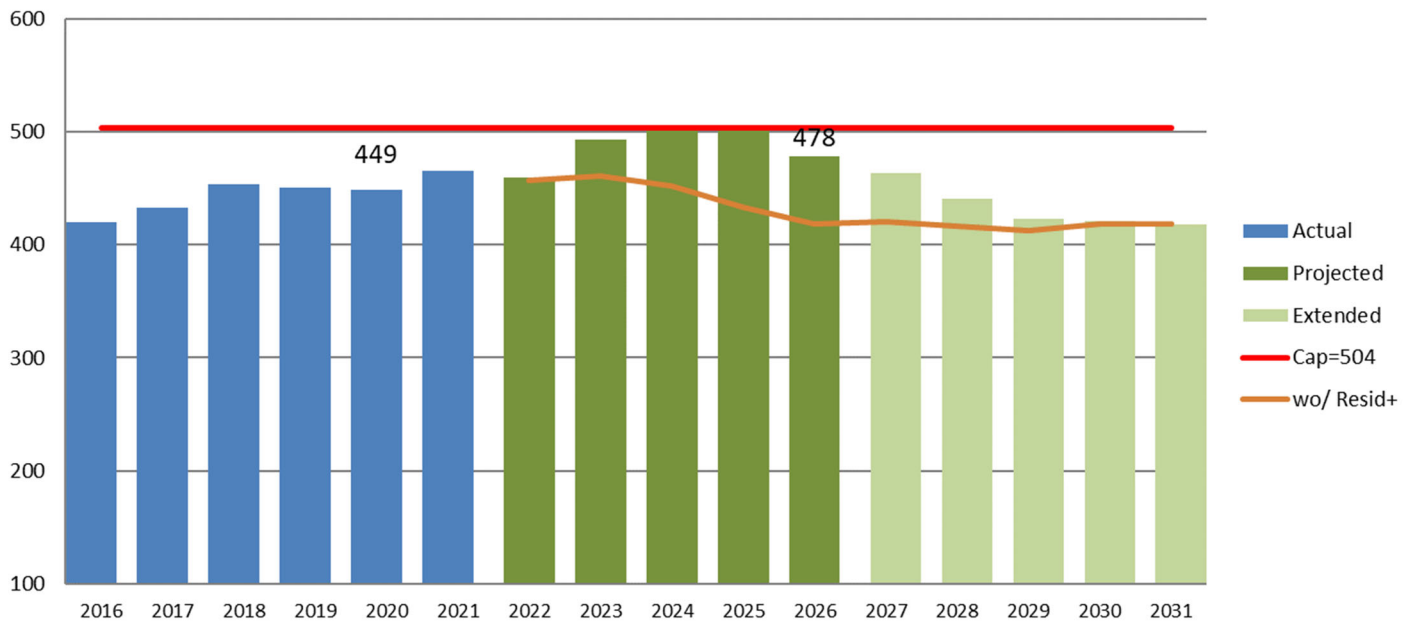
Enrollments which increased 46 students in the actual period, will increase by 12 in the projection period to a period high of 478 students in year 2026-27.

**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		K-4					
		K	1	2	3	4	TOTAL Average Change % Chg
Actual	2016	62	71	84	95	108	420
	2017	75	88	80	85	105	433
	2018	72	94	97	91	100	454
	2019	78	85	100	100	88	451 446
	2020	64	88	91	102	104	449
	2021	71	92	102	94	107	466 46 11.0%
Projected	2022	59	91	102	107	101	459
	2023	68	81	106	112	120	493
	2024	69	93	95	116	125	504 487
	2025	63	93	107	105	129	501
	2026	64	82	104	114	113	478 12 2.6%
	2027	62	82	90	109	121	463
Extended	2028	62	80	90	94	116	441
	2029	62	80	87	94	100	423 433
	2030	62	80	87	92	100	421
	2031	62	80	87	92	98	418 -59 -12.8%

### Sections

	22	22	22	24	24	
	K	1	2	3	4	Total
	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



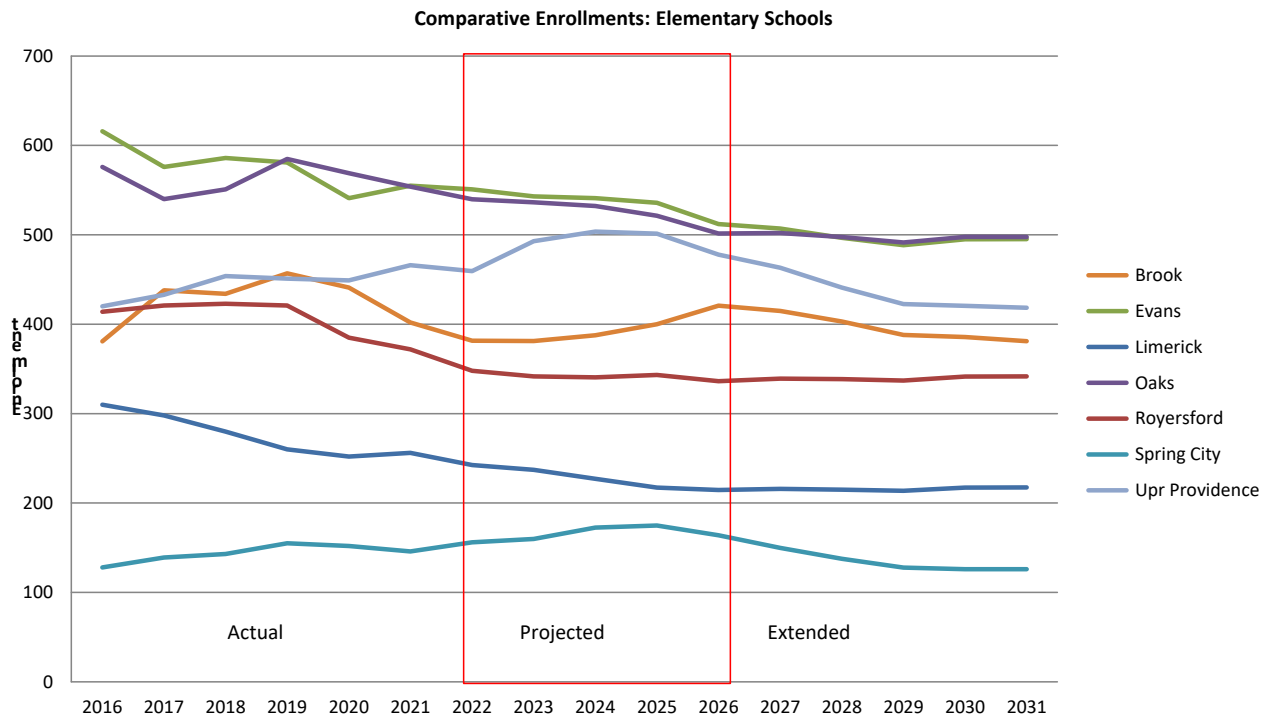
## Comparative Elementary Enrollments

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

Projection Period

Low

High



**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. Ago	"s"	K	1st Gr.	2nd Gr.	3rd Gr.	4th Gr.	5th Gr.	K-5 Subt.	K-5 SCSE	K-5 Total	PK SCSE	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
			"s"	"s"	"s"	"s"	"s"	"s"			(excl. PK)					"s"	"s"	"s"				"s"	"s"	"s"	"s"				excl. SCSE	w/ SCSE		

Actual DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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KEY to Number Colors

99

 Standard number with no modifications to methodology

99

 Provisional, but uncertified births from the NJ Department of Health

99

 Births projected as an average of the prior 6 years, including provisional data...and projected students resulting from this "less accurate" average

99

 Students per Grade Level added for residential development

The above information is prepared and certified by a qualified demographer.

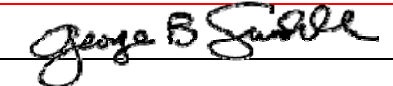
Firm Name: 

Sundance Associates 117 Greenvale Ct. Cherry Hill NJ 08034

Name: 


George B. Sundell Tel 856-755-0174 Email: GSundell@sundanceassoc.com

Signature: 



 Date: 

July 2, 2022



6-10 YR PROJECTIONS			NOT CONSIDERED RELIABLE																															
2027-28	471	0.916	431	491	470	527	528	504	2951	0	2951	0	0	0	2951	585	569	629	1783	0	1783	589	627	628	613	2456	0	2456	0	7190	7190	7190		
6 Yr Avg																																		
2028-29	471	0.916	431	491	510	478	536	534	2980	0	2980	0	0	0	2980	1.014	1.009	0.998				0.979	1.009	0.997	1.030	2482	0	2482	0	7130	7130	7130		
Continued																																		
2029-30	471	0.916	431	491	510	518	485	542	2978	0	2978	0	0	0	2978	1.014	1.009	0.998				0.979	1.009	0.997	1.030	2414	0	2414	0	7038	7038	7038		
2030-31	471	0.916	431	491	510	518	527	491	2968	0	2968	0	0	0	2968	1.014	1.009	0.998				0.979	1.009	0.997	1.030	2368	0	2368	0	6947	6947	6947		
2031-32	471	0.916	431	491	510	518	527	533	3010	0	3010	0	0	0	3010	1.014	1.009	0.998				0.979	1.009	0.997	1.030	2283	0	2283	0	6892	6892	6892		
Change # Students									14		14				14					-198		-198					-212		-212					-396
Change % Students									0%		0%			0%					-12%		-12%					-9%		-9%					-6%	

Adjusted for Impact of New Housing Cohort-Survival Enrollment Projection Worksheet - District

04/16/2022

DISTRICT NAME: Spring-Ford Area School District

COUNTY: Montgomery County & Chester County

FALL REPORT AND "s" = survival rate Enrollments are from the PDE Enrollment website

School Year	Births 5 Yrs. Ago	"s"	K	1st Gr.	2nd Gr.	3rd Gr.	4th Gr.	5th Gr.	K-5 Subt.	SCSE	K-5 Total (excl. PK)	PK SCSE	PK 3 yrs.	PK 4yrs.	PK-5 Total	6th Gr.	7th Gr.	8th Gr.	6-8 Subt.	SCSE	6-8 Total	9th Gr.	10th Gr.	11th Gr.	12th Gr.	9-12 Subt.	SCSE	9-12 Total	PK Subt.	K-12 Subt.	K-12 Total	PK-12 Total
			"s"	"s"	"s"	"s"	"s"	"s"								"s"	"s"	"s"				"s"	"s"	"s"	"s"				excl. SCSE	w/ SCSE		

V to 2 decimal places

5-YR PROJECTIONS PLUS NEW HOUSING																												New Children					
+ Resid																																	
2022-23	445	0.916	6	5.69	6	6	6	6	34							6	6	6	17				6	6	6	6	23					74	74
			413	537	538	605	588	627	3307	0	3307	0	0	0	3307	639	611	646	1896	0	1896	648	634	675	637	2595	0	2595	0	7798	7798		
				1.137	1.039	1.017	1.016	1.012								1.014	1.009	0.998				0.979	1.009	0.997	1.030								
2023-24	472	0.916	13	13.17	13	13	13	13	79							13	13	13	40				13	13	13	13	53					245	171
			446	483	571	560	628	608	3295	0	3295	0	0	0	3295	649	657	623	1929	0	1929	646	667	646	708	2667	0	2667	0	7892	7892		
				1.137	1.039	1.017	1.016	1.012								1.014	1.009	0.998				0.979	1.009	0.997	1.030								
2024-25	479	0.916	20	20.41	20	20	20	20	122							20	20	20	61				20	20	20	20	82					511	265
			459	527	523	601	590	655	3355	0	3355	0	0	0	3355	637	675	676	1989	0	1989	630	672	686	686	2674	0	2674	0	8017	8017		
				1.137	1.039	1.017	1.016	1.012								1.014	1.009	0.998				0.979	1.009	0.997	1.030								
2025-26	434	0.916	18	17.77	18	18	18	18	107							18	18	18	53				18	18	18	18	71					742	231
			415	540	565	549	628	614	3313	0	3313	0	0	0	3313	683	661	691	2035	0	2035	680	654	688	724	2746	0	2746	0	8093	8093		
				1.137	1.039	1.017	1.016	1.012								1.014	1.009	0.998				0.979	1.009	0.997	1.030								
2026-27	471	0.916	6	5.56	6	6	6	6	33							6	6	6	17				6	6	6	6	22					814	72
			437	478	567	581	564	641	3267	0	3267	0	0	0	3267	629	694	665	1987	0	1987	683	692	657	715	2746	0	2746	0	8001	8001		
									376									188								250					814		

Change # Students																		250	89		89					168		168				146
Change % Students																		5%			5%					7%		7%				2%

6-10-YR PROJECTIONS PLUS NEW HOUSING NOT CONSIDERED RELIABLE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Change # Students																		-245	-245							-203		-203				-698
Change % Students																		-12%	-12%							-7%		-7%				-9%

- KEY to Number Colors
- 99 Standard number with no modifications to methodology
  - 99 Provisional, but uncertified births from the PA Department of Health
  - 99 Births projected as an average of the prior 6 years, including provisional data...and projected students resulting from this "less accurat" average
  - 99 Students per Grade Level added for residential development
  - 99 Cumulative number of special education students to be brought back in-district, included in the count below it

The above information is prepared and certified by a qualified demographer.

Firm Name: Sundance Associates 117 Greenvale Ct. Cherry Hill NJ 08034

Name: George B. Sundell Tel 856-755-0174 Email: GSundell@sundanceassoc.com

Signature: George B. Sundell Date: July 2, 2022





# 2018 - Demographic Multipliers

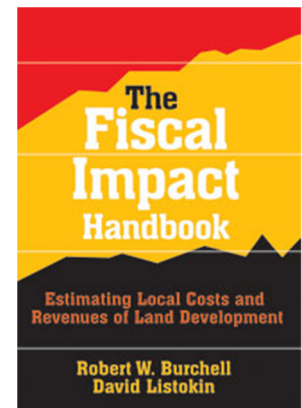
## Technical Appendix

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.

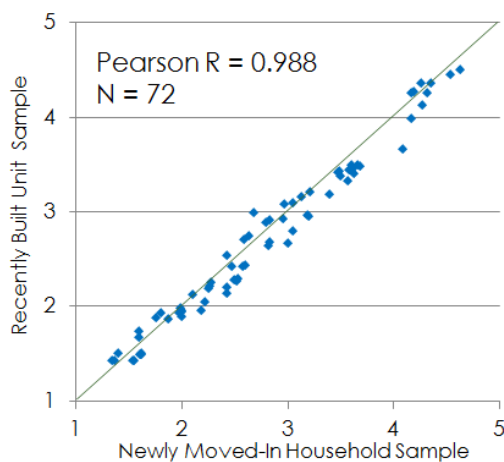
The PUMS records are reported at a level of geography called Public Use Microdata Area (PUMA) which is a geographical unit of at least 100,000 people. The usual population size ranges from 120,000 to 190,000. These records contain detailed responses by householders on each person in the household and 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.

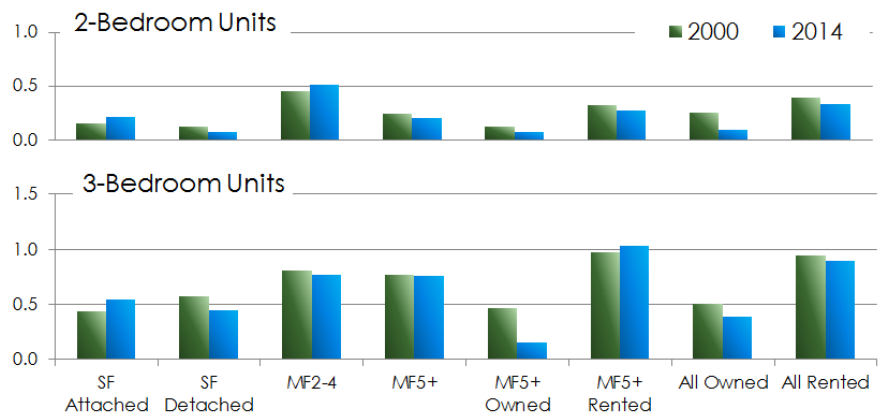




For example, in New Jersey, the estimated AVHH for all occupied units as reported in the 2015 1-Year ACS is 2.75, in comparison with 2.68 reported in the 2010 Census. The average SAC for all occupied units is almost identical between 2010 and 2015. In other words, New Jersey did not follow most states,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



### 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

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.

### 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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## Contacts

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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-Occpied
    - 2 bedrooms
    - 3 bedrooms
    - 4 bedrooms
  - Single Family Detatched
    - 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.