



Needham School Committee

December 17, 2019

7:00 p.m.

*Broadmeadow School
School Committee Room*

*A school and community partnership that creates excited learners,
inspires excellence, fosters integrity*

SCHOOL COMMITTEE MEETING AGENDA

**Broadmeadow School
School Committee Room**

December 17, 2019 7:00 p.m.

Next School Committee Meeting: January 7, 2020

7:00 p.m. Public Comments

7:05 p.m. School Committee Comments

7:10 p.m. Superintendent's Comments

Discussion Items

7:15 p.m. Superintendent's FY21 Budget Discussion: Student Support Services

8:05 p.m. School Committee Comments

Information Items

2019 MCAS Scores - Comparable Community Comparisons
FY21-35 Final Enrollment Projection



Needham School Committee

December 17, 2019

Agenda Item: **Public Comments**

Background Information:

- The School Committee Chair will offer the opportunity for the public to speak to the School Committee on issues not on the agenda.



Needham School Committee

December 17, 2019

Agenda Item: **School Committee Chair and Subcommittee Update**

Background Information:

- The Chair and subcommittee members may offer brief updates on issues not on the agenda.

Members of the School Committee available for comment:

Michael Greis, Chair
Andrea Longo Carter, Vice-Chair
Connie Barr
Heidi Black
Susan Neckes
Aaron Pressman
Matthew Spengler



Needham School Committee

December 17, 2019

Agenda Item: **Superintendent's Comments**

Background Information:

Superintendent Daniel E. Gutekanst will apprise the School Committee of events, information, and matters of interest not on the agenda.



Needham School Committee
December 17, 2019

Agenda Item: **Consent Agenda**

There are no consent items for this meeting.

Chair: "Does anyone wish to remove any item from the consent agenda?"

If none removed:

"There being no objection, these items are adopted by unanimous consent."



Needham School Committee

December 17, 2019

Agenda Item: **Discussion**

Superintendent's FY2020-2021 Budget Request: Student Support Services

Background Information:

- This will be one of several discussions about the FY21 budget and will highlight the student support services program.

Persons Available for Presentation:

Dr. Dan Gutekanst, Superintendent of Schools
Dr. Alexandra Montes McNeil, Assistant Superintendent for Human Resources
Dr. Terry Duggan, Assistant Superintendent for Student Learning
Ms. Anne Gulati, Assistant Superintendent for Finance and Operations
Ms. Mary Lammi, Assistant Superintendent for Student Support Services

Student Support Services FY21 Budget Request

Needham School Committee
December 17, 2019



Presentation Overview

Build an understanding of the critical role student support services plays in providing equitable access to high quality inclusive educational experiences

Share budget drivers in the areas of student supports services

Provide an update on special education specific to enrollment, programs, and needs

Address workload capacity across special education, counseling, and ELL

Review requests/Revisit Drivers

Questions and Comments

Overview of Student Support Services

- All Students are general education students first!
- The District Curriculum Accommodation Plan (DCAP) ensures all efforts have been made to meet students' needs in general education through supports that address learner variability.
- A multi-tiered system of support is a framework endorsed by the Every Student Succeeds Act that is designed to assist schools in integrating the systems, practices, and supports needed to ensure equitable access to high quality education for all students.
- Student Support Services plays an important role in ensuring equity, access, and inclusion of all students by providing comprehensive programs and services

Special Education

Counseling

Health Services

English Language Learning

504 Accommodation Plans

FY21 Budget Drivers

The FY21 Budget focuses on continuing to build capacity and ensure equity for all students in an inclusive learning environment

Budget Drivers

- Growing student enrollment
- Increasing number of students requiring special education, counseling, and English language instruction
- Strengthening in-district capacity to meet students' needs through a continuum of academic and social-emotional programs and services
- Addressing caseload/workload barriers to equitable inclusive education

Special Education Enrollment

SPECIAL EDUCATION ENROLLMENT

- Needham - State



2014

2015

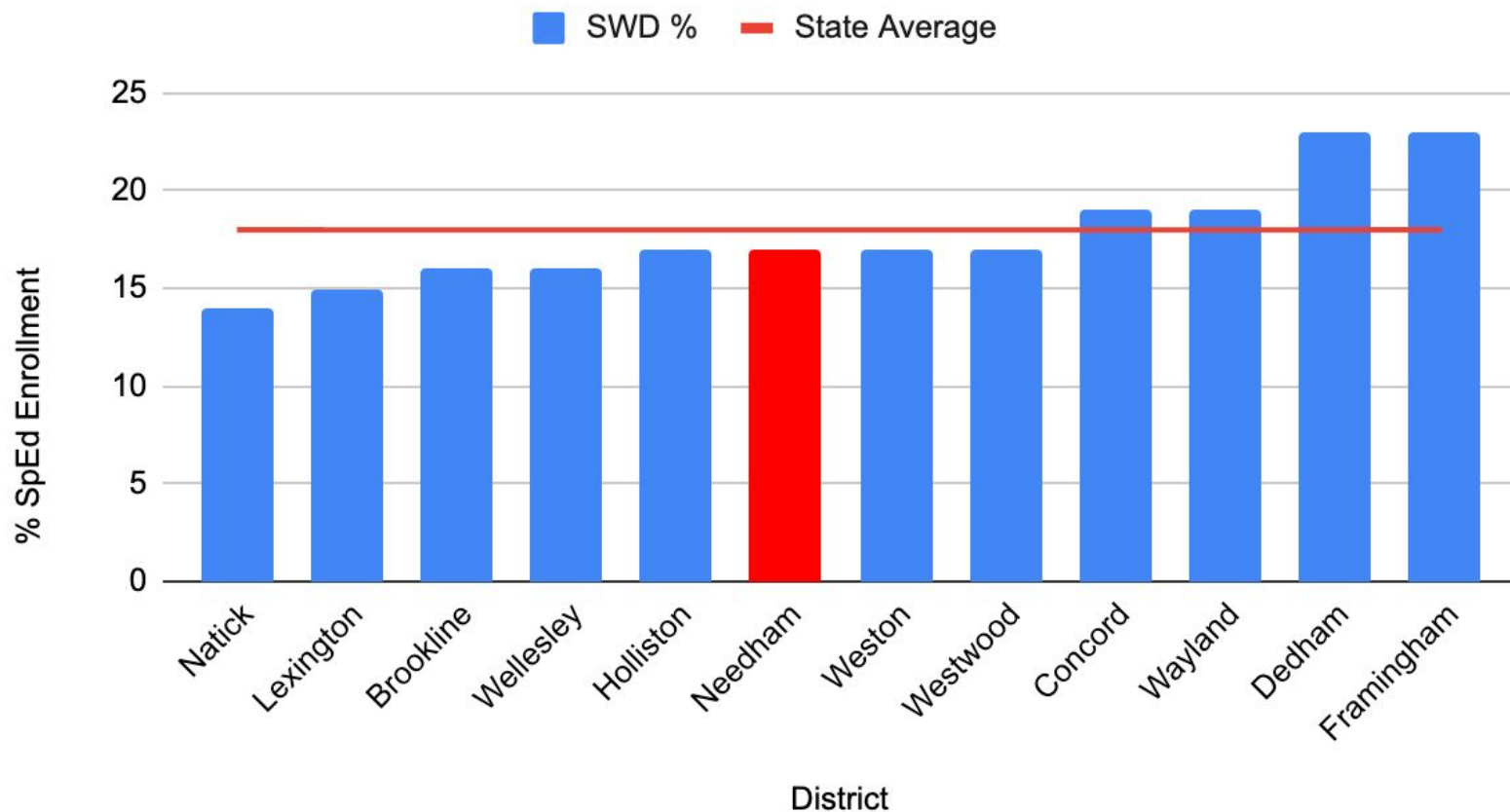
2016

2017

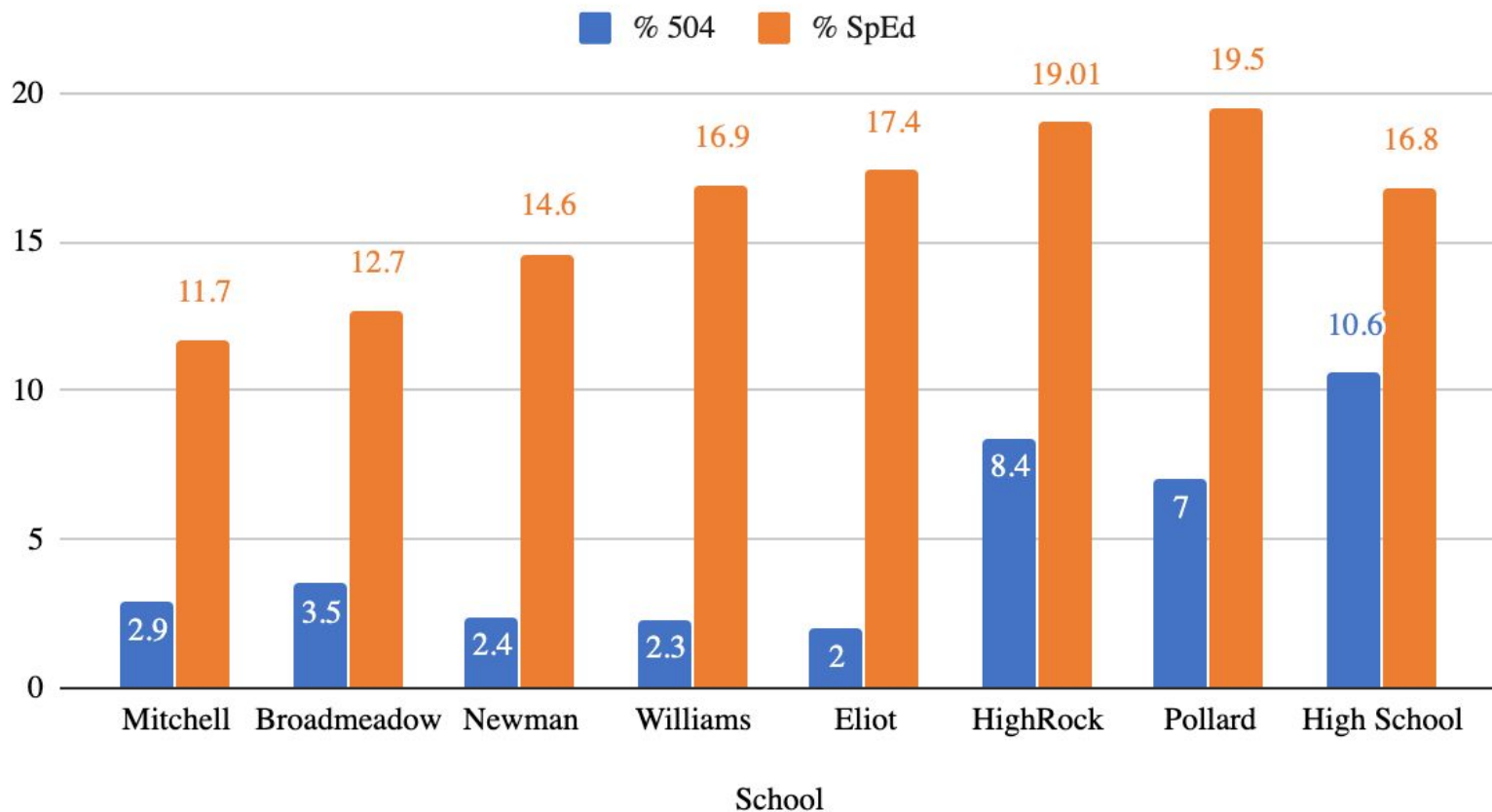
2018

2019

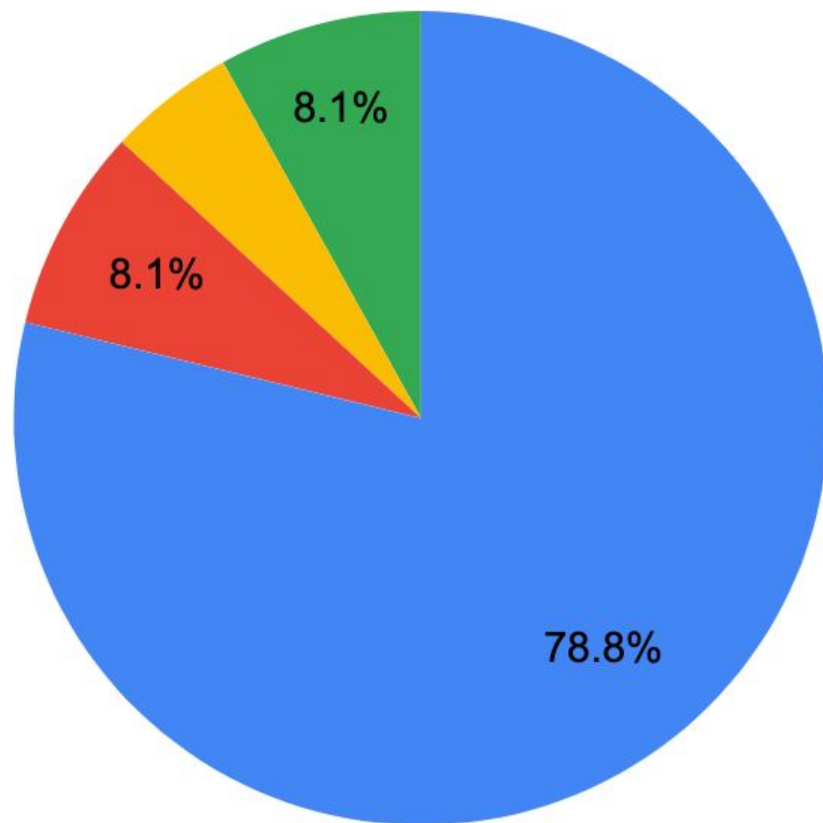
Percentage of Special Education: District Comparison



Percent of students with IEPs and 504 Plans

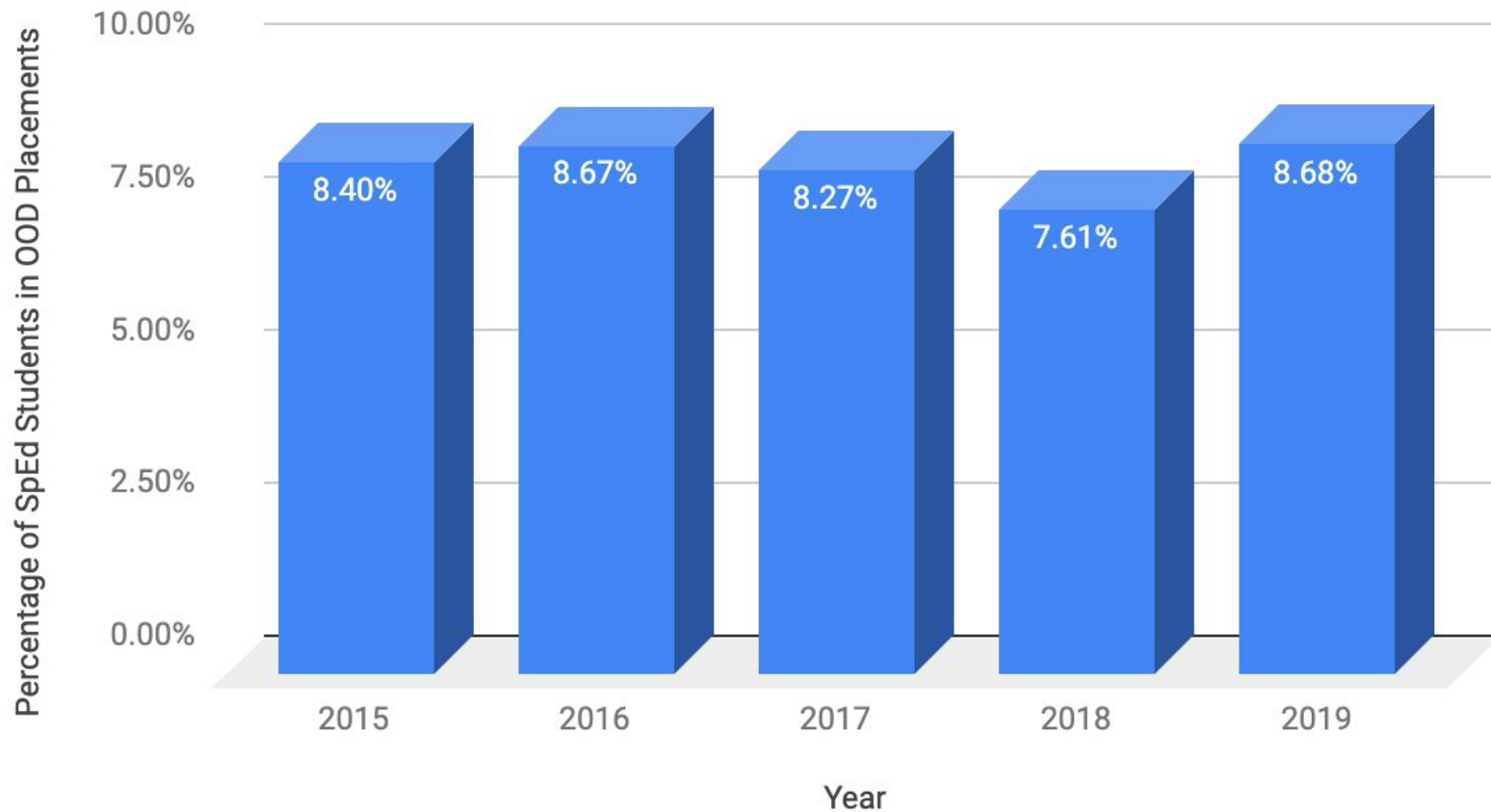


Placement by Type SY 2018-2019

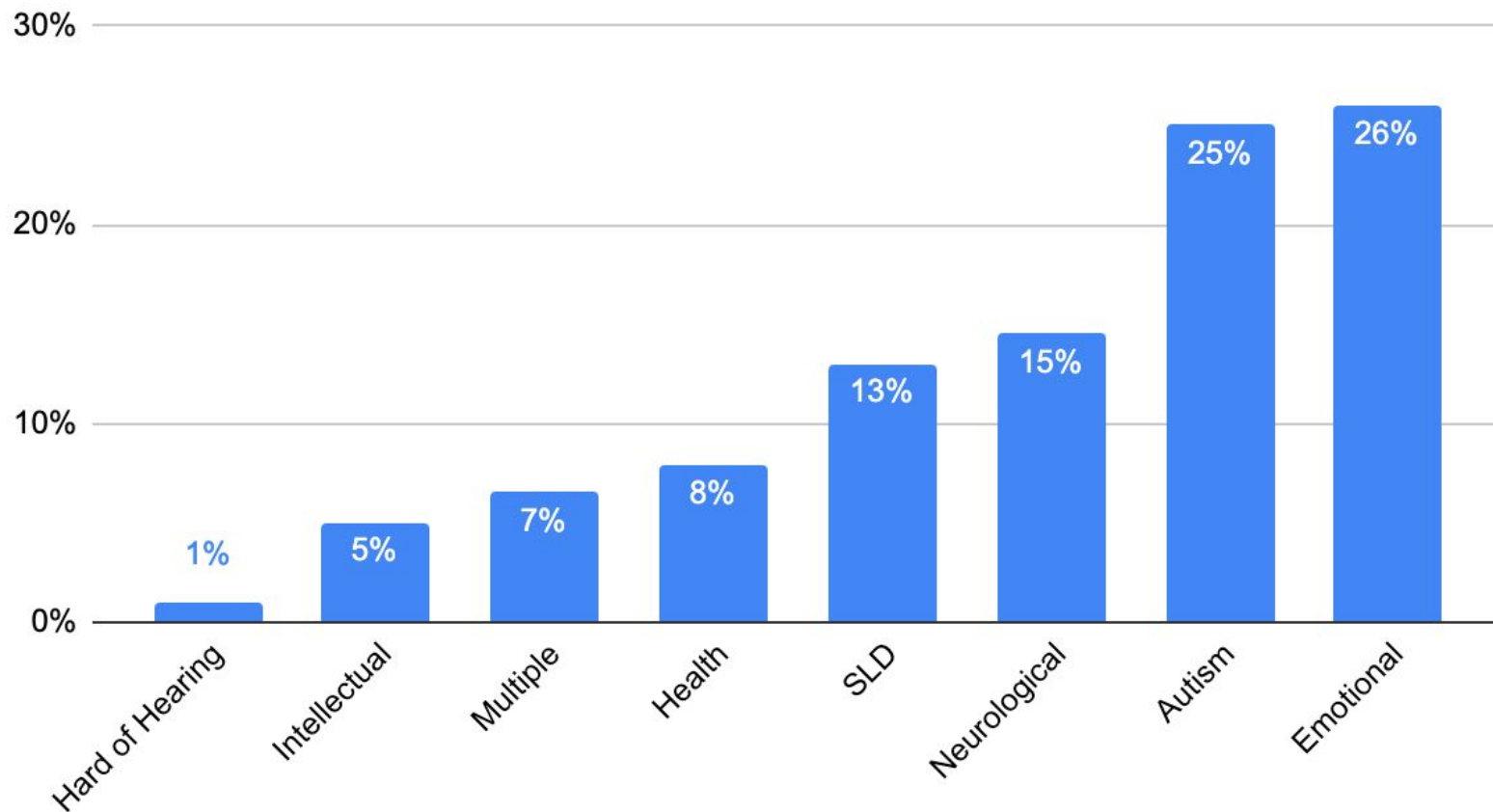


- Full Inclusion
- Partial Inclusion
- Substantially Separate
- Out of District

OOD as a Percentage of Special Education



Percent of Students Out of District by Disability Type



Specialized Programs

Connections Therapeutic Program

The District's specialized program to support students with social/emotional and behavioral challenges.

Connections provides a therapeutic classroom model, with inclusion opportunities for students who because of learning, social-emotional and behavioral difficulties are unable to participate fully in their grade level classroom.

The therapeutic approach often includes a positive behavioral support plan for a student. Students are provided counseling and other related services (Occupational Therapy, Speech and Language), in order to support their involvement in the general education program.

Current Need: Increased Clinical Support

Autism Specialized Programming

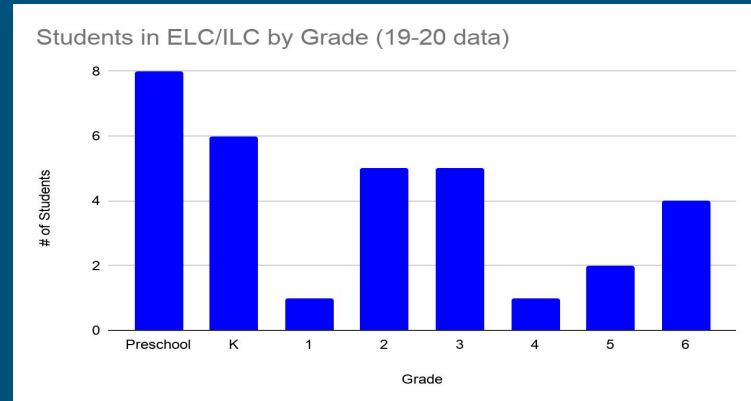
The specialized autism program supports students with disabilities that significantly impact the student's overall functioning.

The ABA program provides a smaller, highly structured classroom environment based upon the principles of Applied Behavior Analysis, with a low stimulation environment with clear, consistent routines and specially designed behavioral programs.

Early Learning Center at PreSchool and Elementary Level -
Currently 26 students in the ELC , grades K-5

High Rock cohort and temporary teacher

Current Need: 1.0 Special Educator (from temporary to permanent). .59 Teaching Assistant



Transitions

Program Description:

Transitions is a short-term program that supports the needs of students re-entering high school from a lengthy absence. Entrance into Transitions begins with a re-entry meeting in which an individual plan is designed to include communication with classroom teachers, making up work for return to classes from the student's original schedule or possibly a changed schedule. Transitions is also supported by a clinician who provides direct counseling and liaisons with in patient and day treatment facilities.

Population Served:

Students returning to school after a psychiatric hospitalization or who are struggling to attend and/or succeed in school due to a variety of psychological or psychosocial difficulties (including depression, anxiety, eating disorders, etc.) are provided counseling and academic support and are closely monitored in order to tailor supports and services based on individual needs.

Current Need: Convert Teaching Assistant to Special Education Teacher

Workload Capacity

Special Education Liaison Workload

All activities performed by SpEd Liaison

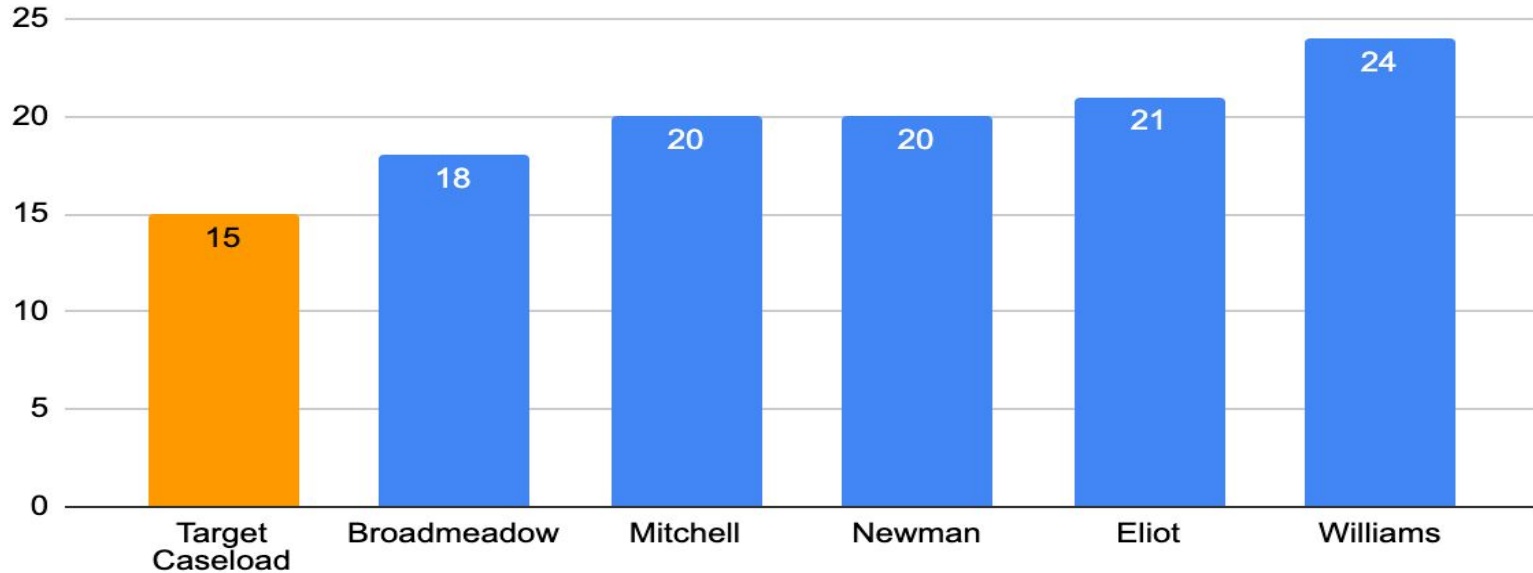
- Direct instruction
- Team Consultation
- Directing Teaching Assistants
- Special Education Assessment
- Family engagement
- IEP development
- Progress monitoring
- School-wide support teams

Additional factors impacting workload

- Complexity of student profile
- Intersectionality of special education, income status, ELL, METCO
- Compliance with IDEA and other mandates

Elementary Special Ed. Liaison Caseloads

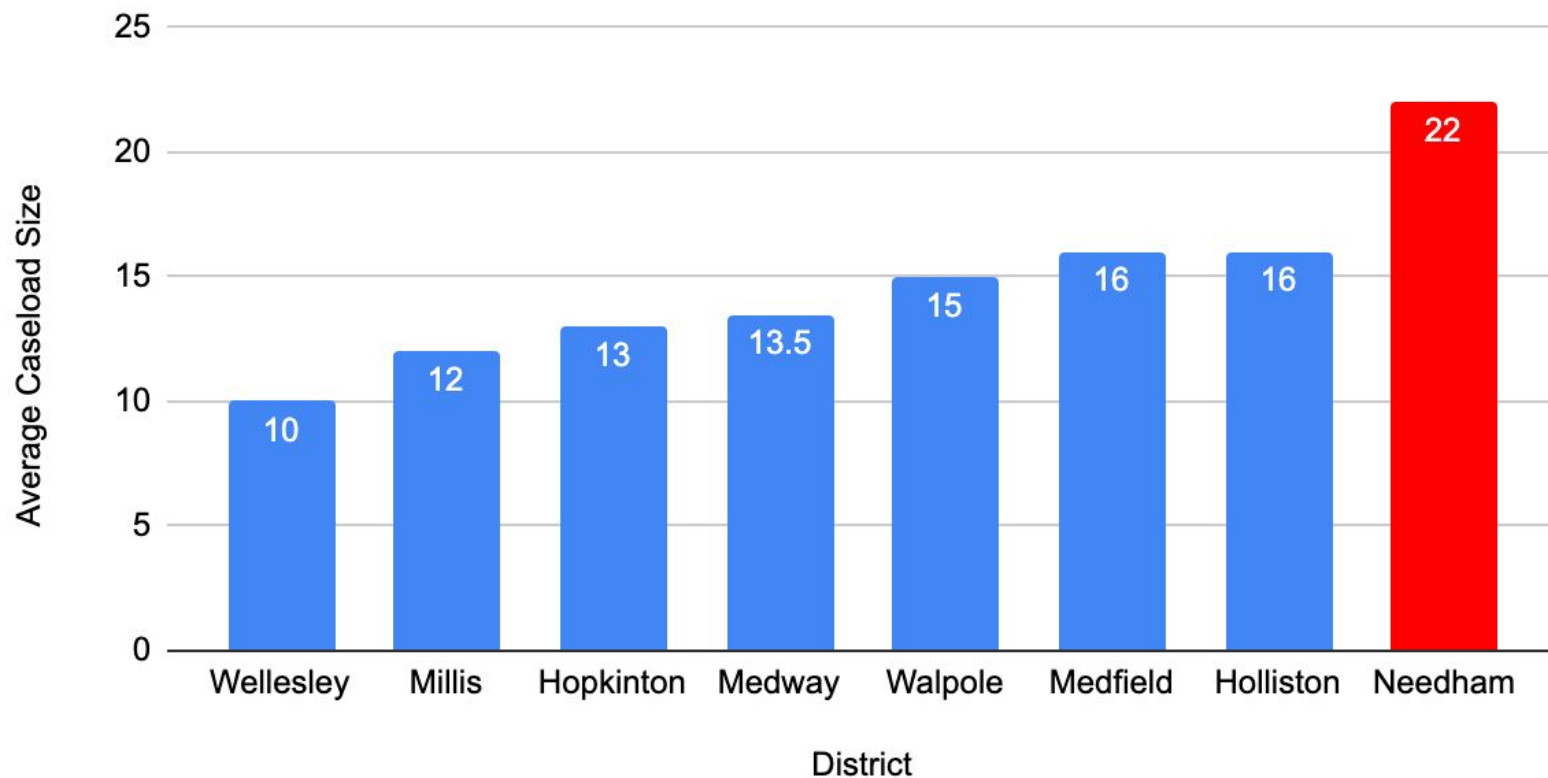
Compared to Target Caseload*



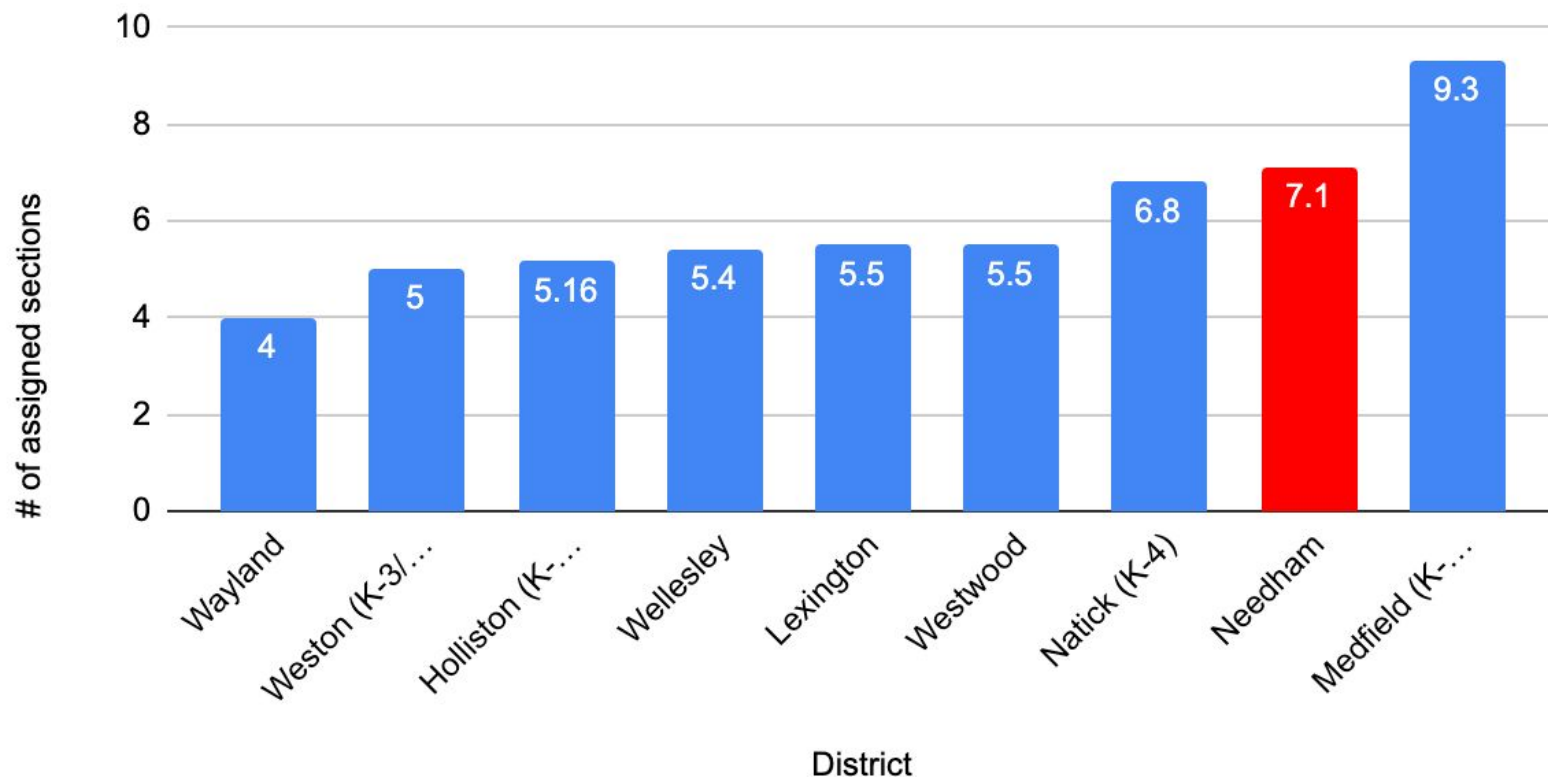
*Dependent on student needs and specific responsibilities of liaison

Current Need: 2.9 Special Education Liaisons

District Comparison: Average Elementary SpEd Teacher Caseload



Number of Assigned Classrooms Per Full-Time Special Education Teacher



Speech Therapist Workload

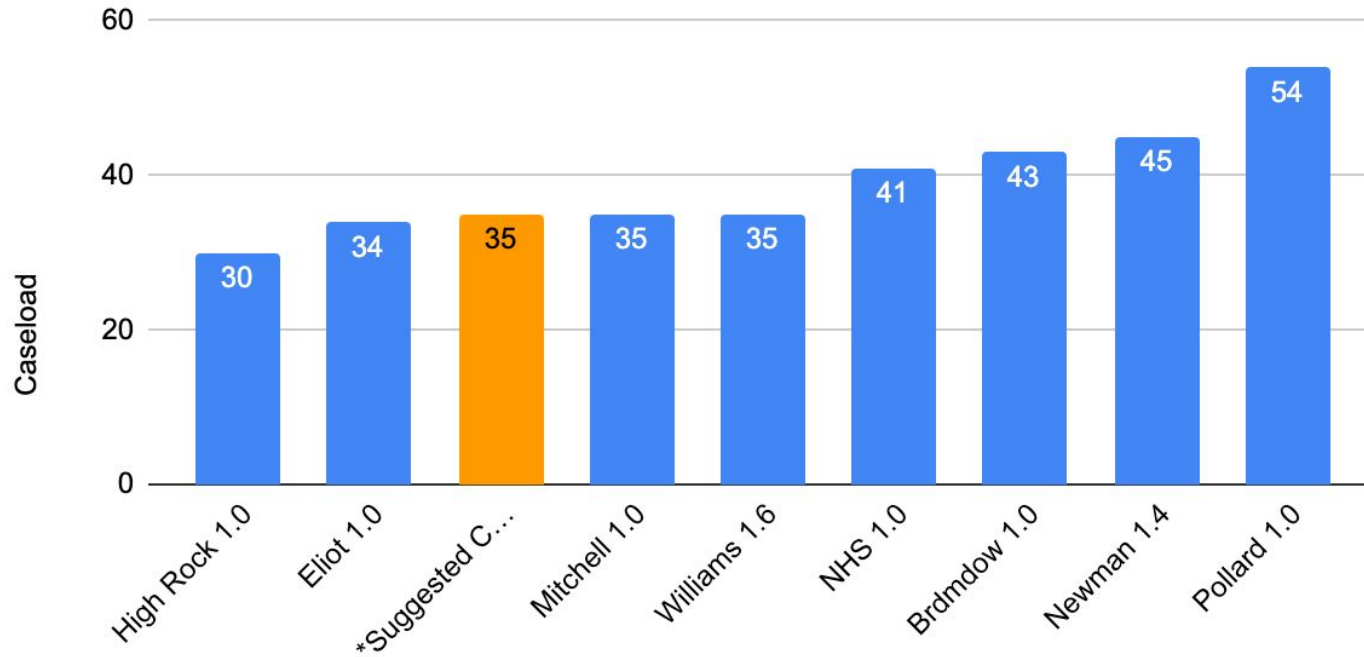
All activities performed by Speech Therapist

- Direct instruction
- Team Consultation
- Directing Teaching Assistants
- Special Education Assessment
- Family engagement
- IEP development
- Progress monitoring
- School-wide support teams

Additional factors impacting workload

- Complexity of student profile
- Intersectionality of special education, income status, ELL, METCO
- Compliance with IDEA and other mandates

Speech Therapy Caseloads



*Guidelines for workload & caseload from American Speech-Hearing Association

Current Need: .2 SLP Assistant

School Counselor Workload

All activities performed by School Counselor

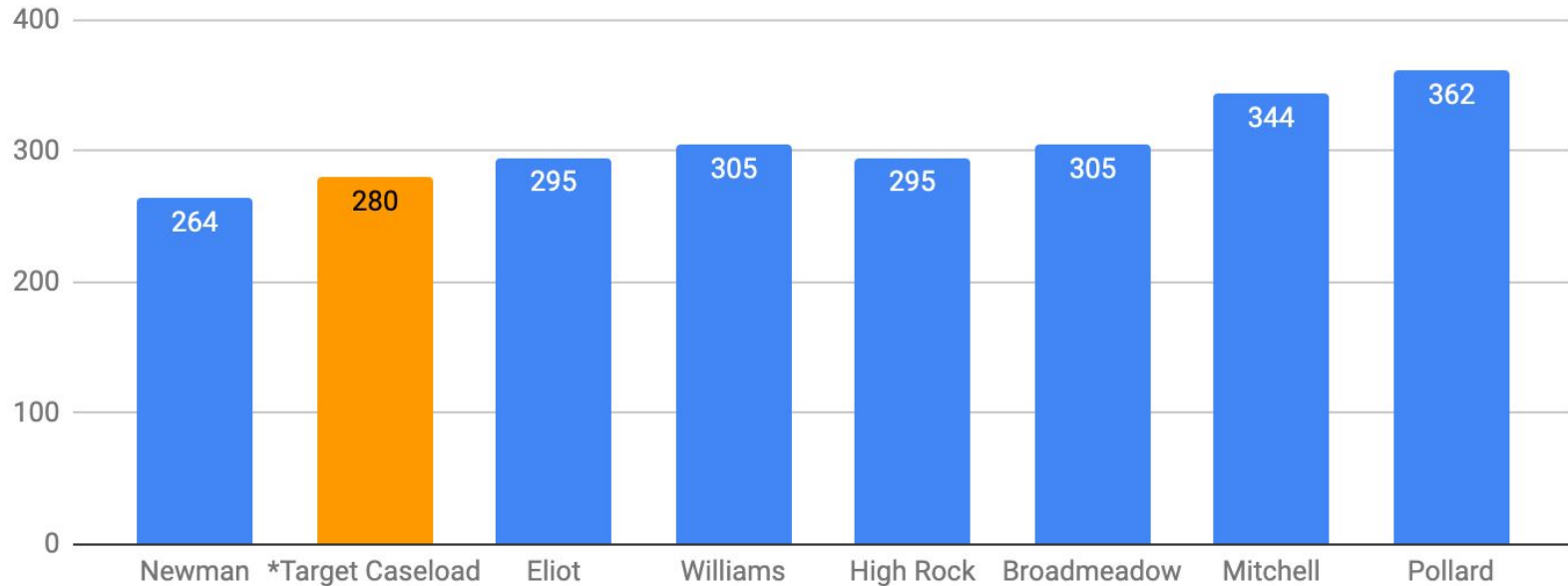
- Individual counseling
- Small group counseling
- Whole class instruction
- Team Consultation
- Family engagement
- IEP development
- Progress monitoring
- School-wide support teams
- Crisis intervention

Additional factors impacting workload

- Complexity of student profile
- Intersectionality of special education, income status, ELL, METCO
- Compliance with IDEA and other mandates

School Counselor Caseload

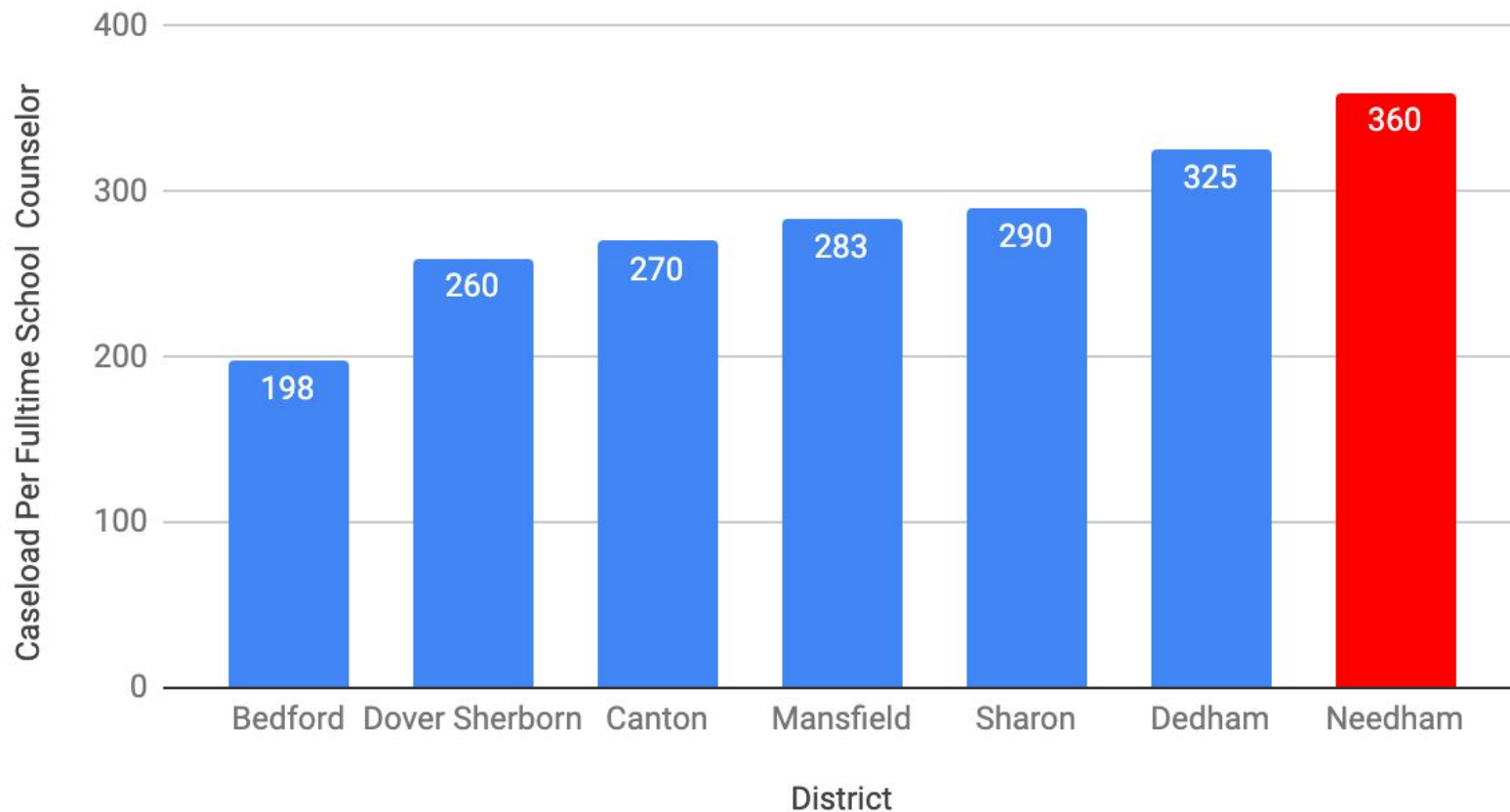
Compared to Target 280*



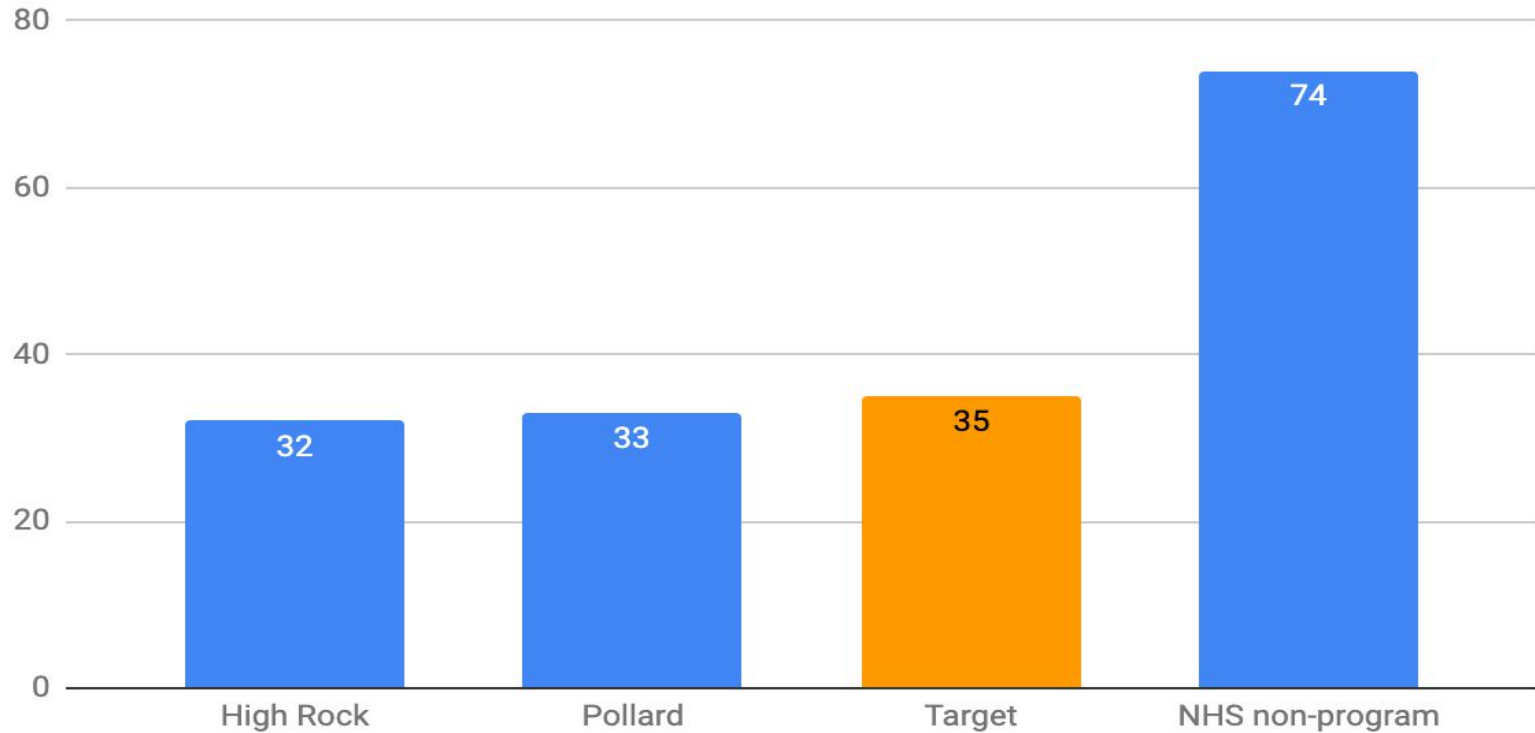
* Based on American School Counselor Association (ASCA) Recommended Caseload of 250 and District Comparisons

Current Need: .2 counselor Mitchell
.4 counselor Pollard

District Comparison: School Counselor Caseload



Middle & High School Adjustment Counselor SpEd Caseloads



Current Need: .5 counselor NHS

English Language Education Teacher Workload

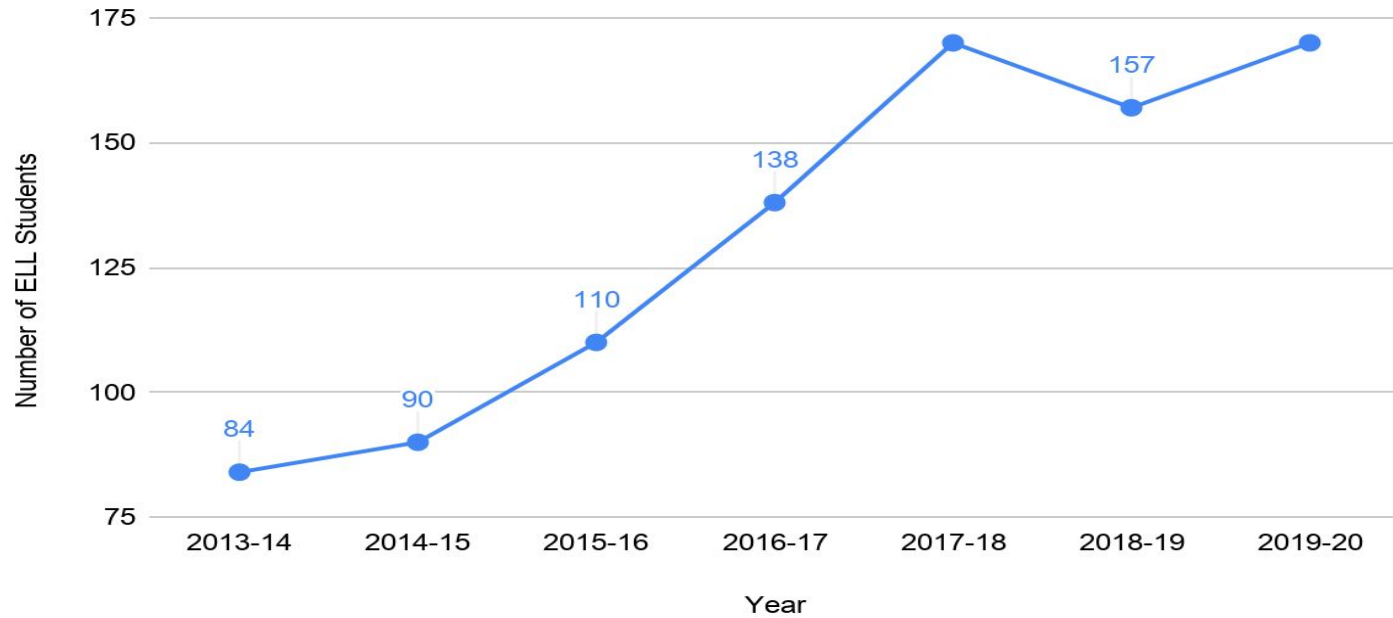
All activities performed by ELL Teacher

- Direct instruction
- Team Consultation
- Assessment
- Family engagement
- Progress monitoring
- School-wide support teams
- Language Assistance

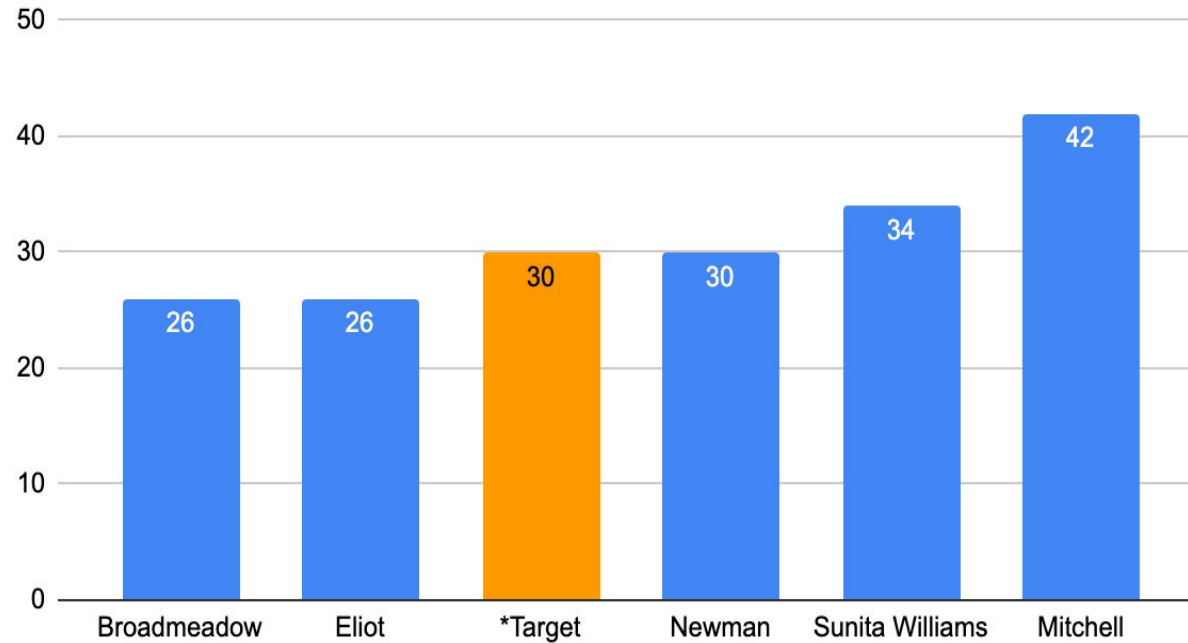
Additional factors impacting workload

- Complexity of student profile
- Intersectionality of special education, income status, ELL, METCO
- Compliance with state and federal mandates

ELL Enrollment Growth



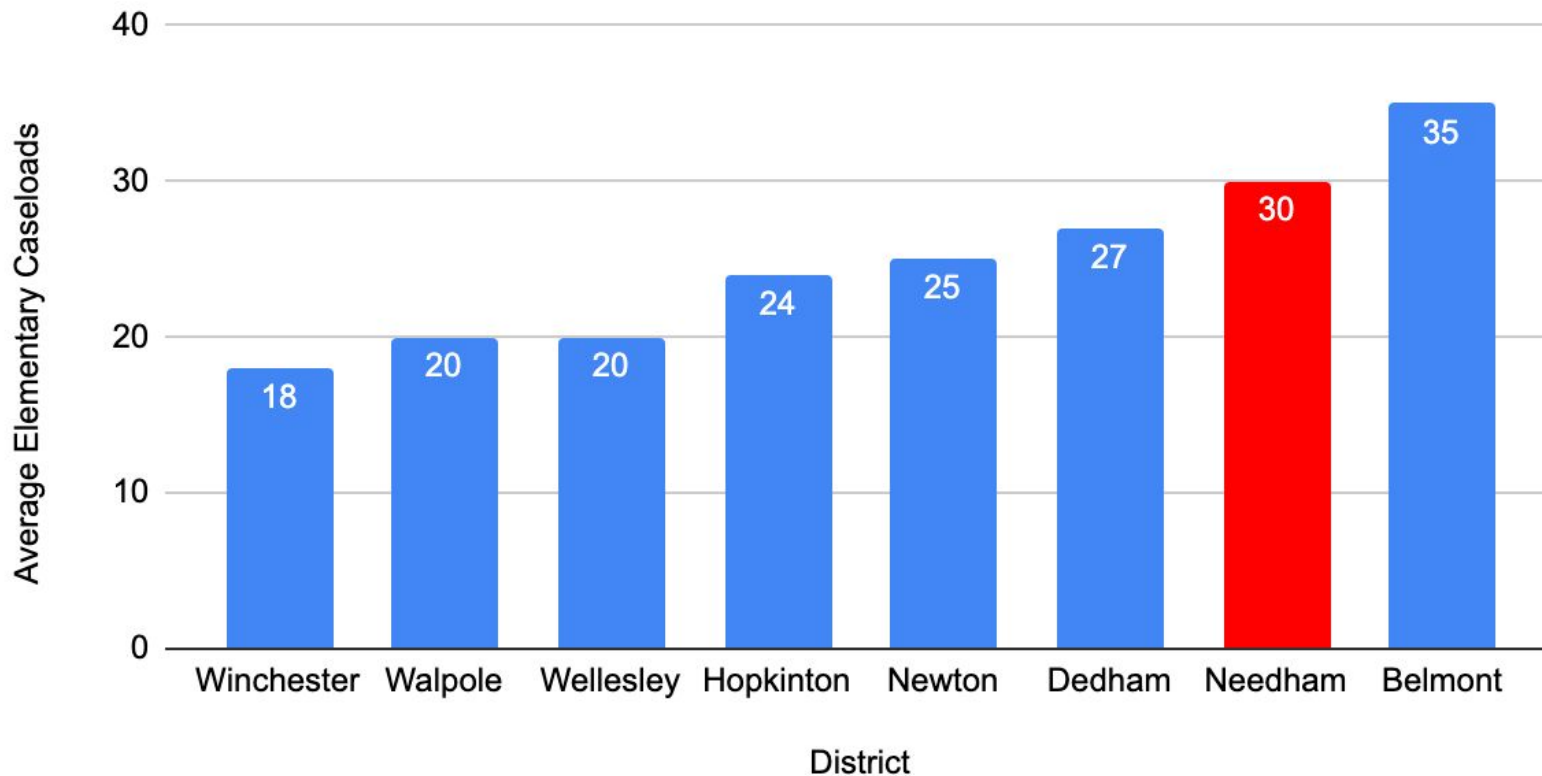
Elementary ELL Caseload Comparisons



*Based on DESE Guidance & District Comparisons

Current need: .1 ELL Teacher

District Comparison: Average Caseload for Elementary ELL Teacher



Recap of FY21 Student Support Services Needs

Drivers:

- Growing student enrollment
- Increasing number of students requiring special education, counseling, and English language instruction
- Strengthening in-district capacity to meet students' needs through a continuum of academic and social-emotional programs and services
- Addressing caseload/workload barriers to equitable inclusive education

FY21 Budget Requests- 10.19 FTE

❏ **Special Education Teachers**

2.9 Elementary Special Education Teachers

.5 Pollard Reading Teacher

❏ **.3 Special Education Coordinator**

❏ **Specialized Programs**

1.0 Middle School Autism Program SpEd Teacher

.59 Elementary Autism Program Teaching Assistant

1.0 NHS Transitions Special Education Teacher

.5 Connections Program Psychologist

❏ **Social Emotional Behavior Support**

1.0 Board Certified Behavior Analyst

1.1 School Counselors

❏ **English Language Learning (ELL)**

.1 ELL Teacher

❏ **Special Education Related Services & Support Staff**

.2 Speech Therapy Assistant

1.59 Teaching Assistants



Questions



Needham School Committee

December 17, 2019

Agenda Item: **School Committee Comments**

Background Information:

- Members of the School Committee will have an opportunity to report on events, information, and matters of interest not on the agenda.

Members of the School Committee available for comment:

Michael Greis, Chair
Andrea Longo Carter, Vice-Chair
Connie Barr
Heidi Black
Susan Neckes
Aaron Pressman
Matthew Spengler
Aidan Michelow, Student Representative member of School Committee



Needham School Committee

December 17, 2019

Agenda Item: **Information Item**

- 2019 MCAS Scores - Comparable Community Comparisons
- FY21-35 Final Enrollment Projection



December 13, 2019

To: Dan Gutekanst, Superintendent

From: Terry Duggan, Asst. Supt. For Student Learning

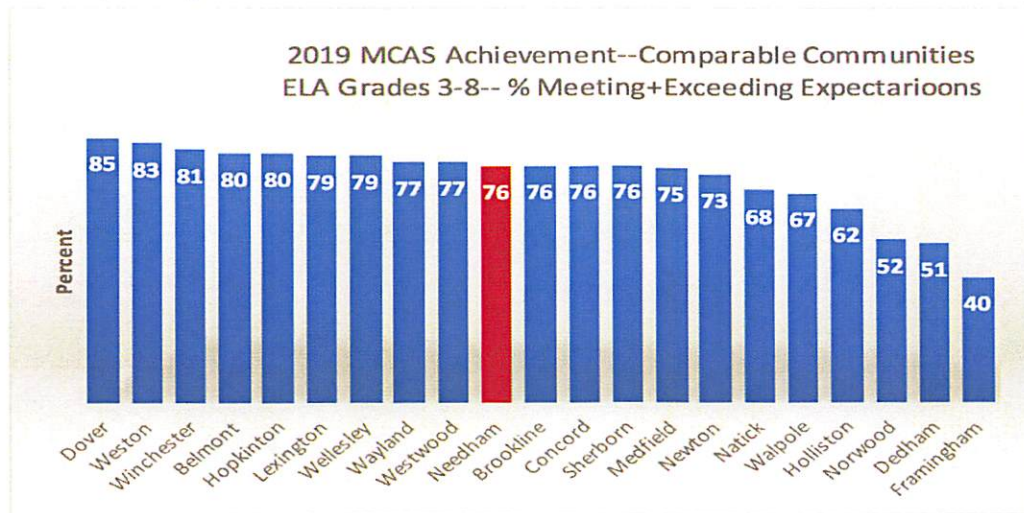
RE: 2019 MCAS Scores-Comparable Community Comparisons

Enclosed please find the data for Needham's performance on the 2019 MCAS ELA and Math tests as weighed against that of three groups of comparable communities. The comparisons included here are:

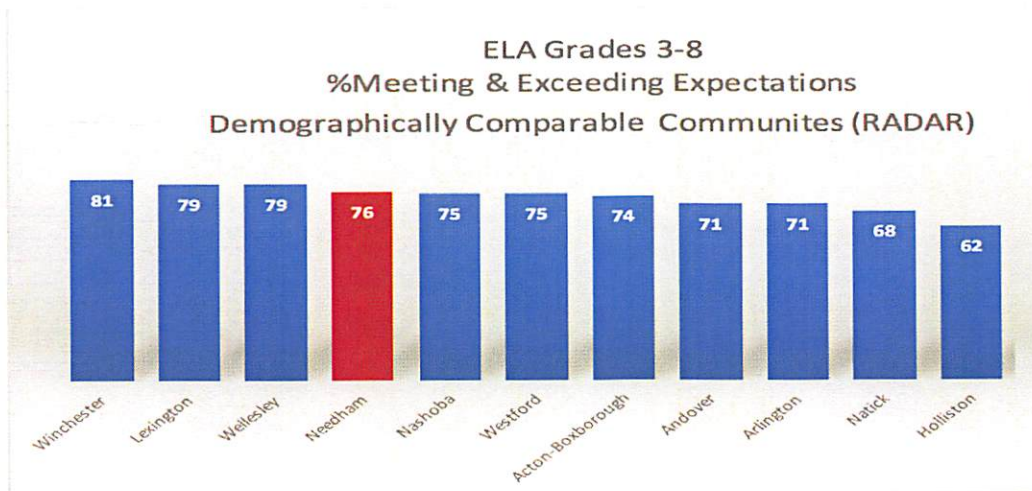
- The twenty surrounding communities that we typically use to compare ourselves to on a variety of measures
- Communities with similar demographics and similar financial resources to Needham as determined by the Commonwealth of MA comparison tool known as RADAR (Resource Allocation and District Action Reports)

Needham's performance on the 2019 ELA and math MCAS test is fairly consistent across each of these three comparison groups.

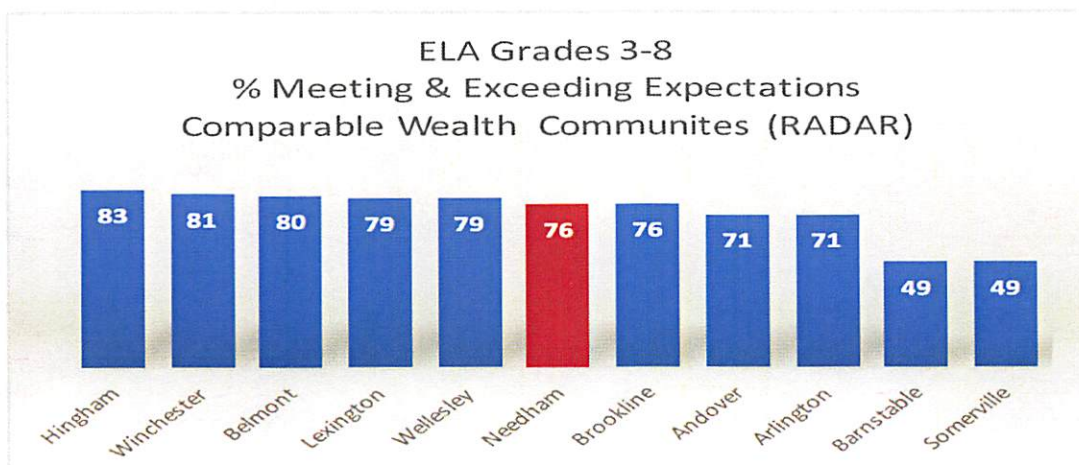
Twenty Comparable Communities-Grades 3-8-ELA



Comparable Demographic Communities Grades 3-8 ELA (RADAR)



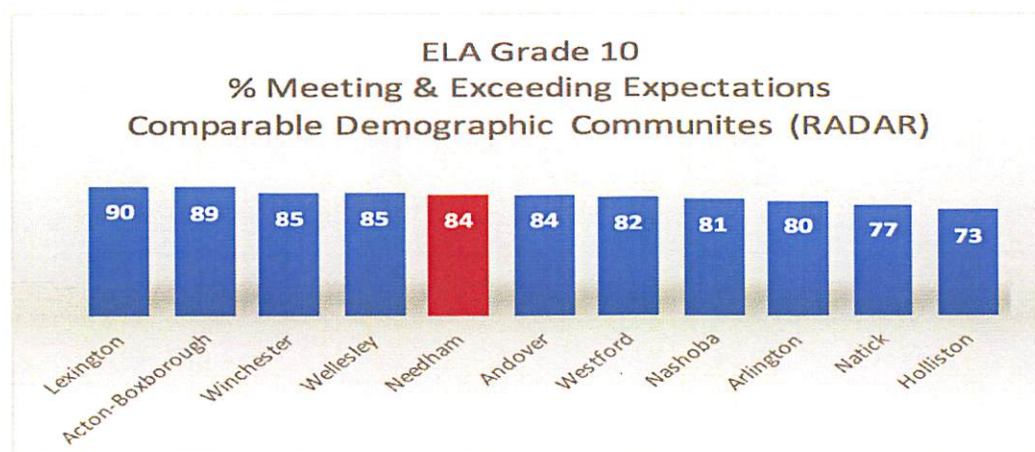
Comparable Financial Resources Grades 3-8 ELA (RADAR)



Twenty Comparable Communities-Grade 10 ELA



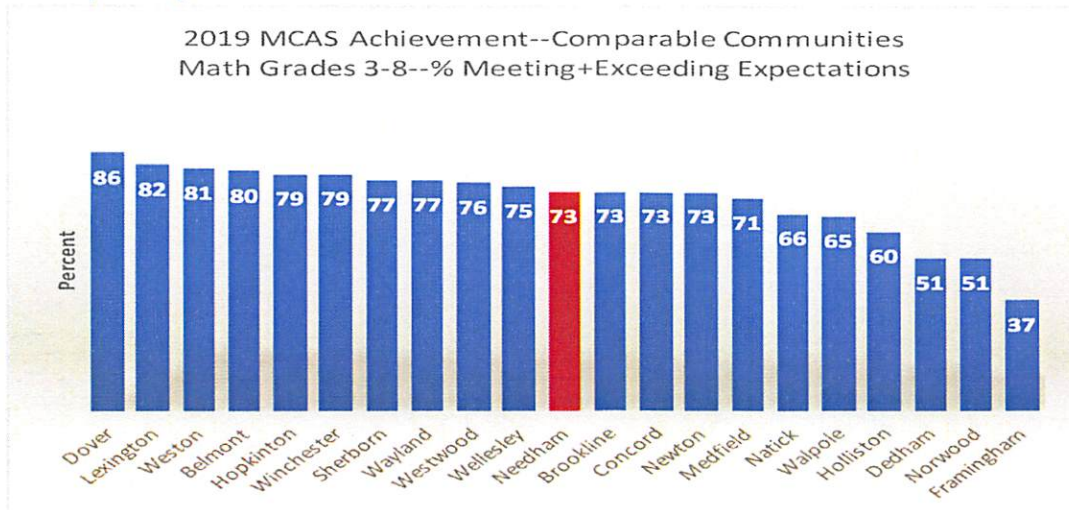
Comparable Demographic Communities Grade 10 ELA (RADAR)



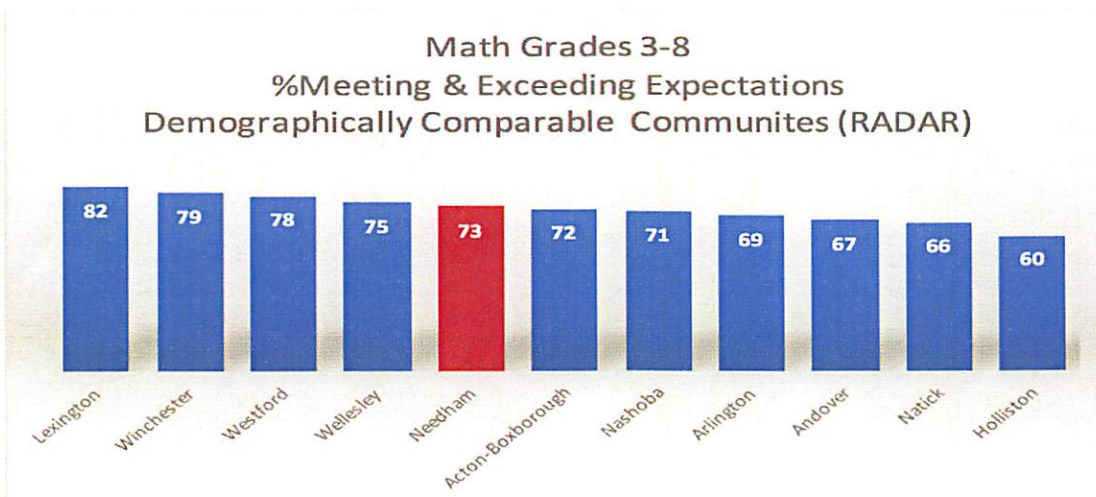
Comparable Financial Resources Grade 10 ELA (RADAR)



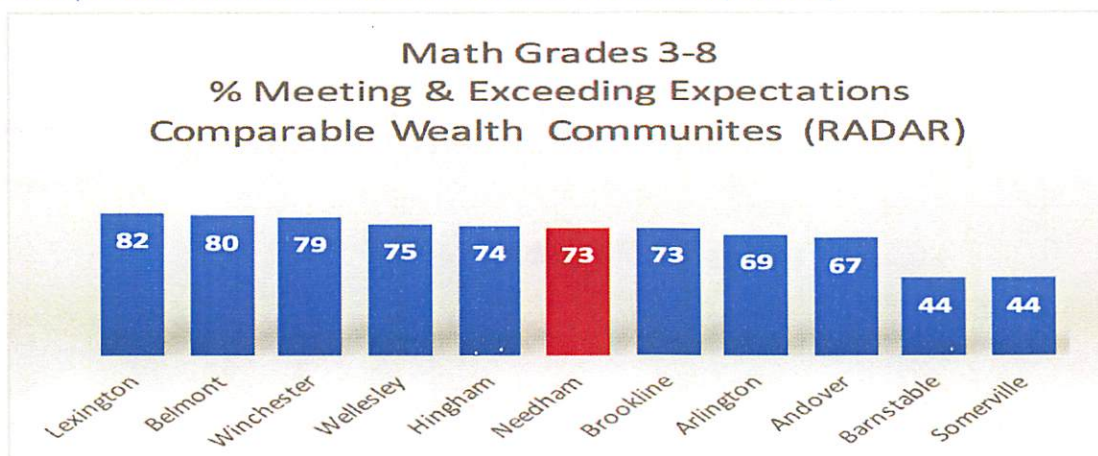
Twenty Comparable Communities-Grades 3-8-MATH



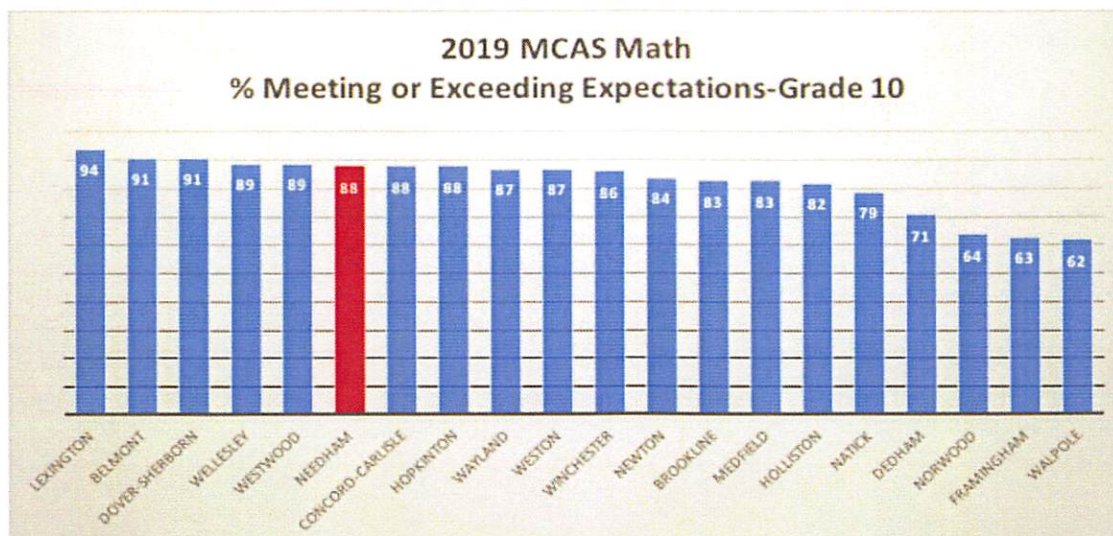
Comparable Demographic Communities Grades 3-8 MATH (RADAR)



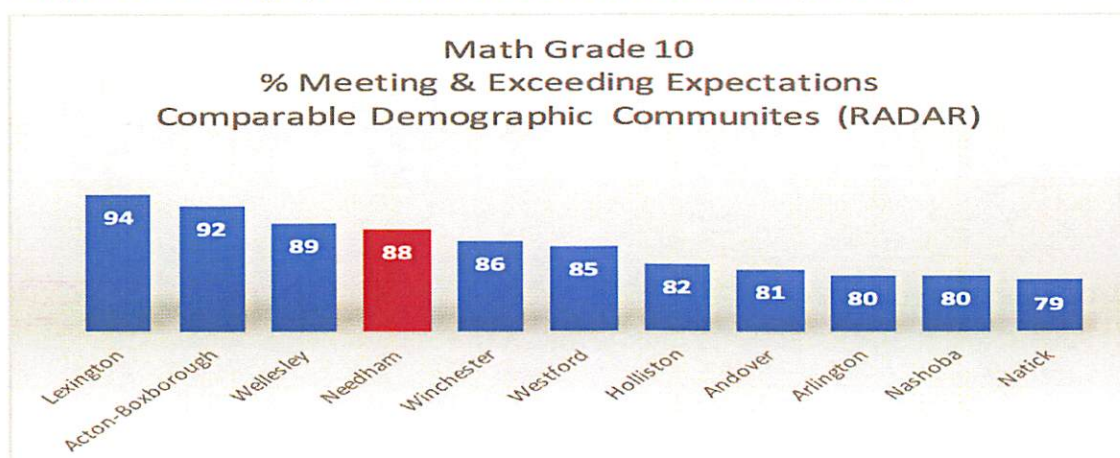
Comparable Financial Resources Grades 3-8 MATH (RADAR)



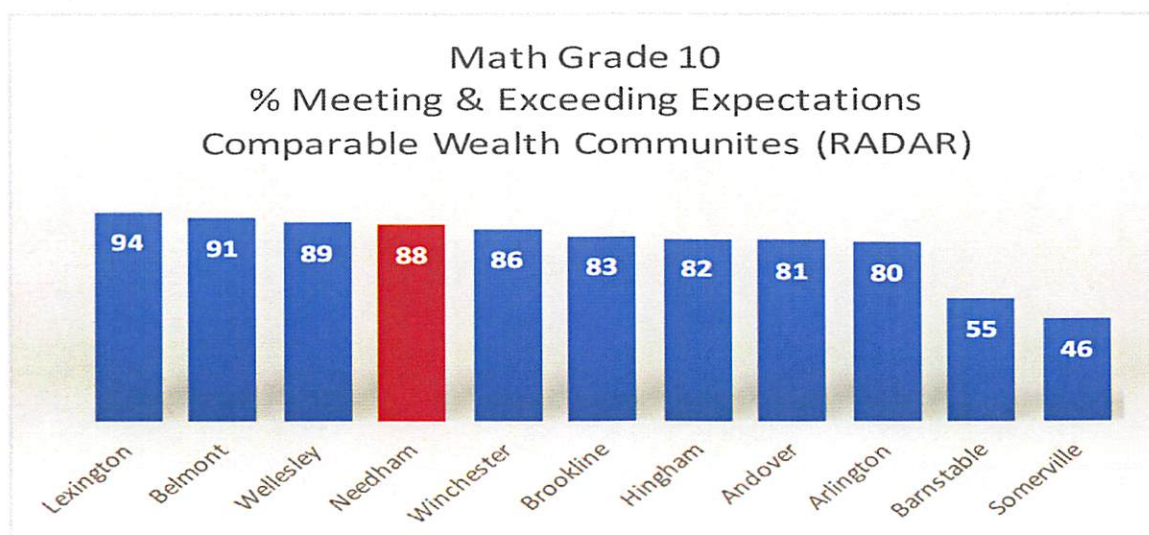
Twenty Comparable Communities-Grade 10 MATH



Comparable Demographic Communities Grade 10 MATH (RADAR)



Comparable Financial Resources Grade 10 MATH (RADAR)





NEEDHAM PUBLIC SCHOOLS

ASSISTANT SUPERINTENDENT FOR FINANCE & OPERATIONS

ANNE GULATI

1330 HIGHLAND AVENUE * NEEDHAM, MA 02492
781-455-0400 EXT. 11206 * 781-455-0417 (FAX)

December 10, 2019

To: Needham School Committee
From: Anne Gulati Director of Financial Operations
RE: FY 21-35 *Final* Enrollment Projection

Recently, McKibben Demographic Associates issued final enrollment projections for the fifteen-year period of FY 2020/21 – 2034/35. These projections update the preliminary estimates developed in November, 2019 and 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. These results reflect the official October 1, 2019 enrollment counts.

Summary of Results:

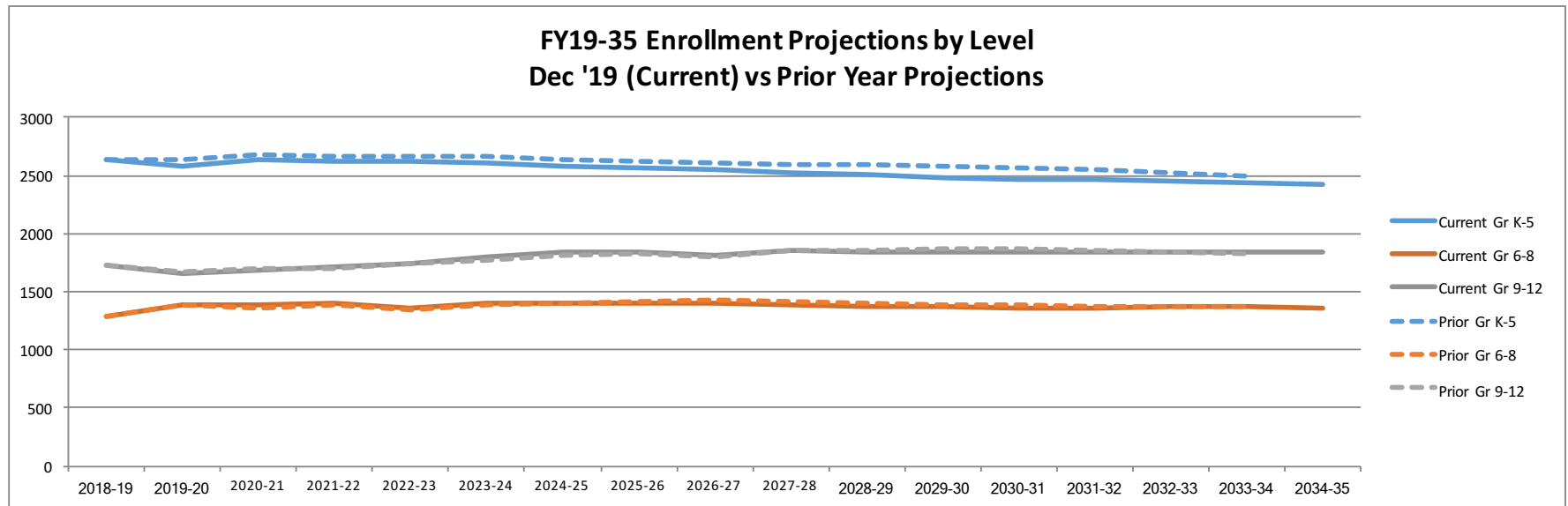
The updated results, which are depicted in the charts on the following pages, reflect the following broad observations:

- Over the next fifteen years, K-12 enrollment is projected to remain relatively flat, but decline slightly, at a rate of about (0.01%)/year (or 0.12% overall), to approximately 5,628 pupils by September 2034. This projection differs from last year, which was for slight growth overall, at a rate of about 0.06%/year (or 0.9% overall.)
- Although the long-term trend continues to be for 'level enrollment,' the short term will continue to be characterized by a rapid increase in the school population, followed by a rapid decrease in population. According to the projections, K-12 enrollment will grow from the current level of 5,635 to a peak of 5,821 students in the 2024/25 School Year, and then decline to 5,628 by 2034/35. The period where enrollment is increasing will add 186 anticipated new students to the system. During the declining enrollment period, Needham will lose an estimated 193 students.
- The K-12 enrollment projection for FY21 is for an additional 64 students, or 5,699 students overall. This projection reflects 48 more elementary students, six fewer middle students and 22 more students at Needham High School. The changes at the secondary level reflect

the current year classes moving through the system. Also noteworthy, the 2020/21 school year begins the march of high school students toward a peak Grade 9-12 enrollment of 1,860 in 2027/28.

Needham Public Schools K-12 Total Enrollment by Level: FY20-35																											
McKibben Demographics																									Cum Change FY20-35	Cum Change FY20-25	Cum Change FY25-35
Dec-19 Best Series	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	2034-35					
<u>Enrollment</u>																											
Gr K-5	2,559	2,522	2,542	2,552	2,593	2,641	2,586	2,634	2,618	2,618	2,605	2,584	2,572	2,547	2,525	2,504	2,485	2,472	2,461	2,448	2,432	2,428	(158)	(2)	(156)		
Gr 6-8	1,298	1,312	1,290	1,297	1,304	1,282	1,391	1,385	1,405	1,361	1,401	1,399	1,401	1,398	1,385	1,380	1,374	1,363	1,365	1,369	1,371	1,364	(27)	8	(35)		
Gr 9-12	1,582	1,631	1,672	1,659	1,685	1,722	1,658	1,680	1,707	1,749	1,796	1,838	1,843	1,815	1,860	1,842	1,846	1,847	1,837	1,840	1,835	1,836	178	180	(2)		
Total	5,439	5,465	5,504	5,508	5,582	5,645	5,635	5,699	5,730	5,728	5,802	5,821	5,816	5,760	5,770	5,726	5,705	5,682	5,663	5,657	5,638	5,628	(7)	186	(193)		
<u>Annual Inc/(Dec)</u>																											
Gr K-5	40	(37)	20	10	41	48	(55)	48	(16)	-	(13)	(21)	(12)	(25)	(22)	(21)	(19)	(13)	(11)	(13)	(16)	(4)					
Gr 6-8	(15)	14	(22)	7	7	(22)	109	(6)	20	(44)	40	(2)	2	(3)	(13)	(5)	(6)	(11)	2	4	2	(7)					
Gr 9-12	20	49	41	(13)	26	37	(64)	22	27	42	47	42	5	(28)	45	(18)	4	1	(10)	3	(5)	1					
Total	45	26	39	4	74	63	(10)	64	31	(2)	74	19	(5)	(56)	10	(44)	(21)	(23)	(19)	(6)	(19)	(10)					

- 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 rapidly 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 rapidly than previously anticipated, given updated assumptions around existing home sales. For the current (2019) series projections, existing home sales are held constant at a minimum of 230 per year, versus 250 in the 2018 series. According to McKibben, the past twelve months saw a decline in home sales, particularly in the Broadmeadow, Mitchell and Newman neighborhoods, as well as slightly smaller household sizes, overall. McKibben indicates that this could signal a trend toward empty nester homeowners 'staying put' longer in their homes, and deciding not to sell. Since Needham relies heavily on in-migration to maintain population, reducing the assumed rate of existing home sales is projected to lead to slower or declining enrollment growth over time.

Needham Public Schools PreK-12 Total Enrollment by Level: Current (Dec '2019) v. Prior Year (2018) Projection																									
McKibben Demographics	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	2034-35	Cum Change FY20-34	Cum Change FY20-25	Cum Change FY25-34
<u>Current (2019)</u>																									
PreK	84	82	82	80	82	83	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72		-	-	-
Gr K-5	2,559	2,522	2,542	2,552	2,593	2,641	2,586	2,634	2,618	2,618	2,605	2,584	2,572	2,547	2,525	2,504	2,485	2,472	2,461	2,448	2,432		(154)	(2)	(152)
Gr 6-8	1,298	1,312	1,290	1,297	1,304	1,282	1,391	1,385	1,405	1,361	1,401	1,399	1,401	1,398	1,385	1,380	1,374	1,363	1,365	1,369	1,371		(20)	8	(28)
Gr 9-12	1,582	1,631	1,672	1,659	1,685	1,722	1,658	1,680	1,707	1,749	1,796	1,838	1,843	1,815	1,860	1,842	1,846	1,847	1,837	1,840	1,835		177	180	(3)
PreK-Total	5,523	5,547	5,586	5,588	5,664	5,728	5,707	5,771	5,802	5,800	5,874	5,893	5,888	5,832	5,842	5,798	5,777	5,754	5,735	5,729	5,710		3	186	(183)
<u>Prior (2018)</u>																									
PreK	84	82	82	80	82	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83		-	-	-
Gr K-5	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		(141)	7	(148)
Gr 6-8	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		(7)	19	(26)
Gr 9-12	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		158	138	20
PreK-Total	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		10	164	(154)
<u>Variance</u>																									
PreK	-	-	-	-	-	-	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)	(11)				
Gr 1-5	-	-	-	-	-	-	(47)	(41)	(43)	(49)	(58)	(56)	(47)	(59)	(72)	(92)	(102)	(97)	(86)	(70)	(60)				
Gr 6-8	-	-	-	-	-	-	10	23	16	15	10	(1)	(19)	(30)	(24)	(17)	(11)	(22)	(14)	(10)	(3)				
Gr 9-12	-	-	-	-	-	-	(12)	(13)	5	3	27	30	19	18	4	(17)	(28)	(27)	(20)	-	7				
PreK-Total	-	-	-	-	-	-	(60)	(42)	(33)	(42)	(32)	(38)	(58)	(82)	(103)	(137)	(152)	(157)	(131)	(91)	(67)				

- The 'best' enrollment projection also reflects the impact of the two newly-built residential housing complexes in Needham: the Modera (at 700 Greendale Avenue in the Broadmeadow District) and the Kendrick (at 275 2nd Avenue in the Eliot District.) According to the leasing offices at both locations, the Modera fully opened for occupancy in January 2019 and is now 87% occupied, while the Kendrick fully opened for occupancy in July 2018 and is now 50% occupied. In addition, the 'best' projection includes a new 16-unit housing complex under Town review, at 1180 Great Plan Avenue, in the Newman district. This development would convert a retirement home to eight one-bedroom units and eight two-bedroom units. (This unit is projected to come on line and generate students in 2023.) These new developments are incorporated into the 'best' enrollment projections. Given the fact that both the Kendrick and Modera fully opened for

occupancy later than McKibben had originally anticipated (in July 2017), the full enrollment impact of these two developments is now extended to 2024/25.

Variance Between Preliminary (Nov '19) and Final (Dec '19) Enrollment Projections:

Needham Public Schools PreK-12 Total Enrollment by Level: Final (Dec '19) 2019 v Preliminary 2019 (Nov '19) Projections																									
McKibben Demographics	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	2034-35	Cum Change FY20-35	Cum Change FY20-25	Cum Change FY25-35
<u>Final (2019)</u>																									
PreK	84	82	82	80	82	83	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	-	-	-
Gr K-5	2,559	2,522	2,542	2,552	2,593	2,641	2,586	2,634	2,618	2,618	2,605	2,584	2,572	2,547	2,525	2,504	2,485	2,472	2,461	2,448	2,432	2,428	(158)	(2)	(156)
Gr 6-8	1,298	1,312	1,290	1,297	1,304	1,282	1,391	1,385	1,405	1,361	1,401	1,399	1,401	1,398	1,385	1,380	1,374	1,363	1,365	1,369	1,371	1,364	(27)	8	(35)
Gr 9-12	1,582	1,631	1,672	1,659	1,685	1,722	1,658	1,680	1,707	1,749	1,796	1,838	1,843	1,815	1,860	1,842	1,846	1,847	1,837	1,840	1,835	1,836	178	180	(2)
PreK-Total	5,523	5,547	5,586	5,588	5,664	5,728	5,707	5,771	5,802	5,800	5,874	5,893	5,888	5,832	5,842	5,798	5,777	5,754	5,735	5,729	5,710	5,700	(7)	186	(193)
<u>Preliminary (2019)</u>																									
PreK	84	82	82	80	82	83	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	-	-	-
Gr K-5	2,559	2,522	2,542	2,552	2,593	2,641	2,587	2,634	2,618	2,618	2,605	2,584	2,572	2,547	2,525	2,504	2,485	2,472	2,461	2,448	2,432	2428	(159)	(3)	(156)
Gr 6-8	1,298	1,312	1,290	1,297	1,304	1,282	1,392	1,385	1,405	1,361	1,401	1,399	1,401	1,398	1,385	1,380	1,374	1,363	1,365	1,369	1,371	1364	(28)	7	(35)
Gr 9-12	1,582	1,631	1,672	1,659	1,685	1,722	1,663	1,684	1,711	1,753	1,800	1,841	1,846	1,818	1,863	1,845	1,849	1,850	1,840	1,843	1,838	1839	176	178	(2)
PreK-Total	5,523	5,547	5,586	5,588	5,664	5,728	5,717	5,778	5,809	5,807	5,881	5,899	5,894	5,838	5,848	5,804	5,783	5,760	5,741	5,735	5,716	5,706	(11)	182	(193)
<u>Variance</u>																									
PreK	-	-	-	-	-	-	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)			
Gr 1-5	-	-	-	-	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Gr 6-8	-	-	-	-	-	-	(1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Gr 9-12	-	-	-	-	-	-	(5)	(4)	(4)	(4)	(4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)			
PreK-Total	-	-	-	-	-	-	(10)	(7)	(7)	(7)	(7)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)			

The final projections have been updated to reflect the official October 1, 2019 enrollment projections. The two series are virtually identical, with minor adjustments only to the count of preschool and post-graduate special education students receiving services through Needham High School.

Best - Low - High Projections:

Needham Public Schools PreK-12 Total Enrollment, Dec '19: LOW - BEST - HIGH Projection																						
McKibben Demographics Dec-19 Projections	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	2034-35
LOW SERIES	5,523	5,547	5,586	5,588	5,664	5,728	5,707	5,771	5,802	5,800	5,872	5,888	5,880	5,821	5,830	5,785	5,764	5,743	5,725	5,721	5,705	5,698
BEST SERIES	5,523	5,547	5,586	5,588	5,664	5,728	5,707	5,771	5,802	5,800	5,874	5,893	5,888	5,832	5,842	5,798	5,777	5,754	5,735	5,729	5,710	5,700
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	2	5	8	11	12	13	13	11	10	8	5	2
HIGH SERIES	5,523	5,547	5,586	5,588	5,664	5,728	5,707	5,771	5,802	5,800	5,874	5,893	5,891	5,851	5,872	5,841	5,834	5,823	5,809	5,807	5,790	5,777
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	3	19	30	43	57	69	74	78	80	77
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	2	5	11	30	42	56	70	80	84	86	85	79

- Consistent with the parameters developed with the Future School Needs Committee, the aforementioned enrollment projection represents a 'best' estimate, which includes only new development that is either under construction or at the review/permitting stage. These new developments include the existing Modera and Kendrick complexes, as well as the 1180 Great Plain project that is currently under review. The low projection, by contrast, includes only existing residential units (including the Kendrick and Modera), and excludes projects not yet built (such as 1180 Great Plain.) The high projection, by contrast, includes all existing and prospective development, including development that is at the conceptual planning stage, such as the 250-unit planned Residential Overlay project in the Eliot neighborhood.
- The above table compares the best, low and high projection series.

Individual School District Projections:

- The district and individual school detail results are presented on the following pages. The school-age population in the Broadmeadow district reflects the (delayed) impact of additional students coming from the Modera development, as well as a slowdown in existing home sales, compared to last year. The Eliot School enrollment reflects the (also delayed) impact of the Kendrick development. The Williams and Mitchell Schools continue previous trends, with a slowdown in existing home sales projected at Mitchell. The Newman projection includes the potential new 1180 Great Plain development, offset by fewer existing home sales. The secondary school projections reflect the impact of existing students moving through the system.

Study Assumptions:

The preliminary projections are based the following general assumptions:

1. The provisional and final 'best' population estimates are based on existing and new development, which is either under construction or at the review/ permitting stage (permitted or about to be permitted.) The 'high' forecast includes additional prospective development in the conceptual planning stages. The 'low' forecast includes only existing housing units.
2. Method of analysis remains cohort-component method of population forecasting.
3. Assumed student generation rates from new development: 1-bdrm: 0 students/ unit; 2-bdrm: 0.1 students/unit; 3-bdrm: 0.15 students/unit.
4. Economic parameters assumed over the life of the forecast: 30-year fixed mortgage interest rate stays below 5%, the metro area unemployment rate stays below 4.5%, existing home sales held constant at a minimum of 230 per year.
5. New development:
 - a. Modera: Opened Jan 2019, Brodmeadow District. 136 Units: 19 1-bedroom, 103 2-bedroom, 14 3-bedroom. Total of 62 students projected over the six-year period FY20-25. Existing construction.
 - b. Kendrick: Opened July 2019, Eliot District. 390 Units: 202 1-bedroom, 149 2-bedroom, 39 3-bedroom. Total of 124.5 students projected over the six-year period FY20-25. Existing construction.
 - c. 1180 Great Plan: 16 Units: 8 1-bedroom, 8 2-bedroom. Total of 8 students projected FY24-FY27. Under Town review.
 - d. Residential Overlay: 250 Units: 125 1-bedroom, 100 2-bedroom, 25 3-bedroom. Total of 82.5 students projected over the six-year period FY26-31. Conceptual development.

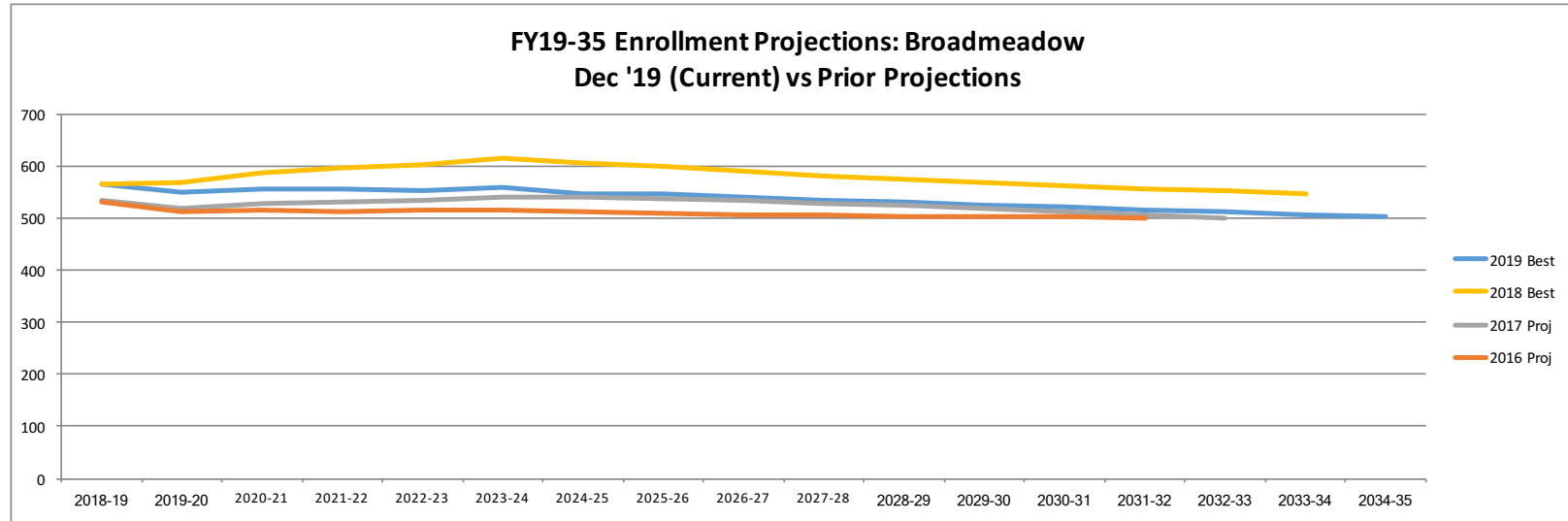
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Attachment(s)

Needham Public Schools Total Summary

DISTRICT McKibben "Best" FINAL Dec '19	Needham Public Schools Total Enrollment																					
	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	2034-35
PK	84	82	82	80	82	83	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
K	406	365	404	369	404	412	390	410	408	404	402	398	395	390	387	382	383	378	376	373	371	380
1	441	449	387	433	411	430	436	420	423	421	417	414	409	406	401	398	392	390	385	383	380	378
2	419	444	471	397	448	434	441	448	433	435	433	429	426	420	418	413	411	406	406	401	399	396
3	413	416	450	473	396	460	434	448	455	439	443	442	438	436	431	429	424	423	420	420	414	412
4	444	409	415	455	481	413	463	440	454	460	445	449	448	442	441	435	435	432	432	429	429	423
5	436	439	415	425	453	492	422	468	445	459	465	452	456	453	447	447	440	443	442	442	439	439
Total: K-5	2,559	2,522	2,542	2,552	2,593	2,641	2,586	2,634	2,618	2,618	2,605	2,584	2,572	2,547	2,525	2,504	2,485	2,472	2,461	2,448	2,432	2,428
6	427	451	451	421	450	450	499	430	477	454	470	477	463	467	464	458	458	453	456	455	455	452
7	467	404	439	445	408	440	460	504	434	482	459	468	475	461	465	462	456	456	455	461	457	457
8	404	457	400	431	446	392	432	451	494	425	472	454	463	470	456	460	460	454	454	453	459	455
Total: 7-8	871	861	839	876	854	832	892	955	928	907	931	922	938	931	921	922	916	910	909	914	916	912
9	414	400	449	416	435	450	380	436	456	499	429	479	461	470	477	461	465	465	461	461	460	466
10	417	418	396	446	414	428	453	376	432	451	494	425	474	456	465	472	456	463	463	459	459	458
11	382	416	407	396	441	404	421	448	372	428	446	489	421	469	451	460	467	454	461	461	457	457
12	363	389	412	401	395	436	401	417	444	368	424	442	484	417	464	446	455	462	449	456	456	452
SP	6	8	8	0	0	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total: 9-12	1,582	1,631	1,672	1,659	1,685	1,722	1,658	1,680	1,707	1,749	1,796	1,838	1,843	1,815	1,860	1,842	1,846	1,847	1,837	1,840	1,835	1,836
Total: K-12	5,439	5,465	5,504	5,508	5,582	5,645	5,635	5,699	5,730	5,728	5,802	5,821	5,816	5,760	5,770	5,726	5,705	5,682	5,663	5,657	5,638	5,628
Total PreK-12	5,523	5,547	5,586	5,588	5,664	5,728	5,707	5,771	5,802	5,800	5,874	5,893	5,888	5,832	5,842	5,798	5,777	5,754	5,735	5,729	5,710	5,700
Change	47	24	39	2	76	64	-21	64	31	-2	74	19	-5	-56	10	-44	-21	-23	-19	-6	-19	-10
% Change	0.9%	0.4%	0.7%	0.0%	1.4%	1.1%	-0.4%	1.1%	0.5%	0.0%	1.3%	0.3%	-0.1%	-1.0%	0.2%	-0.8%	-0.4%	-0.4%	-0.3%	-0.1%	-0.3%	-0.2%

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Broadmeadow Elementary



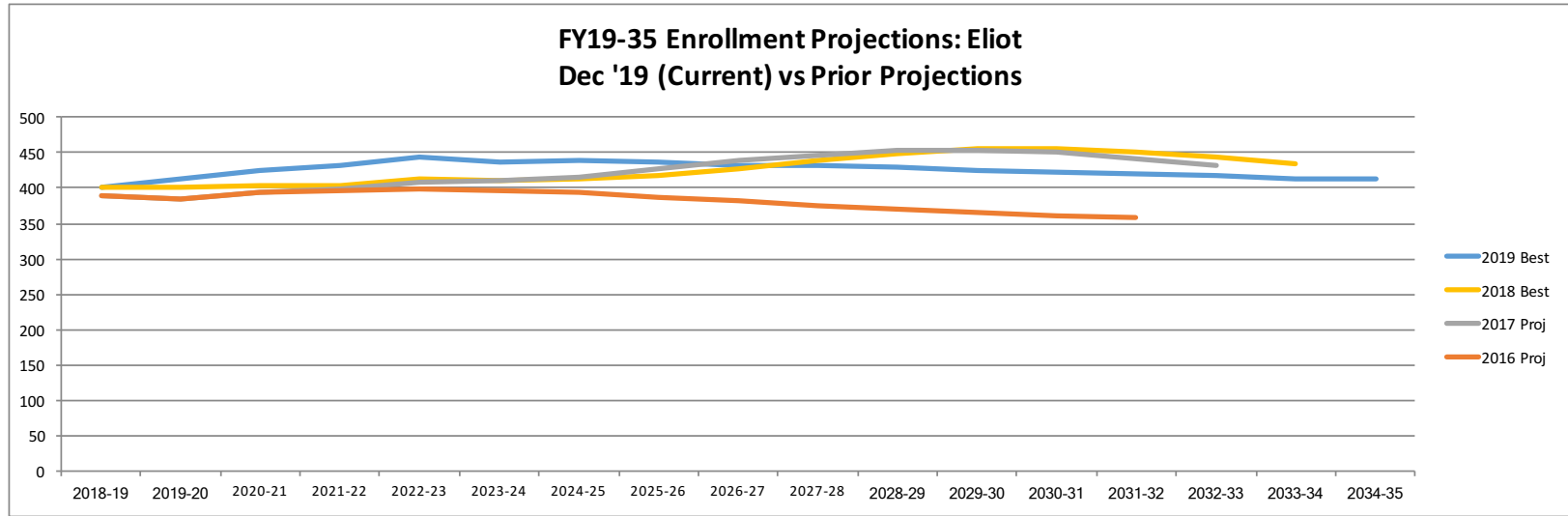
BROADMEADOW McKibben "Best" FINAL Dec '19

	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	2034-35
K	84	76	81	71	71	97	77	86	86	85	84	84	83	82	81	80	79	79	78	78	77	78
1	108	104	83	89	85	83	102	86	89	89	88	87	87	86	85	84	82	81	81	80	80	79
2	92	106	107	84	90	95	84	105	89	92	92	91	90	90	89	88	87	84	84	84	83	83
3	94	93	104	110	85	96	95	86	107	91	95	95	94	94	94	93	92	90	88	88	87	86
4	120	89	91	107	106	86	97	96	87	108	92	96	96	93	93	93	92	93	91	89	89	88
5	87	113	92	92	106	109	93	98	97	88	109	93	97	95	92	92	92	93	94	92	90	90
Total K-5	585	581	558	553	543	566	548	557	555	553	560	546	547	540	534	530	524	520	516	511	506	504
Change	-3	-4	-23	-5	-10	23	-18	9	-2	-2	7	-14	1	-7	-6	-4	-6	-4	-4	-5	-5	-2
% Change	-0.5%	-0.7%	-4.0%	-0.9%	-1.8%	4.2%	-3.2%	1.6%	-0.4%	-0.4%	1.3%	-2.5%	0.2%	-1.3%	-1.1%	-0.7%	-1.1%	-0.8%	-0.8%	-1.0%	-1.0%	-0.4%

McKibben FINAL Dec '19	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	2034-35
Low	585	581	558	553	543	566	548	557	555	553	560	546	547	540	534	530	524	520	516	511	506	504
Best	585	581	558	553	543	566	548	557	555	553	560	546	547	540	534	530	524	520	516	511	506	504
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High	585	581	558	553	543	566	548	557	555	553	560	546	547	540	534	530	524	520	516	511	506	504
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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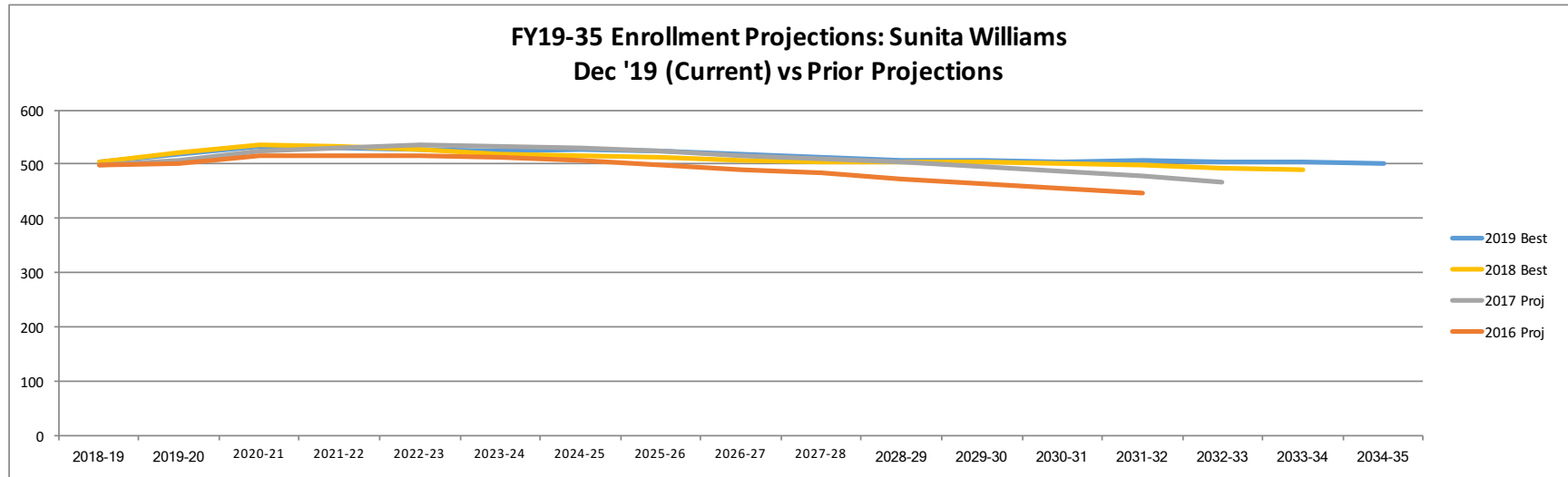
Eliot Elementary



ELIOT McKibben "Best" FINAL Dec '19																						
	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	2034-35
K	58	57	61	57	64	60	64	70	70	69	69	69	69	68	67	66	65	64	64	63	63	65
1	65	67	61	64	58	70	67	71	72	72	71	71	70	70	69	68	67	66	65	65	64	64
2	67	71	73	57	65	59	75	70	74	74	73	72	72	71	72	71	70	70	69	68	68	67
3	61	63	72	73	57	68	61	77	72	75	75	74	73	73	73	74	73	72	72	71	70	70
4	62	67	63	74	75	69	73	63	79	73	76	76	75	74	75	74	75	74	74	74	73	72
5	74	65	65	67	74	76	72	74	64	80	74	77	77	76	75	77	75	77	76	76	76	75
Total: K-5	387	390	395	392	393	402	412	425	431	443	438	439	436	432	431	430	425	423	420	417	414	413
Change	0	3	5	-3	1	9	10	13	6	12	-5	1	-3	-4	-1	-1	-5	-2	-3	-3	-3	-1
% Change	0.0%	0.8%	1.3%	-0.8%	0.3%	2.3%	2.5%	3.2%	1.4%	2.8%	-1.1%	0.2%	-0.7%	-0.9%	-0.2%	-0.2%	-1.2%	-0.5%	-0.7%	-0.7%	-0.7%	-0.2%
McKibben																						
FINAL Dec '19	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	2034-35
Low	387	390	395	392	393	402	412	425	431	443	438	439	436	432	431	430	425	423	420	417	414	413
Best	387	390	395	392	393	402	412	425	431	443	438	439	436	432	431	430	425	423	420	417	414	413
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High	387	390	395	392	393	402	412	425	431	443	438	439	439	451	460	469	475	478	471	461	451	442
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	3	19	29	39	50	55	51	44	37	29
													3	16	10	10	11	5	(4)	(7)	(7)	(8)

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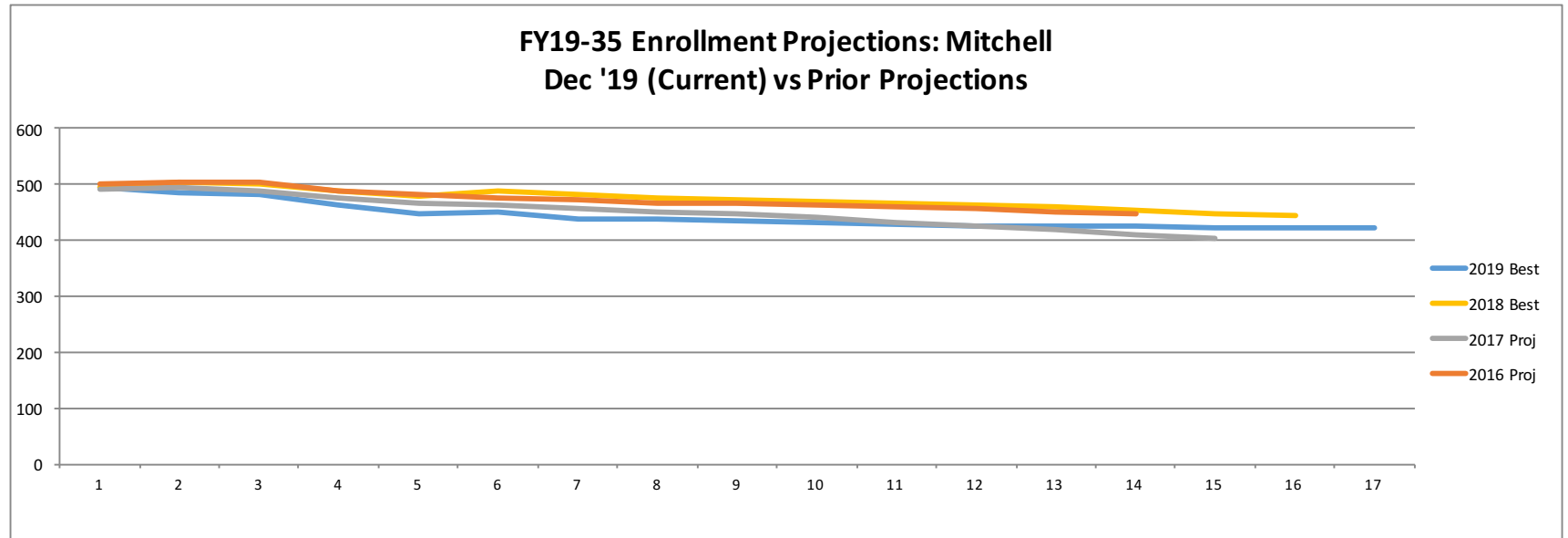
Williams Elementary



WILLIAMS McKibben "Best" FINAL Dec '19																						
	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	2034-35
K	71	57	82	76	83	76	83	83	82	82	82	81	80	79	79	78	78	77	77	76	76	77
1	73	79	62	82	82	86	80	87	86	85	85	84	83	82	81	81	80	80	79	79	78	78
2	72	75	88	71	85	90	92	83	90	89	88	88	87	85	84	83	84	83	83	82	82	81
3	73	72	80	87	72	88	93	93	84	91	90	90	90	89	87	86	85	86	86	86	85	85
4	59	76	76	79	86	76	92	94	94	85	92	91	91	91	90	88	89	88	89	89	89	88
5	81	62	77	77	79	87	78	93	95	95	86	94	93	93	93	92	90	91	92	93	93	93
Total: K-5	429	421	465	472	487	503	518	533	531	527	523	528	524	519	514	508	506	505	506	505	503	502
Change	10	-8	44	7	15	16	15	15	-2	-4	-4	5	-4	-5	-5	-6	-2	-1	1	-1	-2	-1
% Change	2.4%	-1.9%	10.5%	1.5%	3.2%	3.3%	3.0%	2.9%	-0.4%	-0.8%	-0.8%	1.0%	-0.8%	-1.0%	-1.0%	-1.2%	-0.4%	-0.2%	0.2%	-0.2%	-0.4%	-0.2%
McKibben FINAL Dec '19																						
	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	2034-35
Low	429	421	465	472	487	503	518	533	531	527	523	528	524	519	514	508	506	505	506	505	503	502
Best Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High Inc/(Dec) Over Best	429	421	465	472	487	503	518	533	531	527	523	528	524	519	514	508	506	505	506	505	503	502
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

A SCHOOL AND COMMUNITY PARTNERSHIP THAT
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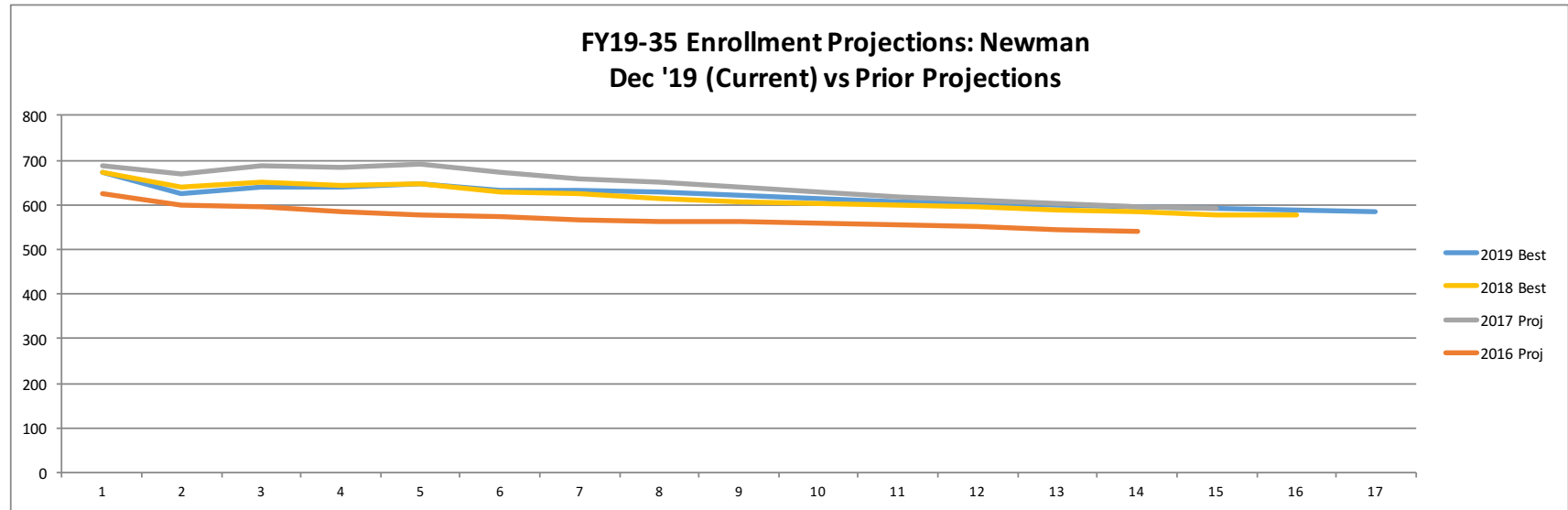
Mitchell Elementary



MITCHELL																						
McKibben "Best"																						
FINAL Dec '19	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	2034-35
K	74	78	82	77	68	78	65	70	70	69	69	68	68	67	67	66	67	66	66	65	65	68
1	88	75	79	91	85	69	83	71	72	72	71	71	70	70	69	69	68	68	67	67	66	66
2	79	86	79	82	92	88	70	85	72	73	74	73	73	72	72	71	71	71	71	70	70	69
3	87	78	89	80	84	94	88	71	86	73	74	75	74	74	73	73	72	73	73	73	72	72
4	88	87	78	89	79	86	94	89	72	87	74	75	76	75	75	74	74	73	74	74	74	73
5	82	86	86	76	90	81	84	95	90	73	88	75	76	77	76	76	75	75	74	75	75	75
Total K-5	498	490	493	495	498	496	484	481	462	447	450	437	437	435	432	429	427	426	425	424	422	423
Change	3	-8	3	2	3	-2	-12	-3	-19	-15	3	-13	0	-2	-3	-3	-2	-1	-1	-1	-2	1
% Change	0.6%	-1.6%	0.6%	0.4%	0.6%	-0.4%	-2.4%	-0.6%	-4.0%	-3.2%	0.7%	-2.9%	0.0%	-0.5%	-0.7%	-0.7%	-0.5%	-0.2%	-0.2%	-0.2%	-0.5%	0.2%
McKibben																						
FINAL Dec '19	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	2034-35
Low	498	490	493	495	498	496	484	481	462	447	450	437	437	435	432	429	427	426	425	424	422	423
Best	498	490	493	495	498	496	484	481	462	447	450	437	437	435	432	429	427	426	425	424	422	423
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
High	498	490	493	495	498	496	484	481	462	447	450	437	437	435	432	429	427	426	425	424	422	423
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Newman Elementary

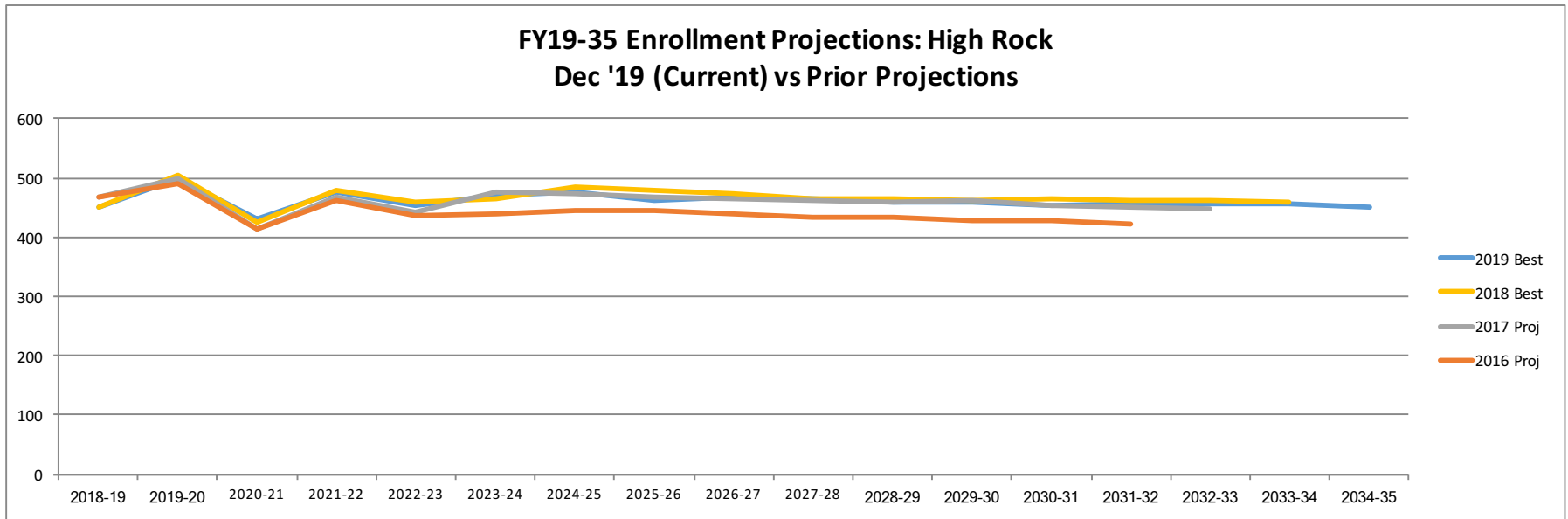


NEWMAN McKibben "Best"																						
FINAL Dec '19	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
K	119	97	98	88	118	101	101	101	100	99	98	96	95	94	93	92	94	92	91	91	90	92
1	107	124	102	107	101	122	104	105	104	103	102	101	99	98	97	96	95	95	93	92	92	91
2	109	106	124	103	116	102	120	105	108	107	106	105	104	102	101	100	99	98	99	97	96	96
3	98	110	105	123	98	114	97	121	106	109	109	108	107	106	104	103	102	102	101	102	100	99
4	115	90	107	106	135	96	107	98	122	107	111	111	110	109	108	106	105	104	104	103	104	102
5	112	113	95	113	104	139	95	108	99	123	108	113	113	112	111	110	108	107	106	106	105	106
Total K-5	660	640	631	640	672	674	624	638	639	648	634	634	628	621	614	607	603	598	594	591	587	586
Change	30	-20	-9	9	32	2	-50	14	1	9	-14	0	-6	-7	-7	-7	-4	-5	-4	-3	-4	-1
% Change	4.8%	-3.0%	-1.4%	1.4%	5.0%	0.3%	-7.4%	2.2%	0.2%	1.4%	-2.2%	0.0%	-0.9%	-1.1%	-1.1%	-1.1%	-0.7%	-0.8%	-0.7%	-0.5%	-0.7%	-0.2%

McKibben																						
FINAL Dec '19	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	2034-35
Low	660	640	631	640	672	674	624	638	639	648	632	629	621	613	607	602	600	597	594	591	587	585
Best	660	640	631	640	672	674	624	638	639	648	634	634	628	621	614	607	603	598	594	591	587	586
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	2	5	7	8	7	5	3	1	-	-	-	1
High	660	640	631	640	672	674	624	638	639	648	634	634	628	621	614	607	603	598	594	591	587	586
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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High Rock Middle

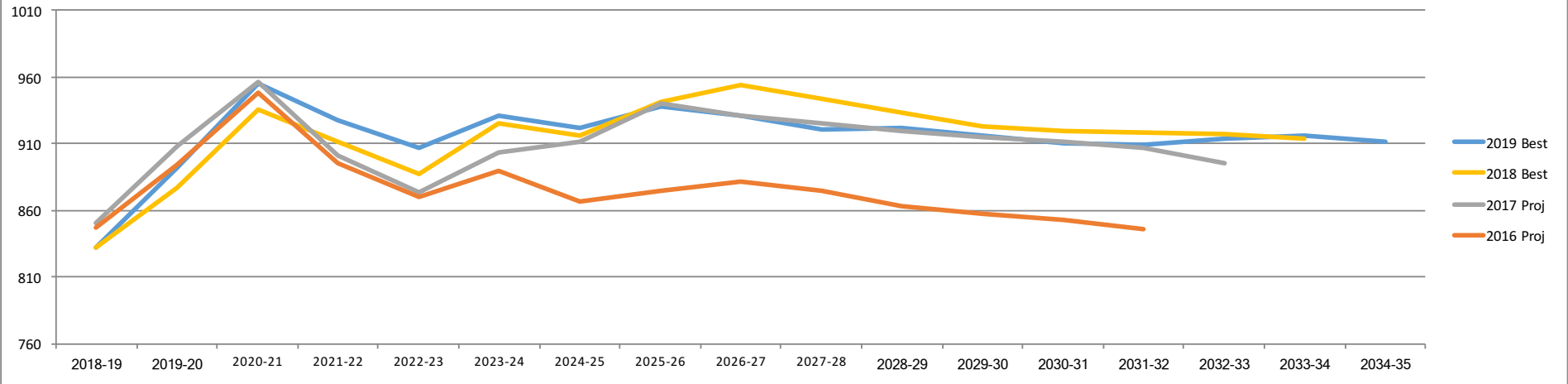


HIGH ROCK McKibben "Best" FINAL Dec '19																						
	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
6	427	451	451	421	450	450	499	430	477	454	470	477	463	467	464	458	458	453	456	455	455	452
Total: 6	427	451	451	421	450	450	499	430	477	454	470	477	463	467	464	458	458	453	456	455	455	452
Change	-55	24	0	-30	29	0	49	-69	47	-23	16	7	-14	4	-3	-6	0	-5	3	-1	0	-3
% Change	-11.4%	5.6%	0.0%	-6.7%	6.9%	0.0%	10.9%	-13.8%	10.9%	-4.8%	3.5%	1.5%	-2.9%	0.9%	-0.6%	-1.3%	0.0%	-1.1%	0.7%	-0.2%	0.0%	-0.7%
McKibben FINAL Dec '19																						
	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	2034-35
Low	427	451	451	421	450	450	499	430	477	454	470	477	462	465	462	455	456	453	456	456	456	454
Best	427	451	451	421	450	450	499	430	477	454	470	477	463	467	464	458	458	453	456	455	455	452
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	3	2	-	-	(1)	(1)	(2)
High	427	451	451	421	450	450	499	430	477	454	470	477	463	467	465	461	461	460	465	466	464	458
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	7	9	11	9	6

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Pollard Middle

FY19-35 Enrollment Projections: Pollard Dec '19 (Current) vs Prior Projections

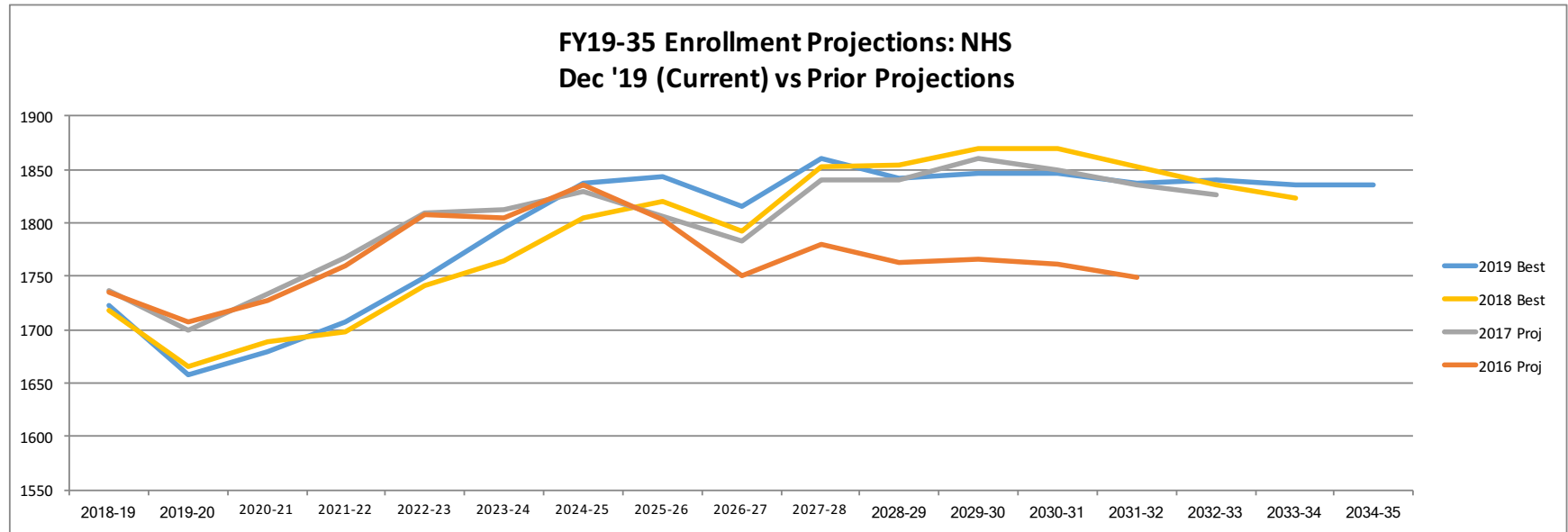


POLLARD McKibben "Best"																						
FINAL Dec '19	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
7	467	404	439	445	408	440	460	504	434	482	459	468	475	461	465	462	456	456	455	461	457	457
8	404	457	400	431	446	392	432	451	494	425	472	454	463	470	456	460	460	454	454	453	459	455
Total: 7-8	871	861	839	876	854	832	892	955	928	907	931	922	938	931	921	922	916	910	909	914	916	912
Change	40	-10	-22	37	-22	-22	60	63	-27	-21	24	-9	16	-7	-10	1	-6	-6	-1	5	2	-4
% Change	4.8%	-1.1%	-2.6%	4.4%	-2.5%	-2.6%	7.2%	7.1%	-2.8%	-2.3%	2.6%	-1.0%	1.7%	-0.7%	-1.1%	0.1%	-0.7%	-0.7%	-0.1%	0.6%	0.2%	-0.4%

McKibben																						
FINAL Dec '19	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	2034-35
Low	871	861	839	876	854	832	892	955	928	907	931	922	938	930	918	918	911	905	907	914	917	914
Best	871	861	839	876	854	832	892	955	928	907	931	922	938	931	921	922	916	910	909	914	916	912
Inc/(Dec) Over Low	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4	5	5	2	-	(1)	(2)
High	871	861	839	876	854	832	892	955	928	907	931	922	938	931	921	923	920	916	919	930	936	932
Inc/(Dec) Over Best	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	6	10	16	20	20

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Needham High



NHS																						
McKibben "Best"																						
FINAL Dec '19	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	2034-35
9	414	400	449	416	435	450	380	436	456	499	429	479	461	470	477	461	465	465	461	461	460	466
10	417	418	396	446	414	428	453	376	432	451	494	425	474	456	465	472	456	463	463	459	459	458
11	382	416	407	396	441	404	421	448	372	428	446	489	421	469	451	460	467	454	461	461	457	457
12	363	389	412	401	395	436	401	417	444	368	424	442	484	417	464	446	455	462	449	456	456	452
Post Grad	6	8	8	0	0	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Total: 9-12	1582	1631	1672	1659	1685	1722	1658	1680	1707	1749	1796	1838	1843	1815	1860	1842	1846	1847	1837	1840	1835	1836
Change	20	49	41	-13	26	37	-64	22	27	42	47	42	5	-28	45	-18	4	1	-10	3	-5	1
% Change	1.3%	3.1%	2.5%	-0.8%	1.6%	2.2%	-3.7%	1.3%	1.6%	2.5%	2.7%	2.3%	0.3%	-1.5%	2.5%	-1.0%	0.2%	0.1%	-0.5%	0.2%	-0.3%	0.1%

McKibben																						
FINAL Dec '19	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	2034-35
Low	1582	1631	1672	1659	1685	1722	1658	1677	1704	1746	1793	1835	1840	1812	1857	1838	1840	1839	1826	1828	1825	1828
Best	1582	1631	1672	1659	1685	1722	1658	1680	1707	1749	1796	1838	1843	1815	1860	1842	1846	1847	1837	1840	1835	1836
Inc/(Dec) Over Low	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	4	6	8	11	12	10	8
High	1582	1631	1672	1659	1685	1722	1658	1677	1704	1746	1793	1835	1840	1812	1857	1839	1843	1845	1838	1844	1846	1855
Inc/(Dec) Over Best	-	-	-	-	-	-	-	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(2)	1	4	11	19

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