



KING PHILIP REGIONAL SCHOOL DISTRICT

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DATE: APRIL 21, 2021

TO: PAUL ZINNI, SUPERINTENDENT OF SCHOOLS
KING PHILIP REGIONAL SCHOOL COMMITTEE

FROM: LARRY AZER, DIRECTOR OF FINANCE & OPERATIONS

RE: BUILDING CAPACITY

In thinking about the challenges the district faces with regards to returning 100% of students to full-time learning, the issue of “building capacity” has come up.

For the purposes of this discussion, “building capacity” is defined as the amount of square footage required to support current student enrollment (as calculated by the Mass. School Building Authority (MSBA)) as a percentage of total square footage in the building. In order to calculate the capacity rate for each year in each building, we simply took the historical enrollment data for each year and multiplied that by the relevant MSBA calculation (attached).

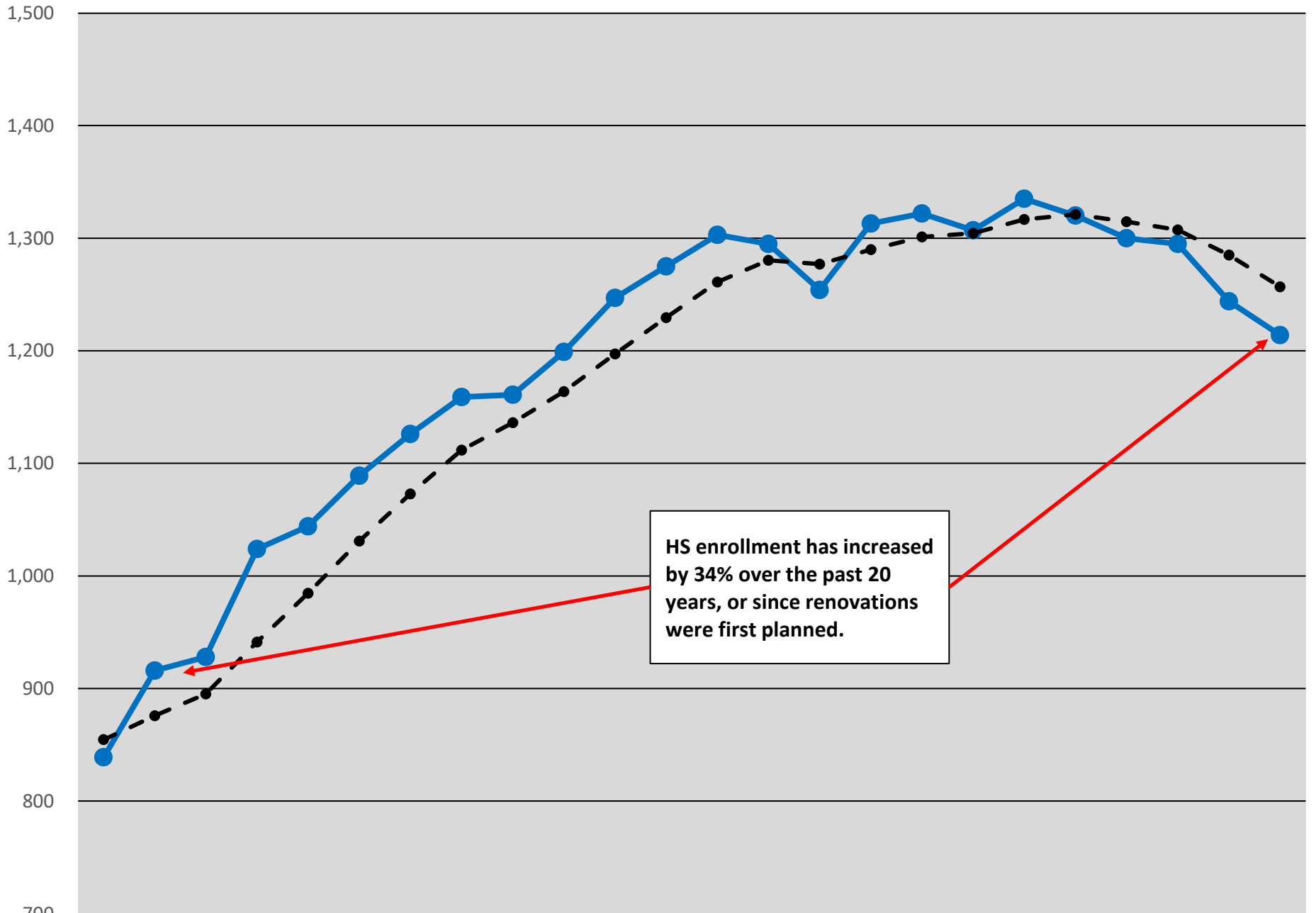
As the attached data and charts show, the high school has been operating in excess of 95% capacity for the last decade, while the middle school has been in the 75-80% range, after adjusting for the presence of central office in the middle school building.

Additionally, as has been previously shared, high school enrollment has increased by 34% over the past two decades, rising from 928 students in the 1999-2000 school to a peak of 1,335 students in the 2015-16 school year, and to its current enrollment of 1,214 students.

Middle school enrollment, on the other hand, is virtually identical now (732 students) as it was twenty years ago (744 students), with a peak of 877 students enrolled in 2011-12. This is primarily due to the approximately 20% of KP eighth graders who do not go on to attend KP High School for 9th grade (compared to almost 98% of 6th graders who go on to attend KPMS for 7th grade).

Thank you for reviewing this information. Please let us know if you have any questions.

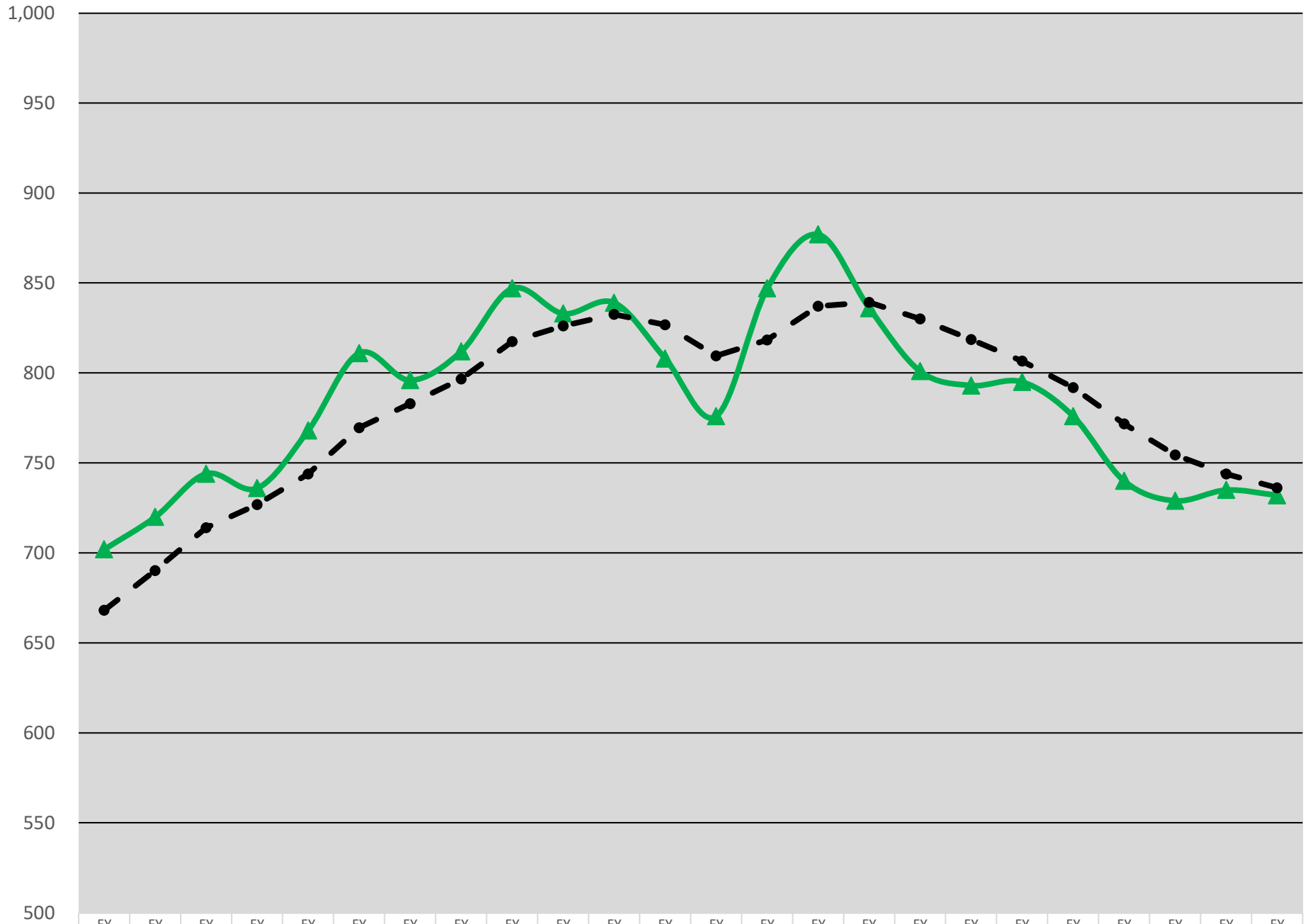
KPHS Enrollment



HS enrollment has increased by 34% over the past 20 years, or since renovations were first planned.

	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
HS	839	916	928	1,024	1,044	1,089	1,126	1,159	1,161	1,199	1,247	1,275	1,303	1,295	1,254	1,313	1,322	1,307	1,335	1,320	1,300	1,295	1,244	1,214
HS wgt avg	855	876	895	941	985	1,031	1,073	1,112	1,136	1,164	1,197	1,229	1,261	1,280	1,277	1,290	1,301	1,304	1,317	1,321	1,315	1,307	1,285	1,257

KPMS Enrollment



	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
MS	702	720	744	736	768	811	796	812	847	833	839	808	776	847	877	836	801	793	795	776	740	729	735	732
MS wgt avg	668	690	714	727	744	770	783	797	817	826	833	827	809	818	837	839	830	819	807	792	772	754	744	736

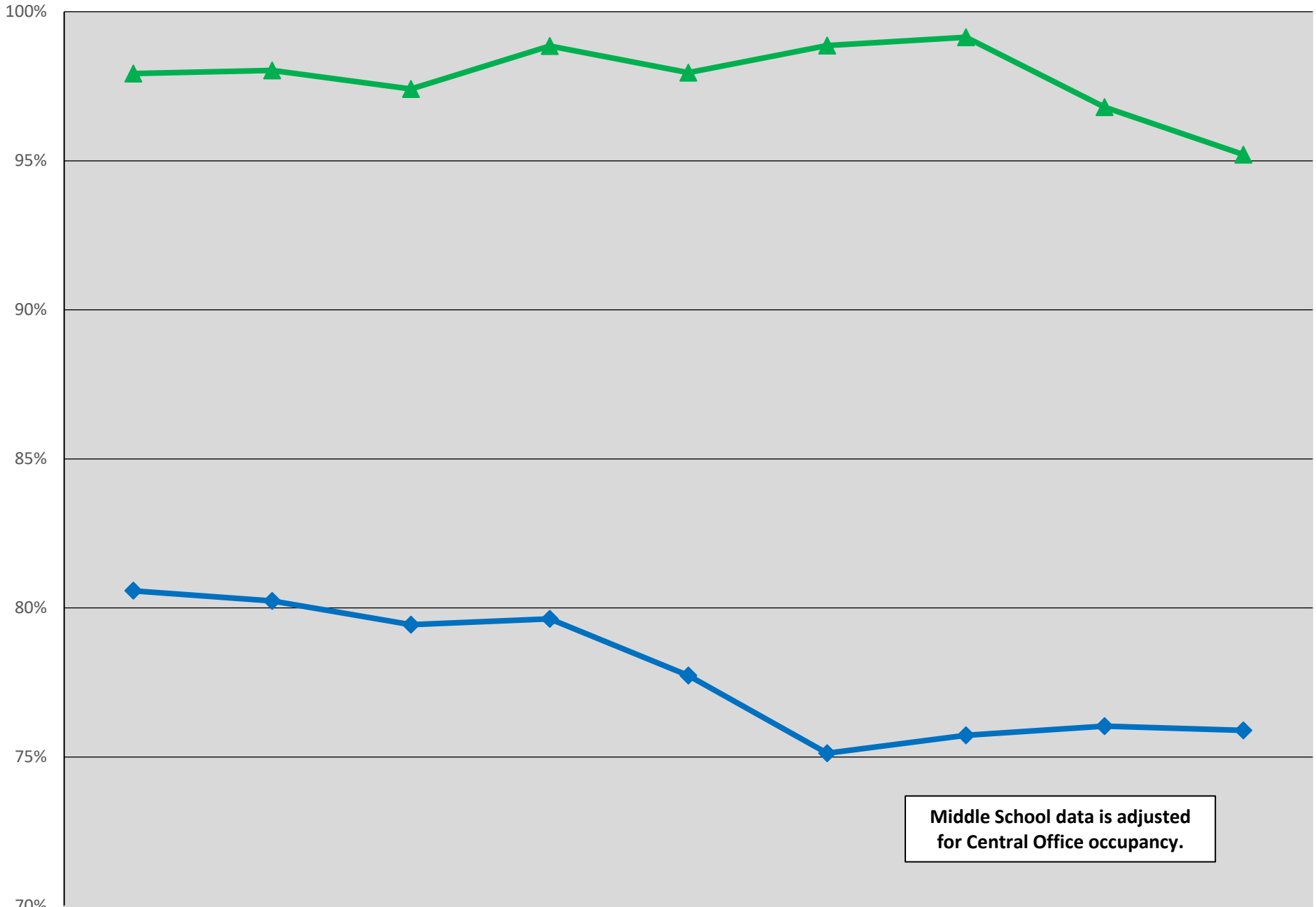
Enrollment	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
KPMS	836	801	793	795	776	750	741	744	738
KPHS	1,315	1,324	1,308	1,335	1,323	1,343	1,339	1,278	1,243

MSBA target	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
KPMS	160	160	160	160	160	160	161	161	162
KPHS	175	174	175	174	174	173	174	178	180

Sq ft needed	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
KPMS	133,760	128,160	126,880	127,200	124,160	120,000	119,301	119,784	119,556
KPHS	230,125	230,376	228,900	232,290	230,202	232,339	232,986	227,484	223,740

Capacity %	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
KPMS	80.6%	80.2%	79.4%	79.6%	77.7%	75.1%	75.7%	76.0%	75.9%
KPHS	97.9%	98.0%	97.4%	98.8%	98.0%	98.9%	99.1%	96.8%	95.2%

Building Capacity



Middle School data is adjusted for Central Office occupancy.

	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
KPMS	80.6%	80.2%	79.4%	79.6%	77.7%	75.1%	75.7%	76.0%	75.9%
KPHS	97.9%	98.0%	97.4%	98.8%	98.0%	98.9%	99.1%	96.8%	95.2%

963 CMR: MASSACHUSETTS SCHOOL BUILDING AUTHORITY

Please note that this is an unofficial version of the Massachusetts School Building Authority's Regulations, 963 CMR 2.00, and is intended for informational purposes only.

Table 2: Gross Square Feet per Student – Middle and Junior High Schools

Projected Enrollment	GSF per Student	Projected Enrollment	GSF per Student
Less than 400	190	Between 580 and 589	175
Between 400 and 409	190	Between 590 and 599	174
Between 410 and 419	189	Between 600 and 609	173
Between 420 and 429	188	Between 610 and 619	172
Between 430 and 439	187	Between 620 and 629	171
Between 440 and 449	187	Between 630 and 639	170
Between 450 and 459	186	Between 640 and 649	169
Between 460 and 469	185	Between 650 and 659	169
Between 470 and 479	184	Between 660 and 669	168
Between 480 and 489	183	Between 670 and 679	167
Between 490 and 499	182	Between 680 and 689	166
Between 500 and 509	181	Between 690 and 699	165
Between 510 and 519	181	Between 700 and 709	164
Between 520 and 529	180	Between 710 and 719	163
Between 530 and 539	179	Between 720 and 729	163
Between 540 and 549	178	Between 730 and 739	162
Between 550 and 559	177	Between 740 and 749	161
Between 560 and 569	176	750 and greater	160
Between 570 and 579	175		

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Table 3: Gross Square Feet per Student – Academic High Schools

Projected Enrollment	GSF per Student	Maximum Grossing Factor Limit
Less than 600	<i>to be determined</i>	1.50
Between 600 and 619	226	1.50
Between 620 and 639	226	1.50
Between 640 and 659	222	1.50
Between 660 and 679	219	1.50
Between 680 and 699	216	1.50
Between 700 and 719	214	1.50
Between 720 and 739	212	1.50
Between 740 and 759	210	1.50
Between 760 and 779	209	1.50
Between 780 and 799	207	1.50
Between 800 and 819	206	1.50
Between 820 and 839	205	1.50
Between 840 and 859	204	1.50
Between 860 and 879	202	1.50
Between 880 and 899	201	1.50
Between 900 and 919	200	1.50
Between 920 and 939	200	1.50
Between 940 and 959	198	1.50
Between 960 and 979	197	1.50
Between 980 and 999	195	1.50
Between 1000 and 1019	195	1.50
Between 1020 and 1039	194	1.50
Between 1040 and 1059	193	1.49
Between 1060 and 1079	192	1.49
Between 1080 and 1099	190	1.48
Between 1100 and 1119	189	1.48
Between 1120 and 1139	188	1.48
Between 1140 and 1159	186	1.47
Between 1160 and 1179	185	1.47
Between 1180 and 1199	183	1.46
Between 1200 and 1219	182	1.46
Between 1220 and 1239	181	1.46
Between 1240 and 1259	180	1.45
Between 1260 and 1279	178	1.45
Between 1280 and 1299	177	1.44

Projected Enrollment	GSF per Student	Maximum Grossing Factor Limit
Between 1300 and 1319	175	1.44
Between 1320 and 1339	174	1.44
Between 1340 and 1359	173	1.43
Between 1360 and 1379	172	1.43
Between 1380 and 1399	171	1.42
Between 1400 and 1419	171	1.42
Between 1420 and 1439	170	1.42
Between 1440 and 1459	169	1.41
Between 1460 and 1479	167	1.41
Between 1480 and 1499	166	1.40
Between 1500 and 1519	165	1.40
Between 1520 and 1539	165	1.40
Between 1540 and 1559	165	1.40
Between 1560 and 1579	164	1.40
Between 1580 and 1599	163	1.40
Between 1600 and 1619	162	1.40
Between 1620 and 1639	162	1.40
Between 1640 and 1659	162	1.40
Between 1660 and 1679	162	1.40
Between 1680 and 1699	162	1.40
Between 1700 and 1719	161	1.40
Between 1720 and 1739	160	1.40
Between 1740 and 1759	160	1.40
Between 1760 and 1779	160	1.40
Between 1780 and 1799	160	1.40
Between 1800 and 1819	160	1.40
Between 1820 and 1839	160	1.40
Between 1840 and 1859	159	1.40
Between 1860 and 1879	159	1.40
Between 1880 and 1899	159	1.40
Between 1900 and 1919	158	1.40
Between 1920 and 1939	158	1.40
Between 1940 and 1959	158	1.40
Between 1960 and 1979	158	1.40
Between 1980 and 1999	157	1.40
Greater than 2000	<i>to be determined</i>	1.40