

Westwood Public Schools, Massachusetts Facility Planning

February 12, 2020





Introduction

The following document contains a series of tables and maps that depict statistics for current schools and boundaries, as well as initial redistricting options that are being evaluated internally and publicly. This information will help inform all stakeholders on how schools could be potentially impacted as a result of potential redistricting adjustments, along with a comparison to current school information. It is important to understand that this material is a starting point, and additional information will be collected and created as the process matures.

Glossary of Terms

<u>2020 MSBA Capacity</u> - Capacity counts are calculated using the current Massachusetts School Building Authority standards. These are capacity numbers without mobile units. Those capacities reflect the Massachusetts School Building Authority guidelines for new construction projects.

2019-20 Total Enrollment – The total number of students attending a given school as of February 2020. Source is a database export from Westwood Public Schools.

<u>Utilization</u> - Utilization is the enrollment divided by the Option Capacity, described as a percentage.

Live-in Students – Students residing inside of a school attendance boundary, regardless of where that student attends school.

Live and Attend-in Students – Students that live inside a school attendance boundary, and attends that school.

Live-out Attend-in Students - Students that live outside the attendance boundary for the school that they attend.

Estimated Enrollment (ES) – The estimated enrollment is calculated by adding the 2019-20 PK students to their 2019-20 school, plus the K-5th students that "Live Out and Attend In" a 2019-20 school, plus the Unmatched, plus the total number of live in K-5th grade students within each new DRAFT option zone that "Live and Attend In" during the 2019-20 school year.

Enrollment Statistics Assumptions

When estimating enrollment for the redistricting options, a series of assumptions were made. These assumptions help to ensure that Live Out Attend In students are not compromised by any redistricting adjustment, and that actual enrollments will materialize as close to the estimates as possible. The following assumptions were made:

- 1. Any student living outside of that student's attending school's boundary will attend the same school in estimated enrollment projections EXCEPT for the following circumstances:
 - a. In Option 2 (Deerfield ES is closing), the estimated enrollment for Hanlon ES includes the 22 K-5th Live Out Attend In students from Deerfield ES during the 2019-20 school year.
 - b. In Option 3a (Sheehan ES is closing), the estimated enrollment for Hanlon ES includes the 19 K-5th Live Out Attend In students from Sheehan ES during the 2019-20 school year.
 - c. In Option 3b and 3b_V2 (Hanlon ES is closing), the estimated enrollment for Deerfield ES includes the 9 K-5th Live Out Attend In students from Hanlon ES during the 2019-20 school year.

Cropper GIS



Elementary School Enrollment Statistics

ES Name	Grade Config	2020 MSBA Capacity	РК	KF	01	02	03	04	05	2019-20 Total Headcount PK-5 Grade Enrollment	Utilization			K-5 Live Out Attend In	K-5 Unmatched
											+/-	%			
DEERFIELD SCHOOL	K-5	218	0	28	26	25	33	42	43	197	-21	90%	175	22	
DOWNEY SCHOOL	PK-5	333	2	43	60	49	44	47	43	288	-45	86%	263	23	
MARTHA JONES SCHOOL	K-5	333	0	31	39	54	45	50	49	268	-65	80%	265	2	1
PAUL HANLON SCHOOL	K-5	218	0	28	30	46	31	33	37	205	-13	94%	196	9	
WILLIAM E. SHEEHAN SCHOOL	K-5	356	0	40	58	42	48	55	67	310	-46	87%	291	19	
Total		1,458	2	170	213	216	201	227	239	1,268	-190	87%	1,190	75	

Counts based on January 2020 Student Enrollment Database



Elementary School Option Enrollment Statistics

ES Name	Grade Config	2020 MSBA Capacity	Option 2 Capacity	Option 3a Capacity	Option 3b Capacity	Option 3b_V2 Capacity	2019-20 Total Headcount PK-5 Grade Enrollment	Option 2 Estimated Enrollment ² (Total Headcount)	Option 3a Estimated Enrollment ² (Total Headcount)	Option 3b Estimated Enrollment ² (Total Headcount)	Option 3b_V2 Estimated Enrollment ² (Total Headcount)
DEERFIELD SCHOOL	K-5	218	0	218	218	218	197	Consolidated	173	178	178
DOWNEY SCHOOL	PK-5	333	333	333	333	333	288	288	288	288	335
MARTHA JONES SCHOOL	K-5	333	333	333	333	333	268	268	272	259	259
PAUL HANLON SCHOOL	K-5	218	560	685	0	0	205	402	535	Consolidated	0
WILLIAM E. SHEEHAN SCHOOL	K-5	356	356	0	685	685	310	310	Consolidated	543	496
Total		1,458	1,582	1,569	1,569	1,569	1,268	1268	1268	1268	1,268

Elementary School Option Utilization Statistics

ES Name	Grade Config	2020 MSBA Capacity	Option 2 Capacity	1	Option 3b Capacity	Option 3b_V2 Capacity	Enrol	Enrollment Utilization		Enrollment E				Enrollment		Enrollment		on 2 lated ation ²	Option 3a Estimated Utilization ²		Option Estima Utiliza	ated	Option 3b_V2 Estimated Utilization ²	
							+/-	%	+/-	%	+/-	%	+/-	%	+/-	%								
DEERFIELD SCHOOL	K-5	218	0	218	218	218	-21	90%	0	0%	-45	79%	-40	82%	-40	82%								
DOWNEY SCHOOL	PK-5	333	333	333	333	333	-45	86%	-45	86%	-45	86%	-45	86%	2	101%								
MARTHA JONES SCHOOL	K-5	333	333	333	333	333	-65	80%	-65	80%	-61	82%	-74	78%	-74	78%								
PAUL HANLON SCHOOL	K-5	218	560	685	0	0	-13	94%	-158	72%	-150	78%	0	0%	0	0%								
WILLIAM E. SHEEHAN SCHOOL	K-5	356	356	0	685	685	-46	87%	-46	87%	0	0%	-142	79%	-189	72%								
Total		1,458	1,582	1,569	1,569	1,569	-190	87%	-314	80%	-301	81%	-301	81%	-301	81%								

Counts based on January 2020 Student Enrollment Database

² The estimated enrollment is calculated by adding the 2019-20 PK students to their 2019-20 school, plus the K-5th students that "Live Out and Attend In" a 2019-20 school, plus the Unmatched, plus the total number of live in K-5th grade students within each new DRAFT option zone that "Live and Attend In" during the 2019-20 school year.

[†]It is assummed that in Option 3a, the estimated enrollment for Hanlon ES includes the 19 K-5th Live Out Attend In students from Sheehan ES during the 2019-20 school year. It is assumed that in Option 3b and 3b_V2, the estimated enrollment for Deerfield ES includes the 9 K-5th Live Out Attend In students from Hanlon ES during the 2019-20 school year.



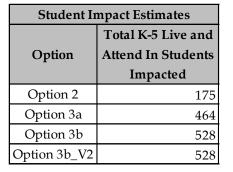
Elementary School Option Impact Statistics

2019-20 ES Boundary	ES Option 2 Boundary	Total K-5 Live and Attend In Students
Deerfield	Hanlon	175
Downey	Downey	265
Hanlon	Hanlon	196
Martha Jones	Martha Jones	265
Sheehan	Sheehan	291

2019-20 ES Boundary	ES Option 3a Boundary	Total K-5 Live and Attend In Students			
Deerfield	Deerfield	151			
Deerfield	Hanlon	24			
Downey	Downey	265			
Hanlon	Hanlon	196			
Martha Jones	Hanlon	149			
Martha Jones	Martha Jones	116			
Sheehan	Hanlon	138			
Sheehan	Martha Jones	153			

2019-20 ES Boundary	ES Option 3b Boundary	Total K-5 Live and Attend In Students
Deerfield	Deerfield	32
Deerfield	Sheehan	143
Downey	Downey	265
Hanlon	Deerfield	115
Hanlon	Sheehan	81
Martha Jones	Martha Jones	166
Martha Jones	Sheehan	99
Sheehan	Martha Jones	90
Sheehan	Sheehan	201

2019-20 ES Boundary	ES Option 3b_V2 Boundary	Total K-5 Live and Attend In Students
Deerfield	Deerfield	32
Deerfield	Sheehan	143
Downey	Downey	265
Hanlon	Deerfield	115
Hanlon	Downey	47
Hanlon	Sheehan	34
Martha Jones	Martha Jones	166
Martha Jones	Sheehan	99
Sheehan	Martha Jones	90
Sheehan	Sheehan	201





Middle School Enrollment Statistics

MS Name	MS Zone Name	Grade Config	2020 MSBA Capacity	6	7	8	2019-20 Total Headcount 6-8 Grade Enrollment	2019 6-8 Enro Utiliz	ollment	6-8 Live and Attend In	6-8 Live Out Attend In	6-8 Unmatched
							Grade Enromment	+/-	%			
EW THURSTON MIDDLE SCHOOL	EW THURSTON MIDDLE SCHOOL	6-8	759	223	232	251	706	-53	93%	688	17	1
Total			759	223	232	251	706	-53	93%	688	17	1

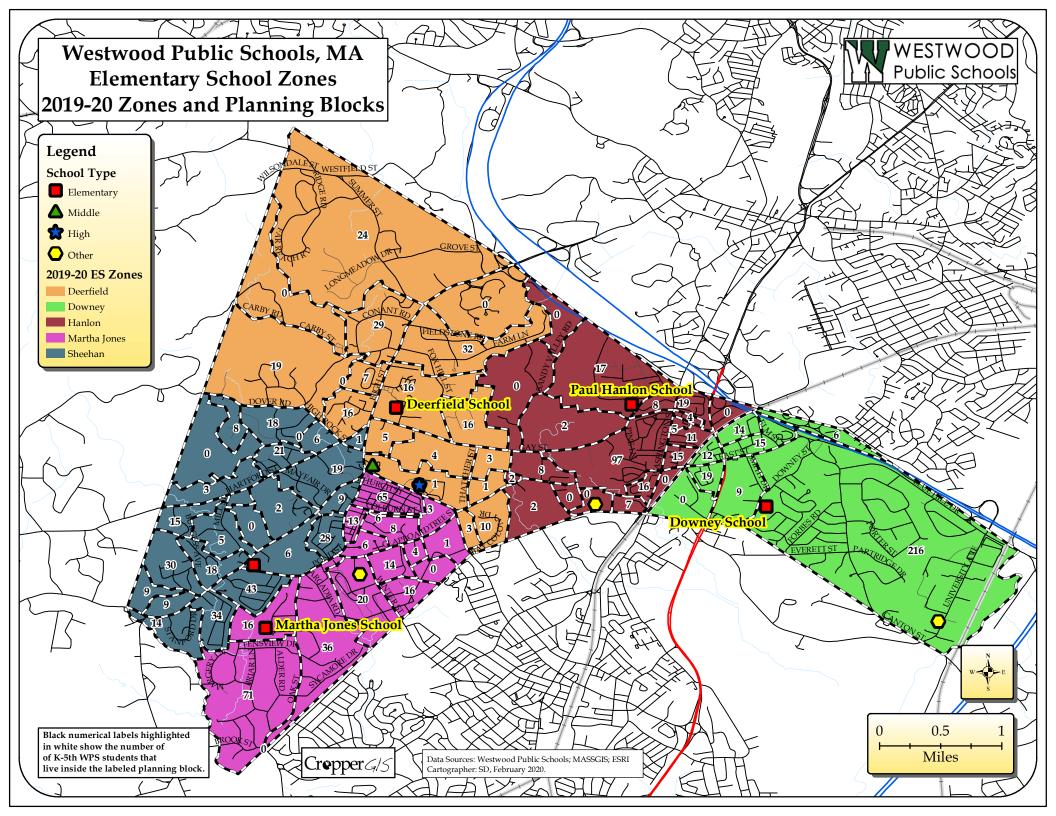
Counts based on January 2020 Student Enrollment Database

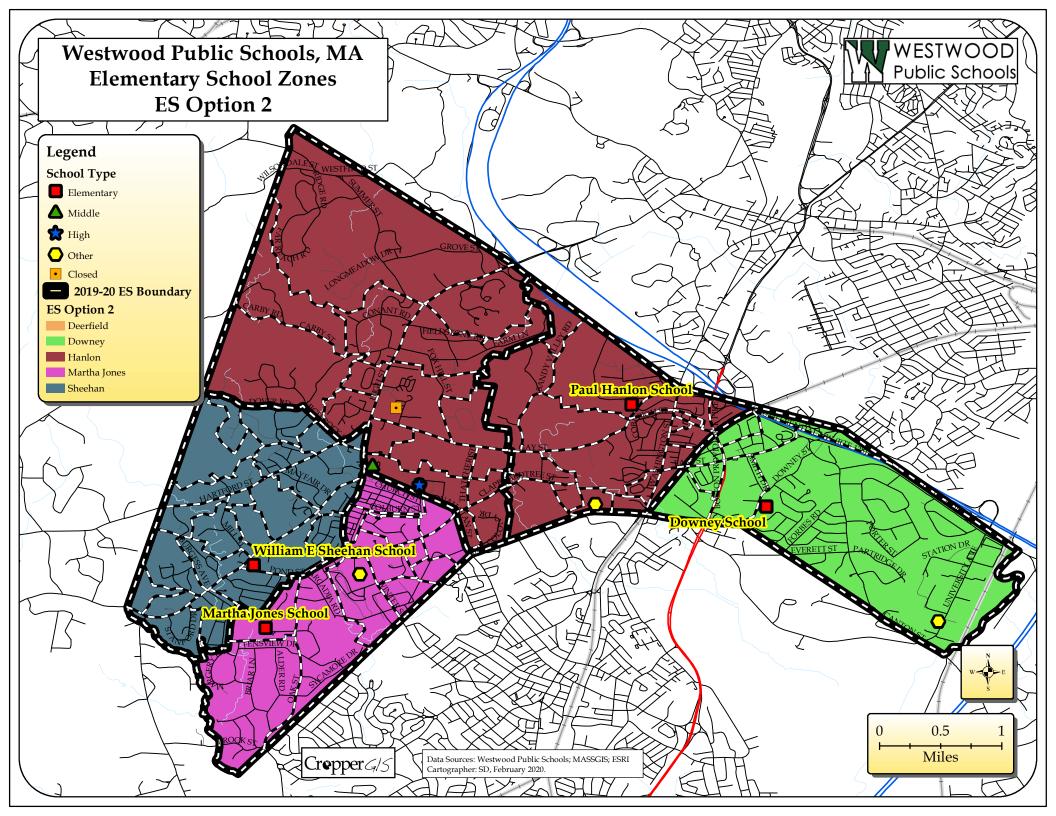
High School Enrollment Statistics

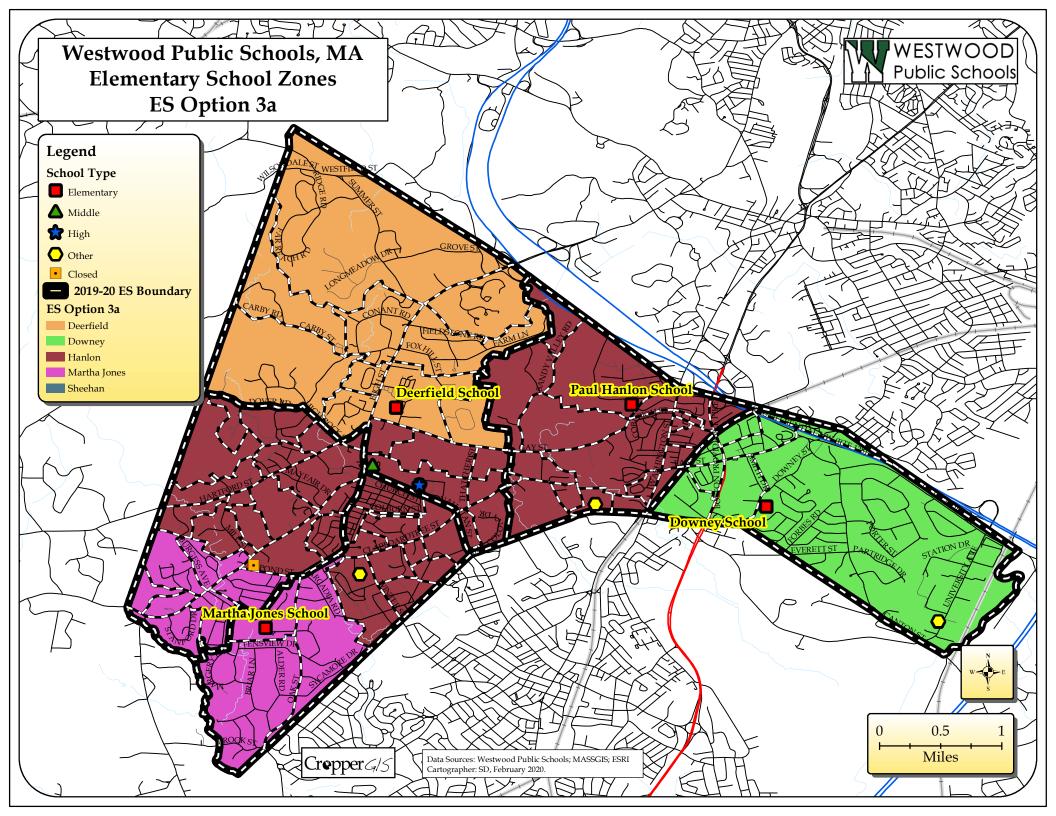
HS Name	HS Zone Name	Grade Config	2020 MSBA Capacity	9	10	11	12	2019-20 Total Headcount 9-12 Grade Enrollment	9-12 E	19-20 nrollment ization	9-12 Live and Attend In	9-12 Live Out Attend In	9-12 Unmatched
									+/-	%			
WESTWOOD HIGH SCHOOL	WESTWOOD HIGH SCHOOL	9-12	N/A	257	258	247	236	998	N/A	N/A	967	30	1
Total			0	257	258	247	236	998	N/A	N/A	967	30	1

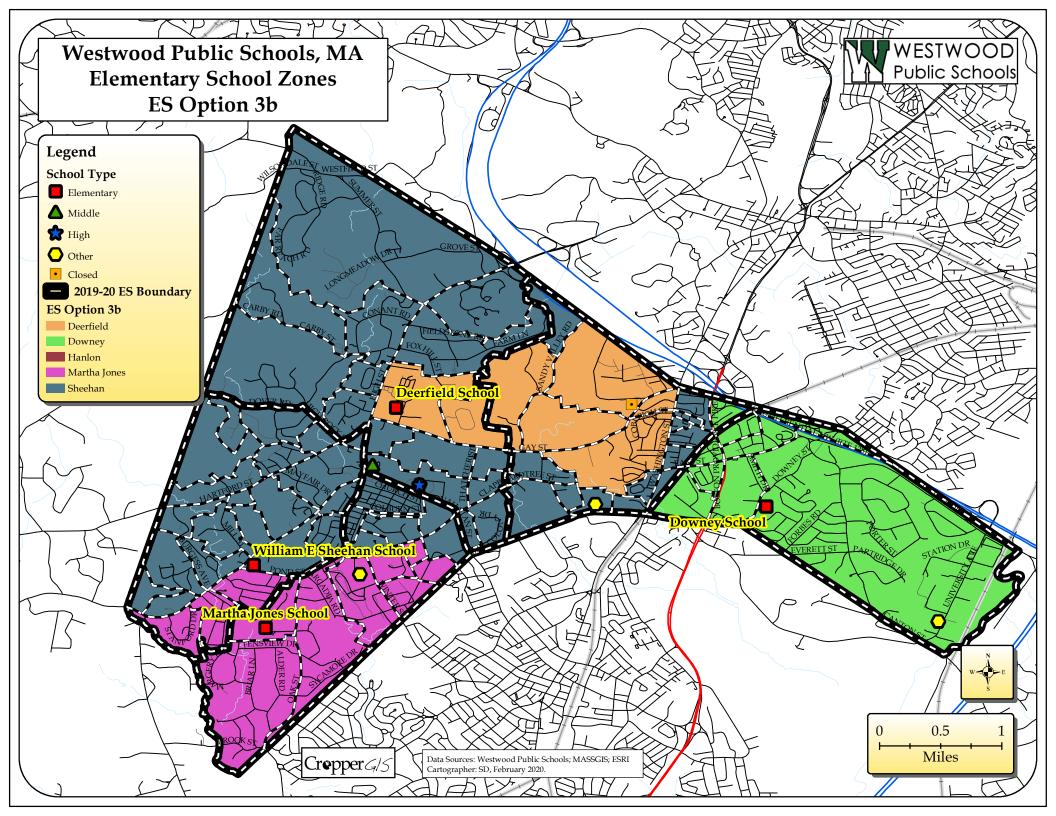
Counts based on January 2020 Student Enrollment Database

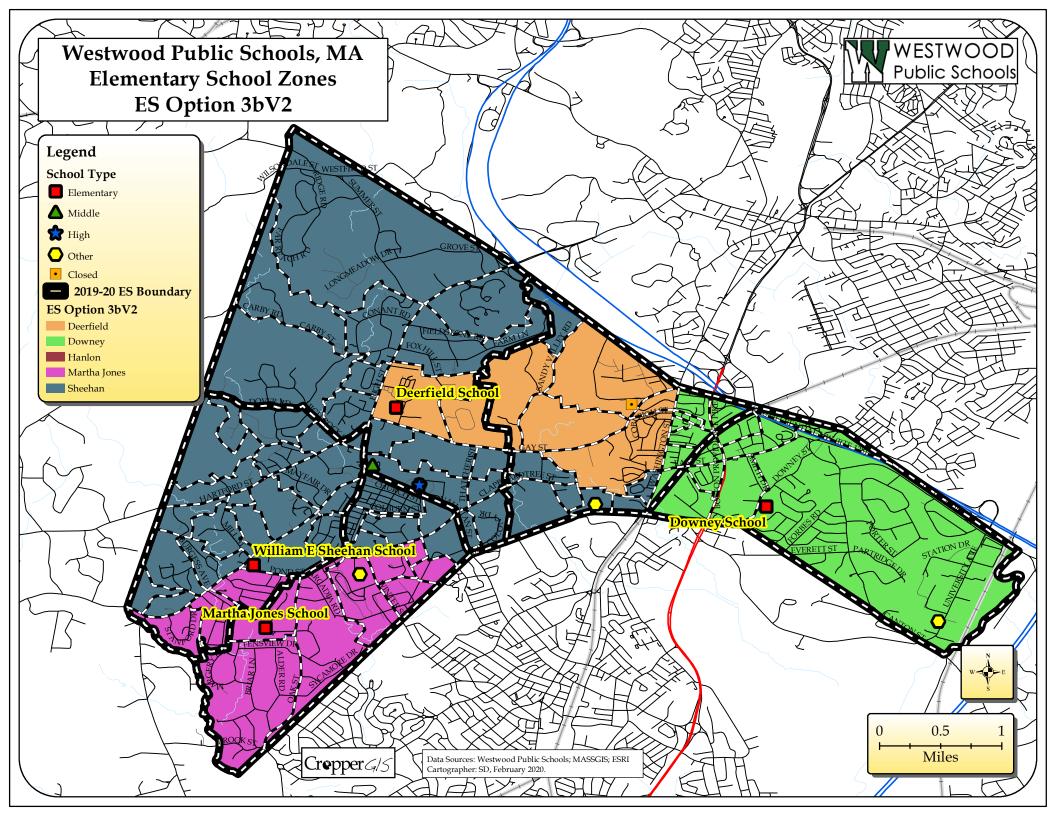












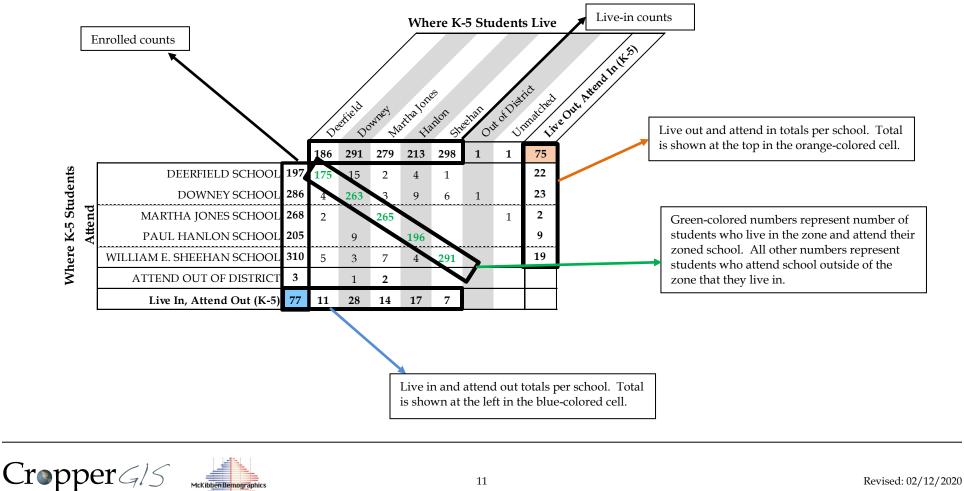
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Live-Attend and Map Analysis

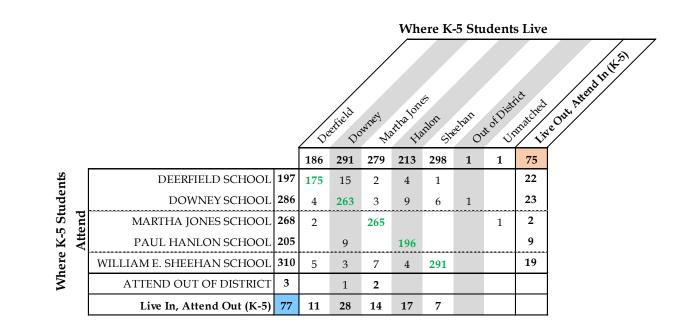
Live Attend Matrix

The table below gives details on the schools that students attend and the school zones where they live. The schools of attendance are listed on the left while the zones where students live are listed on the top line. The numbers highlighted in green are counts of students who attend the assigned schools for the zones where they live. This student data is from February 2020, Westwood Public Schools student database.



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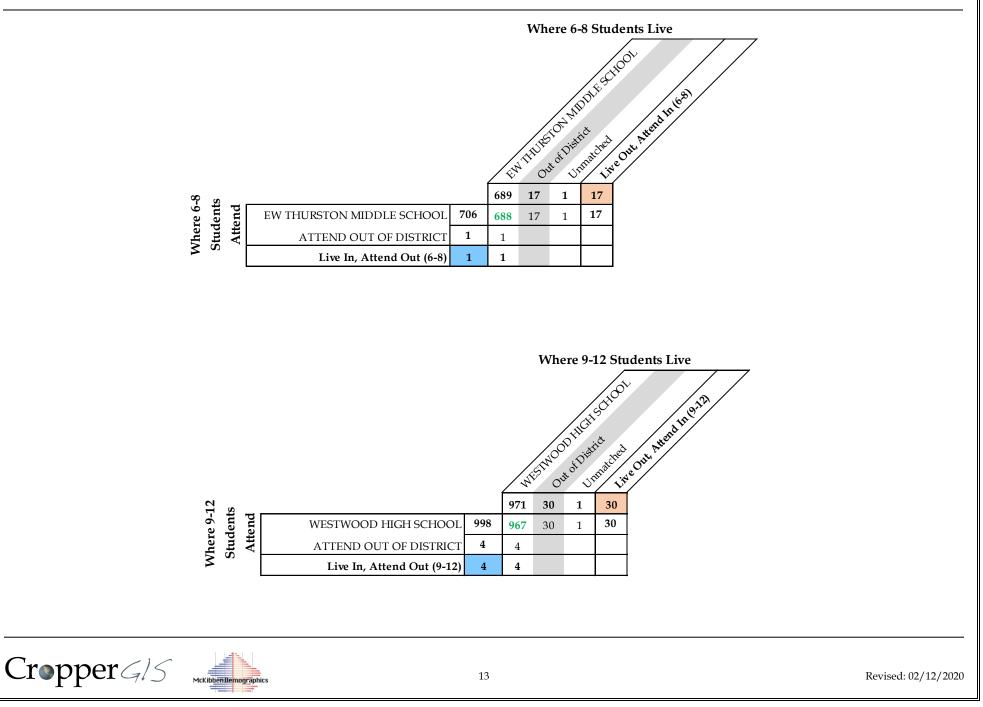






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Map Analysis

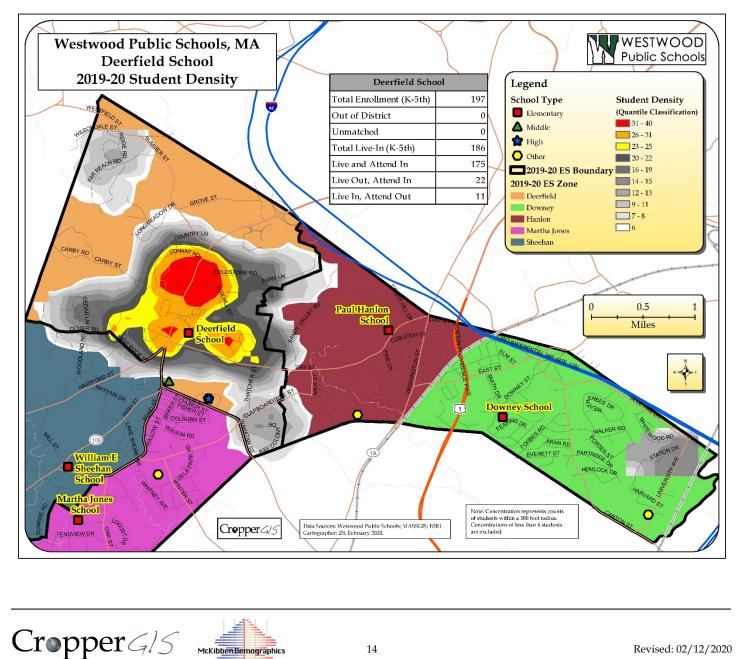
This map series focuses on illustrating the geographic distribution of 2019-20 Westwood Public School students in relation to school attendance boundaries.

Below is an example of a map from this series.

Basic Map Elements

The legend explains how different features are represented, either by a point (e.g. schools), quantile area (student density), or by an area/polygon (e.g. attendance boundaries). The scale bar references the distance ratio of the map in relation to the real world.

Please note that each quantile area reflects the count of enrolled students within a 500-foot radius. Concentrations of students 5 or less were excluded. Therefore, enrollment for a given school may have students that are outside of those quantile areas of density shown.



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Live-Attend Tables

Each map has a table listing various statistics about the student data in this region. Here is a guide for reading this table:

DEERFIELD ES									
Total Enrollment (K-5th)	197								
Out of District	0								
Unmatched	0								
Total Live-In (K-5th)	186								
Live and Attend In	175								
Live Out, Attend In	22								
Live In, Attend Out	11								

Total Enrollment - the number of students attending Deerfield Elementary School.

<u>Out of District</u> – the number of students who live outside any of the Westwood Publics School District attendance zone boundaries, for each level, yet attend this school.

<u>Unmatched</u> – the number of students attending Deerfield Elementary School whose addresses were not located by the GIS.

<u>Total Live-In</u> – number of students who live within the school's attendance boundary, who are in the K-5th grade cohort. The 'total-live in' statistic here indicates there are 186 K-5th grade students living within the Deerfield Elementary School attendance boundary.

Live and Attend In – number of K-5th students who live within the attendance boundary, and also attend that school. In this example, 175 K-5th grade students who live within the Deerfield Elementary School attendance boundary also attend Deerfield Elementary School.

Live Out, Attend In – number of K-5th students who live outside of the Deerfield Elementary School attendance boundary, but attend Deerfield Elementary School.

Live In, Attend Out – number of K-5th students who live inside the Deerfield Elementary School attendance boundary, yet attend a different elementary school.



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