Tredyffrin/Easttown School District BOARD EDUCATION COMMITTEE

November 15, 2017 5:00 PM **TEAO, Meeting Room 200**

Agenda

- Approval of October 4, 2017 Minutes II. School Performance Profile (SPP) Scores III. **Demographic Report**
- ٧. **Public Comment**

Other

I.

IV.

Board Education Committee Goals

- 1. Review the recommended administrative changes to the academic program that have impact on curriculum or budget and communicate recommendations to the full Board.
- 2. Review all enrollment and staffing numbers and projections for the year to determine the extent to which educational needs are addressed.
- 3. Review student assessment results.
- 4. Recommend informational education presentations to include in the monthly Board meetings as priority discussions.
- Receive administrative recommendation for school calendar and make recommendation to the full Board.
- 6. Review current programming to determine alignment with federal and state mandates including Keystone Exams content and implementation.
- Make recommendations to Board committees to communicate appropriate educational positions to legislators.
- Review current programming at the middle school level.

Next Meeting Date: January 3, 2018

DRAFT PENDING COMMITTEE APPROVAL BOARD EDUCATION COMMITTEE MEETING MINUTES October 4, 2017

Tredyffrin/Easttown Administrative Offices **6:30 p.m.**

Attending all or part of the meeting:

Board Committee Members: Katharine Murphy (Chair), Scott Dorsey, Roberta Hotinski, Virginia Lastner (via phone)

Other Board Members: Michele Burger, Doug Carlson, Todd Kantorczyk, Edward Sweeney

TE School District Representatives: Wendy Towle (Administrative Liaison), Patrick Gately, Richard Gusick, Nicole Roy, Mike Szymendera, Oscar Torres

Community Members: Amy Alvarez (TEEA Representative), Doug Anestad, Xavier Arnault, Wendy Brooks, Marine Havel, Xiaoyan Han, Karen Huang, Jamie Lynch, Kate Mayer, Pat McHugh, Andrea Sau, Jessica Schneck, Cindy Tu, Tina Whitlow, Ling Zhong

The meeting was called to order at 6:30 p.m.

Public Comment:

Xavier Arnault commented on the **School Calendar**. Doug Anestad commented on the **School Calendar**.

Xavier Arnault commented on the World Languages Review (MS/HS). Jessica Schneck commented on the World Languages Review (MS/HS). Doug Anestad commented on the World Languages Review (MS/HS). Pat McHugh commented on the World Languages Review (MS/HS). Cindy Tu commented on the World Languages Review (MS/HS). Karen Huang commented on the World Languages Review (MS/HS). Jamie Lynch commented on the World Languages Review (MS/HS).

Jessica Schneck commented on **Electronic Report Cards**. Xavier Arnault commented on **Electronic Report Cards**.

Pat McHugh commented on diversity. Marine Havel commented on diversity.

Marine Havel commented on school start times. Xavier Arnault commented on school start times. Karen Huang commented on school start times.

Kate Mayer commented on Dyslexia Awareness Month. Jamie Lynch commented on Dyslexia Awareness Month. Doug Anestad commented on Dyslexia Awareness Month. Wendy Brooks commented on Dyslexia Awareness Month. Xavier Arnault commented on Conestoga High School (AP Exams and student privileges). Doug Anestad commented on Conestoga High School (BC Calculus).

Approval of Minutes:

The September 6, 2017 minutes were approved.

Committee Discussion and Recommendations:

The Committee continued their discussion of the **2018-2019 School Calendar**. The Committee reviewed the revised draft calendar, suggesting: a pre-Labor Day start, moving the instructional staff inservice day from February 15 to February 4, and not moving the dates for the April spring break. After hearing comments provided by community members, the Committee recommended the 2018-2019 school calendar to the full Board for approval.

The Committee reviewed World Languages at the Middle Schools and High School. Dr. Towle, Director of Curriculum, Instruction, Staff Development, and Planning, and Dr. Torres, Director of State and Federal Programs, shared information regarding: September Board Education Committee goals; number of certified World Language candidates available in Pennsylvania; the current middle school program and enrollment numbers; the cost of adding additional World Languages at the middle school; the current high school program and enrollment numbers; language performance levels based on the American Council on the Teaching of Foreign Languages (ACTFL) scale and AP Exams; and considerations for the middle school and high school programs moving forward. Dr. Towle and Dr. Torres answered several questions from Committee and community members. The Committee made the following recommendations: 5th grade FLEX to be replaced with 5th grade Spanish and French as a precursor to 6th grade Spanish and French; continued development of 4th grade programs to increase elementary student awareness of the languages offered in 5th grade; Chinese 1 to be renewed in the Conestoga High School Program of Studies for the 18-19 school year; World Language Standing Committee examination of enhancements to upper-level Chinese courses at Conestoga High School.

The Committee discussed **Electronic Report Cards.** Dr. Szymendera, Director of Instructional Technology, shared information about the District's current electronic report cards, including the plan to no longer share paper copies of the report card with all families during the first three marking periods. Since the electronic report card contains the same information that was previously mailed home at each marking period, families will receive a paper copy only of yearend report cards.

The meeting was adjourned at 9:33 p.m.

Next meeting: **TBD**

School Performance Profile (SPP) Scores 2016-2017

Beaumont – 85.3

Devon - 86.3

Hillside – 79.7

New Eagle – 76.5

Valley Forge Elementary – 81.6

TE Middle – 72.4

Valley Forge Middle – 77.0

Conestoga – 89.7

Demographic Study: October 2017 Update Public School Enrollments for Tredyffrin/Easttown School District 940 West Valley Road, Suite 1700, Wayne, PA 19087



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November 2, 2017

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APPENDIX:	

- A1. Standard Worksheet
- A2. Plus Housing Impact Worksheet
- B1. Notes on Methodology
- C1. Exposition of Grade Level Survival Ratios

NOTES REGARDING THIS OCTOBER 2017 UPDATE

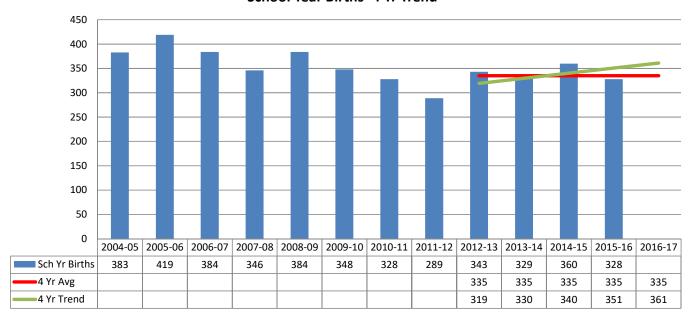
The projection uses the Standard methodology for Cohort Survival as described in previous studies.

Adjustments are made for recent trends. This includes using a 4-year average for Births for the as yet unknown years, instead of a 6-year average.

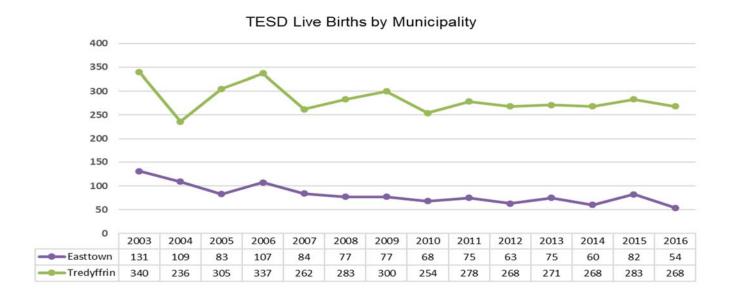
Also the Birth to Kindergarten Survival Ratio and the Kindergarten to 1st Grade Survival Ratio are the average of the most recent two years. This significantly increases the B:K ratio and slightly decreases the K:1 ratio. This adjustment is made on the District level and at individual schools.

Adjustments are also made for new housing in accordance with permitting and occupancy schedules determined in consultation with the Developers.

School Year Births- 4 Yr Trend



This study uses the 4-year average of 335 births for years 2017 and forward for which no data is available. Use of a standard 6-year average would be skewed away from recent trends. The recent 4-year trend is for 10 additional Births per year.

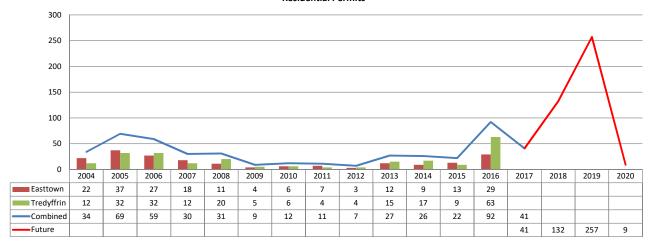


		Total I	Housing	Unit Βι	ilding P	ermits f	or:										
			:	Sum of 1	TESD									Permittee	d or Plann	ed >	
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Total Units	34	69	59	30	31	9	12	11	7	27	26	22	92	41	132	257	9
Single-Family	34	69	59	30	31	9	12	11	7	27	26	22	92				
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0	0		-		

	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013												2016
Total Units	22	37	27	18	11	4	6	7	3	12	9	13	29
Single-Family													29
All Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0	0

	Housing Unit Building Permits for:												
	TREDYFFRIN TOWNSHIP, PA												
	(Chester County)												
	2004 2005 2006 2007 2008 2009 2010 2011 2012 2013												
Total Units	12	32	32	12	20	5	6	4	4	15	17	9	63
Single-Family	12	32	32	12	20	5	6	4	4	15	17	9	63
Multi-Family	0	0	0	0	0	0	0	0	0	0	0	0	0

Residential Permits



 $398 \ units \ of housing are approved or planned for construction and occupancy over the next three years. \ These townhouse, apartment and occupancy over the next three years.$ single-family houses will generate school age children.

There are also 400 approved units of Assisted Living that will not generate school age children.

Future Housing Occupancy Schedule

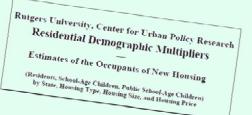
Future Housing Occ	cupancy Sche	edule	11!4						Total
	Туре	Bdrms	Unit Count	2016	2017	2018	2019	2020	Total Remain
	Type	Dulliis	Count	2010	2017	2010	2013	2020	Kemam
Wayne Glen	Townhouse	2 Bdrm	30			15	15		
750 Walker Rd.	Townhouse	3 Bdrm	62			30	32		
Conditional Use App'l			92			45	47		92
Chesterbrook V	TH own	3 Bdrm	68	22	22	24			
500 Chesterbrook Blvd.	TH rent	3 Bdrm	60	10	10	10			
In Construction			128	32	32	34			34
Village Square	Townhouse	2 Bdrm	10		5	5			
23-45 So Valley Rd.	Townhouse	3 Bdrm	20		4 9	16 21			9
In Construction			30		9	21			9
Lehman & Holder	Townhouse	3 Brdm	6			6			
Center Overlay District Needs Ord Amend			6			6			6
Station Square	Rental Apt	1 Bdrm	53				53		
37 N.Valley	Rental Apt	2 Bdrm	100				100		
Resubmit-Appl Denied			153				153		153
Peytons Crossing	Townhouse	3 Brdm	8			8			
20-22 Berkley Rd. Under Review			8			8			8
WWEDFritz Lumber	Rental Apt	1 Bdrm	10				10		
631 Lancaster Ave.	Rental Apt	2 Bdrm	32				32		
Under Review			42				42		42
Newtown Road	Single Fam	4 Bdrm	12			12			
1016 Newtown Rd Under Review			12			12			12
Mack Oil-Tredyffrin	Single Fam	4 Bdrm	18				9	9	
44-55 Branch Ave. No Application yet			18				9	9	18
Mack Oil-Easttown	Single Fam	4 Bdrm	6				6		
44-55 Branch Ave. SD Approved 10/16/17			6				6		6
Armstrong Prop	Single Fam	4 Bdrm	6			6			
30-50 Price Ave			6			6			6
Approved 10/16/17 Howelville Rd	Townhouse	3 Brdm	13						
951 Howelville Rd.		0 <u> </u>	13						0
Withdrawn									
TOTAL				32	41	132	257	9	398

Plus 440 units of Assisted Living in 2018-20 that might increase <u>local</u> resales by 50-75 units. 159 Units (40%) are speculative but deemed reasonable for future approvals and inclusion on this table.

Multipliers by Unit Type and Number of Bedrooms

		School Age Children	Public School Age Children
Townhouse	2 Bdrm 3 Bdrm	0.160 0.420	0.150 0.360
Townhouse TH own TH rent	3 Bdrm 3 Bdrm	0.420 0.160 0.730	0.360 0.150 0.360
111 Tem	O Bulli	0.700	0.000
Rental Apt Rental Apt	1 Bdrm 2 Bdrm	0.040 0.210	0.040 0.190
Single Fam	4 Bdrm	1.060	0.840

Multipliers for School Age Children by Unit Type and Number of Bedrooms are sourced from "Residential Demographic Multipliers for Pennsylvania" prepared by the Edward J. Bloustein School of Planning and Public Policy at Rutgers the State University of New Jersey.



Propased by:

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June 2006

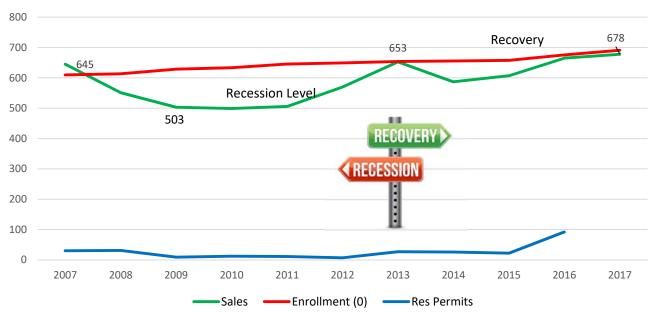
Future Public School Age Children (PSAC)

	Туре	Bdrms	SAC/ Unit	2016 2017	2018	2019	2020	Total Remain	
Wayne Glen 750 Walker Rd.	Townhouse Townhouse	2 Bdrm 3 Bdrm	0.150 0.360		2.3	2.3 11.5			New Eagle-VFMS
Chesterbrook V	TH own	3 Bdrm	0.150		3.6	13.8		27	
500 Chesterbrook Blvd.	TH rent	3 Bdrm	0.730		7.3 10.9			11	New Eagle-VFMS
Village Square 23-45 So Valley Rd.	Townhouse Townhouse	2 Bdrm 3 Bdrm	0.150 0.360		0.8 5.8				Beaumont-TEMS
Lehman & Holder	Townhouse	3 Brdm	0.360		6.5 2.2			7	Devon-TEMS
Center Overlay District					2.2			2	
Station Square 37 N.Valley	Rental Apt Rental Apt	1 Bdrm 2 Bdrm	0.040 0.190			2.1 19.0 21.1		21	Hillside-VFMS
Peytons Crossing 20-22 Berkley Rd.	Townhouse	3 Brdm	0.360		2.9			3	Devon-TEMS
WWEDFritz Lumber 631 Lancaster Ave.	Rental Apt Rental Apt	1 Bdrm 2 Bdrm	0.040 0.190			0.4 6.1 6.5		 6	Devon-TEMS
Newtown Road 1016 Newtown Rd	Single Fam	4 Bdrm	0.840		10.1 10.1	0.5		10	Beaumont-TEMS
Mack Oil-Tredyffrin 44-55 Branch Ave.	Single Fam	4 Bdrm	0.840			7.6 7.6	7.6 7.6	15	Hillside-TEMS
Mack Oil-Easttown 44-55 Branch Ave.	Single Fam	4 Bdrm	0.840			5.0 5.0		5.0	Hillside-TEMS
Armstrong Prop 30-50 Price Ave	Single Fam	4 Bdrm	0.840		5.0 5.0			5.0	Hillside-TEMS
Howelville Rd 951 Howelville Rd.	Townhouse	3 Brdm	0.840					0	Hillside-TEMS
TOTAL PSAC				0 0	50.6	54.0	7.6	112	

Factors Impacting Enrollments

Residential Permits	2007 30	2008 31	2009 9	2010 12	2011 11	2012 7	2013 27	2014 26	2015 22	2016 92	2017
Enrollment	2007 6097	2008 6132	2009 6288	2010 6334	2011 6457	2012 6493	2013 6541	2014 6553	2015 6575	2016 6753	2017 6909
Enrollment (0)	610	613	629	633	646	649	654	655	658	675	691
Residential Sales	2007 645	2008 551	2009 503	2010 499	2011 506	2012 570	2013 653	2014 587	2015 607	2016 665	Annualized 2017 678

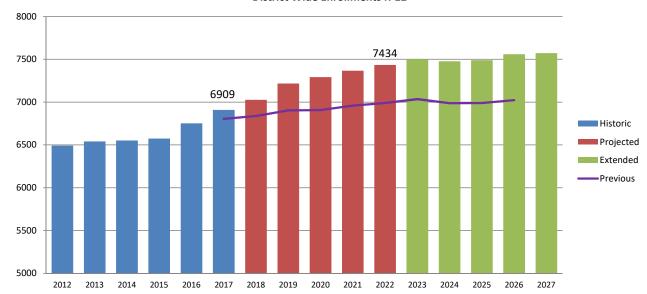
Residential Sales, Permits and Enrollment



The level of sales of existing housing at 500-700 units per year has a stronger impact on enrollments than does permitting for new housing, which for the 10-year period preceding 2016 averaged just 23 units per year.

It is unusual that the enrollment grew at a substantial rate through the 2007-12 recession despite a 150-unit reduction in annual housing sales.

District Wide Enrollments K-12



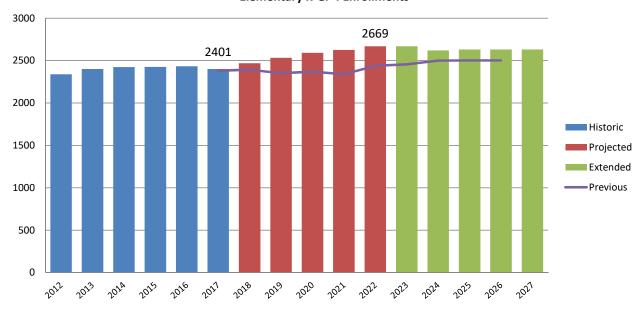
		TOTAL	Average	Change	%Chg
Historic	2012	6,493			
	2013	6,541			
	2014	6,553			
	2015	6,575	6,637		
	2016	6,753			
	2017	6,909		416	6.4%
Projected	2018	7,028			
	2019	7,219			
	2020	7,292	7,268		
	2021	7,367			
	2022	7,434		525	7.5%
Extended	2023	7,502			
	2024	7,477			
	2025	7,491	7,521		
	2026	7,559			
	2027	7,574		140	1.9%

Tredyffrin-Easttown School District Elementary K-Grade 4 Enrollments

Students from new housing

							K-4	Period	Period	
		K	1	2	3	4	TOTAL	Average	Change	
Historic	2012	367	524	466	500	481	2,338			
	2013	366	500	540	478	516	2,400			
	2014	393	452	519	565	495	2,424			
	2015	356	496	462	529	582	2,425	2,403		
	2016	399	462	525	500	546	2,432			
	2017	380	483	481	544	513	2,401		63	2.7%
Projected	2018	413	480	505	505	565	2,469			
	2019	452	522	503	531	525	2,533			
	2020	409	568	543	525	548	2,591	2,577		
	2021	417	513	589	566	541	2,625			
	2022	417	523	532	614	583	2,669		268	10.8%
Extended	2023	417	523	543	554	633	2,670			
	2024	417	523	543	565	572	2,619			
	2025	417	523	543	565	583	2,631	2,636		
	2026	417	523	543	565	583	2,631			
	2027	417	523	543	565	583	2,631		-38	-1.4%

Elementary K-Gr 4 Enrollments

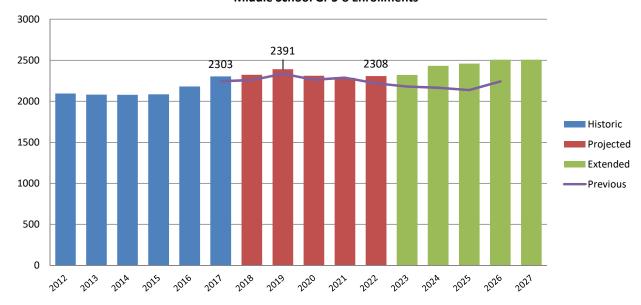


Tredyffrin-Easttown School District Middle School Grade 5-8 Enrollments

Students from new housing

						Gr 5-8	Period	Period	
		5	6	7	8	TOTAL	Average	Change	.'
Historic	2012	532	523	536	504	2,095			
	2013	481	537	522	541	2,081			
	2014	523	500	536	519	2,078			
	2015	506	525	511	542	2,084	2137		
	2016	600	520	540	520	2,180			
	2017	575	625	548	555	2,303		208	9.9%
Projected	2018	529	593	641	558	2,322			
	2019	583	546	609	653	2,391			
	2020	538	597	558	617	2,310	2323		
	2021	561	551	609	565	2,286			
	2022	554	575	562	617	2,308		5	0.2%
Extended	2023	597	567	586	569	2,320			
	2024	648	612	579	593	2,432			
	2025	585	664	624	586	2,459	2445		
	2026	597	600	677	632	2,506			
	2027	597	612	612	686	2,506		198	8.5%

Middle School Gr 5-8 Enrollments

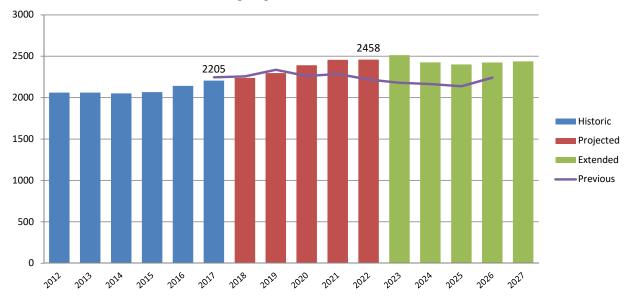


Tredyffrin-Easttown School District **High School Grade 9-12 Enrollments**

Students from new housing

						Gr 9-12	Period	Period	
		9	10	11	12	TOTAL	Average	Change	
Historic	2012	523	501	515	521	2,060			
	2013	501	527	510	522	2,060			
	2014	531	506	507	507	2,051			
	2015	511	550	500	505	2,066	2097		
	2016	563	523	554	501	2,141			
	2017	552	570	529	554	2,205		145	7.0%
Projected	2018	566	566	572	534	2,237			
_	2019	569	580	568	577	2,295			
	2020	662	580	579	570	2,391	2367		
	2021	624	674	579	580	2,456			
	2022	571	636	672	579	2,458		253	11.3%
Extended	2023	624	582	634	673	2,512			
	2024	576	635	580	635	2,426			
	2025	600	586	634	581	2,401	2440		
	2026	593	611	585	634	2,423			
	2027	639	603	609	585	2,438		-20	-0.8%

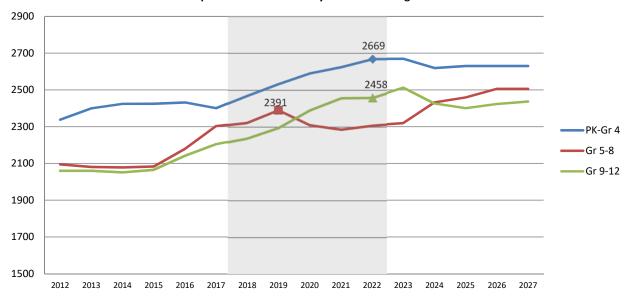
Conestoga High School Grade 9-12 Enrollments



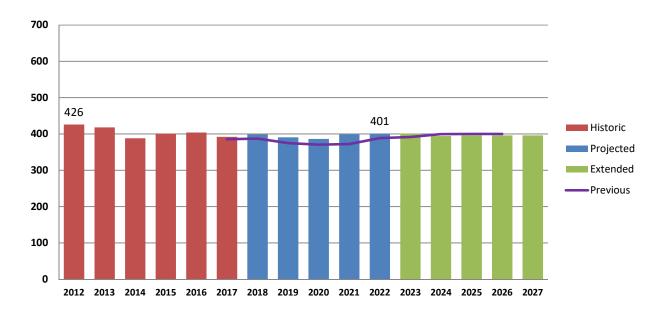
Tredyffrin-Easttown School District **Comparative Enrollments by Grade Level Organization**

		K-4	Gr 5-8	Gr 9-12	TOTAL	
Historic	2012	2338	2095	2060	6493	
	2013	2400	2081	2060	6541	
	2014	2424	2078	2051	6553	
	2015	2425	2084	2066	6575	
	2016	2432	2180	2141	6753	
	2017	2401	2303	2205	6909	Н
Projected	2018	2469	2322	2237	7028	
	2019	2533	2391	2295	7219	L
	2020	2591	2310	2391	7292	
	2021	2625	2286	2456	7367	
	2022	2669	2308	2458	7434	
Extended	2023	2670	2320	2512	7502	
	2024	2619	2432	2426	7477	
	2025	2631	2459	2401	7491	
	2026	2631	2506	2423	7559	
	2027	2631	2506	2438	7574	

Comparative Enrollments by Grade Level Organization



Beaumont ES Enrollment by Year

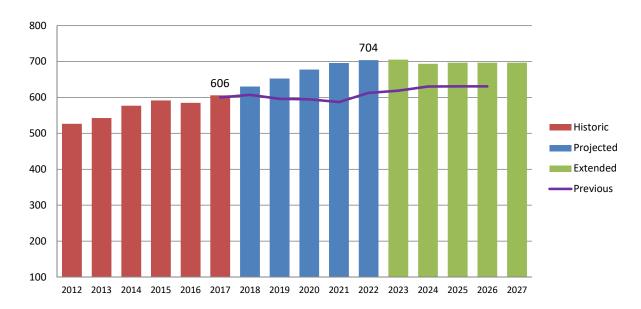


Beaumont Elementary School

17 students from new housing yields 8 students at this elementary school

		K	1	2	3	4	TOTAL Average Change	•
Historic	2012	66	84	81	96	99	426	•
	2013	63	92	81	77	105	418	
	2014	54	72	98	85	79	388	
	2015	59	76	79	96	91	401 405	
	2016	57	79	88	82	98	404	
	2017	60	65	85	94	88	392 - <mark>3</mark> 4	-8.0%
Projected	2018	62	76	71	88	101	399	•
	2019	67	77	81	72	93	391	
	2020	61	83	83	83	76	386 395	
	2021	62	76	89	85	87	399	
	2022	62	77	81	91	89	401 9	2.3%
Extended	2023	62	77	83	83	96	401	•
	2024	62	77	83	84	87	394	
	2025	62	77	83	84	89	396 397	
	2026	62	77	83	84	89	396	
	2027	62	77	83	84	89	396 -5	-1.2%

Devon ES Enrollment by Year

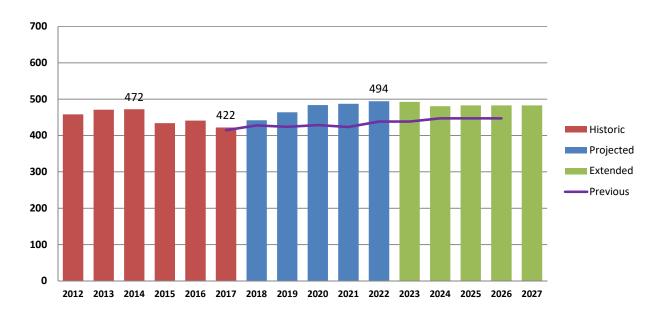


Devon Elementary School

12 students from new housing yields 5 students at this elementary school

		K	1	2	3	4	TOTAL Average Change	
Historic	2012	75	139	100	117	96	527	
	2013	87	98	143	99	116	543	
	2014	102	110	109	154	102	577	
	2015	90	133	112	110	147	592 572	
	2016	103	123	135	120	104	585	
	2017	104	123	120	138	121	606 79	15.0%
Projected	2018	109	134	127	124	136	631	
	2019	119	140	138	132	123	653	
	2020	108	153	144	143	130	678 672	
	2021	110	139	157	149	141	696	
	2022	110	141	143	163	147	704 98	15.6%
Extended	2023	110	141	146	148	160	705	
	2024	110	141	146	151	145	694	
	2025	110	141	146	151	149	697 698	
	2026	110	141	146	151	149	697	
	2027	110	141	146	151	149	697 -7	-1.0%

Hillside ES Enrollment by Year

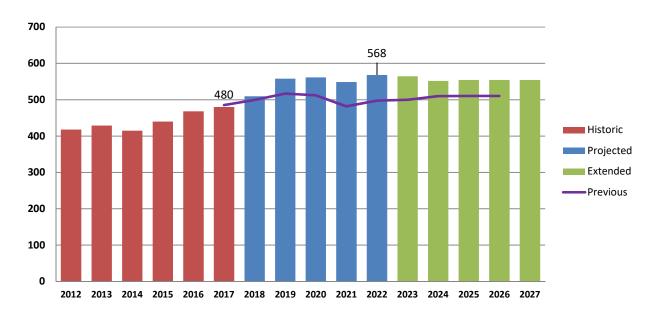


Hillside Elementary School

46 students from new housing yields 21 students at this elementary school

		K	1	2	3	4	TOTAL Average Change	
Historic	2012	81	95	108	86	88	458	
	2013	72	103	101	108	87	471	
	2014	86	78	101	99	108	472	
	2015	59	96	73	102	104	434 450	
	2016	76	78	98	81	108	441	
	2017	71	91	78	99	83	422 - <mark>36</mark>	-7.9%
Projected	2018	78	90	91	80	102	442	
	2019	87	100	92	96	85	464	
	2020	77	110	101	95	99	484 474	
	2021	79	97	110	103	98	487	
	2022	79	99	97	113	106	494 72	16.3%
Extended	2023	79	99	99	99	116	492	
	2024	79	99	99	101	102	481	
	2025	79	99	99	101	104	483 484	
	2026	79	99	99	101	104	483	
	2027	79	99	99	101	104	483 -11	-2.3%

New Eagle ES Enrollment by Year

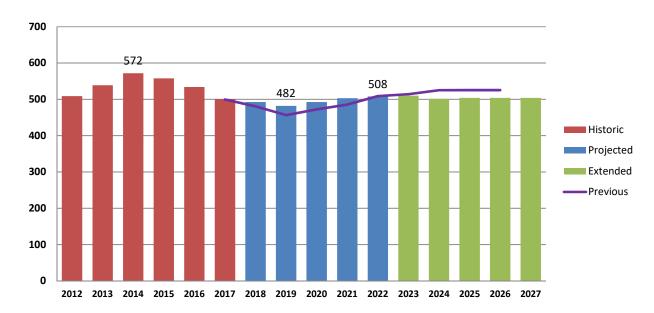


New Eagle Elementary School

59 students from new housing yields 23 students at this elementary school

		K	1	2	3	4	TOTAL Average Chang	е
Historic	2012	62	91	84	86	95	418	_
	2013	64	92	98	89	86	429	
	2014	56	80	92	99	88	415	
	2015	83	77	85	94	101	440 442	
	2016	94	97	88	94	95	468	
	2017	72	115	107	90	96	480	62 14.8%
Projected	2018	90	88	126	114	93	510	
	2019	99	110	97	134	117	558	
	2020	88	118	119	102	135	562 549	
	2021	90	105	128	124	103	549	
	2022	90	107	113	133	125	568	<mark>88</mark> 17.3%
Extended	2023	90	107	115	118	134	565	
	2024	90	107	115	121	119	552	
	2025	90	107	115	121	122	554 556	
	2026	90	107	115	121	122	554	
	2027	90	107	115	121	122	554 -	14 -2.4%

Valley Forge ES Enrollment by Year



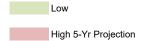
Valley Forge Elementary School

0 students from new housing yields 0 students at this elementary school

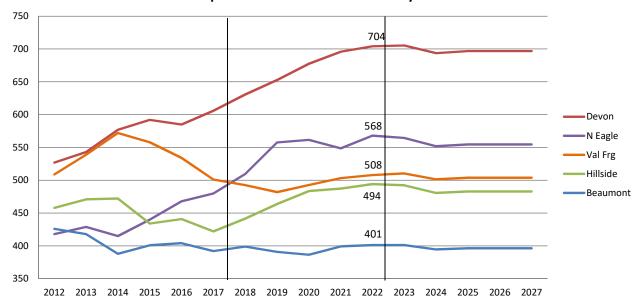
		K	1	2	3	4	TOTAL Average Change	
Historic	2012	83	115	93	115	103	509	
	2013	80	115	117	105	122	539	
	2014	95	112	119	128	118	572	
	2015	65	114	113	127	139	558 536	
	2016	69	85	116	123	141	534	
	2017	73	89	91	123	125	501 -8	-1.6%
Projected	2018	74	95	92	99	133	493	
	2019	81	96	98	100	107	482	
	2020	74	106	99	106	108	493 496	
	2021	76	96	109	108	115	503	
	2022	76	98	99	118	117	508 7	1.4%
Extended	2023	76	98	101	108	128	510	
	2024	76	98	101	110	116	501	
	2025	76	98	101	110	119	504 505	
	2026	76	98	101	110	119	504	
	2027	76	98	101	110	119	504 -4	-0.8%

Comparative Elementary Schools

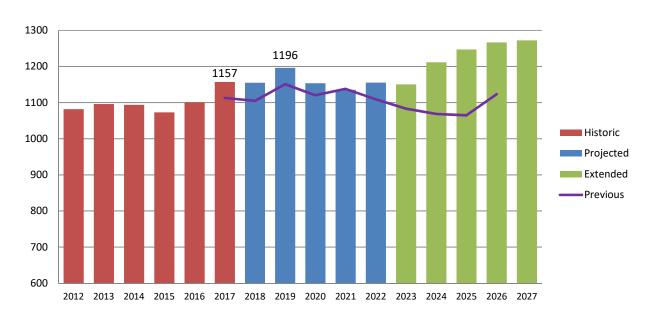
					New	Valley
		Beaumor D	Devon	Hillside	Eagle	Forge
Historic	2012	426	527	458	418	509
	2013	418	543	471	429	539
	2014	388	577	472	415	572
	2015	401	592	434	440	558
	2016	404	585	441	468	534
	2017	392	606	422	480	501
Projected	2018	399	631	442	510	493
	2019	391	653	464	558	482
	2020	386	678	484	562	493
	2021	399	696	487	549	503
	2022	401	704	494	568	508
Extended	2023	401	705	492	565	510
	2024	394	694	481	552	501
	2025	396	697	483	554	504
	2026	396	697	483	554	504
	2027	396	697	483	554	504



Comparative Enrollments: Elementary Schools



Tredyffrin-Easttown MS Enrollment by Year



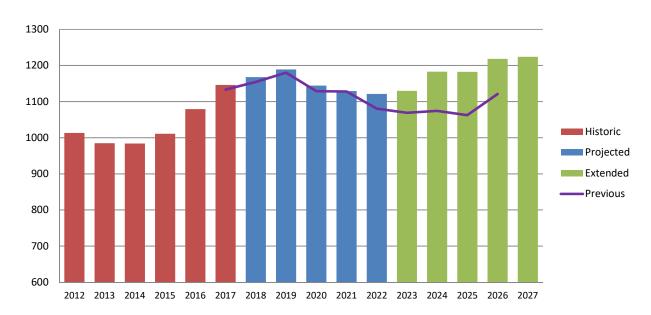
Tredyffrin-Easttown Middle School

51 Students from new housing, yields

16	Students at thi	is Middle	School
8	TOTAL	Average	Change
237	1,082	2	

		5	6	7	8	TOTAL Average Change
Historic	2012	289	275	281	237	1,082
	2013	250	294	270	282	1,096
	2014	271	263	292	268	1,094
	2015	249	268	262	294	1,073 1,101
	2016	302	259	276	264	1,101
	2017	279	316	275	287	1,157 75 6.9%
Projected	2018	264	289	322	280	1,155
	2019	302	273	294	327	1,196
	2020	267	311	277	298	1,153 1,159
	2021	265	275	315	280	1,135
	2022	286	273	278	318	1,156 -1 -0.1%
Extended	2023	299	294	276	281	1,151
	2024	327	308	298	279	1,212
	2025	298	337	311	301	1,247 1,230
	2026	304	307	341	315	1,266
	2027	304	313	311	344	1.272 117 10.2%

Valley Forge MS Enrollment by Year



Valley Forge Middle School

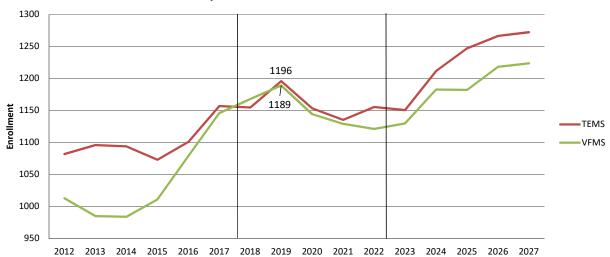
53 Students from new housing, yield

	,							٠, ١	
					12	Students at thi	s Middle	School	
		5	6	7	8	TOTAL	Average	Change	
Historic	2012	243	248	255	267	1,013			
	2013	231	243	252	259	985			
	2014	252	237	244	251	984			
	2015	257	257	249	248	1,011	1,036		
	2016	298	261	264	256	1,079			
	2017	296	309	273	268	1,146		133	13.1%
Projected	2018	265	304	320	279	1,168			
	2019	277	272	314	326	1,189			
	2020	262	283	280	319	1,144	1,150		
	2021	287	267	291	284	1,129			
	2022	259	292	274	296	1,121		-25	-2.1%
Extended	2023	287	264	301	278	1,130			
	2024	314	292	271	305	1,183			
	2025	286	320	301	275	1,182	1,187		
	2026	292	292	329	305	1,218			
	2027	292	298	300	334	1,224		103	9.1%

Comparative Middle Schools

		TEMS	VFMS		
Historic	2012	1082	1013		
	2013	1096	985		
	2014	1094	984		
	2015	1073	1011		
	2016	1101	1079		
	2017	1157	1146		
Projected	2018	1155	1168		Low
	2019	1196	1189		
	2020	1153	1144		High 5-Yr Projec
	2021	1135	1129		
	2022	1156	1121		
Extended	2023	1151	1130		
	2024	1212	1183		
	2025	1247	1182		
	2026	1266	1218		
	2027	1272	1224		

Comparative Enrollments: Middle School



Standard Cohort-Survival Enrollment Projection Worksheet

	Otaliaala Golloit Galviv	ui Einominenti roj	podion Workshoe	·•														
DISTRICT NAME:	Tredyffrin-Easttown Sc	hool District																
COUNTY:	Chester																	
DATA ISSUES:	Enrollments are from the Oc	ct 1 reports.																
"s" = survival rate				1			11		,		11							
Births		2nd 3rd Gr. Gr.	4th 5ti Gr. Gi		K-5 PK	PK PK PK-		7th Gr.	8th 6-8		9th Gr.	10th 11th Gr. Gr.	12th	9–12	9-12 T-4-1		K-12 K-12	
School 5 Sch Yrs. Year Ago "s"	K Gr. "s" "s"	"s" "s		r. Subt. EU	G Total SCSE (excl. PK)	3 yrs. 4yrs. Tot		"s" "s"	Gr. Subt	t. MUG Total	"s" "s"	Gr. Gr.	Gr. "s"	Subt. SUG	Total	1	ubt. Total SCSE w/ SCSE	Total
					, ,						J L							
2012-13 346 1.061	367 524	466 500	481 53	2 2870 0	2870 0	0 0 287	0 523	536	504 1563	0 1563	523	501 515	521	2060 0	2060	0 6	493 6493	6493
2012-10 040 1.001	1.362 1.031	1.026 1.0		2010	2010	20.		0.998 1.009		- 1000	0.994 1.008	1.018	1.014	2000	2000		450 0450	0400
2013-14 384 0.953	366 500 1.235 1.038	1.046 1.0	516 48 136 1.014	1 2881 0	2881 0	0 0 288		522 0.998 0.994	541 1600	0 1600	501 0.982 1.010	527 510 0.962	522 0.994	2060 0	2060	0 6	541 6541	6541
2014-15 348 1.129	393 452	519 565	495 52	3 2947 0	2947 0	0 0 294	7 500	536	519 1555	0 1555	531	506 507	507	2051 0	2051	0 6	553 6553	6553
2015-16 328 1.085	1.262 1.022 356 496	1.019 1.0 462 529	582 1.022 50	6 2931 0	2931 0	0 0 293		1.022 1.011 511	542 1578	0 1578	0.985 1.036 511	0.988 550 500	0.996 505	2066 0	2066	0 6	575 6575	6575
2016-17 289 1.381	1.298 1.058 399 462	1.082 1.0 525 500	1.031 546 60	0 3032 0	3032 0	0 0 303		1.029 1.018 540	520 1580	0 1580	1.039 1.023 563	1.007 523 554	1.002	2141 0	2141	0 6	753 6753	6753
	1.211 1.041	1.036 1.0	1.053				1.042	1.054 1.028			1.062 1.012	1.011	1.000					
2017-18 343 1.108 6 Yr Avg SR 1.119	380 483 1.274 Std	481 544	513 57	5 2976 0 % Pop	2976 0	0 0 297	6 625	548	555 1728	0 1728	552	570 529	554	2205 0 % Pop	2205	0 6	909 6909	6909
2 Yr Avg SR 1.244	2 Yr 1.254 5 Yr> 1.038	1.042 1.0	31 1.024	5 Yr 0.00	0%	0%	_	1.020 1.012		0.00%	1.012 1.018	0.997	1.001	5 Yr 0.00%				440
Change # Students Change % Students				106 4%	106 4%	100 4%			165 11%					145 7%	145 7%			416 6%
5-YR PROJECTIONS																		
2018-19 329 1.244		501 501	561 52	5 2975 0	2975 0	0 0 297		638	555 1781	0 1781	562	562 569	530	2222 0	2222	0 6	978 6978	6978
2019-20 360 1.244	1.254 1.038 448 513	1.042 1.0 495 522	1.024 517 57	4 3070 0	3070 0	0 0 307		1.020 1.012 601	645 1784	1 0 1784	1.012 1.018 561	0.997 572 560	1.001 569	2263 0	2263	0 7	116 7116	7116
2020-21 328 1.244	1.254 1.038 408 562	1.042 1.0 533 515	1.024 539 52	9 3086 0	3086 0	0 0 308		1.020 1.012 549	608 1745	5 0 1745	1.012 1.018 653	0.997 571 570	1.001 561	2356 0	2356	0 7	187 7187	7187
4 Yr Avg	1.254 1.038	1.042 1.0	1.024				1.024	1.020 1.012			1.012 1.018	0.997	1.001					
2021-22 335 1.244	417 512 1.254 1.038	583 555 1.042 1.0	532 55 31 1.024	2 3150 0	3150 0	0 0 315		600 1.020 1.012	556 1698	0 1698	615 1.012 1.018	665 570 0.997	571 1.001	2421 0	2421	0 7	7269	7269
2022-23 335 1.244	417 523	531 608	573 54	4 3195 0	3195 0	0 0 319	5 565	553	607 1726	0 1726	562	626 663	570	2422 0	2422	0 7	343 7343	7343
Change # Students				219	219	219			-2	-2				217	217			434
Change % Students				7%	7%	7%			0%					10%	10%			6.3%
	KEY to Number Colors		4b d - l				The above in	formation is prepa	red and certific	ed by a qualified de	emographer.							
		r with no modifications to uncertified births from the	• • • • • • • • • • • • • • • • • • • •	alth			Firm Name:	Sundance A	ssociates 117	Greenvale Ct. Che	erry Hill NJ 08034							
		as an average of the pric			d projected students	resulting					,							
		"less accurate" average					Name:	George B. S	Sundell Tel 856	3-755-0174 Email: (GSundell@sundanceasso	c.com	ŠL	INDANCE	_			
	99 Students per Gra	ade Level added for resid	dential development				Signature:	Seo	42 B S	Suble	Date: N	ovember 1, 2017		~~~				
								7)	<u> </u>			•						
C 40 VP PPO ITOTIONS	NOT CONCIDENCE DELIVER										1	0.007	4.004					
6-10 YR PROJECTIONS 2023-24 335 1.244	NOT CONSIDERED RELIABLE 417 523	543 554	627 58	6 3249 0	3249 0	0 0 324	9 558	576	560 1694	1 0 1694	615	572 625	664	2476 0	2476	0 7	418 7418	7418
4 Yr Avg	1.254 1.038	1.042 1.0		02.0				1.020 1.012			1.012 1.018		1.001					
2024-25 335 1.244		543 565	571 64	2 3260 0	3260 0	0 0 326		569	583 1753	0 1753	566	626 571	626	2389 0	2389	0 7	401 7401	7401
2025-26 335 1.244	1.254 1.038 417 523	1.042 1.0 543 565	1.024 583 58	5 3215 0	3215 0	0 0 321		1.020 1.012 613	576 1846	0 1846	1.012 1.018 590	0.997 577 624	1.001 571	2363 0	2363	0 7	423 7423	7423
	1.254 1.038	1.042 1.0	1.024				1.024	1.020 1.012			1.012 1.018	0.997	1.001					
2026-27 335 1.244	417 523 1.254 1.038	543 565 1.042 1.0	583 59	7 3228 0	3228 0	0 0 322		670 1.020 1.012	620 1889	0 1889	583 1.012 1.018	601 575 0.997	625 1.001	2383 0	2383	0 7	500 7500	7500
2027-28 335 1.244		543 565	583 59	7 3228 0	3228 0	0 0 322		611	679 1901	0 1901	628	593 599	576	2396 0	2396	0 7	524 7524	7524
Change # Students				32	32	32			175		<u> </u>			-27	-27			181
Change % Students				1%	1%	1%			9%	9%				-1%	-1%			2%

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

DISTRICT NAME:	Tredyffrin-Easttown School	I District																												
COUNTY:	Chester																													
ALL REPORT AND	Enrollments are from the Oo	t 1 reports.																												
Births 5 Yrs. Ago "s"		2nd 3rd Gr. Gr.	4th Gr. "s"				K-5 Total (excl. PK	J	PK 3 yrs.	PK 4yrs.	PK-5 Total	6th Gr. "s"		7th Gr. "s"	8th Gr.	6-8 Subt.	SCSE	6-8 Total	9th Gr. "s"	10 6 "s"	Oth ir. "s"	11th Gr. "s"	12th Gr.	9–12 Subt.	SCSE	9-12 Total	PK Subt.	K-12 Subt. excl. SCSE v	Total To	K-12 otal
OJECTIONS PLUS NEV	W HOUSING																													Nev
d 329 1.244		4 4 505 505	4 565				2998	0	0	0	2998	4 593		4	4 558	12 1793	0	1793	4 566		4 66	4 572	4 534	16 2237	0	2237	0	7028	7028 70	028
360 1.244	1.254 1.038 4 4 452 522	1.042 4 4 503 531	1.031 4 525	1.024 4 5 58			3116	0	0	0	3116	1.024 4 546	1.020	1.012 4 609	4 653	12 1809	0	1809	1.012 4 569	1.018	0.997 4 80	1.00 4 568	01 4 577	17 2295	0	2295	0	7219	7219 72	219
328 1.244	1.254 1.038 1 1 409 568	1.042 1 1 543 525	1.031 1 548	1.024 1 5 53	1		3130				3130	1.024 1 597	1.020	1.012	1 617	2 1772		1772	1.012	1.018	0.997 1 80	1.00 1 579	01 1 570	2 2391		2391	•	7292	7292 72	11
328 1.244	1.254 1.038 0 0	1.042 0 0	1.031	1.024			3130	0	0	0	3130	1.024	1.020	1.012	0	0	0	1//2	1.012 0	1.018	0.997	1.00		0	0	2391	0	7292	1292 12	292
335 1.244	417 513 1.254 1.038	1.042	1.031 0	1.024 0			3186	0	0	0	3186	551 1.024	1.020	1.012	565	1725 0	0	1725	1.012	1.018	0.997	579 1.00	580 01	2456	0	2456	0	7367	7367 73	367
335 1.244		532 614	583			3 0	3223	0	0	0	3223	575		562	617	1754 26	0	1754	571		36	672	579	2458 35	0	2458	0	7434	7434 74	434
Students Students					247 8%		247 8%				247 8%					26 1%		26 1%						253 11%		253 11%				525 3%
PROJECTIONS PLUS	NEW HOUSING NOT CONSIDERED	RELIABLE																												Nev Cu
0 335 1.244	0 0 417 523	0 0 543 554	0 633				3267	0	0	0	3267	0 567		0	0 569	1723	0	1723	0 624	5	0 82	0 634	0 673	2512	0	2512	0	7502	7502 7	502
0 335 1.244	1.254 1.038 0 0 417 523	1.042 0 0 543 565	1.031 0 572	1.024 0 ! 64			3267	0	0	0	3267	1.024 0 612	1.020	1.012 0 579	0 593	0 1784	0	1784	1.012 0 576	1.018	0.997 0 35	1.00 0 580	0 635	0 2426	0	2426	0	7477	7477 74	477
335 1.244	1.254 1.038 0 0 417 523	1.042 0 0 543 565	1.031 0 583	1.024 0 5 58			3216	0	0	0	3216	1.024 0 664	1.020	1.012 0 624	0 586	0 1874	0	1874	1.012 0 600	1.018	0.997 0 86	1.00 0 634	0 581	0 2401	0	2401	0	7491	7491 74	491
0	1.254 1.038 0 0	1.042 0 0	1.031	1.024	0							1.024	1.020	1.012 0	0	0			1.012	1.018	0.997	1.00	0	0						
335 1.244 0	1.254 1.038 0 0	1.042 0 0	583 1.031 0	1.024 0		8 0	3228	0	0	0	3228	1.024	1.020	1.012 0	0	1909	0	1909	593 1.012 0	1.018	0.997 0	1.00 0	634 01	2423	0	2423	0	7559	7559 7	559
335 1.244	417 523	543 565	583	59			3228	0	0	0	3228	612	•	612	686	1909	0	1909	639	6	03	609	585	2438	0	2438	0	7574		574
Students Students					112 0%		5 0%				5 0%					155 9%		155 9%						-20 -1%		-20 -1%				140 2%
	KEY to Number Colors 99 Standard number 99 Provisional, but		n the NJ Depa	artment of He				students	resulting			The abov	e information						nographer. ry Hill NJ 08	034										
																								1						

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 366 students in 1st Grade in year 2013-14 following a 346 student Kindergarten in year 2012-13. This yields a Kindergarten to First Grade **Survival Ratio** of 1.061 (or 366 ÷ 346). Another expression of the Survival Ratio would be that 106% 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 1.038 is the 5-year average 1st Grade to 2nd Grade ratio.

The sample projections use the current school year 2017-18 enrollments, at the bottom of the Historic chart, as a base year. The Averaged 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.

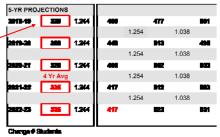
In the side-bar example 329 Kindergarten students in 2018-19 survive at a rate of 1.244 as a 2019-20 First Grade of 409 students. This similar projection is made across all grade levels for a 5-year period. Finally, the individual grade level enrollment projections are summed across each year to determine district-wide enrollments in that year.

Enrollment projections have been made using the Cohort Survival method with modifications as described on the following page...

Historic Data

	eru=				101		2nd
Sebosi	Sốch Ym	· İ	K		Gr.		Ør.
Year	Ago			1		**	
2012-13	348	*108 1	267		824		486
			1	1362		1.031	
2019-14	384	0.0003	366		104		540
				1235		1038	
2016-16	849	198	303		452		510
				1.262		1022	
20%-6	328	1085	366		486		462
		J		1.298		1.058	
2019-17	289	1361	385		4 8 2		828
				1.211		1.041	
20 T-1	343	1108	300		483		441
6 Yr Avg	SR	1.119		1.274	Std		
2 Yr Avg	SR	1.244	2 Yr	1.254	5 Yr>	1.038	

Projected Enrollments



Cohort Survival Methodology

Adjustments to Standard Methods

Since the study also provides school level projections, it is important to define the feeder system from elementary school to middle school and middle school to high school.

That feeder system includes students from Hillside Elementary School split 58.6% to Tredyffrin-Easttown Middle School and 41.3% to Valley Forge Middle School.

This is not as much an adjustment to method as it is to distribution.

Elementary	Middle	Sr High
Beaumount 100%		
Devon 100%	Tred East MS	_
Hillside 58.7% Hillside 41.3%	100%	Conestoga
Valley Forge 100%	Valley Forge	High School
New Eagle 100%	100%	

Hillside 4th Grade ES to									
	TE %	VF %							
2011	0.568	0.431							
2012	0.568	0.431							
2013	0.629	0.371							
2014	0.590	0.409							
2015	0.578	0.422							
2016	0.586	0.413							
Avg	0.587	0.413							

The Hillside Elementary School enrollment split to middle schools was addressed in the school level projections.

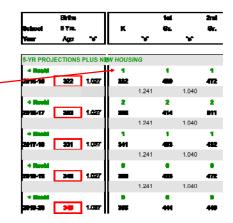
No adjustments were made for impact of private/parochial school closures, changes in Charter enrollment or changes in Out-of-District placement which are anticipated to continue within existing trends.

Adjustments were made to the standard Cohort Survival projection method for the impact of the new Multi-family housing. This is accomplished as an overlay to the standard projection.

In each year, the number of students from new housing is distributed equally across all grades and added to the standard projection (cohort) for the grade. In the subsequent years it is "survived" at the standard rates for that cohort.

Adjustments were made to the **Birth to Kindergarten Survival Ratio**. The Survival Ratio of the last two years only at 1.244 is used. The standard 6-year Survival Ratio of a lower 1.119 is not used. Similiary, a two-year S/R was used for K:1st Grade of 1.254, slightly lower than the 6-year S?R of 1.274

Finally, the 4-year average of 355 **Births** was used rather than the lower 6-year average. This is for Births in the Extended Projection period and effect Elementary grade counts in the final 5 years.



Adjustments were made for the impact of students from new housing...and for the Birth to Kindergarten Survival Ratio.

Grade Level Cohort Survival Ratios

TEDS October 2017 Enrollment Projection

