



NEEDHAM PUBLIC SCHOOLS

ASSISTANT SUPERINTENDENT FOR FINANCE & OPERATIONS

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January 2, 2019 (Updated)

To: Needham School Committee
From: Anne Gulati Director of Financial Operations
RE: FY 20-34 Projected Enrollment Update

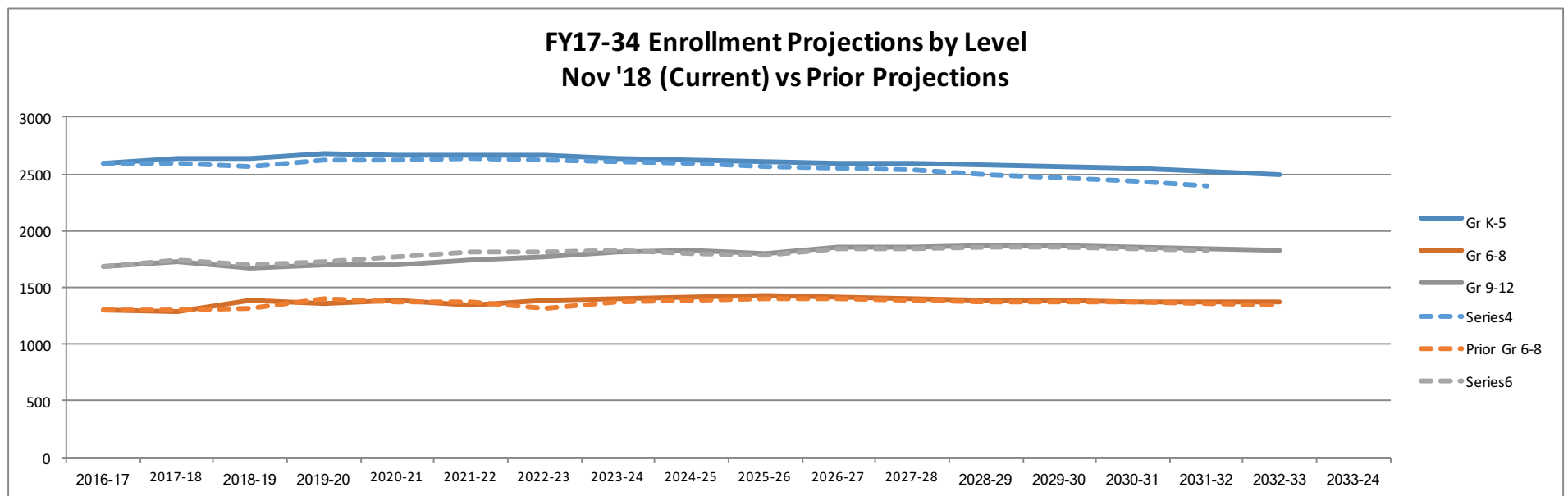
Recently, McKibben Demographic Associates issued 'best' enrollment projections for FY 2019/20 – 2033/34. These projections update the estimates developed in November, 2017 for the subsequent fifteen-year period. These estimates were developed according to the Memorandum of Understanding between Boards, which called for prior consultation with the Board of Selectmen and Finance Committee prior to the development of the projections.

The updated results, which are depicted in the charts on the following pages, reflect the following broad observations:

- Over the next fifteen years, K-12 enrollment is projected to grow at a rate of only about 0.06%/year (or 0.9% overall), to approximately 5,694 pupils by September 2033. This growth rate is slightly higher than that predicted one year ago, of about 0.1%/year (or 0.3% overall.)
- However, while the long-term trend is for essentially 'level enrollment,' the short term will continue to be characterized by a rapid increase, then a rapid decrease in population. According to the projections, K-12 enrollment will grow from the current level of 5,645 to a peak of 5,863 students in the 2025/26 School Year, and then decline to 5,694 in 2033/34. The period where enrollment is increasing will add 218 anticipated new students to the system. During the declining enrollment period, Needham will lose an estimated 169 students.
- The K-12 enrollment projection for FY20 is for an additional 39 students, or 5,684 students. This projection reflects 8 fewer elementary students, 99 additional middle school students, and a reduction of 52 students at Needham High School. The changes at the secondary reflect the current year classes moving through the system.

Needham Public Schools K-12 Total Enrollment by Level: FY19-34																																	
McKibben Demographics Nov-18																									Cum Change FY19-34	Cum Change FY19-26	Cum Change FY26-34						
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34									
<u>Enrollment</u>																																	
Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,641	2,633	2,675	2,661	2,667	2,663	2,640	2,619	2,606	2,597	2,596	2,587	2,569	2,547	2,518	2,492	(149)	(22)	(127)						
Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,282	1,381	1,362	1,389	1,346	1,391	1,400	1,420	1,428	1,409	1,397	1,385	1,385	1,379	1,379	1,374	92	138	(46)						
Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,722	1,670	1,693	1,702	1,746	1,769	1,808	1,824	1,797	1,856	1,859	1,874	1,874	1,857	1,840	1,828	106	102	4						
Total	5,301	5,360	5,394	5,439	5,465	5,504	5,508	5,582	5,645	5,684	5,730	5,752	5,759	5,823	5,848	5,863	5,831	5,862	5,852	5,846	5,828	5,783	5,737	5,694	49	218	(169)						
																										Avg Change FY19-34	Avg Change FY19-26	Avg Change FY26-34					
<u>Annual Inc/(Dec)</u>																																	
Gr K-5		(7)	(49)	40	(37)	20	10	41	48	(8)	42	(14)	6	(4)	(23)	(21)	(13)	(9)	(1)	(9)	(18)	(22)	(29)	(26)	(6)	(69)	(5)						
Gr 6-8		(7)	43	(15)	14	(22)	7	7	(22)	99	(19)	27	(43)	45	9	20	8	(19)	(12)	(12)	-	(6)	-	(5)	4	42	(25)						
Gr 9-12		73	40	20	49	41	(13)	26	37	(52)	23	9	44	23	39	16	(27)	59	3	15	-	(17)	(17)	(12)	9	(21)	(28)						
Total		59	34	45	26	39	4	74	63	39	46	22	7	64	25	15	(32)	31	(10)	(6)	(18)	(45)	(46)	(43)	7	(48)	(58)						

- The enrollment patterns by level will follow a familiar theme. Over the next fifteen years, elementary enrollment is projected to decline, driven by the Town's declining birth rate, albeit more slowly than previously predicted. Middle and high school enrollment will remain strong, as the existing classes of 400+ students cycle through the system.



- As the charts and graphs illustrate, the anticipated decline in elementary enrollment will happen more slowly than previously anticipated, given the continued strong housing market in Needham and projected impact of Full-Day Kindergarten. All Needham neighborhoods except Newman had strong existing home sales activity this year, particularly the Eliot District. According to McKibben, nearly 25% of resales occurred in the Eliot District this year. In addition, the implementation of Full-Day Kindergarten is expected to increase the Kindergarten enrollment rate from approximately 95% to 97%. (The attendance rate is projected to increase by an even larger extent in the Eliot District, from 90% to 97%.) As a result of these factors, the current projection for elementary enrollment is higher than in the previous year.

Needham Public Schools PreK-12 Total Enrollment by Level: Current (Nov '18) v. Prior (Nov '17) Projection																										
McKibben Demographics																							Cum Change FY19-33	Cum Change FY19-26	Cum Change FY26-33	
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33			
<u>Current (2018)</u>																										
PreK	76	74	82	84	82	82	80	82	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	-	-	-
Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,641	2,633	2,675	2,661	2,667	2,663	2,640	2,619	2,606	2,597	2,596	2,587	2,569	2,547	2,518	(123)	(22)	(101)
Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,282	1,381	1,362	1,389	1,346	1,391	1,400	1,420	1,428	1,409	1,397	1,385	1,385	1,379	1,379	97	138	(41)
Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,722	1,670	1,693	1,702	1,746	1,769	1,808	1,824	1,797	1,856	1,859	1,874	1,874	1,857	1,840	118	102	16
PreK-Total	5,377	5,434	5,476	5,523	5,547	5,586	5,588	5,664	5,728	5,767	5,813	5,835	5,842	5,906	5,931	5,946	5,914	5,945	5,935	5,929	5,911	5,866	5,820	92	218	(126)
<u>Prior (2017)</u>																										
PreK	76	74	82	84	82	82	80	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	-	-	-
Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,601	2,571	2,622	2,618	2,637	2,620	2,603	2,589	2,573	2,554	2,532	2,501	2,471	2,433	2,397	(204)	(12)	(192)
Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,319	1,407	1,370	1,370	1,317	1,379	1,384	1,407	1,395	1,387	1,379	1,377	1,366	1,358	1,344	25	88	(63)
Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,737	1,700	1,733	1,767	1,810	1,812	1,830	1,806	1,783	1,841	1,840	1,860	1,849	1,835	1,827	90	69	21
PreK-Total	5,377	5,434	5,476	5,523	5,547	5,586	5,588	5,664	5,739	5,760	5,807	5,837	5,846	5,893	5,899	5,884	5,833	5,864	5,833	5,820	5,768	5,708	5,650	(89)	145	(234)
<u>Variance</u>																										
PreK	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Gr 1-5	-	-	-	-	-	-	-	-	40	62	53	43	30	43	37	30	33	43	64	86	98	114	121			
Gr 6-8	-	-	-	-	-	-	-	-	(37)	(26)	(8)	19	29	12	16	13	33	22	18	8	19	21	35			
Gr 9-12	-	-	-	-	-	-	-	-	(15)	(30)	(40)	(65)	(64)	(43)	(22)	18	14	15	19	14	25	22	13			
PreK-Total	-	-	-	-	-	-	-	-	(11)	7	6	(2)	(4)	13	32	62	81	81	102	109	143	158	170			

- The 'best' enrollment projection also reflects the impact of the two new developments in Needham: the Modera (at 700 Greendale Avenue in the Broadmeadow District) and the Kendrick (at 275 2nd Avenue in the Eliot District.) The Modera opened in June, 2018, with students enrolled for the first time this school year. The Kendrick also opened this year, although only a few units are ready for occupancy. (Full occupancy is expected by the Spring.) Currently, 23 students are enrolled from Modera. McKibben had projected a total of about 12 students per year, over a five-year period between FY19-23, for an estimated 62 total new students. As of October, only 4 students had enrolled from the Kendrick, although more are expected when the building is fully open. McKibben had projected a total of about 21 students per year, over the six-year period between FY19-24, for an estimated 125 total new students. The assumed number of new students resulting from the new developments remains unchanged from last year.

- Consistent with the study parameters developed with the Future School Needs Committee, these current enrollment projections represent a 'best' estimate, which includes only new development that is either under construction or at the permitting stage (permitted or about to be permitted.) Unlike last year, the best projection *excludes* prospective new development like the proposed 'Residential Overlay' in the Eliot District, which is not yet permitted. This prospective development was included in a separate, 'high' enrollment estimate, presented below. However, it is interesting to note that the 'best' growth projection for Eliot (which excludes the Residential Overlay) is roughly equivalent to the previous projection for Eliot, which *had* included the Overlay. The current substantial growth projection in the Eliot District is the result of the heavy resale activity in that neighborhood and estimate for improved Kindergarten enrollment due to Full-Day Kindergarten.

The 'high' projection, includes a prospective 250 unit 'overlay' development, which is assumed to generate 24 more students between FY24-29 and a total of 49 additional students by 2034. (The overlay's five-year build out assumes all units are occupied by 2030 and that the full impact of the district's enrollment is seen by 2033.)

- The individual school results are charted on the following pages. The school-age population in the Broadmeadow district reflects the additional students coming the Modera development and the impact of the large Kindergarten cohort that entered in the current year. The Eliot School enrollment increases significantly as well, reflecting the impact of the new Kendrick development and the very strong home sales activity in that district. Hillside and Mitchell Schools continue previous trends, while the Newman projection decreases slightly, reflecting fewer home sales in the current year. All elementary schools reflect a projected increase in the number of enrolled Kindergartners, due to the implementation of Full-Day Kindergarten. The secondary school projections reflect the impact of existing students moving through the system.

The projection is based on mortgage interest rates staying between 5 - 6%, the metro area unemployment rate staying below 4.5% and the Town averaging 30-35 teardowns per year. The individual district projections reflect assumptions about the pace and magnitude of existing home sales, which is the backbone of Needham's housing market.

ALG/alg

Attachment(s)

Needham Public Schools Total Enrollment

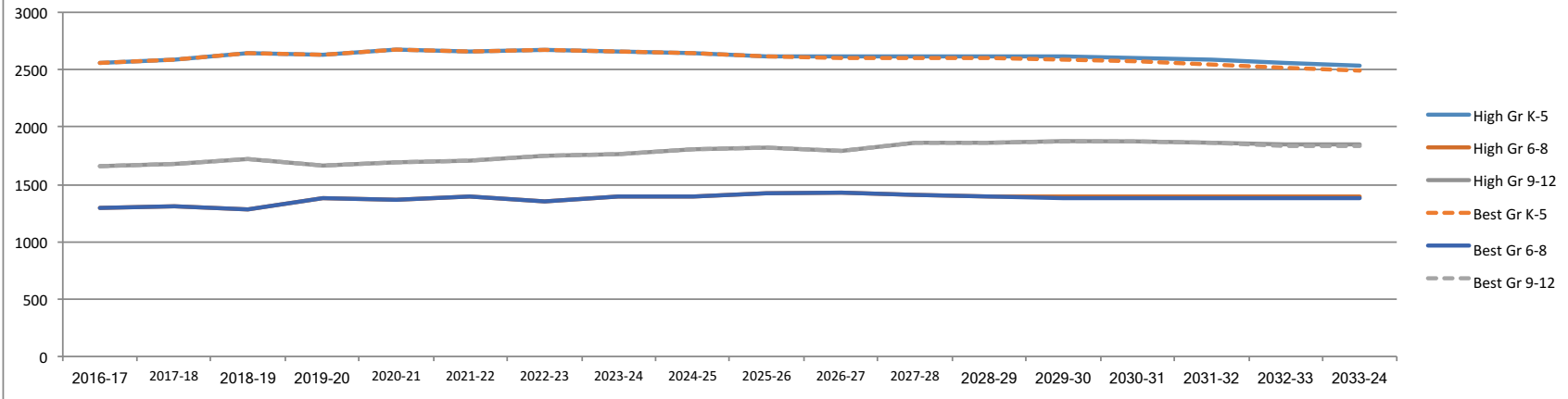
Best 2018

	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-24
PK	76	74	82	84	82	82	80	82	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
K	363	398	414	406	365	404	369	404	412	426	422	417	414	411	411	408	408	405	407	400	393	387	381	384
1	439	384	419	441	449	387	433	411	430	446	439	435	429	426	422	422	419	419	417	415	408	401	395	389
2	422	447	390	419	444	471	397	448	434	442	459	451	447	439	436	432	433	430	431	429	428	421	414	407
3	436	417	450	413	416	450	473	396	460	440	446	463	459	456	448	445	443	444	441	442	440	439	432	424
4	485	431	419	444	409	415	455	481	413	463	443	449	466	461	458	450	449	446	449	447	448	446	445	438
5	430	491	427	436	439	415	425	453	492	416	466	446	452	470	465	462	454	453	451	454	452	453	451	450
Total: K-5	2575	2568	2519	2559	2522	2542	2552	2593	2641	2633	2675	2661	2667	2663	2640	2619	2606	2597	2596	2587	2569	2547	2518	2492
6	448	438	482	427	451	451	421	450	450	504	426	478	459	466	484	479	474	465	464	462	465	461	462	460
7	424	413	421	467	404	439	445	408	440	446	499	422	473	457	464	482	477	472	463	462	460	463	459	460
8	405	419	410	404	457	400	431	446	392	431	437	489	414	468	452	459	477	472	470	461	460	455	458	454
Total: 7-8	829	832	831	871	861	839	876	854	832	877	936	911	887	925	916	941	954	944	933	923	920	918	917	914
9	380	400	420	414	400	449	416	435	450	396	435	441	494	420	475	459	466	482	477	475	466	465	460	463
10	373	371	398	417	418	396	446	414	428	446	392	431	437	489	416	470	454	461	477	472	470	461	460	455
11	367	378	369	382	416	407	396	441	404	424	442	388	427	433	484	412	465	449	456	472	467	465	456	455
12	329	373	366	363	389	412	401	395	436	400	420	438	384	423	429	479	408	460	445	451	467	462	460	451
SP	0	0	9	6	8	8	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total: 9-12	1449	1522	1562	1582	1631	1672	1659	1685	1722	1670	1693	1702	1746	1769	1808	1824	1797	1856	1859	1874	1874	1857	1840	1828
Total: PreK-12	5377	5434	5476	5523	5547	5586	5588	5664	5728	5767	5813	5835	5842	5906	5931	5946	5914	5945	5935	5929	5911	5866	5820	5777
Total: K-12	5301	5360	5394	5439	5465	5504	5508	5582	5645	5684	5730	5752	5759	5823	5848	5863	5831	5862	5852	5846	5828	5783	5737	5694
Final PreK-12	5377	5434	5476	5523	5547	5586	5588	5664	5728	5767	5813	5835	5842	5906	5931	5946	5914	5945	5935	5929	5911	5866	5820	5777
Change		57	42	47	24	39	2	76	64	39	46	22	7	64	25	15	-32	31	-10	-6	-18	-45	-46	-43
% Change		1.1%	0.8%	0.9%	0.4%	0.7%	0.0%	1.4%	1.1%	0.7%	0.8%	0.4%	0.1%	1.1%	0.4%	0.3%	-0.5%	0.5%	-0.2%	-0.1%	-0.3%	-0.8%	-0.8%	-0.7%
Current (2018)																								
Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,641	2,633	2,675	2,661	2,667	2,663	2,640	2,619	2,606	2,597	2,596	2,587	2,569	2,547	2,518	2,492
Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,282	1,381	1,362	1,389	1,346	1,391	1,400	1,420	1,428	1,409	1,397	1,385	1,385	1,379	1,379	1,374
Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,722	1,670	1,693	1,702	1,746	1,769	1,808	1,824	1,797	1,856	1,859	1,874	1,874	1,857	1,840	1,828
Prior (2017)																								
Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,601	2,571	2,622	2,618	2,637	2,620	2,603	2,589	2,573	2,554	2,532	2,501	2,471	2,433	2,397	
Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,319	1,407	1,370	1,370	1,317	1,379	1,384	1,407	1,395	1,387	1,379	1,377	1,366	1,358	1,344	
Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,737	1,700	1,733	1,767	1,810	1,812	1,830	1,806	1,783	1,841	1,840	1,860	1,849	1,835	1,827	

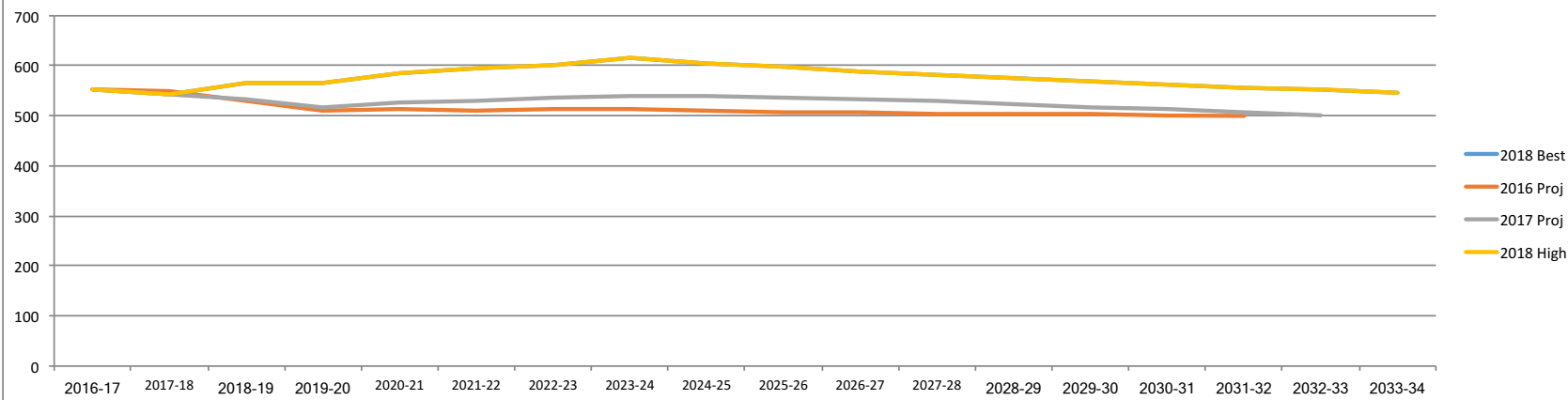
Needham Public Schools Total Enrollment

	High 2018																							
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-24
PK	76	74	82	84	82	82	80	82	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
K	363	398	414	406	365	404	369	404	412	426	422	417	414	411	411	409	411	410	413	409	404	399	394	398
1	439	384	419	441	449	387	433	411	430	446	439	435	429	426	422	422	420	420	419	418	412	407	402	397
2	422	447	390	419	444	471	397	448	434	442	459	451	447	439	436	432	434	432	433	432	432	425	420	414
3	436	417	450	413	416	450	473	396	460	440	446	463	459	456	448	445	444	446	444	445	444	443	436	430
4	485	431	419	444	409	415	455	481	413	463	443	449	466	461	458	450	450	448	453	452	453	450	449	442
5	430	491	427	436	439	415	425	453	492	416	466	446	452	470	465	462	455	455	455	460	459	458	455	454
Total: K-5	2575	2568	2519	2559	2522	2542	2552	2593	2641	2633	2675	2661	2667	2663	2640	2620	2614	2611	2617	2616	2604	2582	2556	2535
6	448	438	482	427	451	451	421	450	450	504	426	478	459	466	484	479	474	466	466	466	472	468	467	464
7	424	413	421	467	404	439	445	408	440	446	499	422	473	457	464	482	477	472	464	464	464	470	466	465
8	405	419	410	404	457	400	431	446	392	431	437	489	414	468	452	459	477	472	470	462	462	459	465	461
Total: 7-8	829	832	831	871	861	839	876	854	832	877	936	911	887	925	916	941	954	944	934	926	926	929	931	926
9	380	400	420	414	400	449	416	435	450	396	435	441	494	420	475	459	466	482	477	475	467	467	464	470
10	373	371	398	417	418	396	446	414	428	446	392	431	437	489	416	470	454	461	477	472	470	462	462	459
11	367	378	369	382	416	407	396	441	404	424	442	388	427	433	484	412	465	449	456	472	467	465	457	457
12	329	373	366	363	389	412	401	395	436	400	420	438	384	423	429	479	408	460	445	451	467	462	460	452
SP	0	0	9	6	8	8	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Total: 9-12	1449	1522	1562	1582	1631	1672	1659	1685	1722	1670	1693	1702	1746	1769	1808	1824	1797	1856	1859	1874	1875	1860	1847	1842
Total: PreK-12	5377	5434	5476	5523	5547	5586	5588	5664	5728	5767	5813	5835	5842	5906	5931	5947	5922	5960	5959	5965	5960	5922	5884	5850
Total: K-12	5301	5360	5394	5439	5465	5504	5508	5582	5645	5684	5730	5752	5759	5823	5848	5864	5839	5877	5876	5882	5877	5839	5801	5767
Final PreK-12	5377	5434	5476	5523	5547	5586	5588	5664	5728	5767	5813	5835	5842	5906	5931	5947	5922	5960	5959	5965	5960	5922	5884	5850
Change		57	42	47	24	39	2	76	64	39	46	22	7	64	25	16	-25	38	-1	6	-5	-38	-38	-34
% Change		1.1%	0.8%	0.9%	0.4%	0.7%	0.0%	1.4%	1.1%	0.7%	0.8%	0.4%	0.1%	1.1%	0.4%	0.3%	-0.4%	0.6%	0.0%	0.1%	-0.1%	-0.6%	-0.6%	-0.6%
High (2018)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-24
High Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,641	2,633	2,675	2,661	2,667	2,663	2,640	2,620	2,614	2,611	2,617	2,616	2,604	2,582	2,556	2,535
High Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,282	1,381	1,362	1,389	1,346	1,391	1,400	1,420	1,428	1,410	1,400	1,392	1,398	1,397	1,398	1,390
High Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,722	1,670	1,693	1,702	1,746	1,769	1,808	1,824	1,797	1,856	1,859	1,874	1,875	1,860	1,847	1,842
High Gr PreK-12	5,377	5,434	5,476	5,523	5,547	5,586	5,588	5,664	5,728	5,767	5,813	5,835	5,842	5,906	5,931	5,947	5,922	5,960	5,959	5,965	5,960	5,922	5,884	5,850
Best (2018)																								
Best Gr K-5	2,575	2,568	2,519	2,559	2,522	2,542	2,552	2,593	2,641	2,633	2,675	2,661	2,667	2,663	2,640	2,619	2,606	2,597	2,596	2,587	2,569	2,547	2,518	2,492
Best Gr 6-8	1,277	1,270	1,313	1,298	1,312	1,290	1,297	1,304	1,282	1,381	1,362	1,389	1,346	1,391	1,400	1,420	1,428	1,409	1,397	1,385	1,385	1,379	1,379	1,374
Best Gr 9-12	1,449	1,522	1,562	1,582	1,631	1,672	1,659	1,685	1,722	1,670	1,693	1,702	1,746	1,769	1,808	1,824	1,797	1,856	1,859	1,874	1,874	1,857	1,840	1,828
Best Gr PreK-12	5,377	5,434	5,476	5,523	5,547	5,586	5,588	5,664	5,728	5,767	5,813	5,835	5,842	5,906	5,931	5,946	5,914	5,945	5,935	5,929	5,911	5,866	5,820	5,777

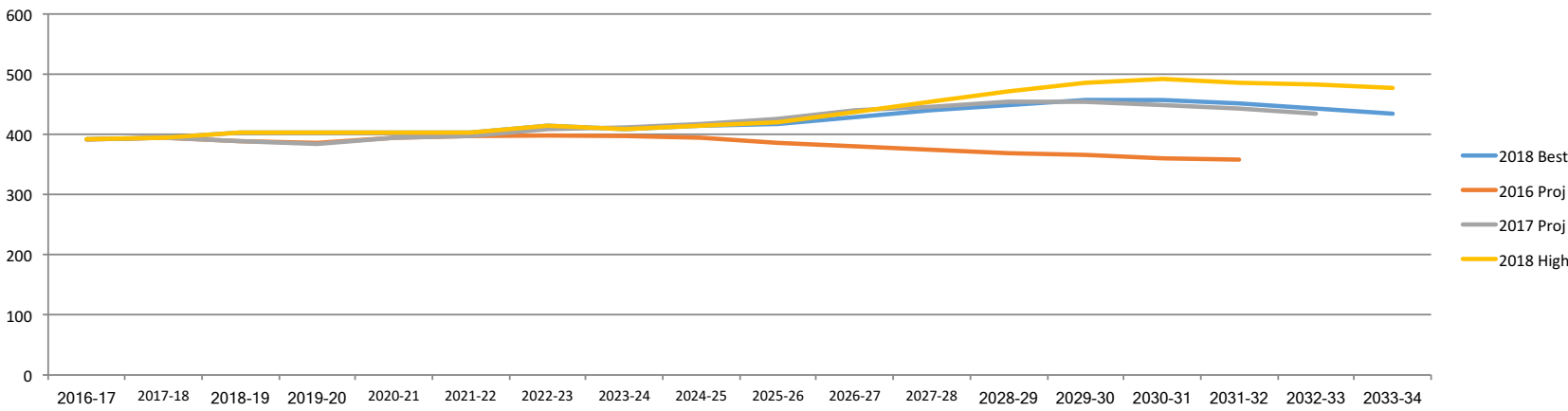
FY17-34 Enrollment Projections: District
2018 Current (Best & High) vs Prior Year Projections



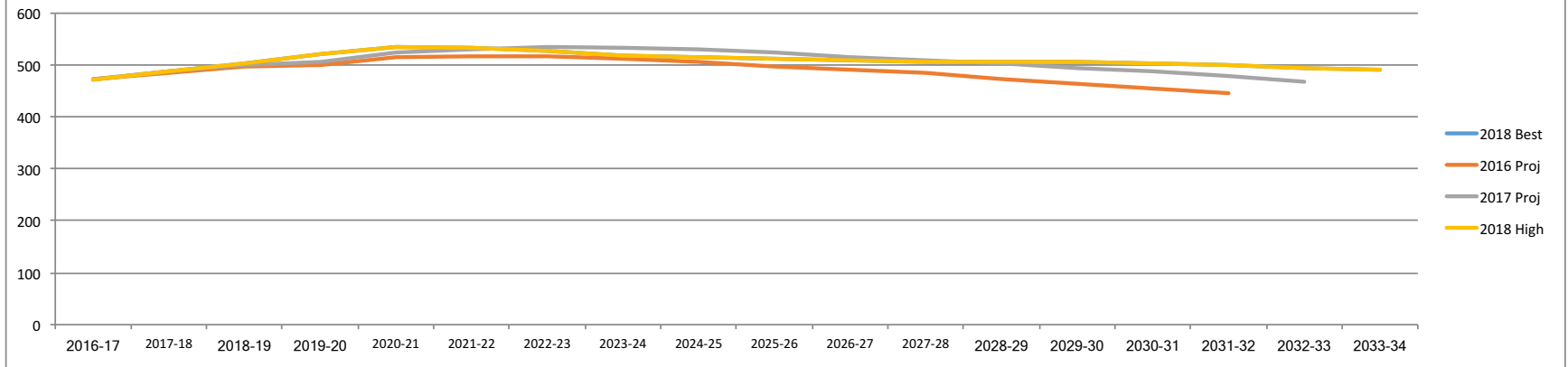
FY17-34 Enrollment Projections: Broadmeadow
2018 Current (Best & High) vs Prior Year Projections



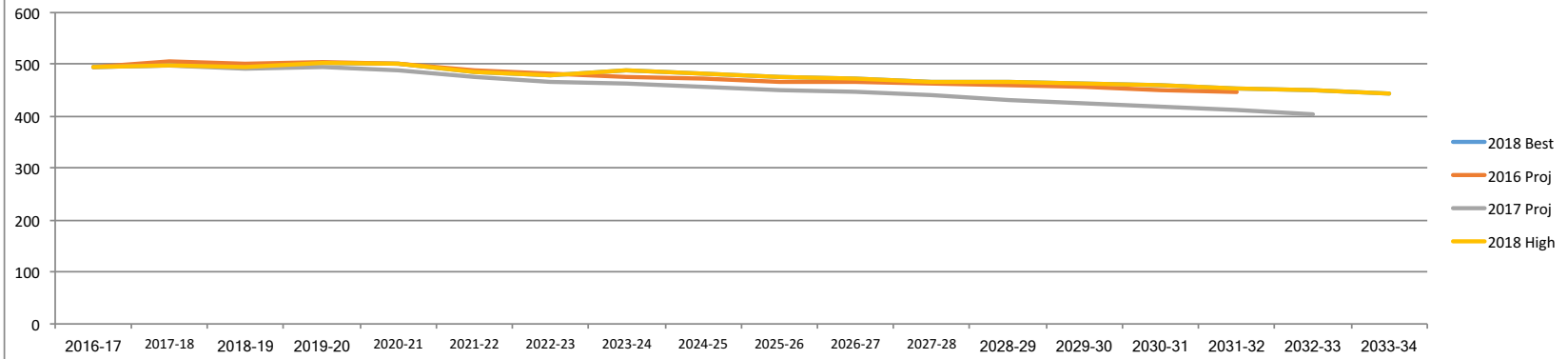
FY17-34 Enrollment Projections: Eliot
2018 Current (Best & High) vs Prior Year Projections



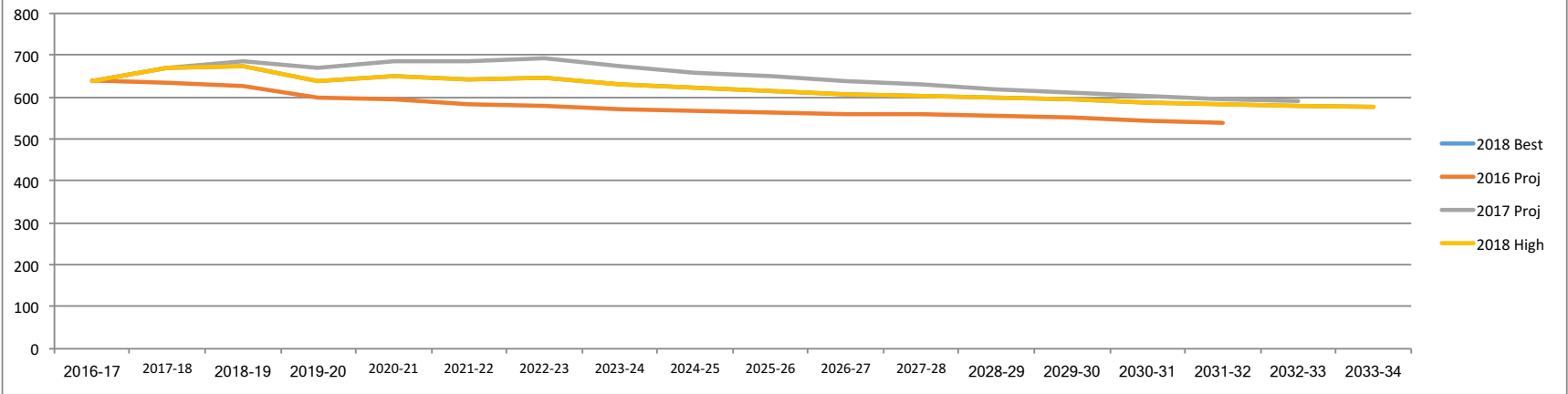
FY17-34 Enrollment Projections: Hillside
2018 Current (Best & High) vs Prior Year Projections



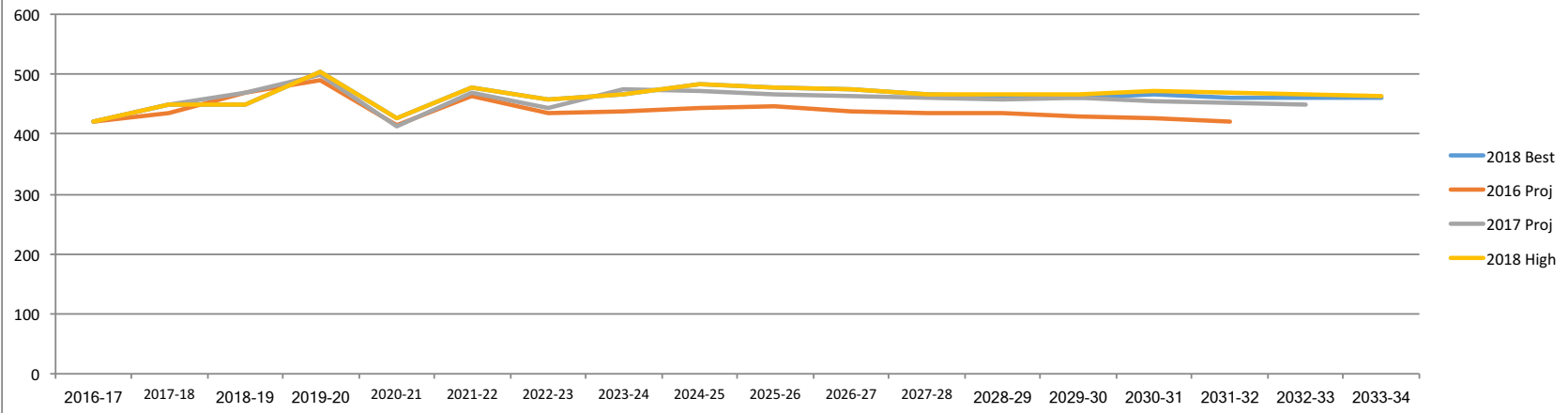
FY17-34 Enrollment Projections: Mitchell
2018 Current (Best & High) vs Prior Year Projections



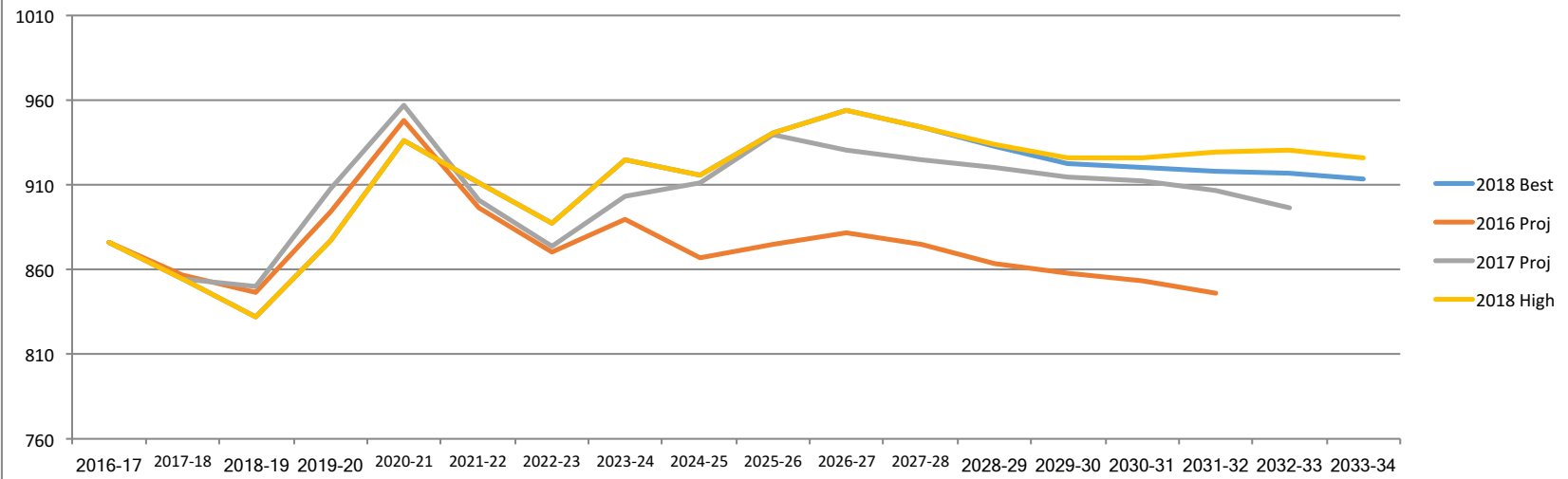
FY17-34 Enrollment Projections: Newman
2018 Current (Best & High) vs Prior Year Projections



FY17-34 Enrollment Projections: High Rock
2018 Current (Best & High) vs Prior Year Projections



FY17-34 Enrollment Projections: Pollard
2018 Current (Best & High) vs Prior Year Projections



FY17-34 Enrollment Projections: NHS
2018 Current (Best & High) vs Prior Year Projections

