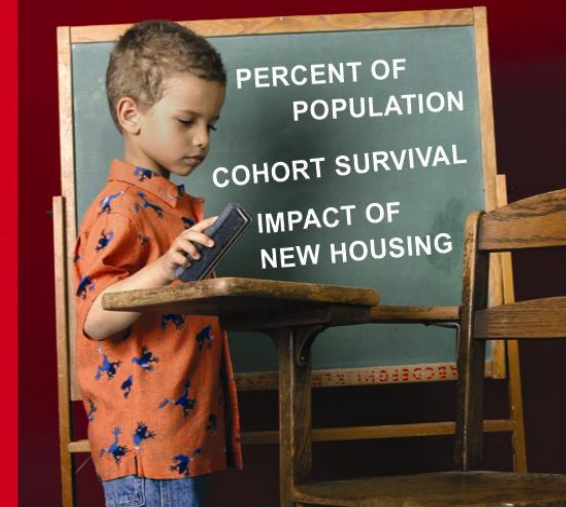


Accelerated Residential Construction



PERCENT OF
POPULATION
COHORT SURVIVAL
IMPACT OF
NEW HOUSING



ENROLLMENT PROJECTIONS



HIGH DENSITY
MULTI-FAMILY
HOUSING
TYPES

**BABY
BOOM
BLIP
ECHO**



**Age Restricted +
Active Adult and
Leisure Communities
= Children ?**



**Grade Level
Reorganization**

The School District of Haverford Township



The School District of Haverford Township Sundance Associates

George Sundell, Principal Demographer

47 years directing Facilities Planning Projects

25 Years of Demographic Consulting

180 Enrollment projections for K-12 Public School Districts

Expertise

Regional District Studies

Regionalization/Withdrawal Studies

Accelerated Residential Construction

Impact of Charter Schools

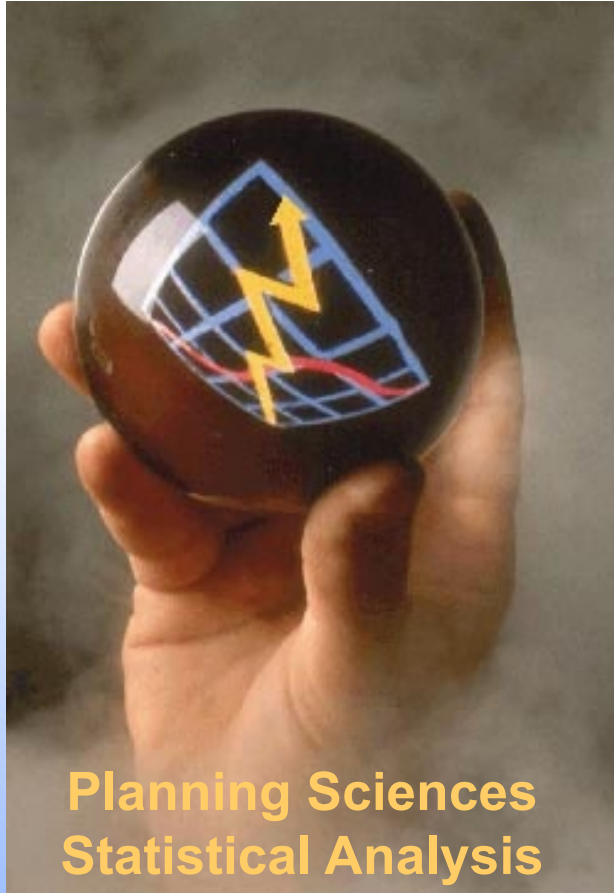
Closure-Reorganization of Parochial Schools

Redistricting





The School District of Haverford Township Enrollment Projections



**Cohort Survival Methodology
or Grade Level Progression**

**Primarily based on
Historic Enrollments & Birth Rates**

**Acceptable Modifications
through Certified Demographers Report**





The School District of Haverford **Township** **Modifications to Projections**

Charter, Private & Parochial School Status

School Choice and Cyber Schools Programs

Changes in Curriculum or OOD Students

Seasonal Fluctuations

Impact of additional housing beyond the historic average



Housing Mix : Types and Number of Bedrooms

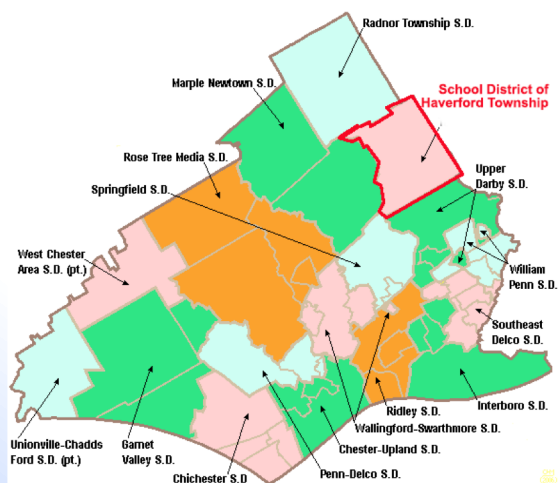
**Multipliers for Public School Children by
housing type and number of bedrooms**

Recovery from Recession Level Resales





The School District of Haverford Township Municipalities and District



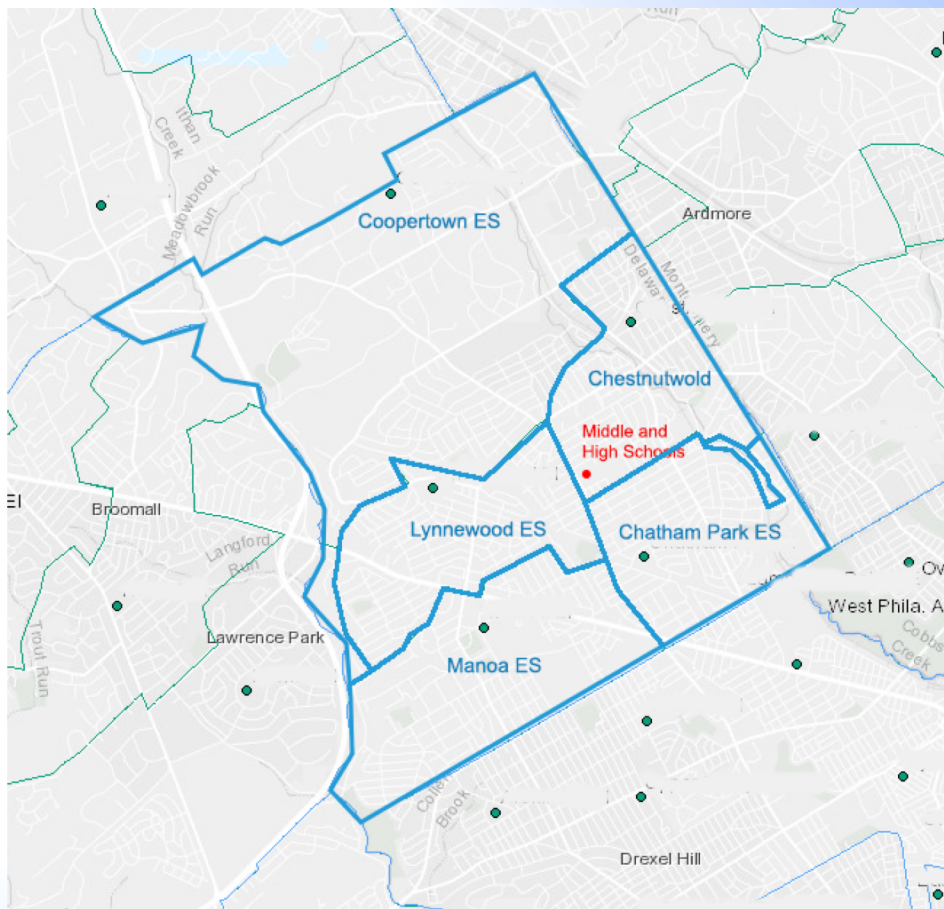
1 Municipality

7 Schools

5 Elementary

1 Middle

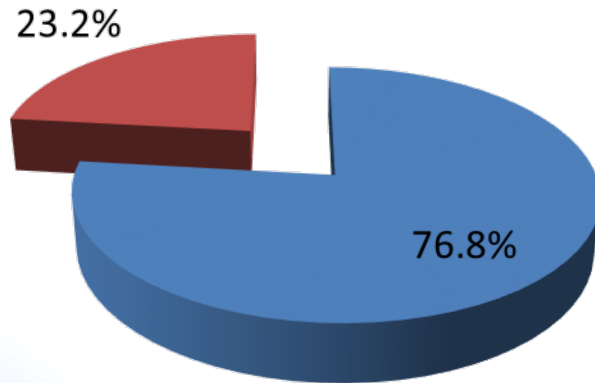
1 High



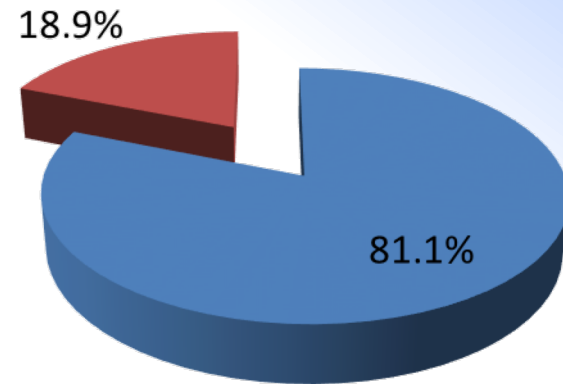


The School District of Haverford Township Public & Private School Attendance Share

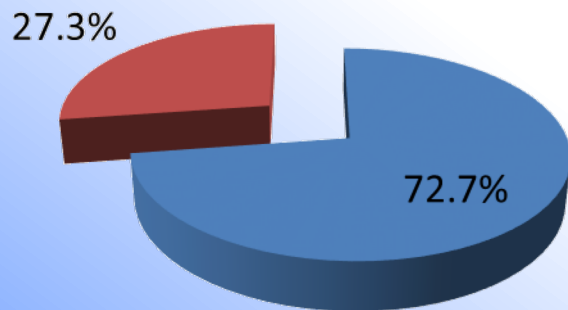
Kindergarten



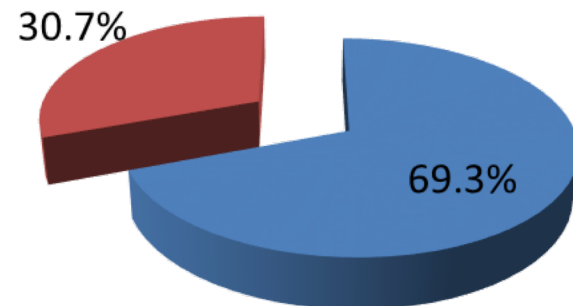
Elementary Sch Gr 1-4



Middle Sch Gr 5-8



High Sch Gr 9-12





The School District of Haverford
Township
Public & Private School Attendance
Comparative County and State Share

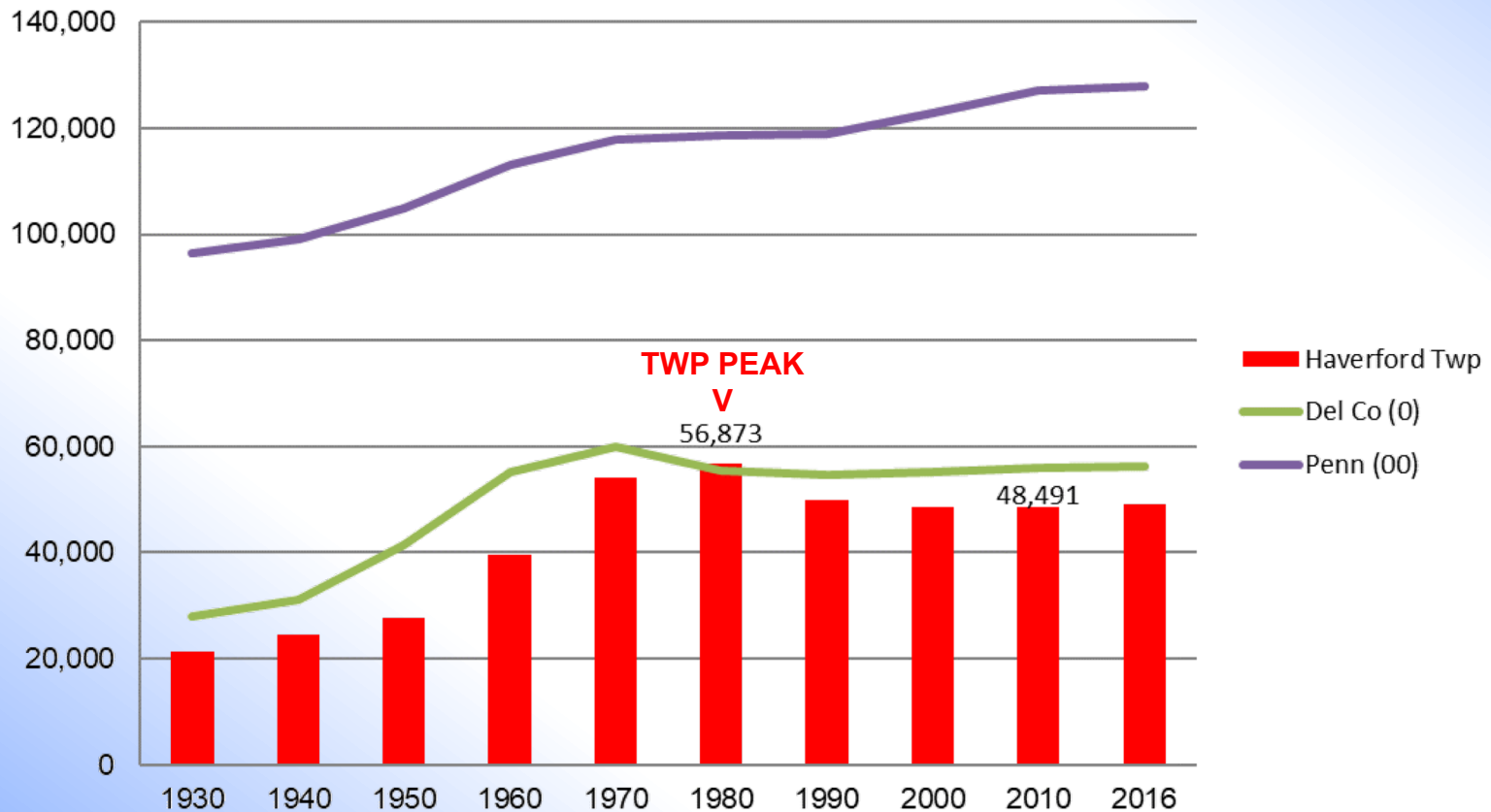
		Haverford	Del Co	Penn
Kindergarten	Public	76.8%	77.0%	83.4%
	Private	23.2%	23.0%	16.6%
Elementary Gr 1-4	Public	81.1%	83.8%	85.7%
	Private	18.9%	16.2%	14.3%
Middle Gr 5-8	Public	72.7%	81.50%	85.50%
	Private	27.3%	18.50%	14.50%
High Sch Gr 9-12	Public	69.3%	79.10%	87.00%
	Private	30.7%	20.90%	13.00%





The School District of Haverford Township Municipal Population Growth

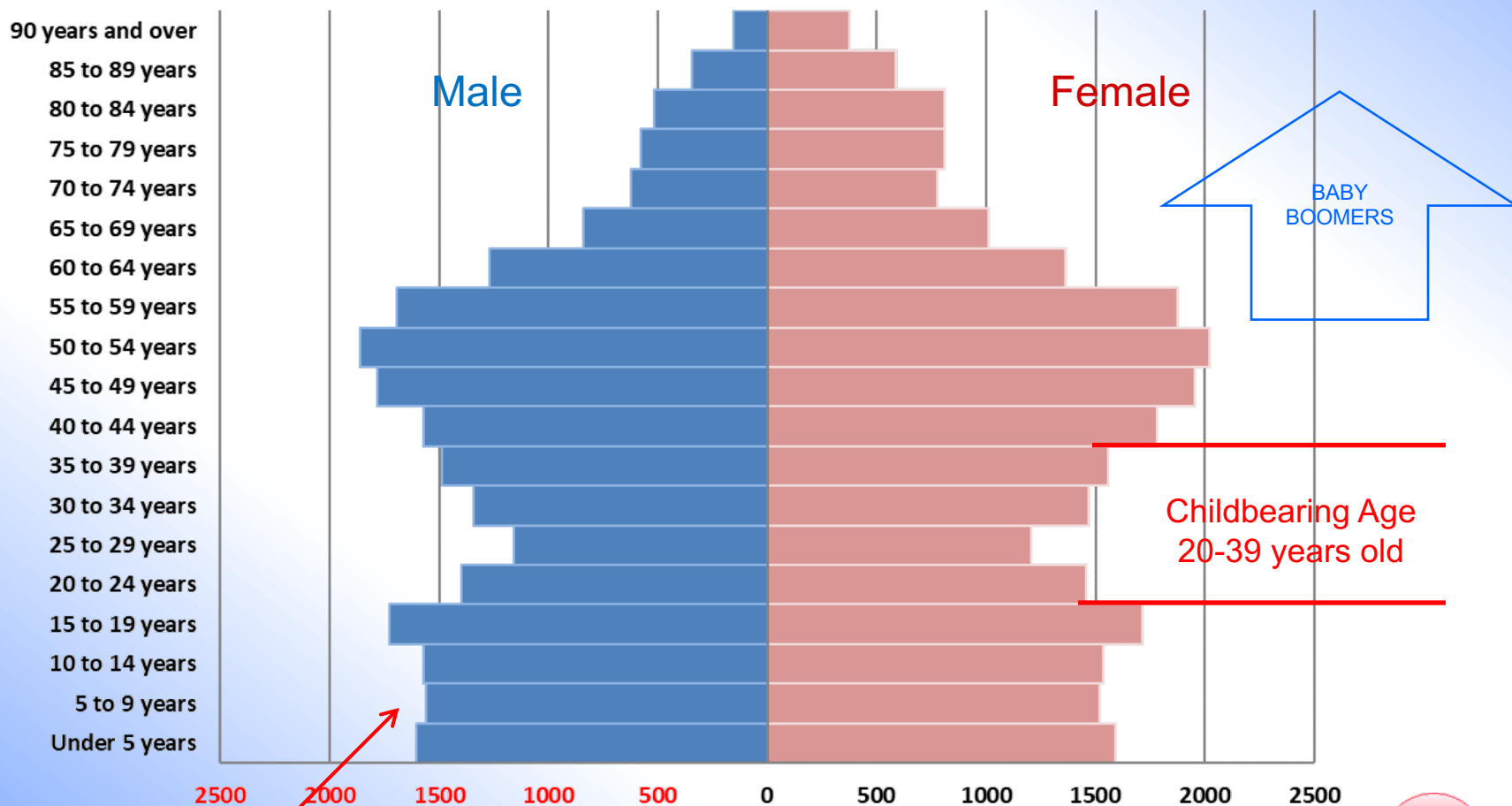
Local-County-State Comparative Population





The School District of Haverford Township 2010 Age & Gender Pyramid

Haverford: Age & Gender Pyramid





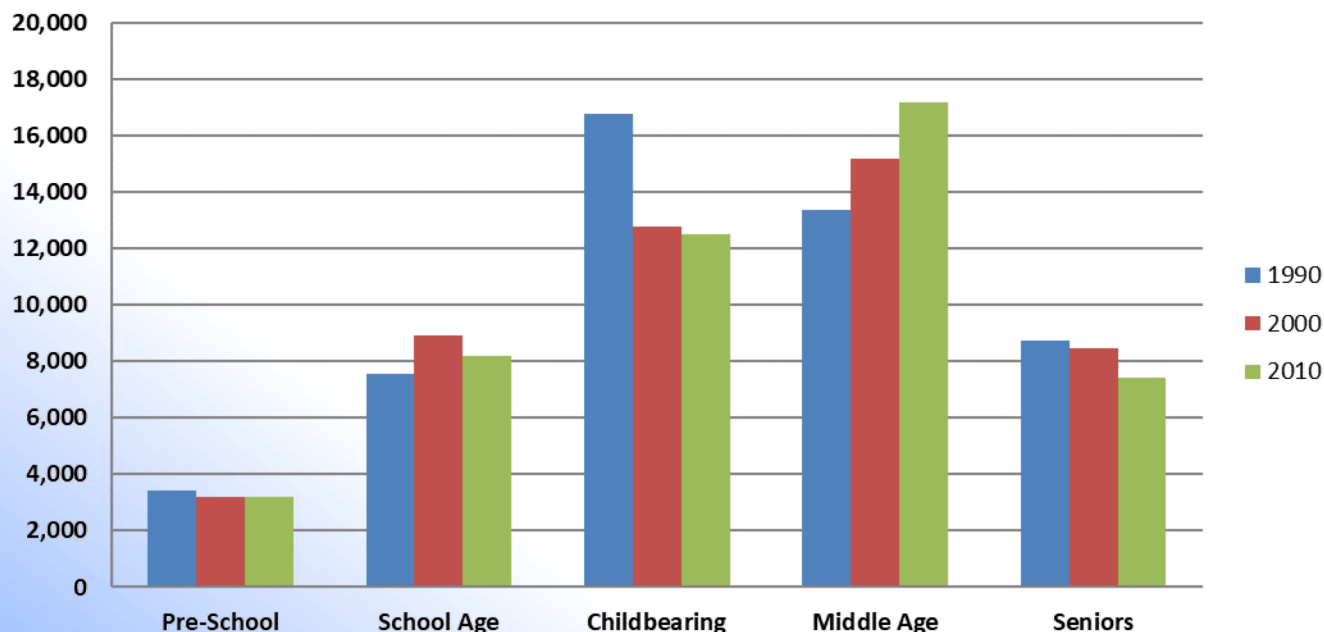
The School District of Haverford

Township

Population by Age Group

Type	Age	1990		2000		2010	Percents	1990	2000	2010
Pre-School	0-4	3,420	-218	3,202	-10	3,192	Pre-School	6.9%	6.6%	6.6%
School Age	5-17	7,558	1337	8,895	-686	8,209	School Age	15.2%	18.3%	16.9%
Childbearing	18-39	16,786	-4015	12,771	-286	12,485	Childbearing	33.7%	26.3%	25.7%
Middle Age	40-64	13,347	1812	15,159	2,013	17,172	Middle Age	26.8%	31.3%	35.4%
Seniors	65 +	8,737	-266	8,471	-1,038	7,433	Seniors	17.5%	17.5%	15.3%
		49,848	-1350	48,498	-7	48,491		100%	100%	100%

Haverford: Population by Age Group: 1990 to 2010



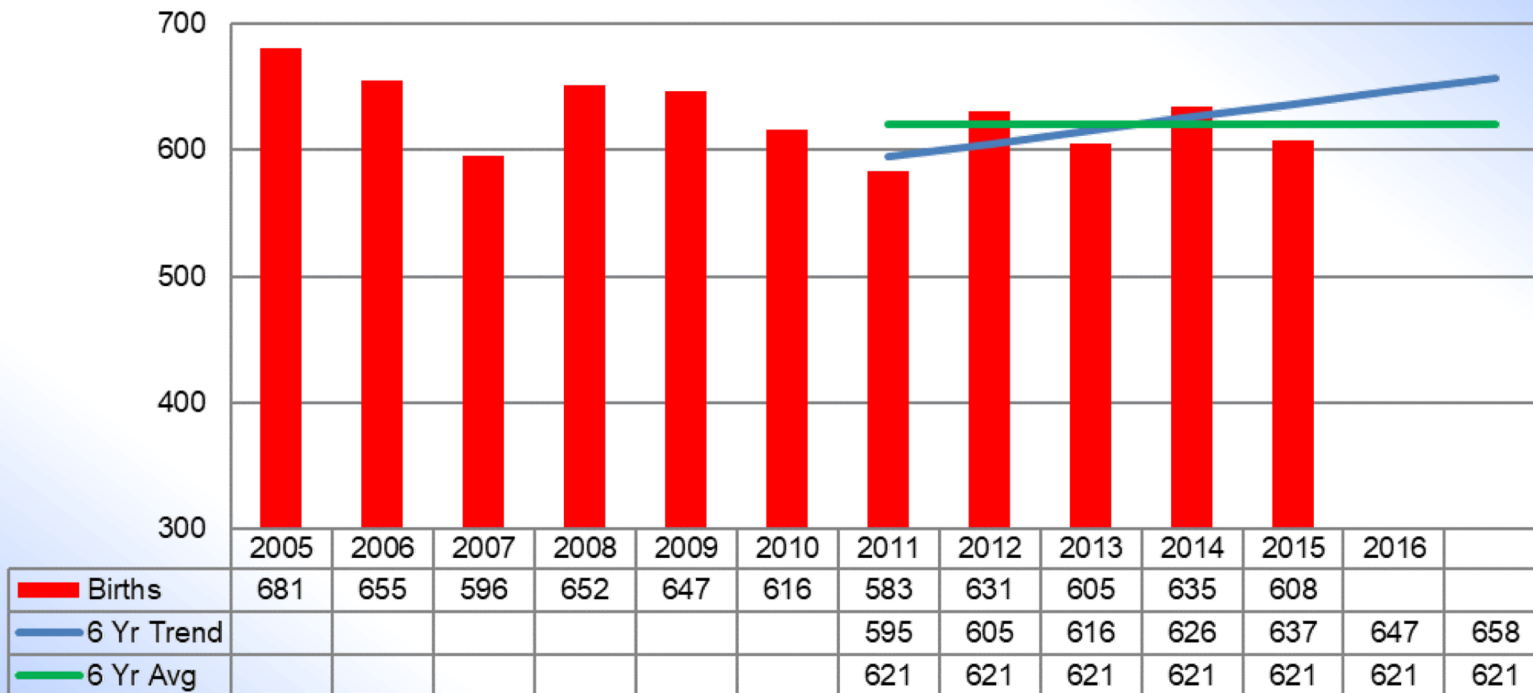


The School District of Haverford

Township

Annual Births

Calendar Year Births



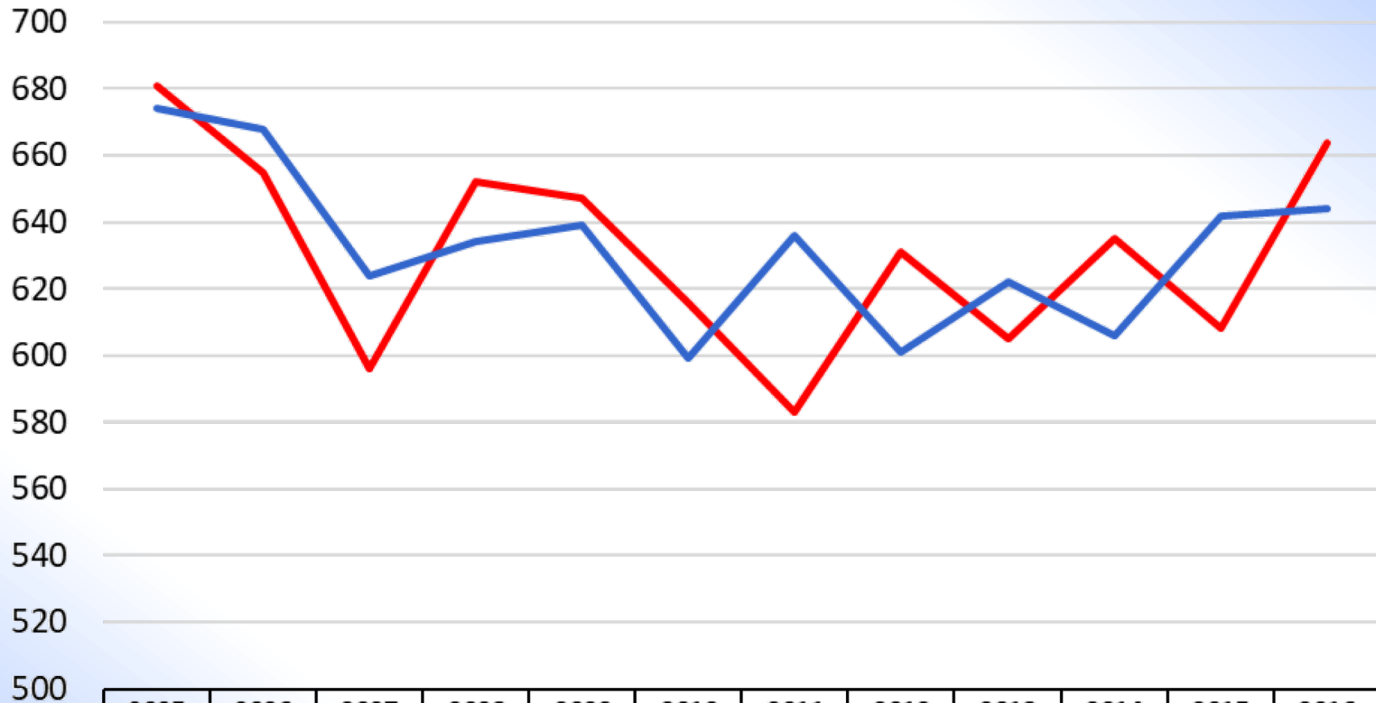
6-Year Calendar Trend is for 10-11 more Births each year





The School District of Haverford Township School & Calendar Year Births

Live Births: School & Calendar Year



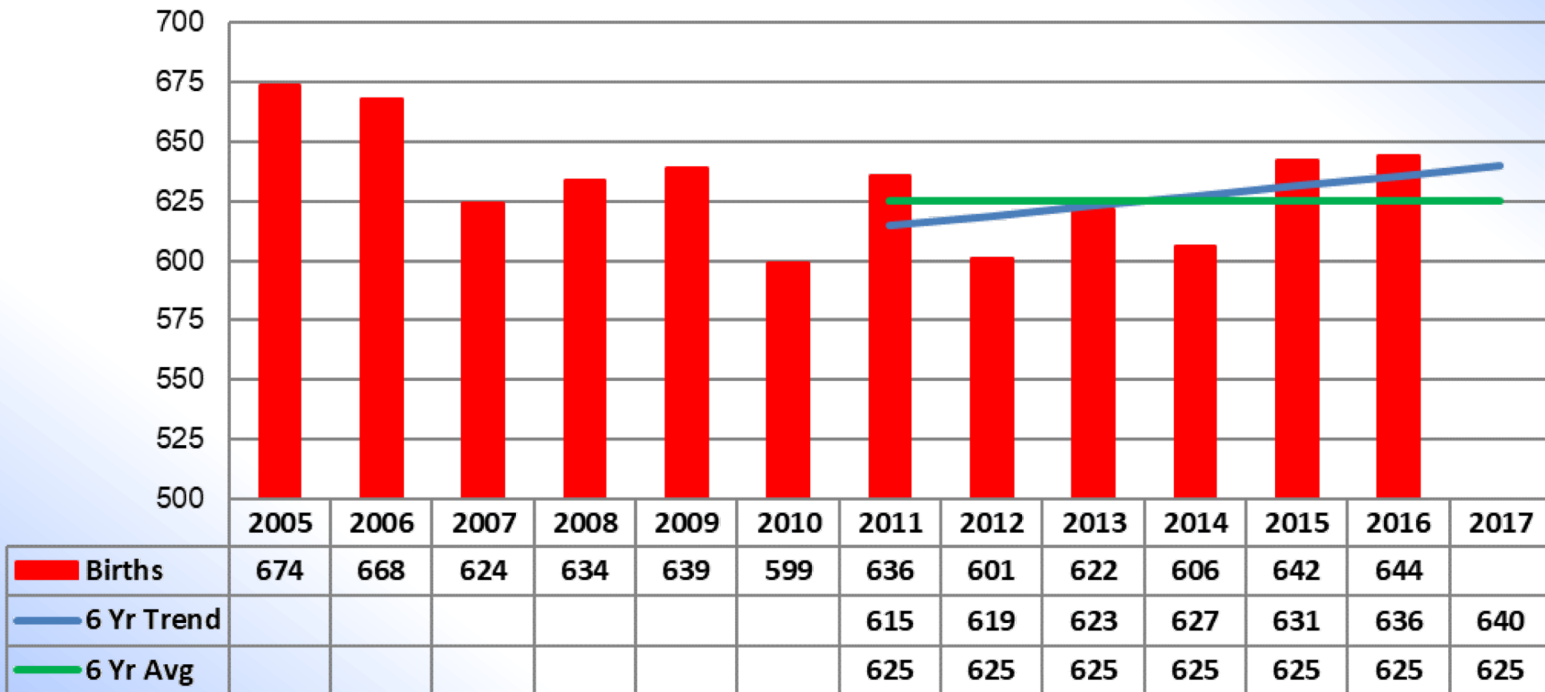
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Calendar Yr	681	655	596	652	647	616	583	631	605	635	608	664
School Yr	674	668	624	634	639	599	636	601	622	606	642	644





The School District of Haverford Township District Births by School Year

School Year Births-Sept-Aug



Cohort Survival Projection uses the 625 Average of 6 Years
6-Year Trend is for 4 more births each year



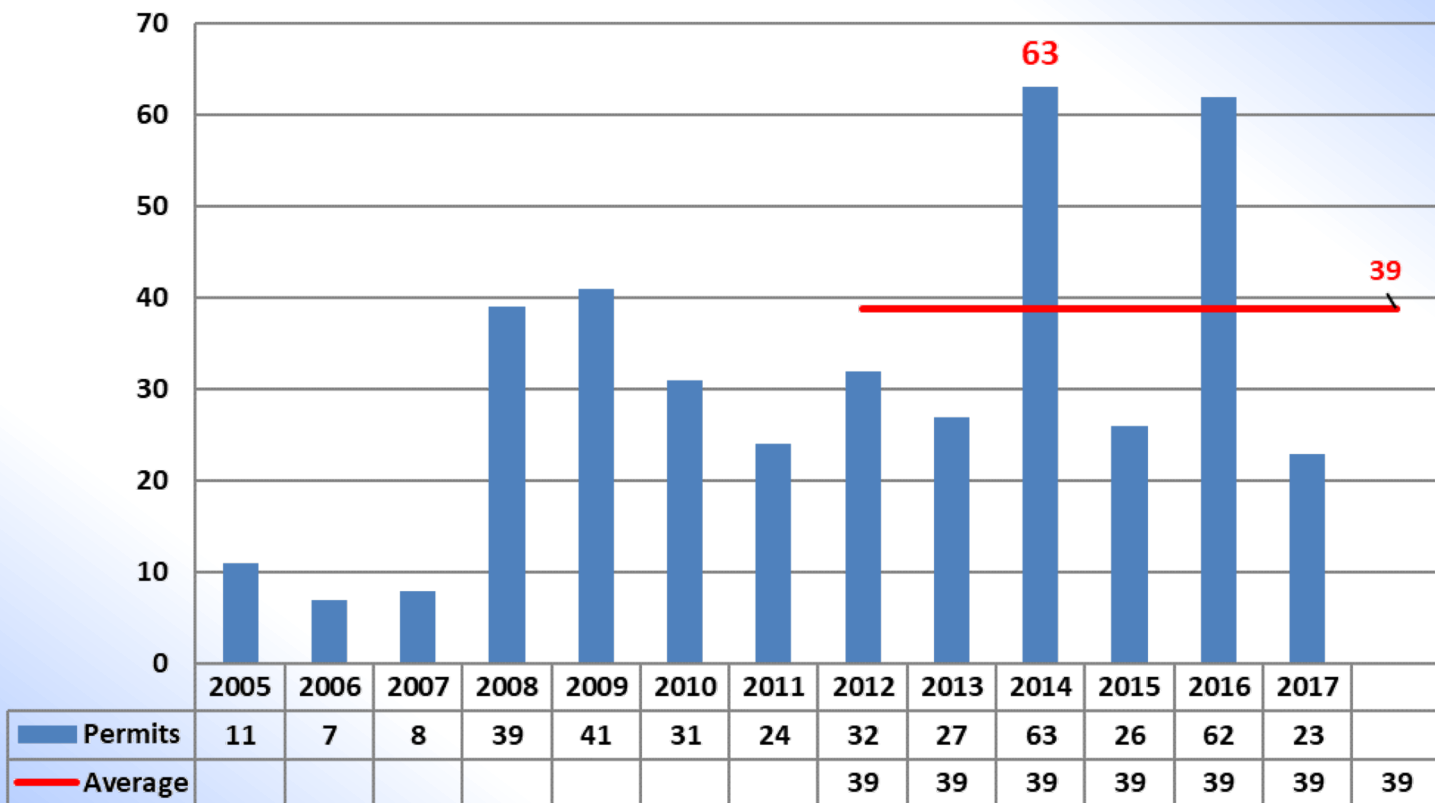


The School District of Haverford

Township

Residential Permitting

All Residential Permits



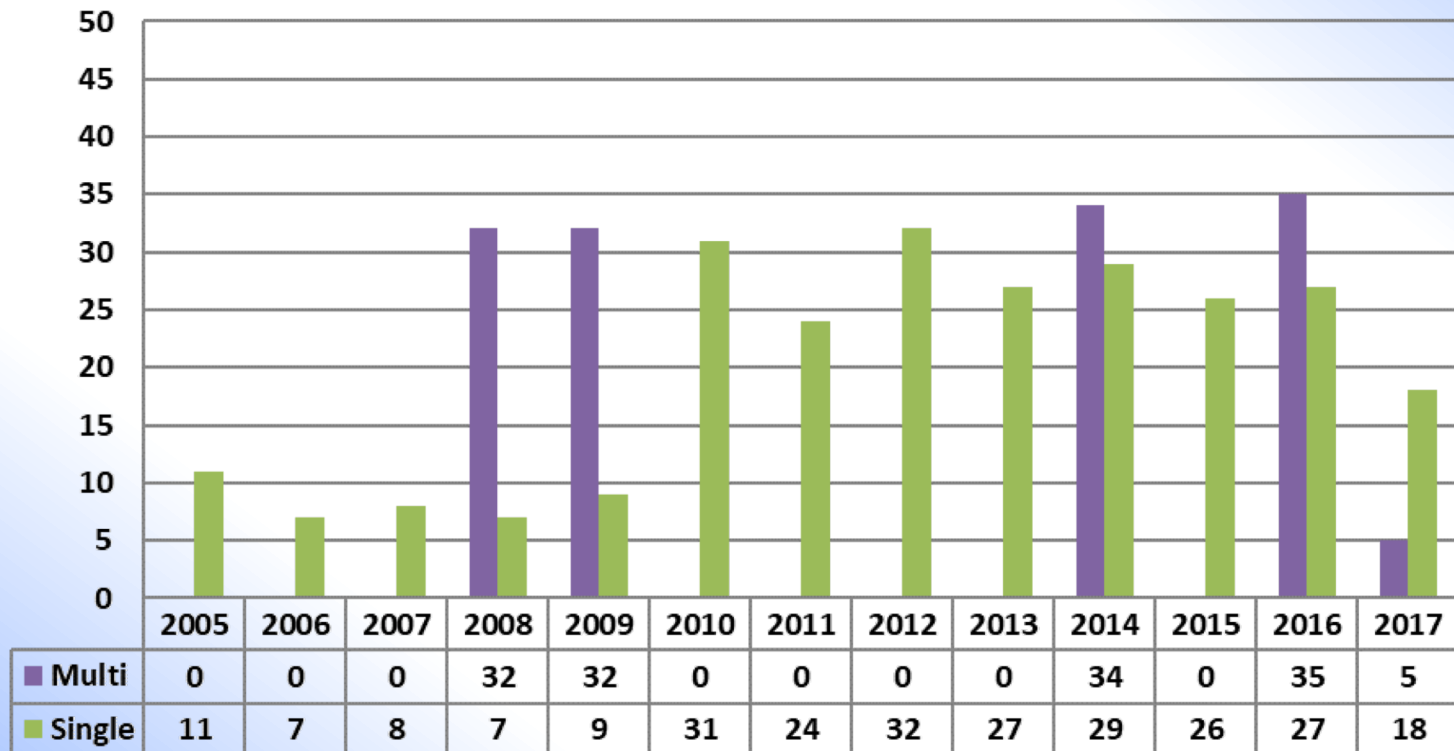
APPROVED_NOT YET BUILT: Harvard Road (4 of 6 lots completed), and Jack's Way (5 of 6 lots completed, last one was just issued permits.) Permits have been issued for the last few (two carriage homes, four dwelling units) Carriage Homes at Haverford Reserve. Athertyn (55+) has two more buildings, with 35 units each.





The School District of Haverford Township Residential Permitting by Type

Residential Permits: Single & Multi-Family



No known new permits in the near future





The School District of Haverford Township Residential Sales



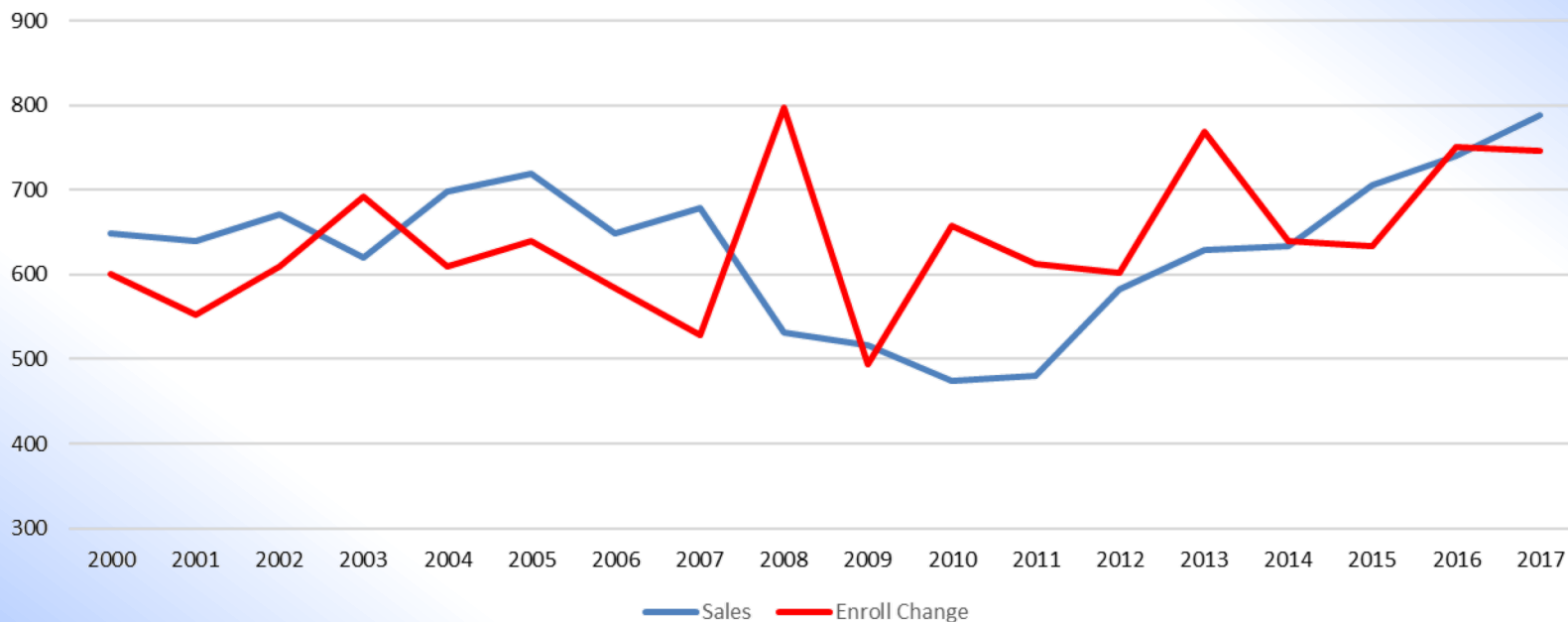
Significant recovery from the 2008 Housing Recession





The School District of Haverford Township Residential Sales & Enrollment Change

Residential Sales and Enrollment Change (base 600)





The School District of Haverford **Township** **Demographics Summary**

Private & Parochial School Enrollment is not impacting

Charter & Choice School Enrollment is not impacting

Population is stable

Youngest Age Groups are stable

Childbearing Age population decreased 286 to 2010

6-Year Birth Trend increasing by 5 per year

Middle Age populations increasing, Seniors decreasing

**Residential Sales increasing past Pre-Recession level
of 665 units to near 800 units per year**





The School District of Haverford

Township

Cohort Survival Method

DATA ENTRY:

Births

Historic Enrollments

Sch Yr Births			1st				2nd	
5 Yrs. Earlier			K		Gr.		Gr.	
Sch Year		"s"						
HISTORIC DATA								
2012-13	668	0.618	413		465		463	
				1.128		1.047		
2013-14	624	0.712	444		466		487	
				1.092		1.009		
2014-15	634	0.681	432		485		470	
				1.127		0.996		
2015-16	639	0.626	400		487		483	
				1.238		0.998		
2016-17	599	0.756	453		495		486	
				1.163		1.030		
2017-18	636	0.684	435		527		510	
6 Yr Average		0.680						
Survival Rate		0.680		1.150		1.016		





The School District of Haverford

Township

Cohort Survival Method

Births

Historic Enrollments

CALCULATIONS:

Birth to Kindergarten
Survival Ratio (S/R)

Y2Y Grade Level S/Rs

Sch Yr Births 5 Yrs. Earlier						
Sch Year			K	1st	2nd	
			"S"	Gr.	"S"	Gr.
HISTORIC DATA						
2012-13	668	0.618	413	465	463	
			1.120		1.047	
2013-14	624	0.712	444	466	487	
			1.092		1.009	
2014-15	634	0.681	432	485	470	
			1.127		0.996	
2015-16	639	0.626	400	487	483	
			1.238		0.998	
2016-17	599	0.756	453	495	486	
			1.163		1.030	
2017-18	636	0.684	435	527	510	
6 Yr Average		0.680				
Survival Rate		0.680	1.150		1.016	





The School District of Haverford

Township

Cohort Survival Method

Births

Historic Enrollments

Birth to Kindergarten S/R

Y2Y Grade Level S/R

5 Year Avg S/R

Sch Yr Births 5 Yrs. Earlier						
Sch Year		"s"	K	1st Gr.	2nd Gr.	
		"s"	"s"	"s"		
HISTORIC DATA						
2012-13	668	0.618	413	465	463	
			1.128	1.047		
2013-14	624	0.712	444	466	487	
			1.092	1.009		
2014-15	634	0.681	432	485	470	
			1.127	0.996		
2015-16	639	0.626	400	487	483	
			1.238	0.998		
2016-17	599	0.756	453	495	486	
			1.163	1.030		
2017-18	636	0.684	435	527	510	
6 Yr Average		0.680				
Survival Rate		0.680	1.150	1.016		





The School District of Haverford

Township

Cohort Survival Projection

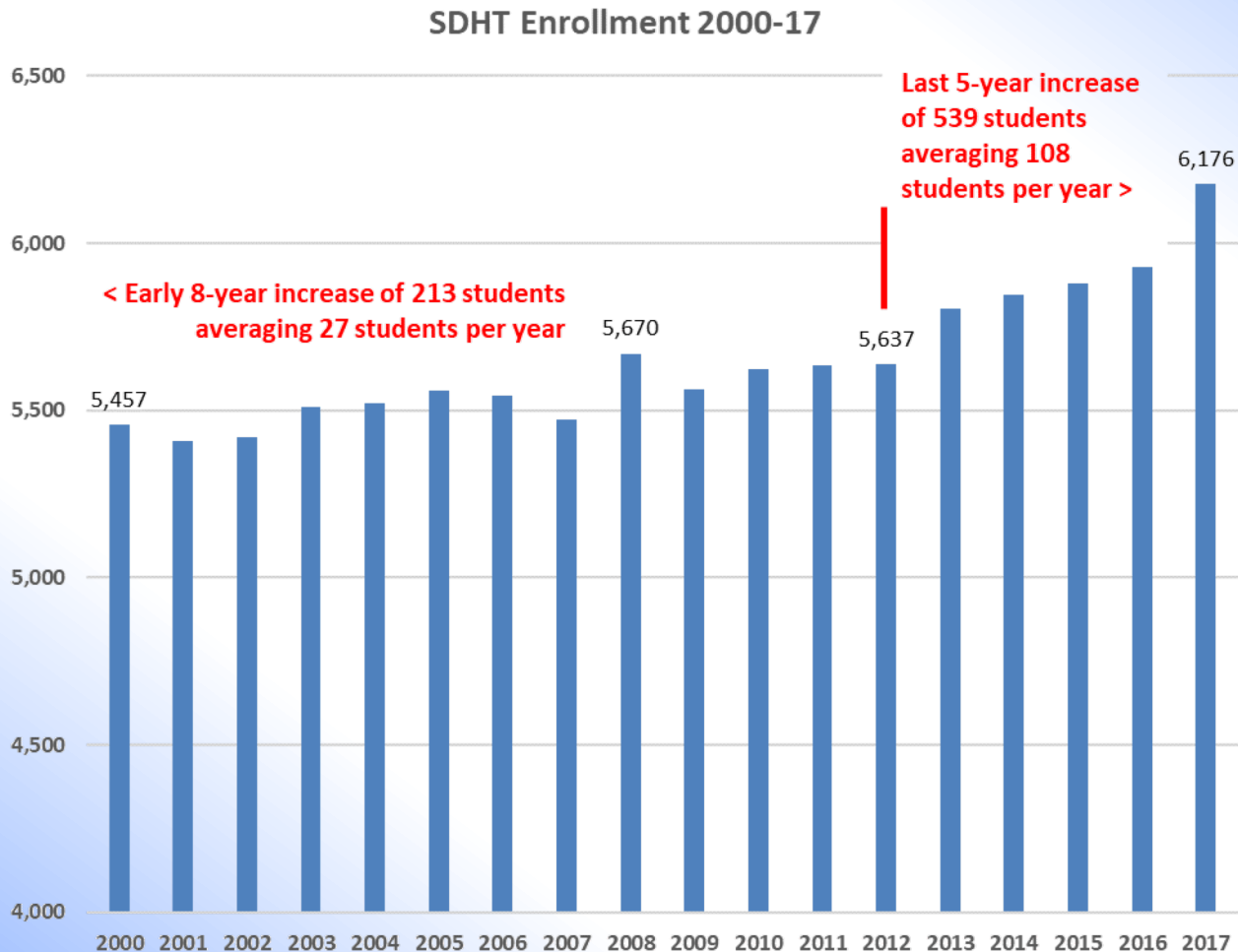
2015-16	639	0.626	400	487	483
			1.238	0.998	
2016-17	599	0.756	453	495	486
			1.163	1.030	
2017-18	636	0.684	435	527	510
6 Yr Average Survival Rate	0.680		1.150	1.016	
Change # Students					
Change % Students					
5-YR PROJECTIONS					
2018-19	601	0.680	408	500	535
			1.150	1.016	
2019-20	622	0.680	423	470	508
			1.150	1.016	
2020-21	606	0.680	412	486	477
			1.150	1.016	
2021-22	642	0.680	436	473	494
			1.150	1.016	
2022-23	625	0.680	425	502	481

2018-19 and forward
enrollment projections



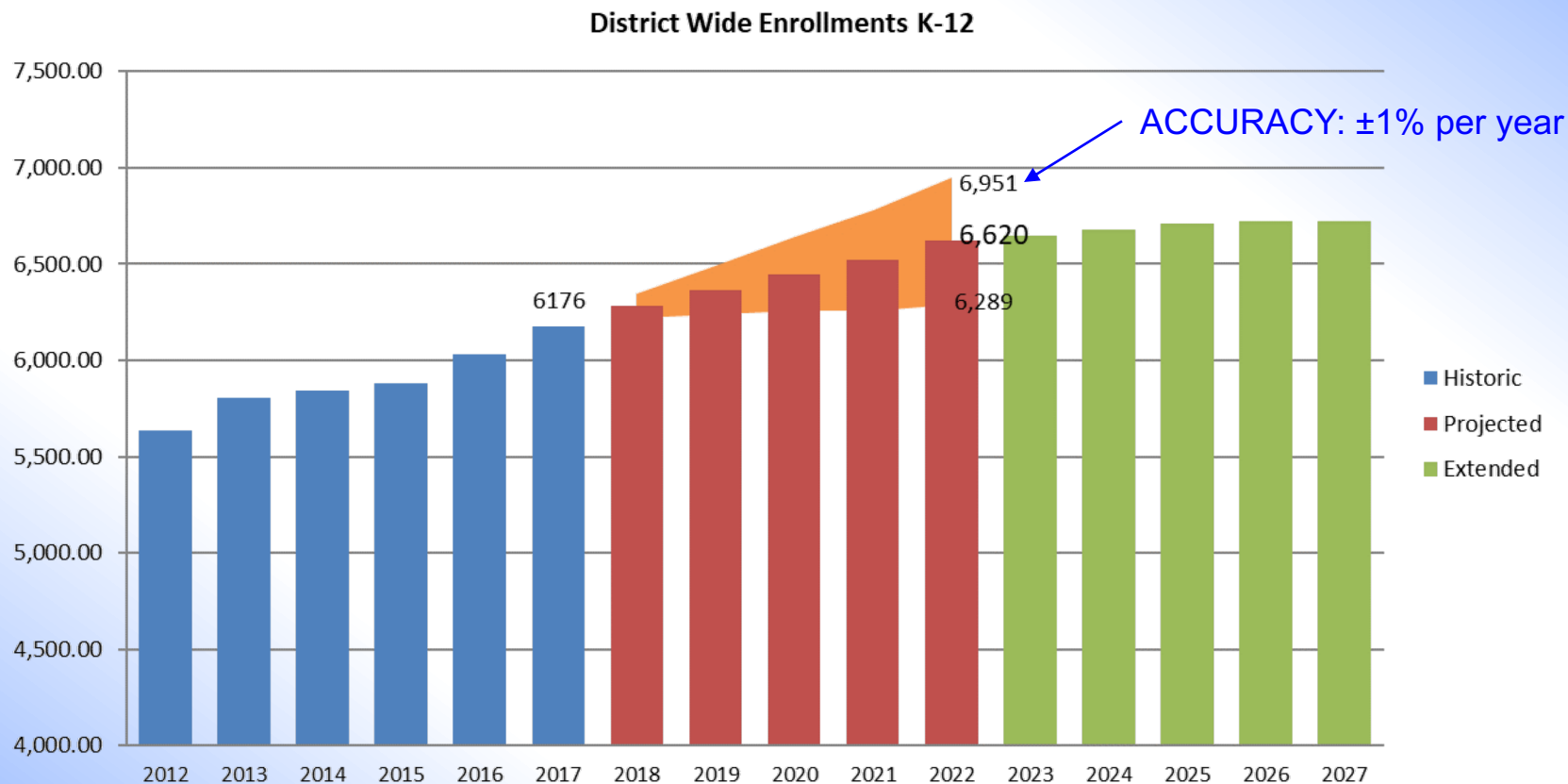


The School District of Haverford Township Historic Enrollments





The School District of Haverford Township District-wide Enrollment Projections

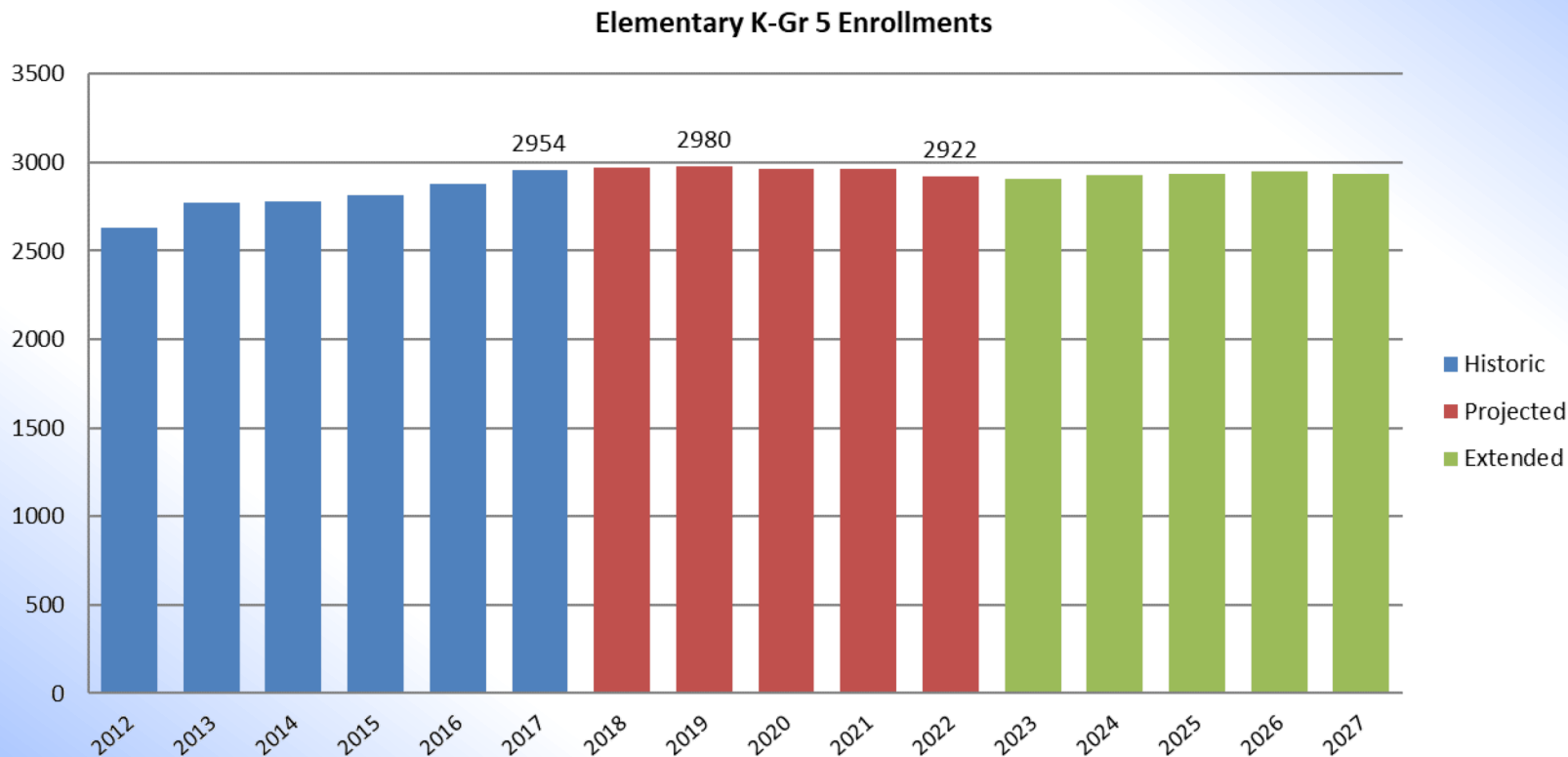


During the 2018-22 Projection period, the District will grow by 444 students or an average of 89 students per year.





The School District of Haverford Township Elementary K-Gr 5 Enrollment Projections



Historic: +327 Students

Projected: Peak then -32 Students

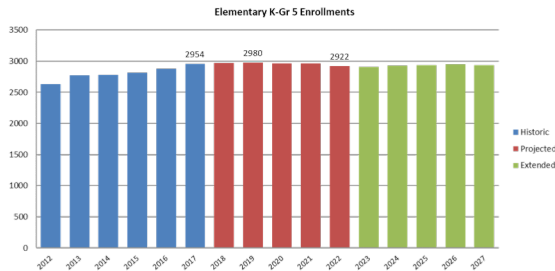




The School District of Haverford

Township

Report: Graphs & Tables



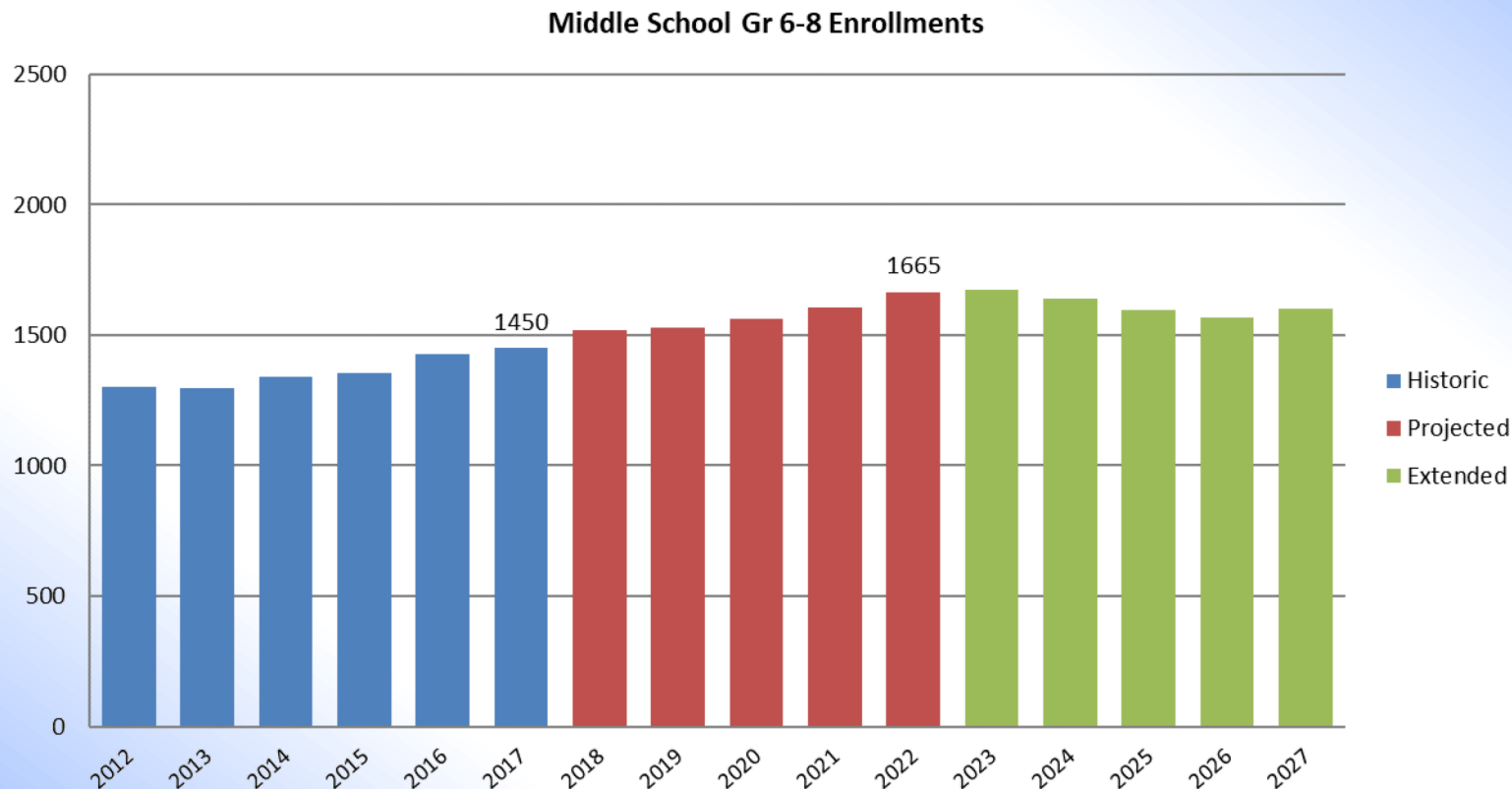
Elementary K-Grade 5 Enrollments									
							K-5 TOTAL	Period Average	Period Change
Historic	2012	413	465	463	424	454	408	2,627	
	2013	444	466	487	472	432	470	2,771	
	2014	432	485	470	477	479	436	2,779	
	2015	400	487	483	480	476	486	2,812	2,803
	2016	453	495	486	482	480	480	2,876	
	2017	435	527	510	504	492	486	2,954	327 12.4%
Projected	2018	408	500	535	516	509	500	2,969	
	2019	423	470	508	541	521	517	2,980	
	2020	412	486	477	514	547	529	2,965	2,959
	2021	436	473	494	482	519	556	2,961	
	2022	425	502	481	499	487	527	2,922	-32 -1.1%
Extended	2023	425	488	510	486	504	495	2,909	
	2024	425	488	496	515	491	513	2,929	
	2025	425	488	496	502	521	499	2,931	2,930
	2026	425	488	496	502	507	529	2,947	
	2027	425	488	496	502	507	515	2,933	12 0.4%

Historic: +327 Students
 Projected: Peak then -32 Students





The School District of Haverford Township Middle School Gr 6-8 Enrollment Projections



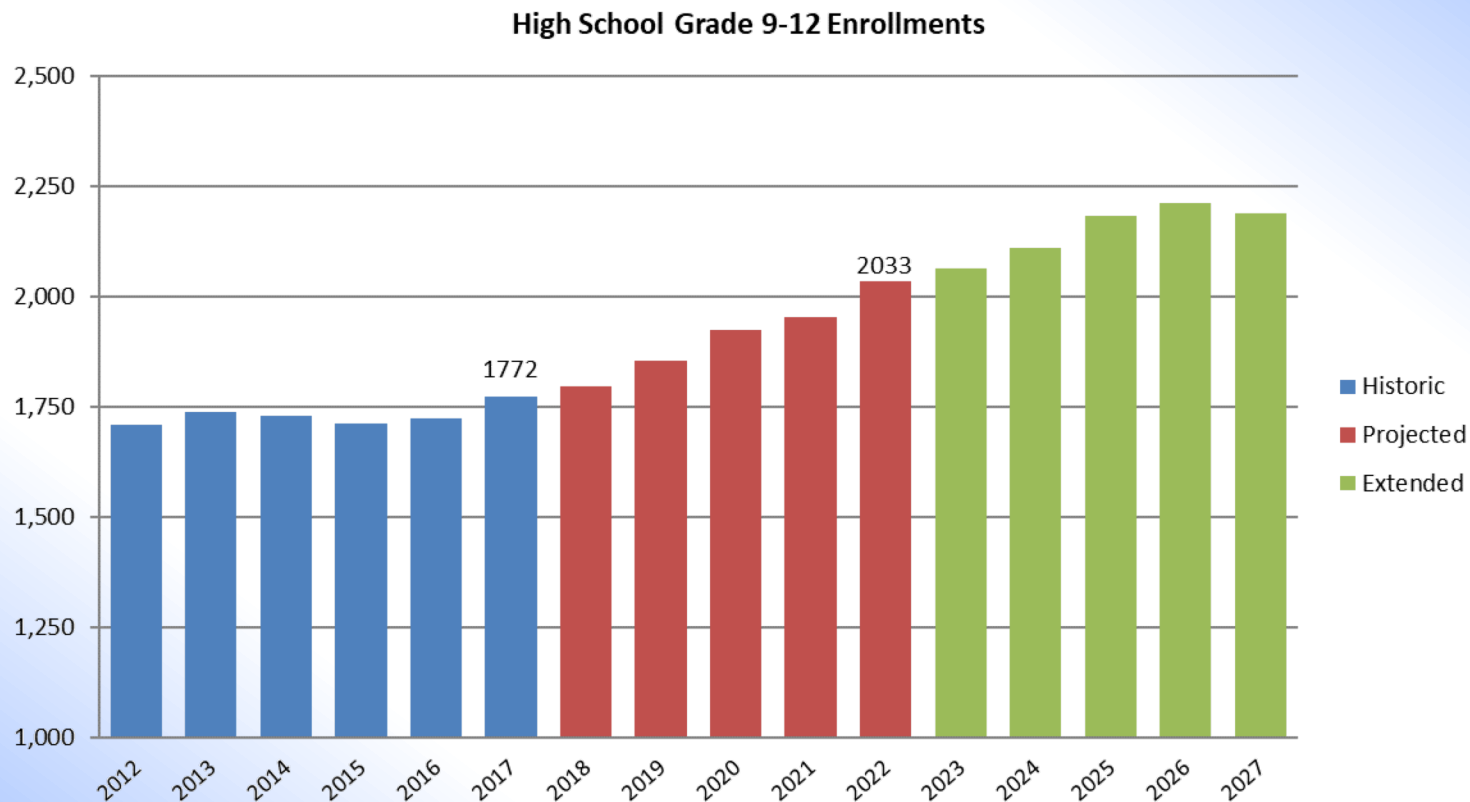
Historic: +147 Students

Projected: +215 Students to Peak





The School District of Haverford Township High School Gr 9-12 Enrollment Projections



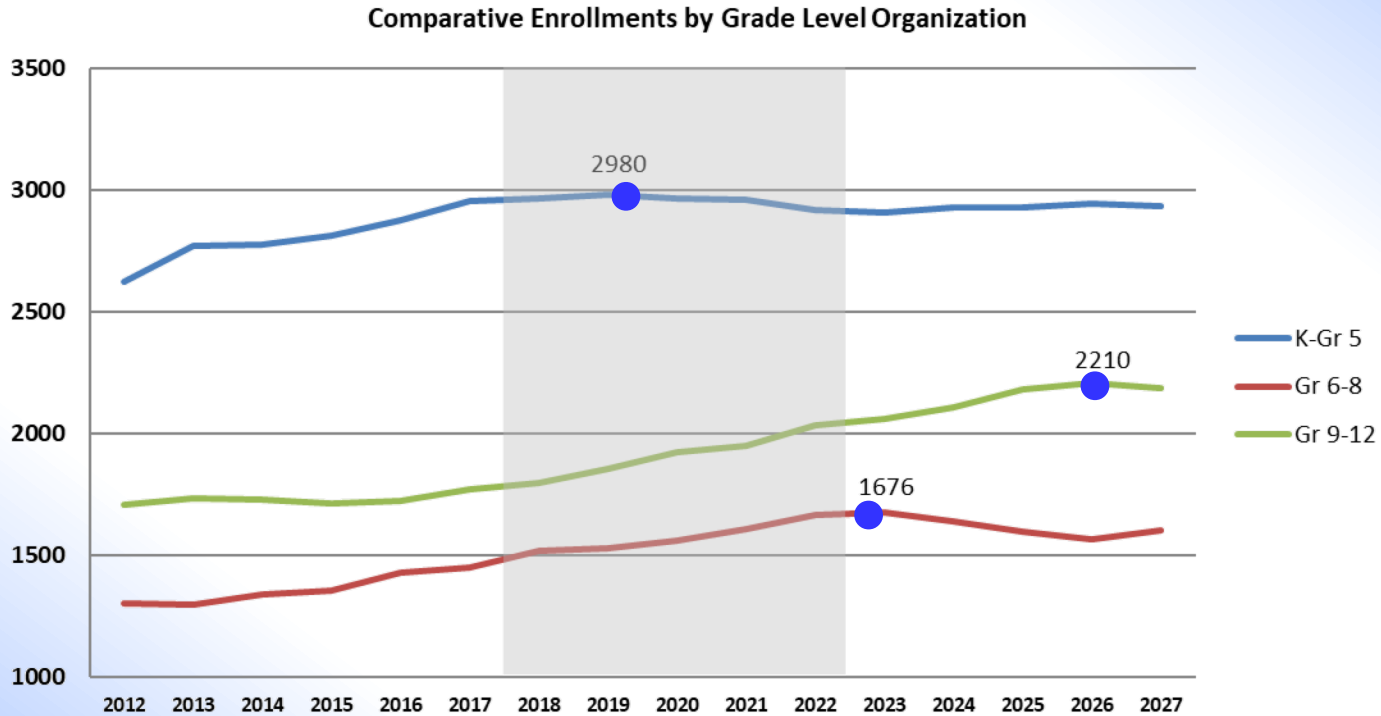
Historic: +65 Students

Projected: +261 Students ++





The School District of Haverford Township Grade Level Comparative Enrollment Projections



- **PEAK ENROLLMENT**

Elementary in the 5-year projection period

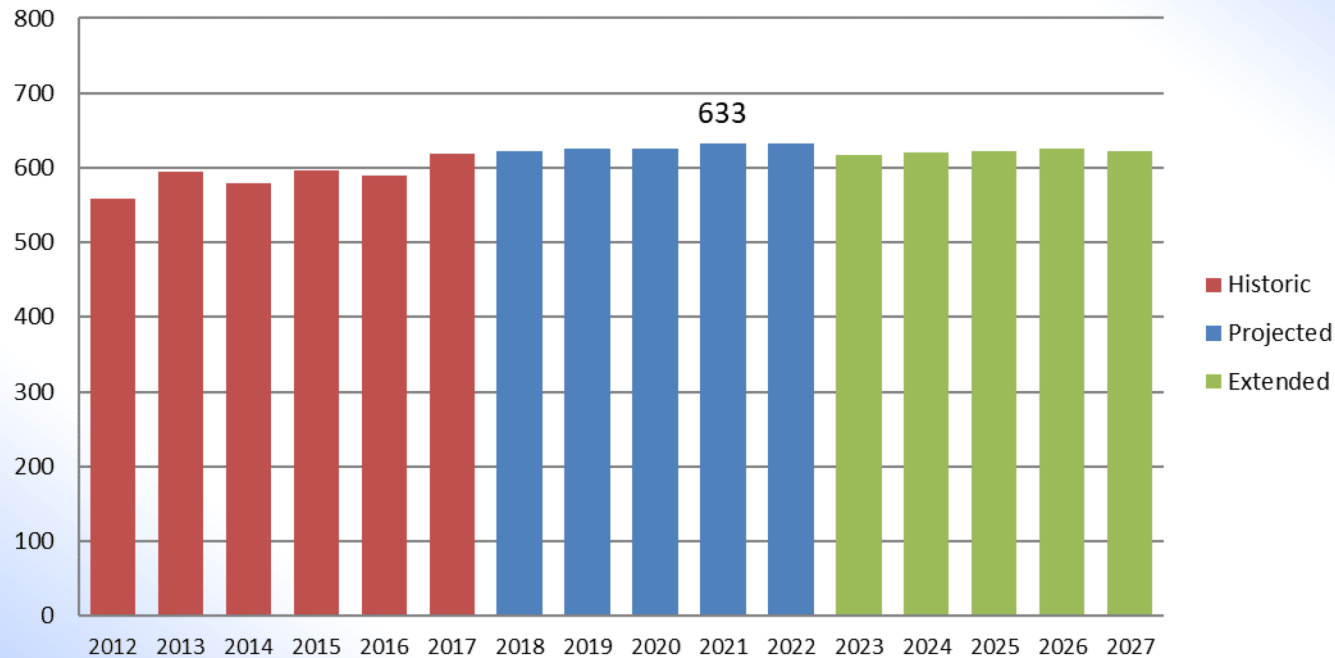
Middle & High in the extended 6-10 year projection





The School District of Haverford Township Chatham Park Gr K-5 Enrollment Projections

Chatham Park ES Enrollment by Year



Historic: +60 Students

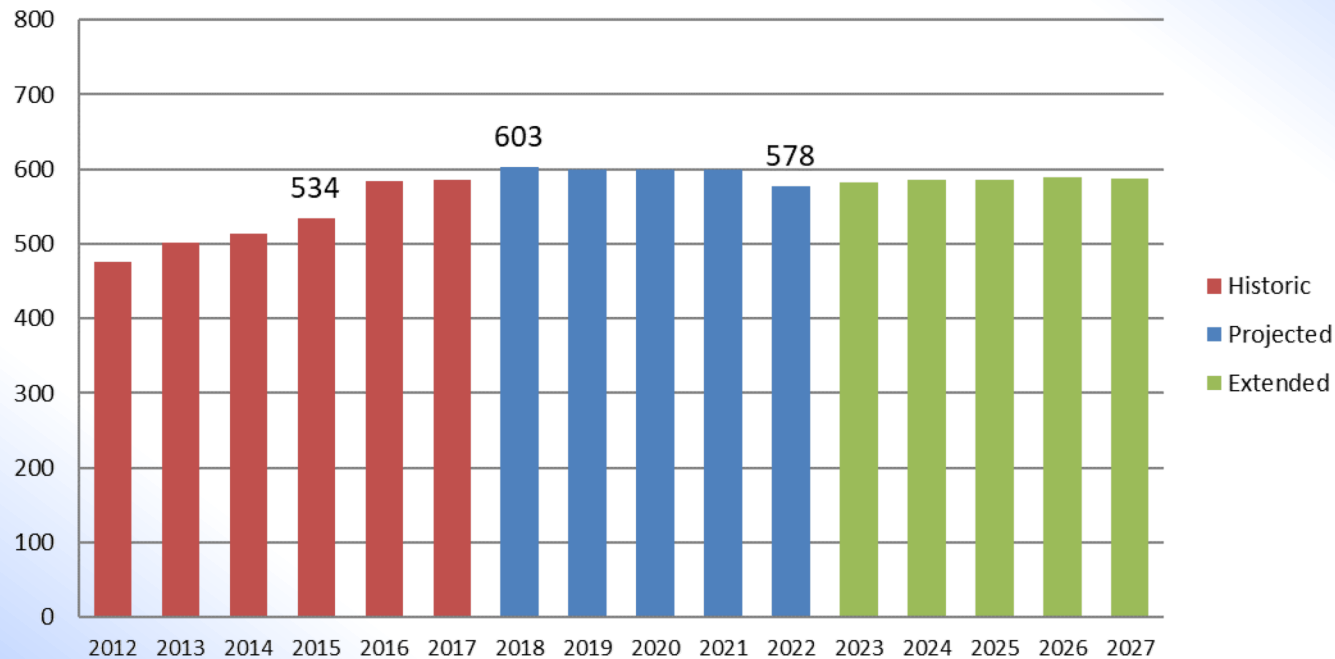
Projected: +14 Students to 632 in 2022





The School District of Haverford Township Chestnutwold Gr K-5 Enrollment Projections

Chestnutwold ES Enrollment by Year



Historic: +109 Students

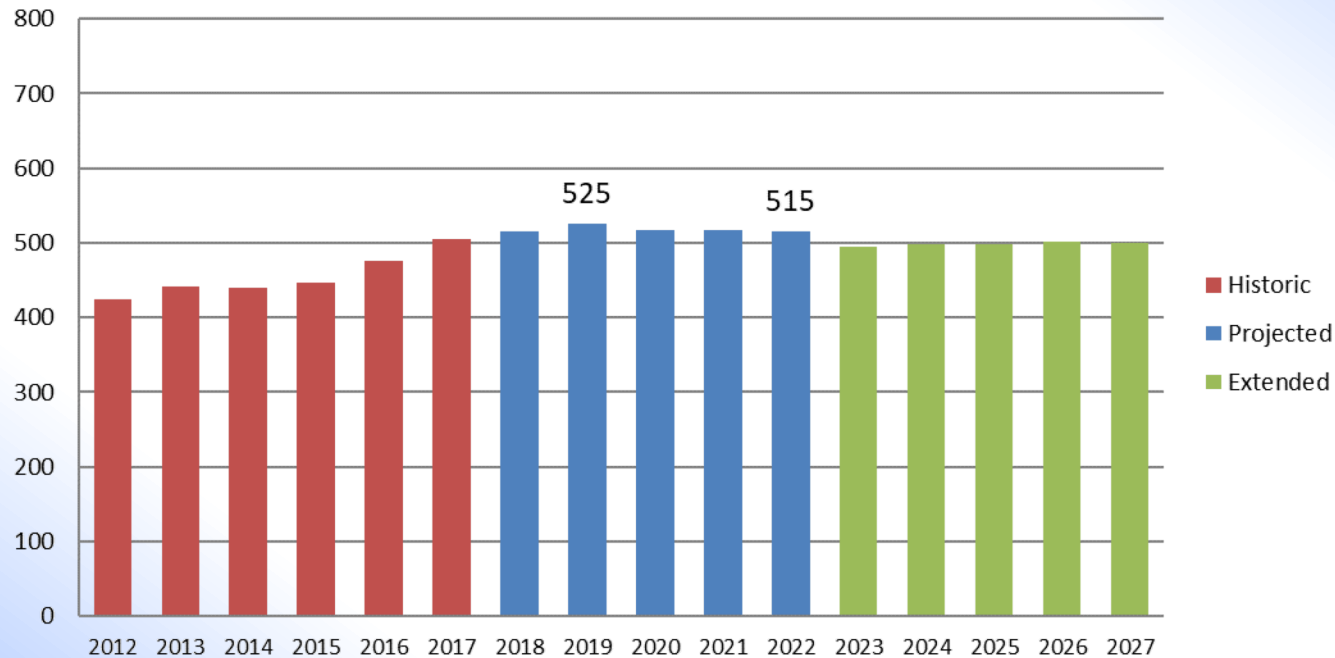
Projected: -7 Students to 578 in 2022





The School District of Haverford Township Coopertown Gr K-5 Enrolment Projections

Coopertown ES Enrollment by Year



Historic: +81 Students

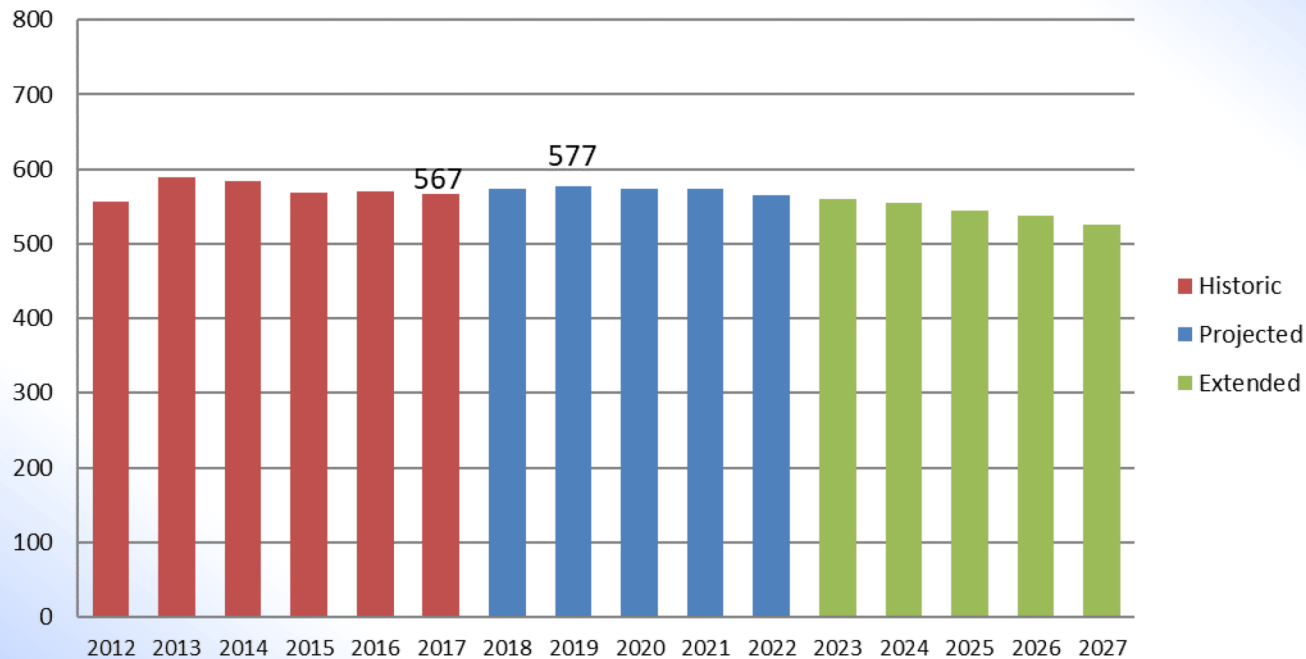
Projected: peaks at 525, then +10 Students to 515 in 2022





The School District of Haverford Township Lynnewood Gr K-5 Enrollment Projections

Lynnewood ES Enrollment by Year



Historic: Volatile +11 Students

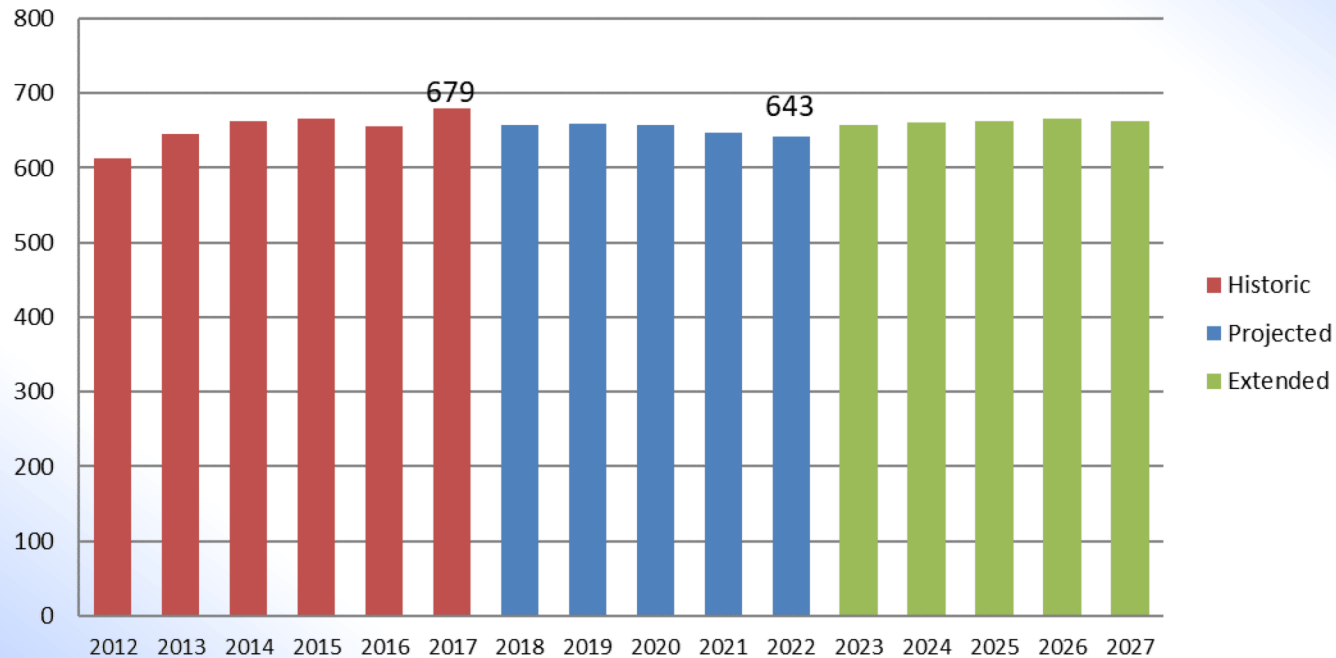
Projected: peaks at 577, then -2 Students to 567 by 2022





The School District of Haverford Township Manoa Gr K-5 Enrollment Projections

Manoa ES Enrollment by Year



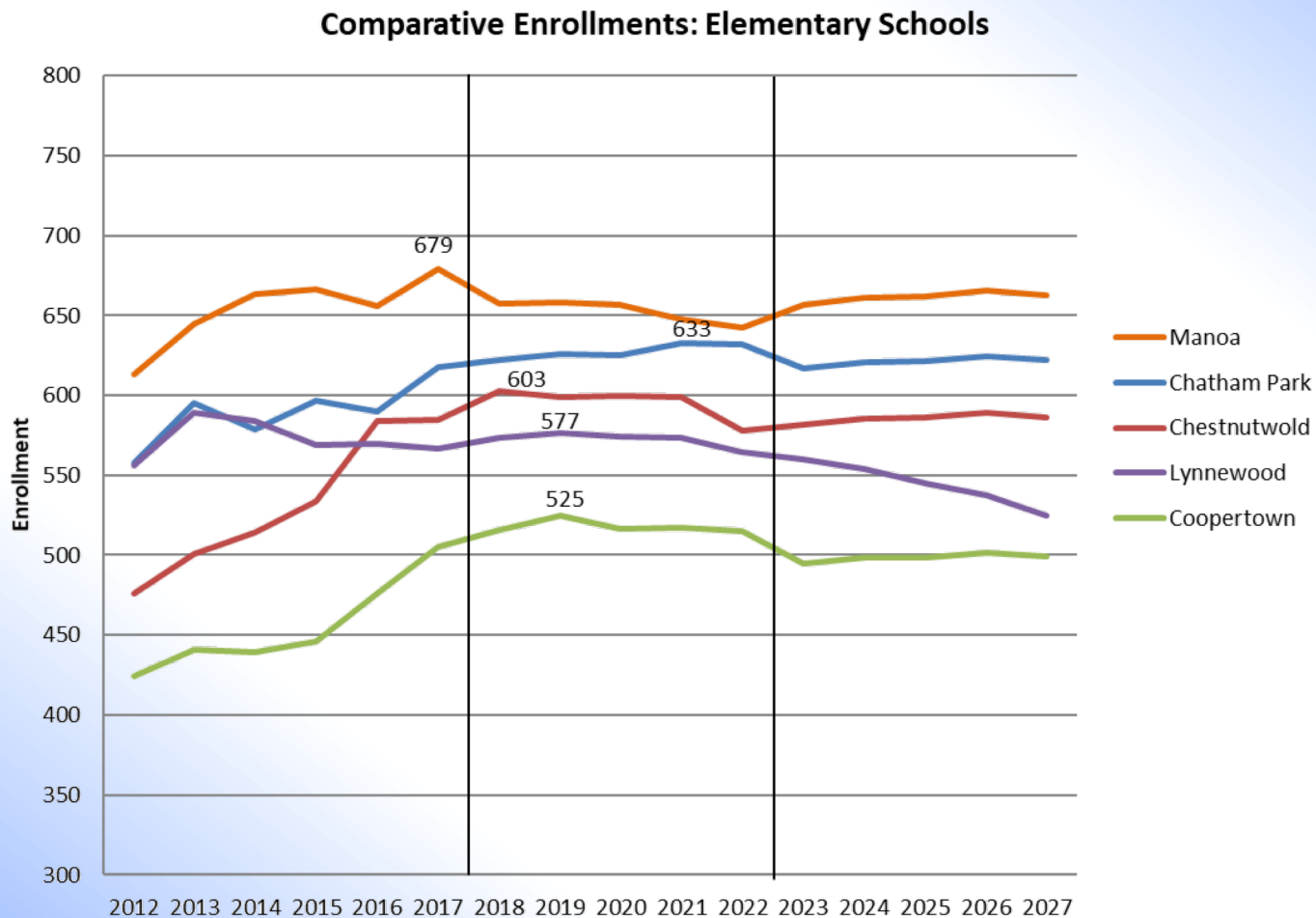
Historic: +66 Students

Projected: -36 Students to 643 by 2022



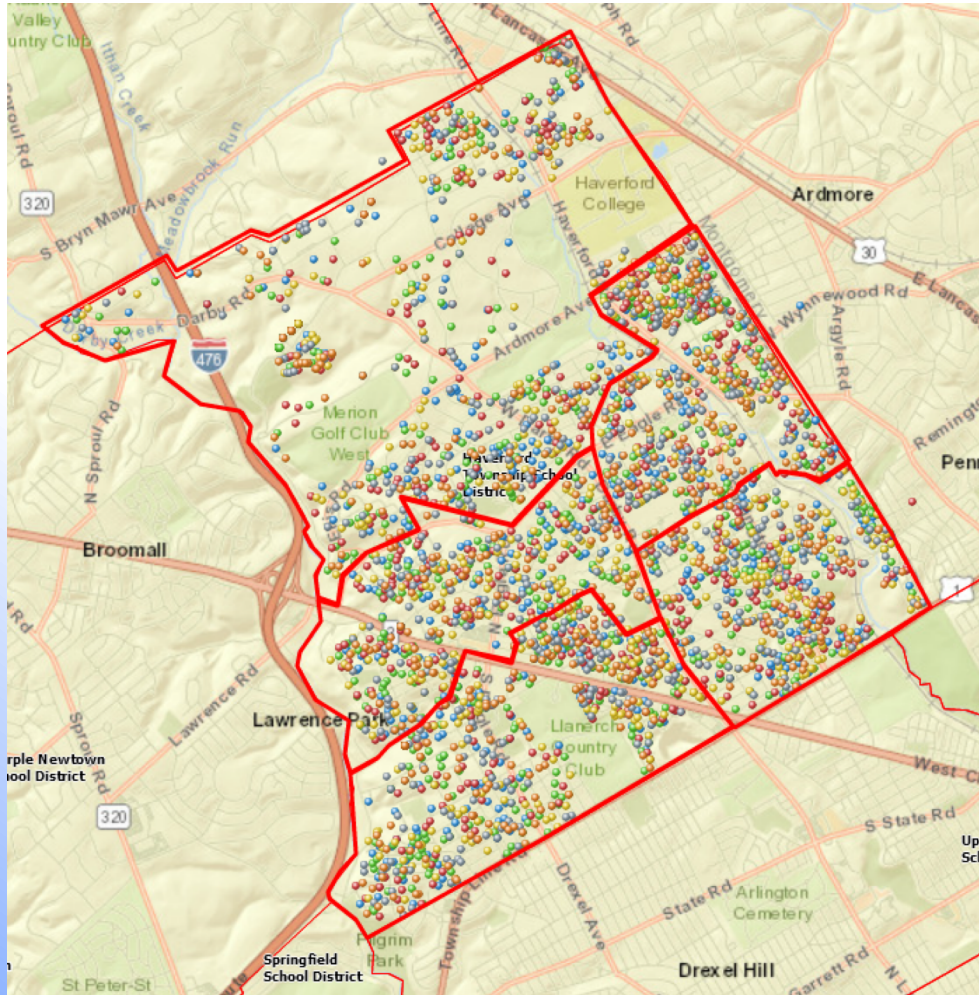


The School District of Haverford Township Comparative K-5 Enrollment Projections





The School District of Haverford Township Enrollment & Residential Sales



Plotted Residential Sales

Plotted Attendance Areas

Counted Annually

**Compared change in
Enrollment to change in
Sales**



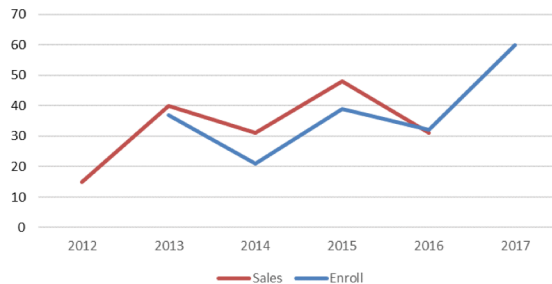


The School District of Haverford

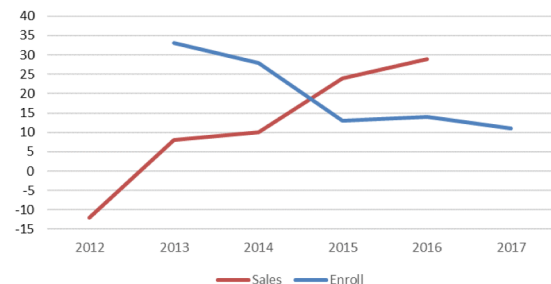
Township

Enrollment & Residential Sales

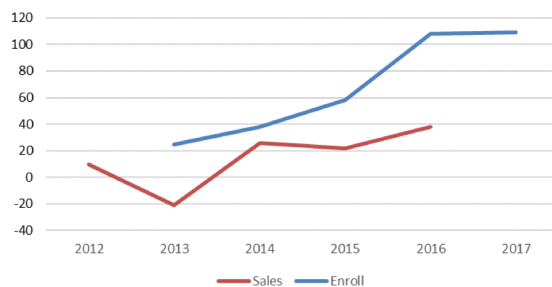
Chatham Pk Change in Enroll & Resid Sales



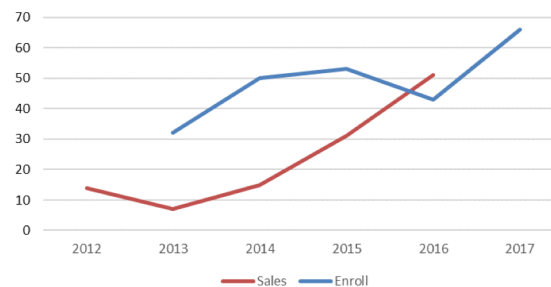
Lynnewood Change in Enroll & Resid Sales



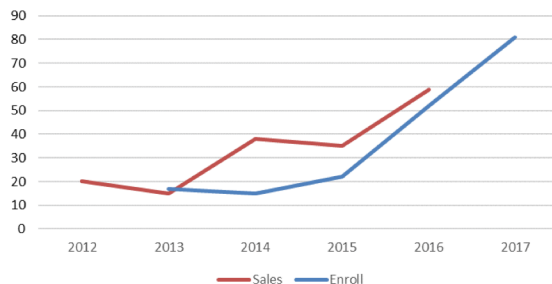
Chestnutwold Change in Enroll & Resid Sales



Manoa Change in Enroll & Resid Sales



Coopertown Change in Enroll & Resid Sales





The School District of Haverford Township 5-Year Enrollment Projections Summary

5-Year Projected

District	Steadily increases by 444 students by 2021
-----------------	---------------------------------------------------

K- Gr 5	Decreases 32 students by 2021
----------------	--------------------------------------

Gr 6-8	Increases by 215 students by 2021
---------------	------------------------------------------

Gr 9-12	Increases by 154 students by 2021
----------------	------------------------------------------





The School District of Haverford Township 5-Year Enrollment Projections Elementary Summary

5-Year Projected

Chatham Park	Increases by 14 students to a 2021 high of 633 students
Chestnutwold	Decreases 7 students to a 2022 low of 578 students
Coopertown	Increases 10 students to 515 in 2022, after peaking at 525 in 2019
Lynnewood	Decreases by 2 students to 565 in 2022, after peaking at 577 in 2019
Manoa	Decreases by 36 students to 643 in 2022





The School District of Haverford Township

Thank You



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GSundell@SundanceAssoc.com

