February 2024

SLAM

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- Enrollment Trends & Analysis

- Enrollment Drivers- Housing Multiplier Update

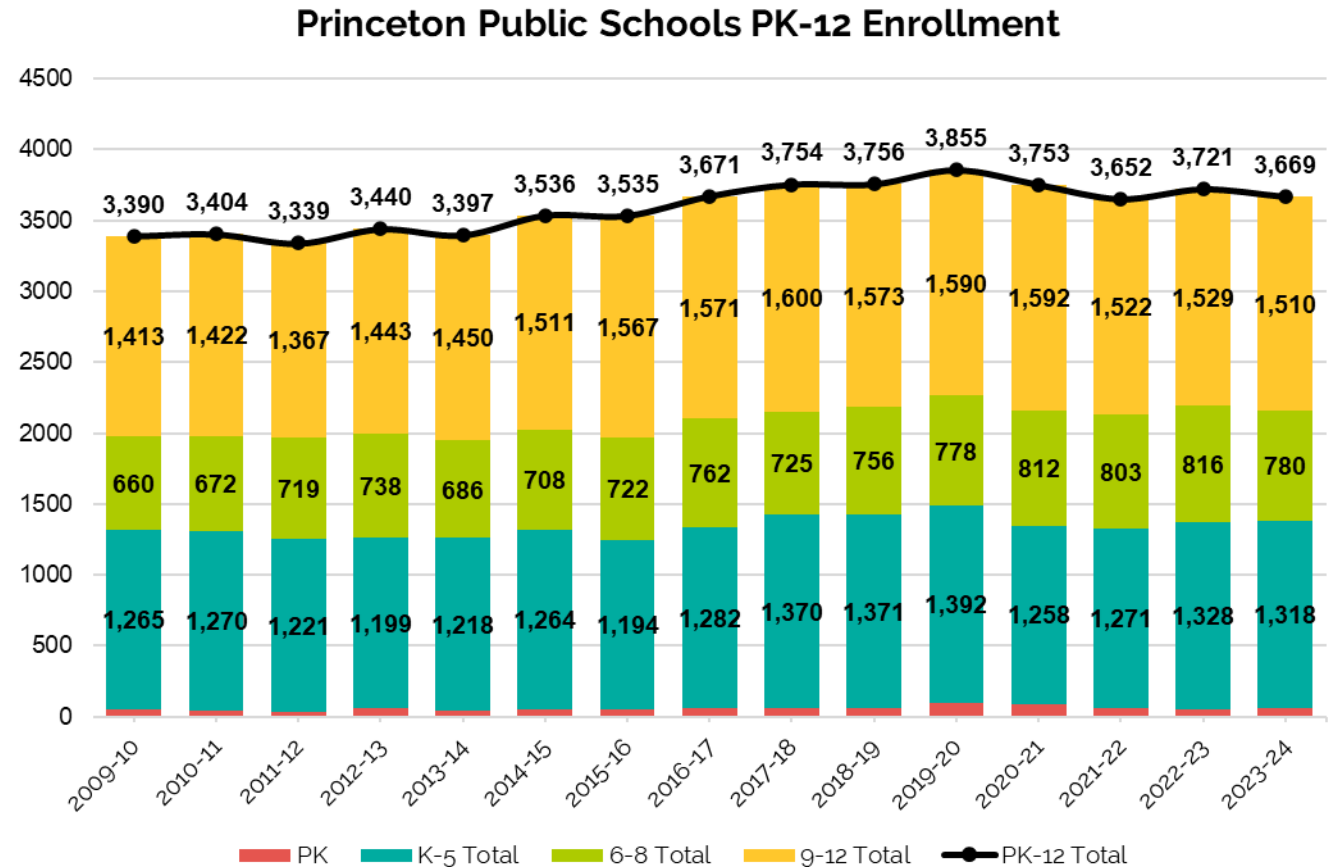- Districtwide Enrollment Projections

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Enrollment Projection Comparison

Comparison	K	1	2	3	4	5	6	7	8	9	10	11	12	K-5	6-8	9-12	K-12
2023-24 Projected	187	219	221	224	228	255	280	272	276	437	405	402	356	**1,334**	**828**	**1,600**	**3,762**
2023-24 Actual	186	197	213	228	241	253	272	247	261	384	389	392	345	**1,318**	**780**	**1,510**	**3,608**
Difference	**-1**	**-22**	**-8**	**4**	**13**	**-2**	**-8**	**-25**	**-15**	**-53**	**-16**	**-10**	**-11**	**-16**	**-48**	**-90**	**-154**
% Difference	**-0.5%**	**-10.0%**	**-3.6%**	**1.8%**	**5.7%**	**-0.8%**	**-2.9%**	**-9.2%**	**-5.4%**	**-12.1%**	**-4.0%**	**-2.5%**	**-3.1%**	**-1.2%**	**-5.8%**	**-5.6%**	**-4.1%**

- Comparing projections from last year to the 2023-24 actual enrollment shows:
  - K-5 enrollment is in-line with actuals, with a deviation of -1.2%, with Kindergarten enrollment within 1 students. The greatest difference was in 1 grade where PPS typically sees enrollment growth. The matriculating K cohort remained the same size for 2023-24.
  - Middle school enrollment was ~50 students below projected, with the greatest deviation in 7th grade (-25 students). This cohort typically sees growth of about 3%, instead there was a loss of roughly 4%.
  - High school enrollment had the greatest difference from projections at -90 students. All matriculating cohorts broke from the historic patterns, most notably 9th grade, which was ~50 students below the projection. This is in part due to smaller cohort of Cranbury students at just 48 for 9th grade.

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Princeton Public Enrollment Trends

- Over the last ten years, total PK-12 enrollment has increased by 133 students or 3.9%

- Most recent enrollment peak of 3,855 students in 2019-20, followed by two years of declining enrollment.

- Enrollment still has yet to recover fully to pre-pandemic levels. Enrollment growth disrupted by pandemic, especially at the elementary level

- Over the last decade:
  - Elementary (K-5) enrollment has increased 4%
  - Middle School (6-8) enrollment has increased 11%
  - High School (9-12) enrollment is same as 2014-15 level

Princeton Public Schools PK-12 Enrollment

Year	PK-12 Total	9-12 Total	6-8 Total	K-5 Total
2009-10	3,390	1,413	660	1,265
2010-11	3,404	1,422	672	1,270
2011-12	3,339	1,367	719	1,221
2012-13	3,440	1,443	738	1,199
2013-14	3,397	1,450	686	1,218
2014-15	3,536	1,511	708	1,264
2015-16	3,535	1,567	722	1,194
2016-17	3,671	1,571	762	1,282
2017-18	3,754	1,600	725	1,370
2018-19	3,756	1,573	756	1,371
2019-20	3,855	1,590	778	1,392
2020-21	3,753	1,592	812	1,258
2021-22	3,652	1,522	803	1,271
2022-23	3,721	1,529	816	1,328
2023-24	3,669	1,510	780	1,318

Legend: PK, K-5 Total, 6-8 Total, 9-12 Total, PK-12 Total

Source: Princeton Public Schools

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School Year	Births (Y-5)	K	1	2	3	4	5	6	7	8	9	10	11	12	PK	K-12 Total	PK-12 Total	K-5 Total	6-8 Total	9-12 Total
2009-10	248	195	242	184	201	233	210	208	236	216	353	365	344	351	52	3,338	3,390	1,265	660	1,413
2010-11	228	197	205	248	165	217	238	221	213	238	354	366	358	344	40	3,364	3,404	1,270	672	1,422
2011-12	230	182	202	216	230	161	230	251	238	230	319	347	343	358	32	3,307	3,339	1,221	719	1,367
2012-13	251	191	184	198	209	240	177	231	265	242	375	368	353	347	60	3,380	3,440	1,199	738	1,443
2013-14	230	198	181	194	197	210	238	180	231	275	379	376	360	335	43	3,354	3,397	1,218	686	1,450
2014-15	241	208	211	212	197	199	237	247	208	253	404	379	375	353	53	3,483	3,536	1,264	708	1,511
2015-16	239	195	207	211	195	189	197	243	260	219	400	415	383	369	52	3,483	3,535	1,194	722	1,567
2016-17	180	215	220	223	207	222	195	224	257	281	358	411	421	381	56	3,615	3,671	1,282	762	1,571
2017-18	210	214	230	235	223	237	231	219	246	260	413	365	407	415	59	3,695	3,754	1,370	725	1,600
2018-19	174	198	230	231	223	242	247	261	231	264	387	428	349	409	56	3,700	3,756	1,371	756	1,573
2019-20	196	197	208	248	239	237	263	262	270	246	390	422	421	357	95	3,760	3,855	1,392	778	1,590
2020-21	200	148	193	201	236	237	243	270	259	283	349	388	418	437	91	3,662	3,753	1,258	812	1,592
2021-22	201	191	187	200	214	247	232	254	289	260	402	356	368	396	56	3,596	3,652	1,271	803	1,522
2022-23	191	197	206	219	208	243	255	256	263	297	391	409	353	376	48	3,673	3,721	1,328	816	1,529
2023-24	177	186	197	213	228	241	253	272	247	261	384	389	392	345	61	3,608	3,669	1,318	780	1,510

Source: Princeton Public Schools

- Current 12th grade cohort has been smaller throughout their matriculation, despite consistent in-migration.

- Larger cohorts that entered in 2016-17 and 2017-18 are now approximately the same size as the prior four cohorts.

- Small kindergarten cohort from 2020-21 has recovered (currently in 3rd grade) and is larger than historic cohort size.

- This year's 6th grade cohort is the largest in recent memory.

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Elementary (K-5) Enrollment Trends

School	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	5-Yr Δ	10-Yr Δ
Community Park	323	319	359	370	378	381	319	333	286	280	**-26.5%**	**-13.3%**
Johnson Park	329	318	334	363	339	326	312	338	388	366	**12.3%**	**11.2%**
Littlebrook	352	325	322	358	367	393	339	336	380	383	**-2.5%**	**8.8%**
Riverside	260	232	267	279	287	292	277	264	274	295	**1.0%**	**13.5%**

Source: PPS K-5 Enrollment

- All schools experienced a significant enrollment decrease between 2019-20 and 2020-21 school year due to pandemic.

- Johnson Park (12%), and to a lesser degree Riverside (1%), have seen its enrollment increase compared to pre-pandemic levels with a 19.0% increase since 2019-20

- Littlebrook is approaching pre-pandemic peak levels with over 380 students in each of last two years.

- Community Park has experienced the greatest decline over the last 5-years at over 26%.

- Elementary enrollment trends not necessarily reflective of demographic & enrollment trends within attendance zone.

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Princeton Public MS Enrollment Trends

- Middle school enrollment increased by ~150 students between 2009-10 and 2020-21.

- From 2020-21 through 2022-23, enrollment averaged ~810 students.

- Last year's large 8th grade cohort matriculated into the HS, resulting in an enrollment dip to 780 students.
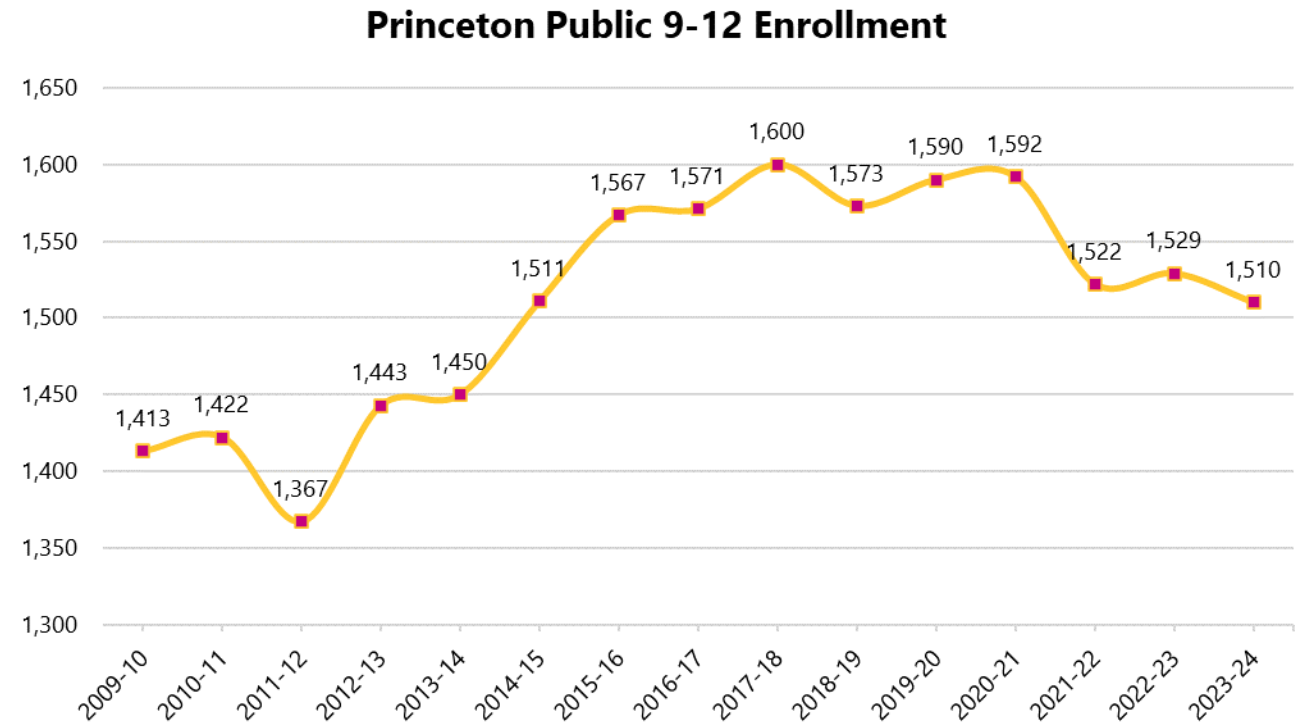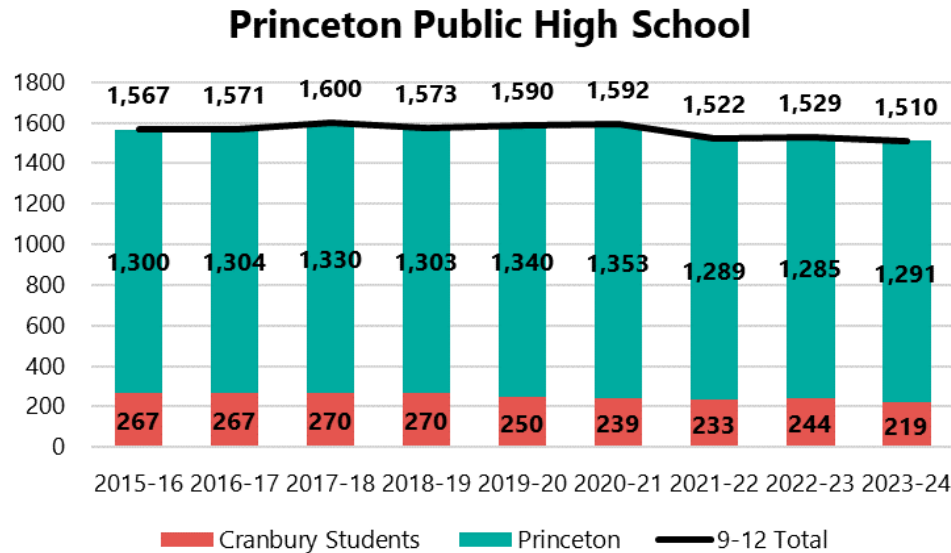

Princeton Public 6-8 Enrollment

Source: Princeton Public Schools

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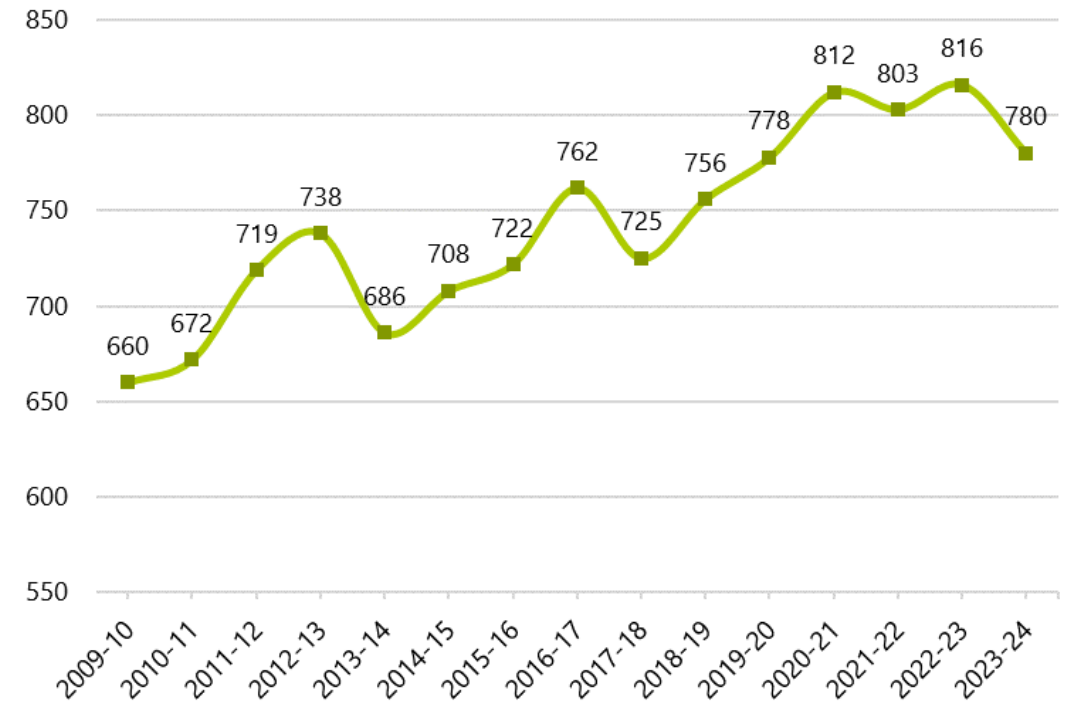
Princeton Public HS Enrollment Trends

- Recent peak in 2017-18 at 1,600 students, with enrollment averaging 1,590 students through 2020-21.

- Enrollment dipped the last three years, averaging just 1,520 students.

- For 2023-24, average cohort size of 378 students, compared to 398 students in 2020-21.

Princeton Public 9-12 Enrollment

Year	Enrollment
2009-10	1,413
2010-11	1,422
2011-12	1,367
2012-13	1,443
2013-14	1,450
2014-15	1,511
2015-16	1,567
2016-17	1,571
2017-18	1,600
2018-19	1,573
2019-20	1,590
2020-21	1,592
2021-22	1,522
2022-23	1,529
2023-24	1,510

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Cranbury Students at PHS

Princeton Public High School

School Year	Cranbury Students at PHS				Cranbury at PHS 9-12 Total
	9	10	11	12	
2023-24	48	65	53	53	219
2024-25	55	48	64	52	219
2025-26	72	55	48	63	238
2026-27	63	72	55	47	237
2027-28	49	63	71	54	237
2028-29	62	49	62	70	243
2029-30	60	62	49	61	232
2030-31	66	60	61	48	235
2031-32	48	66	59	60	233
2032-33	70	48	65	58	241
2033-34	61	70	48	64	243

- Send-receive agreement in place since 1988 has been extended through 2030

  - Termination requires approval of NJ Commissioner of Education

- High school enrollment from Cranbury relatively stable over the last five years

  - Large cohort that entered in 2015-16 and matriculated out in 2018-19

  - 14.5% of total high school enrollment this year – lowest total in recent history

- Projecting lower Cranbury enrollment at PHS over the next few years, compared to the recent historic average (~250 students).

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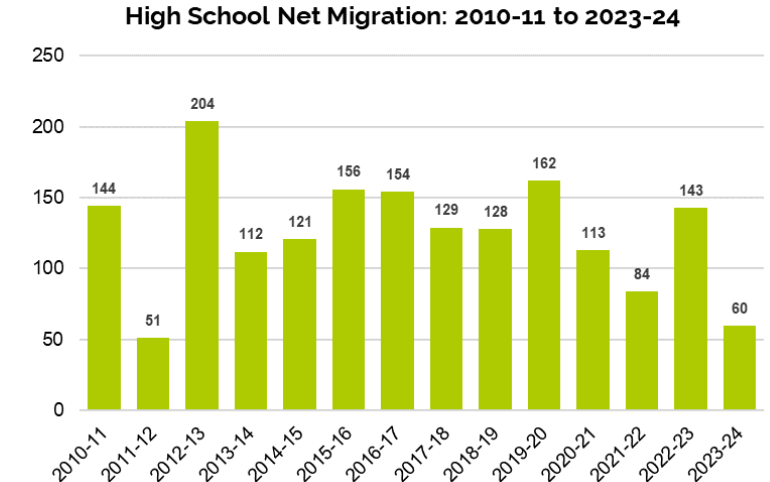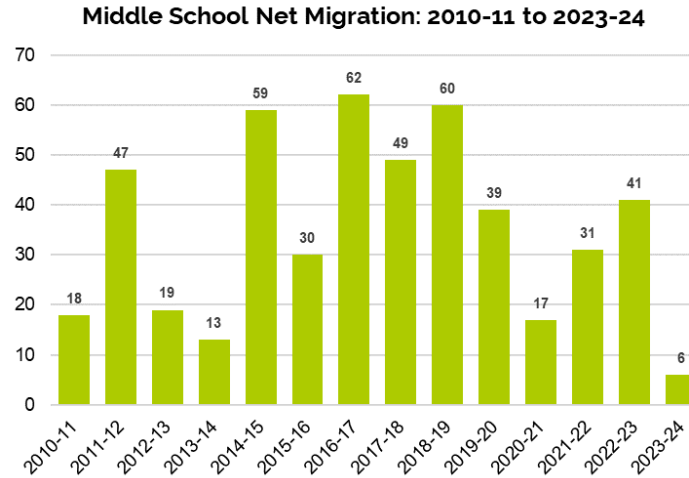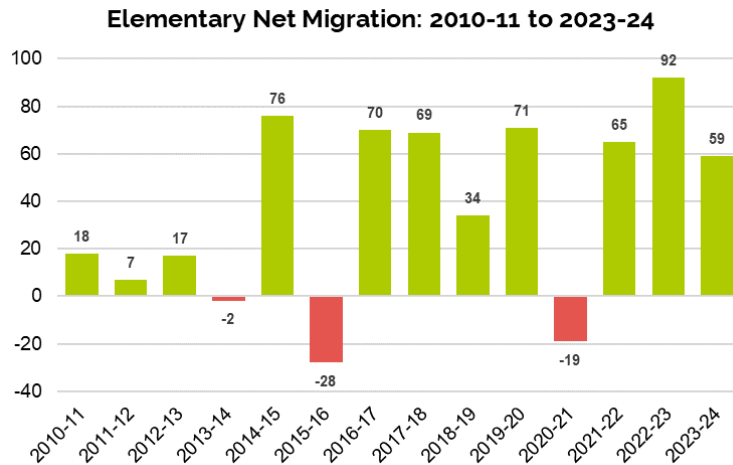
New to District Students

- Analysis comparing student IDs from one year to next – any ID not present in prior year considered new-to-district (NTD)
  - PK and K excluded

- Except for 2020-21 anomaly, very consistent number of new-to-district students since 2016-17, ranging from 460 to 520 annually.

- 2023-24 NTD students have dipped below recent historic average

- Over the last three years, the number of new-to-district high school students has increased slightly while the number of new-to-district elementary and middle school students has decreased.

PPS New-to-District Students: 2016-17 to 2023-24
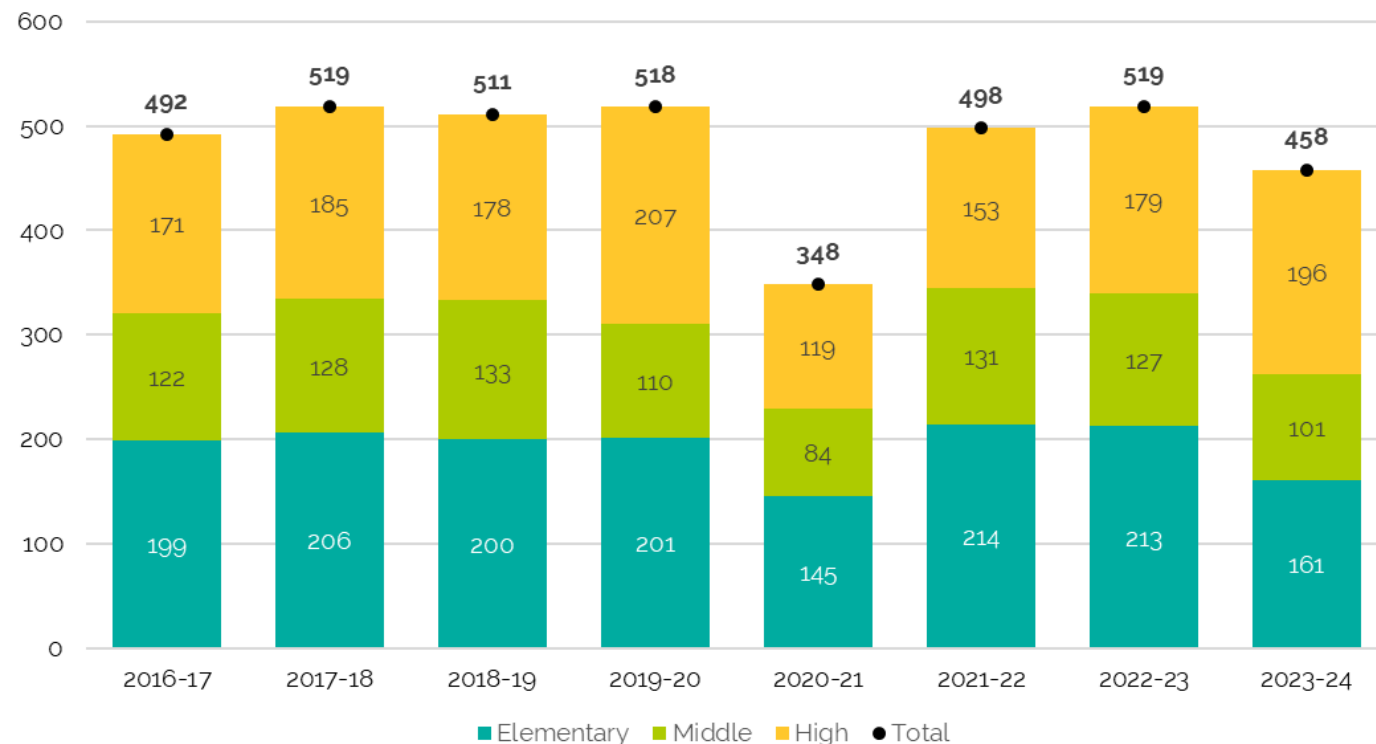
Grade Level	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	AVG
Elementary	199	206	200	201	145	214	213	161	192
Middle	122	128	133	110	84	131	127	101	117
High	171	185	178	207	119	153	179	196	174
Total	**492**	**519**	**511**	**518**	**348**	**498**	**519**	**458**	483

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Net Migration

Elementary Net Migration: 2010-11 to 2023-24

Middle School Net Migration: 2010-11 to 2023-24

High School Net Migration: 2010-11 to 2023-24

- Net migration accounts for both new-to-district students as well as student withdrawals.

- Over the last five years, the elementary grades have averaged net in-migration of ~54 students annually, which is above the historic average of ~38 students. Net in-migration for 2023-24 is 59 students, down from 92 from 2022-23.

- Over last five years, Princeton Middle School has averaged a net in-migration of ~27 students annually, however, 2023-24 saw net in-migration of just 6 students for the middle school.

- Princeton High School sees the highest level of net-in-migration, driven by entry of PCS and Cranbury students in 9th grade.

- Over the last five years, PHS has averaged a net in-migration of ~112 students, however, 2023-24 was well below historic levels at 60 students

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Housing Multiplier Update

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Housing Multipliers: Approach

- Historically, PPS has leveraged multipliers developed by Nassau Capital Advisors, based on data developed by ESI/CDA.

- As part of the land use application process, developers typically will use multipliers based on data provided by Rutgers University.

- Estimated number of public school-aged children (PSAC) varies significantly based on methodology.

  - Both Rutgers and Nassau/CDA rely on statewide or regional samples rather than local data.

- SLAM developed a local multiplier based on actual PPS enrollment and recently completed housing developments, which were then compared to both ESI/CDA and Rutgers approaches.

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Housing Multipliers: Baseline Growth

- Baseline enrollment projections account for a similar level of housing growth as was experienced over the last 6 years.

- According to permit data from the NJ Department of Community Affairs, Princeton has averaged 67 new housing permits annually over the last six years (44 multi-family and 23 1- & 2-family permits).

- NJDOE process only allows multipliers to be added to the projections model for developments that are <u>in excess of the baseline growth since the persistency ratios are influenced by these developments.</u>

- imminent new developments in excess of baseline growth need to be added to the enrollment projections model.

- Over 1,000 new housing units are in the pipeline expected to be completed over the next 5 years, well in excess of the baseline growth. Over the five year NJDOE projection horizon, the baseline projections assumes Princeton adds an <u>additional 220 multi-family units and 115 1 & 2 family units</u>.

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Pipeline Housing Projects

Development Name	Type	Total Units	Total Market Rate	Market Rate, by Bedroom				Total Affordable	Affordable, by Bedroom				
				Studio	1BR	2BR	3BR		Studio	1BR	2BR	3BR	4BR
900 Herrontown Road	Apartments	65	1	-	1	-	-	64	-	9	38	17	-
Avalon Princeton Circle - Thanet	Apartments	232	221	10	78	96	37	11	-	1	3	7	-
Thanet Road Senior Project	Apartments	80	0	-	-	-	-	80	-	69	11	-	-
Franklin-Maple	Apartments	160	80					80					
The Alice - 351 Terhune & Harrison	Apartments	150	125	-	62	57	6	25	-	5	15	5	-
Princeton Shopping Center - Avalon	Apartments	196	160	12	64	76	8	36	3	4	21	8	-
Princeton Community Village	Apartments	25	0	-	-	-	-	25	5	5	14	6	-
Supportive & Special Needs Group Homes	Apartments	16											
Nelson Spring	Apartments	6	5	-	1	2	2	1	-	-	1	-	-
21 Wiggins	Apartments	19	15	1	11	3	-	4	-	-	3	1	-
195 Nassau Street LLC	Apartments	45	34	-	10	24	-	9	-	1	6	2	-
Lanwin @ Ridge - Herrontown Rd	Single-Family	29	29	-	-	-	-	-	-	-	-	-	-
Landmark at Princeton Snowden Lane	Single-Family	7	7	-	-	-	-	-	-	-	-	-	-
375-377 Terhune - Toll Brothers	Apartments/Townhome	30	24	-	-	-	24	6	-	1	3	2	-
Total		**1060**	**701**					**341**					

Source: Princeton Planning Department, January 2024.

Notes:

Per Town Planner, the Griggs Corner/Witherspoon Project and 40-42 North Tulane projects are abandoned and are unlikely to move forward. These projects were removed from the housing pipeline list.

Inclusionary Overlays were not tied to a specific project. There are some active projects within the overlay zones. Therefore, the Inclusionary Overlay was removed from the housing pipeline list to prevent double counting and align with DOE requirements for multipliers.

23 Humbert project is replacing 3 units with the same number of units (no net gain), therefore was excluded from the housing pipeline list.

Single family and townhome developments are captured in the baseline projection model – multipliers for these projects were not added to the baseline model.

Excludes units produced as part of the Fourth Round Fair Share Housing agreement and other projects that have not begun the land-use approval process.

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SLAM Local Multiplier

PPS Enrollment at Recently Completed Multi-Family Projects: 2023

Development Name	K 12	K 5	6 8	9 12	Students per Unit	Students per BR
Avalon Princeton	69	24	16	29	0.246	0.156
Merwick-Stanworth	109	54	24	31	0.335	0.183
Copperwood	44	28	5	11	0.288	0.153
Total	**222**	**106**	**45**	**71**	**0.293**	**0.168**

Source: PPS 10/15/23 enrollment

- Local multipliers developed based on three recently completed multi-family developments using actual October 15, 2023 PPS enrollment.

- Developed multipliers using both "Students per Unit" and "Students per Bedroom (BR)" approaches.
  - Note that this methodology cannot distinguish between students in individual units.

- Recommend the Students per Bedroom approach, which better accounts for unit mix (assumes 1BR units will produce fewer students than 2BR units).

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Comparison to Other Methodologies

Actual and Projected PPS Enrollment at Recently Completed Multi-Family Projects: 2023

Development Name	Actual Enrollment	Estimated Public School-Aged Children		
		Rutgers Developer Survey	Rutgers (2018)	Nassau / CDA
Avalon Princeton	69	52	29	110
Merwick-Stanworth	109	62	37	138
Copperwood	44	14	10	60
Total	222	128	76	308

- Tested other methodologies to see how well they would have estimated the number of Princeton public school-aged children at recent Princeton multi-family housing developments.

- The Rutgers Developer Survey and Rutgers Multipliers (2018) would have underestimated the number of PPS students in recent developments.

- The Nassau/CDA multipliers would have overestimated the number of PPS students in recent developments.

- Rutgers and Nassau/CDA rely on either statewide or regional samples and may not reflect local conditions as well as a local multiplier.

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Updated Housing Multipliers

Princeton Housing Pipeline			Unit Type		Estimated PSAC - SLAM Local BR *				Est. Occupancy Start	Est. Occupancy End	Current ES Attendance Zone
Development Name	Type	Total	Market Rate	Affordable	K-12 Total	K-5 Total	6-8 Total	9-12 Total			
900 Herrontown Road	Apartments	65	1	64	**12**	6	2	4	2024	2025	LB
Avalon Princeton Circle - Thanet *	Apartments	221	210	11	**67**	33	13	21	In Progress		LB
Franklin-Maple	Apartments	160	80	80	**40**	20	8	12	2025	2026	CP
The Alice - 351 Terhune & Harrison	Apartments	150	125	25	**41**	20	8	13	2024	2025	LB
Princeton Shopping Center - Avalon	Apartments	196	160	36	**52**	25	10	17	2024	2025	LB
Princeton Community Village *	Apartments	30	0	30	**9**	5	1	3	In Progress		RS
Nelson Spring *	Apartments	6	5	1	**2**	1	0	1	In Progress		CP
21 Wiggins	Apartments	18	15	4	**4**	2	1	1	2025	2026	CP
195 Nassau Street LLC	Apartments	43	34	9	**13**	7	2	4	2024	2025	RS
Thanet Road Senior Project	Apartments	80	0	80	**0**	0	0	0	2023	2025	LB
Supportive & Special Needs Group Homes	Apartments	16	0	0	**0**	0	0	0	-	-	NA
Total		**985**	**630**	**340**	**240**	**119**	**45**	**76**			
* Existing Students at Developments in Progress					**20**	**10**	**4**	**6**			
Net Gain from New Housing					**220**	**109**	**41**	**70**			
Net Gain w/ 25% Discounting					**165**	**82**	**31**	**53**			

* Lease up is in progress at Avalon Princeton Circle, Princeton Community Village, and Nelson Spring. Existing students from these developmetns as of October 2023 were deducted from the student generation assumptions.

- **Based on SLAM Local – Per Bedroom estimates.**

- **Net new students from imminent housing developments only.**

- Three developments currently in lease up period (Avalon Princeton Circle, Princeton Community Village, and Nelson Spring). Existing students from these developments (currently 20 total) were deducted from the estimated PSAC. Additional students are anticipated as lease up period continues.

- Net gain of 220 students anticipated once all developments are completed.

- Discounting of 25% was applied to factor in baseline growth. 220 out of 985 multi-family units accounted for in baseline projections over the next five years. Students from remaining units were added to multipliers (75% of net gain)

- All planned/approved single-family and townhome developments are accounted for in baseline model.

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Multipliers Added to Projections

Housing Multipliers Added to Baseline Enrollment Projections Model

Year	K	1	2	3	4	5	6	7	8	9	10	11	12	K-12 Total	K-5 Total	6-8 Total	9-12 Total
2023-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2024-25	4	4	4	4	3	3	3	3	3	4	3	3	3	44	22	9	13
2025-26	7	7	7	7	7	7	5	5	5	7	7	7	7	85	42	15	28
2026-27	11	11	11	11	10	10	8	8	8	11	10	10	10	129	64	24	41
2027-28	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53
2028-29	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53
2029-30	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53
2030-31	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53
2031-32	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53
2032-33	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53
2033-34	14	14	14	14	13	13	10	10	10	14	13	13	13	165	82	30	53

<u>Assumptions:</u> Based on SLAM Local per Bedroom Multiplier for new multi-family housing development

Deducts existing students from developments whose lease-up is in progress

Deducts 25% of students from future multi-family housing (accounted for in baseline projection model)

Excludes students from planned/approved single-family and townhome devleopments (accounted for in baseline projection model)

- Note that the housing multipliers above do not include potential students generated from Fourth Round Fair Share Housing Agreement projects.

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Enrollment Projections Update

Projections Primer

- Based on CSM - standard method for enrollment projections
- Relies on **observed data from the recent past in order to predict the near future**
- Methodology works well for stable populations, including communities that are growing or declining at a steady rate
- Based on persistency/grade progression ratios as a grade matriculates
  - These rates account for the various external factors affecting enrollments, including housing characteristics, residential development, economic conditions and corporate movement, student transfers in and out of the system, and student mobility
  - NJ standard is to use six-year average of persistency ratios
- Changes in population, housing stock and tenure, and economic conditions help explain persistency ratios
- Changes in programming (e.g. dual language immersion program expansion) affect persistency ratios of individual schools
- **Students generated from imminent future housing development were added to the baseline projections for all three models.**
- **This projection update is limited to districtwide by grade projections. With the upcoming referendum inclusive of space additions at CP and LB, there will be changes to attendance zones through a redistricting process.**

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Model Assumptions

These projections are predicated on the following assumptions:

- Pre-K enrollment 61 students annually over the next decade

- Housing, student generation, and future birth assumptions at the districtwide level will prove accurate

- Local Princeton Specific Housing Multipliers were developed by SLAM. Multipliers have been applied to all projection models for imminent residential developments that are in excess of baseline growth.

- Does not include students generated from Fourth Round Fair Share Housing Agreement.

- **High projections**: Assumes increase in births (avg. 189 annually), student in-migration averages 5.6%, which is above the historic average (4.9%)

- **Medium projections**: Assumes stable births (avg. 169 annually), student in-migration averages 5.2%, which is slightly above the historic average.

- **Low projections**: Assumes decrease in births (avg. 158 annually), student in-migration averages 4.6%, which is lower than historic average.

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Persistency Ratios and Estimates of Migration

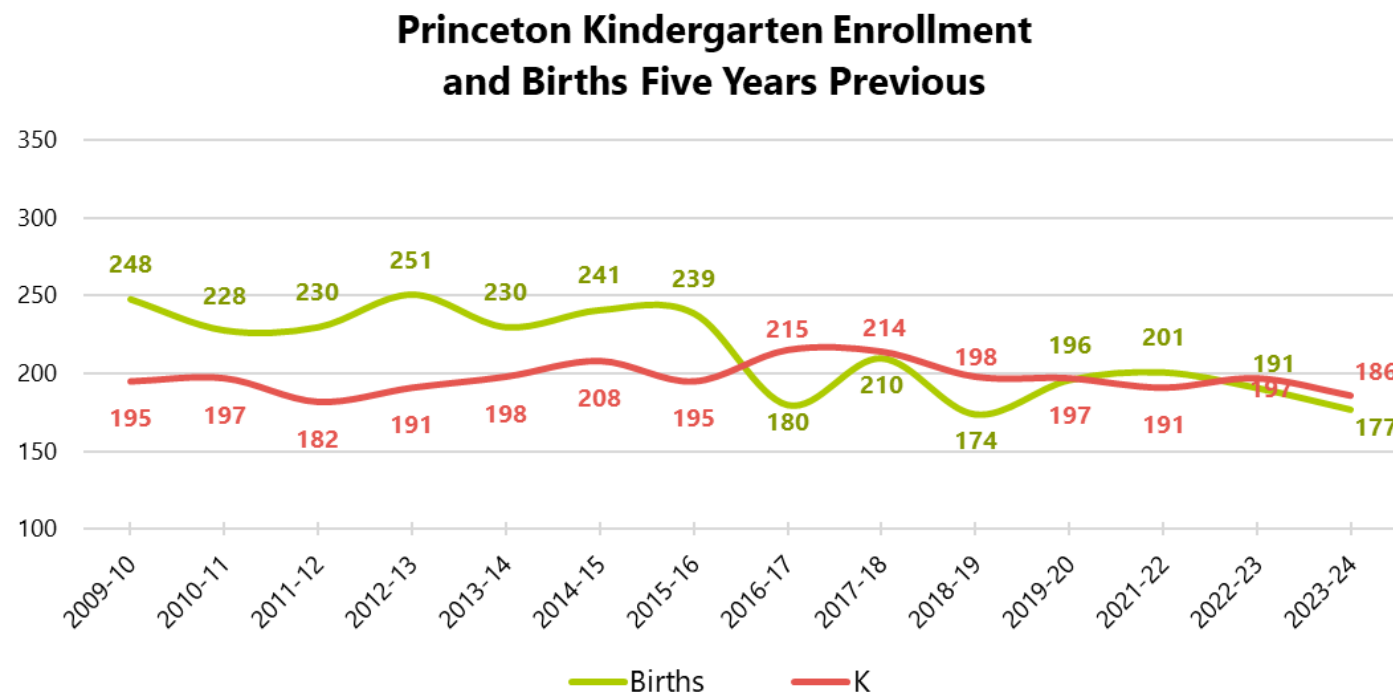|							Kindergarten through 12th Grade Persistency Ratios by School Year 2010-11 to 2023-24							
Year	**B-K**	**K-1**	**1-2**	**2-3**	**3-4**	**4-5**	**5-6**	**6-7**	**7-8**	**8-9**	**9-10**	**10-11**	**11-12**	**Est. of Mig**
2010-11	0.8640	1.0513	1.0248	0.8967	1.0796	1.0215	1.0524	1.0240	1.0085	1.6389	1.0368	0.9808	1.0000	1.7%
2011-12	0.7913	1.0254	1.0537	0.9274	0.9758	1.0599	1.0546	1.0769	1.0798	1.3403	0.9802	0.9372	1.0000	3.3%
2012-13	0.7610	1.0110	0.9802	0.9676	1.0435	1.0994	1.0043	1.0558	1.0168	1.6304	1.1536	1.0173	1.0117	2.2%
2013-14	0.8609	0.9476	1.0543	0.9949	1.0048	0.9917	1.0169	1.0000	1.0377	1.5661	1.0027	0.9783	0.9490	1.4%
2014-15	0.8631	1.0657	1.1713	1.0155	1.0102	1.1286	1.0378	1.1556	1.0952	1.4691	1.0000	0.9973	0.9806	8.5%
2015-16	0.8159	0.9952	1.0000	0.9198	0.9594	0.9899	1.0253	1.0526	1.0529	1.5810	1.0272	1.0106	0.9840	0.2%
2016-17	1.1944	1.1282	1.0773	0.9810	1.1385	1.0317	1.1371	1.0576	1.0808	1.6347	1.0275	1.0145	0.9948	7.1%
2017-18	1.0190	1.0698	1.0682	1.0000	1.1449	1.0405	1.1231	1.0982	1.0117	1.4698	1.0196	0.9903	0.9857	6.7%
2018-19	1.1379	1.0748	1.0043	0.9489	1.0852	1.0422	1.1299	1.0548	1.0732	1.4885	1.0363	0.9562	1.0049	4.8%
2019-20	1.0051	1.0505	1.0783	1.0346	1.0628	1.0868	1.0607	1.0345	1.0649	1.4773	1.0904	0.9836	1.0229	6.0%
2020-21	0.7400	0.9797	0.9663	0.9516	0.9916	1.0253	1.0266	0.9885	1.0481	1.4187	0.9949	0.9905	1.0380	0.1%
2021-22	0.9502	1.2635	1.0363	1.0647	1.0466	0.9789	1.0453	1.0704	1.0039	1.4205	1.0201	0.9485	0.9474	3.5%
2022-23	1.0314	1.0785	1.1711	1.0400	1.1355	1.0324	1.1034	1.0354	1.0277	1.5038	1.0174	0.9916	1.0217	7.3%
2023-24	1.0508	1.0000	1.0340	1.0411	1.1587	1.0412	1.0667	0.9648	0.9924	1.2929	0.9949	0.9584	0.9773	3.9%

Source: Princeton Public Schools
Estimation of Migration calculated analyzing grades 1-7 vs. grades 2-8 in the subsequent year

- Persistency ratios determine growth or loss in a class/ grade as it progresses through school system
- High 8th – 9th ratio due to Princeton Charter School and Cranbury students, however, 2023-24 was lowest in recent history
- Generally consistent growth in cohorts since 2016-17, excluding the two pandemic years (2020-21 and to a lesser extent 2021-22)
- Rebound in migration for 2022-23 school year – returned to pre-pandemic levels, however, 2023-24 dipped to 2021-22 levels

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- Significant shift in Birth – Kindergarten persistency ratios occurred between 2015-16 and 2016-17
  - Previously, PPS saw about 80 – 85 % of a birth cohort enter Kindergarten five years later
  - Most recent years, PPS enrolls more students in Kindergarten than were present in the birth cohort five years previous
  - Anomaly in 2020-21 due to pandemic with significantly fewer kindergarten students compared to corresponding birth cohort.
- Over the last 2-years, births and kindergarten have been well-correlated averaging 1.04

Princeton Kindergarten Enrollment and Births Five Years Previous

Births: 248, 228, 230, 251, 230, 241, 239, 215, 214, 210, 174, 196, 201, 191, 197, 177

K: 195, 197, 182, 191, 198, 208, 195, 180, 198, 197, 191, 191, 186

Years: 2009-10, 2010-11, 2011-12, 2012-13, 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2019-20, 2021-22, 2022-23, 2023-24

Legend: Births, K

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Districtwide Projections

Princeton PK-12 Enrollment
Actual and Projected
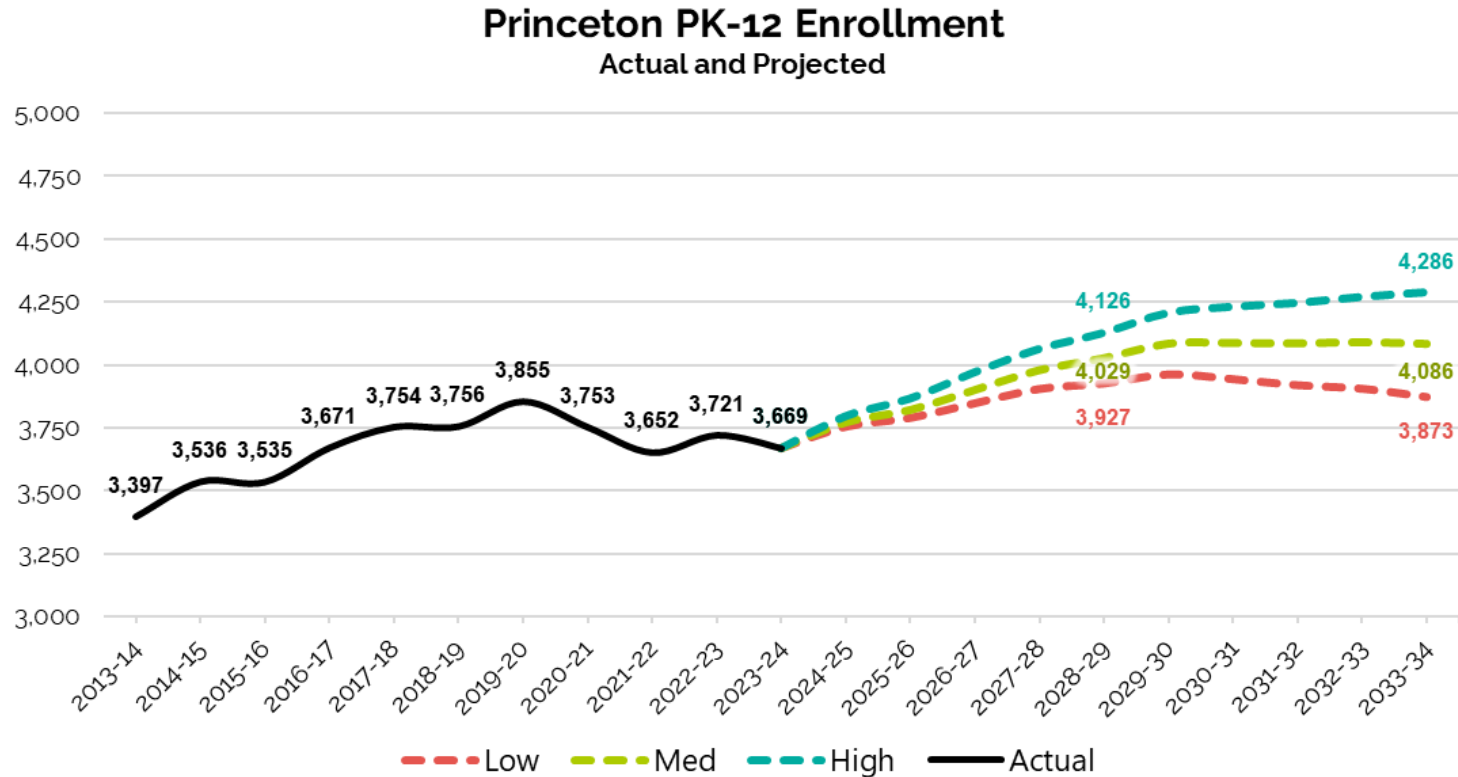
- In first 5-years, all three models show growth with a range of roughly 200 PK-12 students (3,927 – 4,126),

- Over the last 5-years, the range increases from 3,873 to 4,286 students by 2033-34.

- Under the medium model, PK-12th enrollment is projected to reach 4,029 student by mid-point, then growth slows through 2033-34, reaching 4,086 students

- **Recent housing conditions, demographics and enrollment in-migration align best with Medium Model and represents the most likely direction. Assumes build out and occupancy of Fair Share Housing units.**

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Districtwide Projections

- Projects growth through 2029-30, then stable enrollment averaging nearly 4,090 students.

- In first five years, growth is felt across all grades:
  - Elementary School 7.6%
  - Middle School (PMS) 11.7%
  - High School (PHS) 11.2%

- Average enrollment Over the next decade:
  - Elementary School - 1,402 students
  - Middle School – 867 students
  - High School - 1,667 students

Princeton Public Schools Actual and Projected Enrollment: 2014-15 to 2033-34

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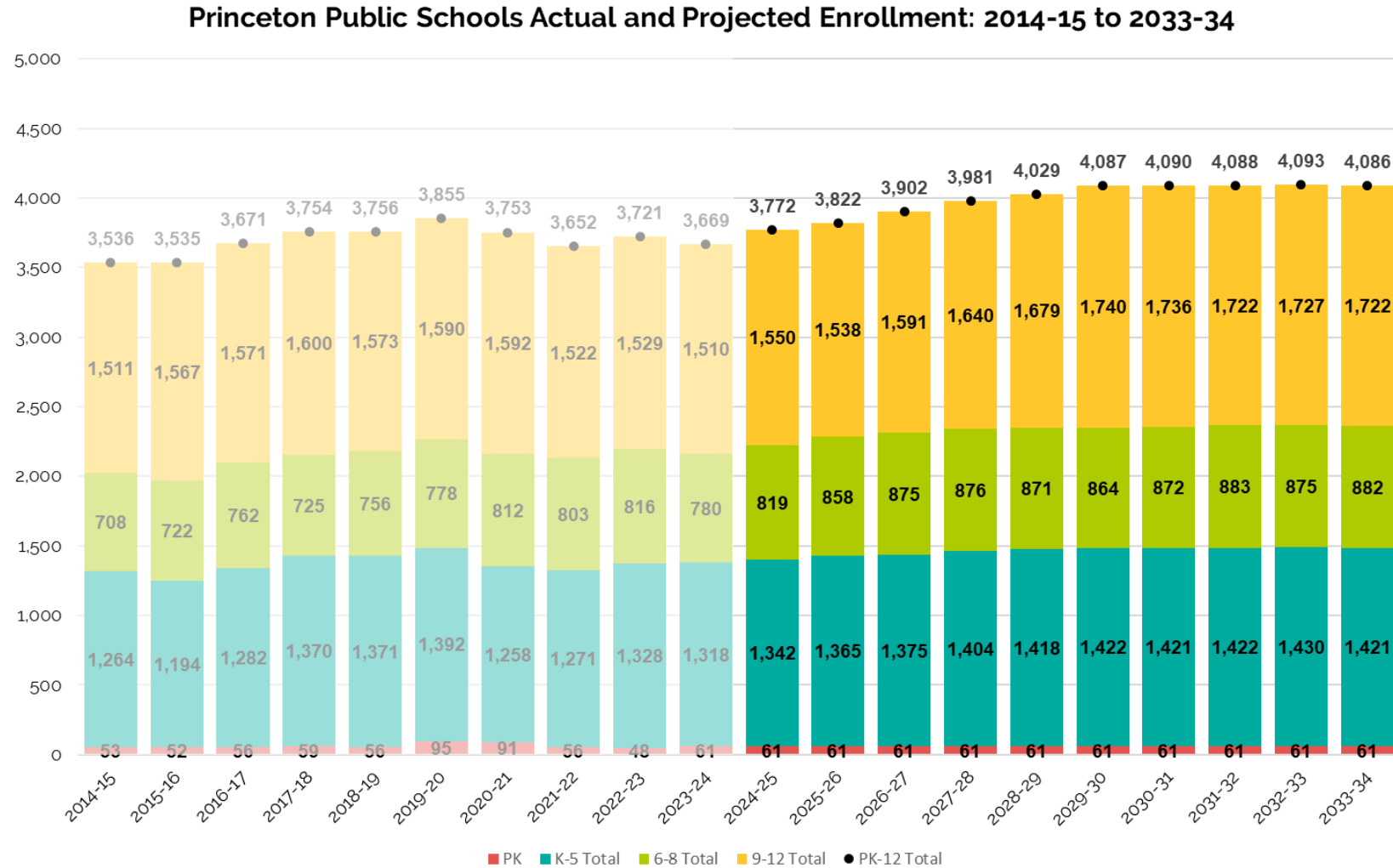
- Recommended medium projections model comprised of two components:

- **1) Baseline projections** account for "natural" community growth rate based on births and persistency (cohort survival) ratios.
  - Baseline projections show PK-12 enrollment growing moderately, exceeding 3,900 students by 2029-30, averaging 3,924 students thereafter.

- **2.) Student Generation Multipliers** were added on top of the baseline projections accounting for students generated from new housing developments.
  - Housing multipliers add an additional 165 students to the projections, with gradual phase in of new units between 2024-25 and 2027-28.
  - Locally derived multipliers for PPS, accounts fo student growth from housing developments not captured in baseline projections

- **Updated projections, show growth is both baseline and future housing development in excess of baseline.**

Enrollment Projection Components (Medium Model)

Year	Baseline Projections	Multipliers	Total
2024-25	3,728	44	3,772
2025-26	3,737	85	3,822
2026-27	3,773	129	3,902
2027-28	3,816	165	3,981
2028-29	3,864	165	4,029
2029-30	3,922	165	4,087
2030-31	3,925	165	4,090
2031-32	3,923	165	4,088
2032-33	3,928	165	4,093
2033-34	3,921	165	4,086

Legend: ■ Baseline Projections ■ Multipliers (Student from New Housing Developments) ● Total

Multipliers developed by SLAM for Princeton Public Schools (2024).

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Districtwide Projections

School Year	Births 5-Years Previous	K	1	2	3	4	5	6	7	8	9	10	11	12	PK	K-12 Total	PK-12 Total	K-5 Total	6-8 Total	9-12 Total	PK-5 Total
2023-24	**177**	186	197	213	228	241	253	272	247	261	384	389	392	345	61	**3,608**	**3,669**	**1,318**	**780**	**1,510**	**1,379**
2024-25	**160**	192	207	214	223	253	253	277	284	258	379	399	379	393	61	**3,711**	**3,772**	**1,342**	**819**	**1,550**	**1,403**
2025-26	**169**	194	213	223	222	247	266	275	288	295	373	394	390	381	61	**3,761**	**3,822**	**1,365**	**858**	**1,538**	**1,426**
2026-27	**140**	192	215	230	233	246	259	288	287	300	428	388	384	391	61	**3,841**	**3,902**	**1,375**	**875**	**1,591**	**1,436**
2027-28	**177**	207	212	231	239	257	258	279	299	298	433	443	379	385	61	**3,920**	**3,981**	**1,404**	**876**	**1,640**	**1,465**
2028-29	**174**	205	225	225	237	260	266	275	288	308	428	445	429	377	61	**3,968**	**4,029**	**1,418**	**871**	**1,679**	**1,479**
2029-30	**170**	203	223	239	230	258	269	284	283	297	442	440	431	427	61	**4,026**	**4,087**	**1,422**	**864**	**1,740**	**1,483**
2030-31	**167**	201	221	237	245	250	267	287	293	292	426	455	426	429	61	**4,029**	**4,090**	**1,421**	**872**	**1,736**	**1,482**
2031-32	**165**	201	218	234	243	267	259	285	296	302	419	438	441	424	61	**4,027**	**4,088**	**1,422**	**883**	**1,722**	**1,483**
2032-33	**166**	201	218	231	240	264	276	276	294	305	433	431	424	439	61	**4,032**	**4,093**	**1,430**	**875**	**1,727**	**1,491**
2033-34	**166**	201	218	231	237	261	273	294	285	303	438	445	417	422	61	**4,025**	**4,086**	**1,421**	**882**	**1,722**	**1,482**

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