

Hanover Township Schools

Demographic Study

ROSS HABER AND ASSOCIATES

February 1, 2015

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The Hanover Township Board of Education has engaged Ross Haber and Associates to provide the District with a five-year enrollment projection. The Hanover Schools comprise four elementary schools housing grades PK - 5 and one middle school housing students in grades six through eight. The District is designated as a District Factor Group (DFG) I which is the second highest group in the State of New Jersey based upon socio-economic status and educational achievement.

Table 1 provides a comparison of Hanover Township on selected demographic characteristics with Morris County and with the State of New Jersey.

Table 1: Comparative Demographics¹

Hanover Township				
	2000	2012	Diff	Percent
Population	12,898	13,712	814	6.31%
Median Age	40.10	43.10	3.00	7.48%
Households	4,818	5,196	378	7.85%
Median Income	\$84,115	\$108,224	\$24,109	22.28%
Morris County				
	2000	2012	Diff	Percent
Population	470,212	493,472	23,260	4.95%
Median Age	37.80	41.42	3.62	9.58%
Households	174,379	189,821	15442	8.86%
Median Income	\$77,340	\$117,258	\$39,918	34.04%
State of New Jersey				
	2000	2012	Diff	Percent
Population	8,414,350	8,791,894	377,544	4.49%
Median Age	36.70	39.40	2.70	7.36%
Households	3,064,645	3,214,360	149,715	4.89%
Median Income	\$55,146	\$71,637	\$16,491	23.02%

¹ Information for American Factfinder 2, US Census, 2012 data update

Table 1 shows the differential between the years 2000 and 2012. The population in Hanover Township rose at a rate slightly higher than the County and the State. The number of households increased slightly lower than the County but higher than the State. Median income rose in the Township at a rate equal to the State but lower than Morris County. Finally, median age rose at a rate lower than the County but at the same rate as the State.

The most significant characteristic in this table is the median age. In Hanover Township the median age (median being the middle point half of which is higher and half of which is lower) rose by three years. What is significant about that change is that the higher the median age the lower the birth rate. There has been some decline in the enrollment in Hanover Township and this could be part of the explanation, i.e. an older population.

Study Methodology

This study uses the cohort survival method of enrollment projections. This is the method required by the New Jersey Department of Education for use with its Long Range Facility Plan. The cohort survival method projects based upon a five-year history of enrollment in the District. It tracks the rate of growth/decline of student enrollment as students move from grade to grade, for example, if in the school year 2012-13 there were 141 students in grade 1 and this number increased to 153 when these students got to grade 2, this would show an increase (referred to as a migration ratio) of 1.09.² This growth/decline rate is average for five years and that average is the basis for making grade level projections.

Kindergarten projections are made based upon the relationship between live births accredited to the District and kindergarten enrollment five years later. Children born in 2009 will become kindergarten students in 2014-15. A ratio is developed between births and kindergarten students five years later and applied to known birth rates through the projection period.

The final parameter in making projections is based upon approved new residential housing in the District. Depending upon the type of construction (single family, condominium, townhouse, etc. a yield factor is applied (how many students expected from the type of structure)

² Data provided by the Hanover Township Schools

and the number of units is multiplied by that yield factor to estimate the number of students that can be expected to attend the schools).³

Executive Summary

1. The total enrollment in the District declined from 1,581 students in 2009-10 to 1,485 in 2014-15. This is a decline of 96 students or approximately 6.5%. The total enrollment is projected to continue to decrease from the current 1,485 to 1,438 in 2019-20. This would be a decline of 47 students or approximately 3.27%. However, this may be offset by new residential construction. This will be addressed later in this report.
2. The elementary school enrollment declined from 999 in 2009-10 to 914 in 2014-15. This is a decline of 85 students or approximately 9.3%. The elementary school enrollment is projected to remain stable for the next five years with the highest enrollment (932) projected for 2015-16 and then a gradual leveling off to 919 in 2019-20.
3. The middle school enrollment decreased slightly from 542 in 2009-10 to 537 in 2014-15. This is a marginal decline of 5 students. The middle school enrollment is projected to decrease from the current 537 to 486 in 2019-20. This is a decline of 51 students or approximately 10.5%. The long range decline is reflective of the decrease in the elementary school enrollment. As with the elementary school enrollment that should stabilize at some point beyond the five year projection

Housing

There are currently two new residential developments with approval in Hanover. These are Woodmont Knolls, which will yield 126 residential units and an unnamed subdivision of 16 single family units.

³ For this study we are using the Residential Multipliers from the Center for Urban Policy Research, Rutgers University, 2006

Woodmont Knolls will consist of a mix of one and two bedroom rentals. The single family homes will have between 3 and 4 bedrooms.

Table 2: Students Projected from New Residences

Woodmont		126	0.12	15.12	PSC
SF		16	0.87	13.92	PSC
				29.04	

Table 2 shows the estimated number of students (PSC=public school children) that can be expected to come from these new homes. This is based on the most recent study done by the Center for Urban Policy Research at Rutgers University. It is suggested from this study that there is a margin of error in this estimate of +/- 5%. Therefore the range of new students is a low of 27 and a high of 32. Also, because Hanover is a K-8 District the actual number of students impacted the four Hanover schools would be approximately 21 students with the remaining allocated to the high school.

Tables and Charts

Table 3: Hanover Township Schools Enrollment History and Projection

Hanover																						
Year	Births		K	1	2	3	4	5	6	7	8	K-5	6-8	Sub	SE	PSD	Total					
2009-10	147	0.82	121	168	162	183	188	177	185	177	180	999	542	1541	14	26	1581					
			1.07	1.00	1.01	0.98	0.99	1.00	0.97	1.00												
2010-11	135	1.10	149	130	168	163	180	186	177	180	177	976	534	1510	11	24	1545					
			1.10	0.99	1.00	1.02	1.01	1.02	1.03	1.01												
2011-12	122	1.02	125	164	129	168	167	181	189	183	181	934	553	1487	17	19	1523					
			1.13	0.99	1.02	1.02	1.01	1.02	1.00	1.02												
2012-13	112	1.17	131	141	163	132	171	169	184	189	186	907	559	1466	16	17	1499					
			1.11	1.09	1.00	0.99	1.01	1.02	1.01	1.00												
2013-14	132	0.96	127	145	153	163	131	173	172	185	189	892	546	1438	13	20	1471					
			1.11	1.08	1.03	1.06	1.08	1.01	1.01	1.02												
2014-15	131	1.12	147	141	156	157	172	141	175	173	189	914	537	1451	13	21	1485					
Av		1.08	1.10	1.03	1.01	1.01	1.02	1.01	1.00	1.01												
Year	Births		K	1	2	3	4	5	6	7	8	K-5	6-8	Sub	SE	PSD	Total					
2015-16	123		132	162	145	158	159	175	143	176	175	932	493	1425	14	20	1459					
2016-17	123		132	146	167	147	160	162	177	143	177	915	498	1413	15	19	1447					
2017-18	124		134	146	150	169	149	163	164	178	145	911	487	1398	14	20	1432					
2018-19	127		136	148	150	152	171	152	165	165	180	910	510	1419	14	20	1453					
2019-20	126		135	151	152	152	154	175	154	166	166	919	486	1405	14	20	1438					
	Pot		3	3	3	2	2	2	2	2	2						21					

Table 1 shows that the new developments will add an estimated 21 students to the District. We cannot project with precision the timeline for the entry of these students nor the grade breakage. We are assuming that by 2019-20 all of these units will be completed and that the students will be in the Hanover Schools. The total impact of these students will be a leveling off of the District enrollment.

Chart 1: Hanover Township Schools Enrollment History and Projection

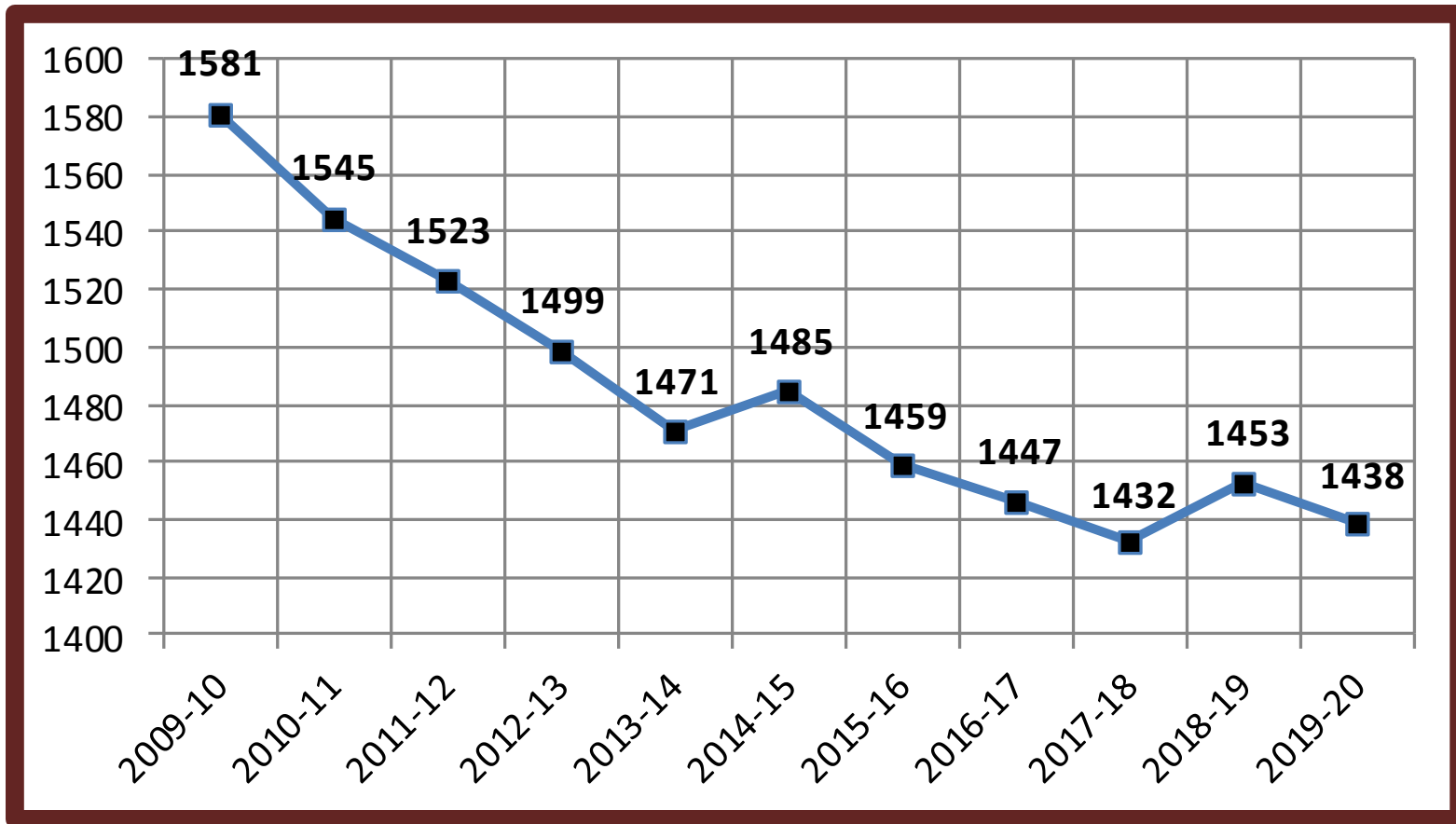


Table 4: Bee Meadow

Bee Meadow																		
Year	Births		K		1		2		3		4		5	K-5	Sub	PSD	SE	Total
2009-10	147	0.25	37		61		55		66		62		73	354	354	26	12	392
				1.16		1.02		1.00		1.00		1.02						
2010-11	135	0.44	60		43		62		55		66		63	349	349	24	10	383
				1.12		1.07		0.95		1.04		1.03						
2011-12	122	0.33	40		67		46		59		57		68	337	337	19	17	373
				1.23		1.01		0.93		0.98		0.98						
2012-13	112	0.41	46		49		68		43		58		56	320	320	17	16	353
				1.07		1.08		0.99		0.91		1.07						
2013-14	132	0.30	39		49		53		67		39		62	309	309	20	13	342
				1.13		1.10		0.96		1.00		1.18						
2014-15	131	0.34	44		44		54		51		67		46	306	306	21	9	336
Av		0.34		1.14		1.06		0.97		0.99		1.06						
Year	Births		K		1		2		3		4		5	K-5	Sub	PSD	SE	Total
																		Total
2015-16	123		44		50		47		52		50		71	314	314	20	13	347
2016-17	123		43		50		53		45		51		53	296	296	19	14	329
2017-18	124		42		49		53		51		44		54	294	294	20	13	326
2018-19	127		45		48		52		51		50		47	293	293	20	12	325
2019-20	126		42		51		51		50		50		53	298	298	20	12	330

Chart 2: Bee Meadow

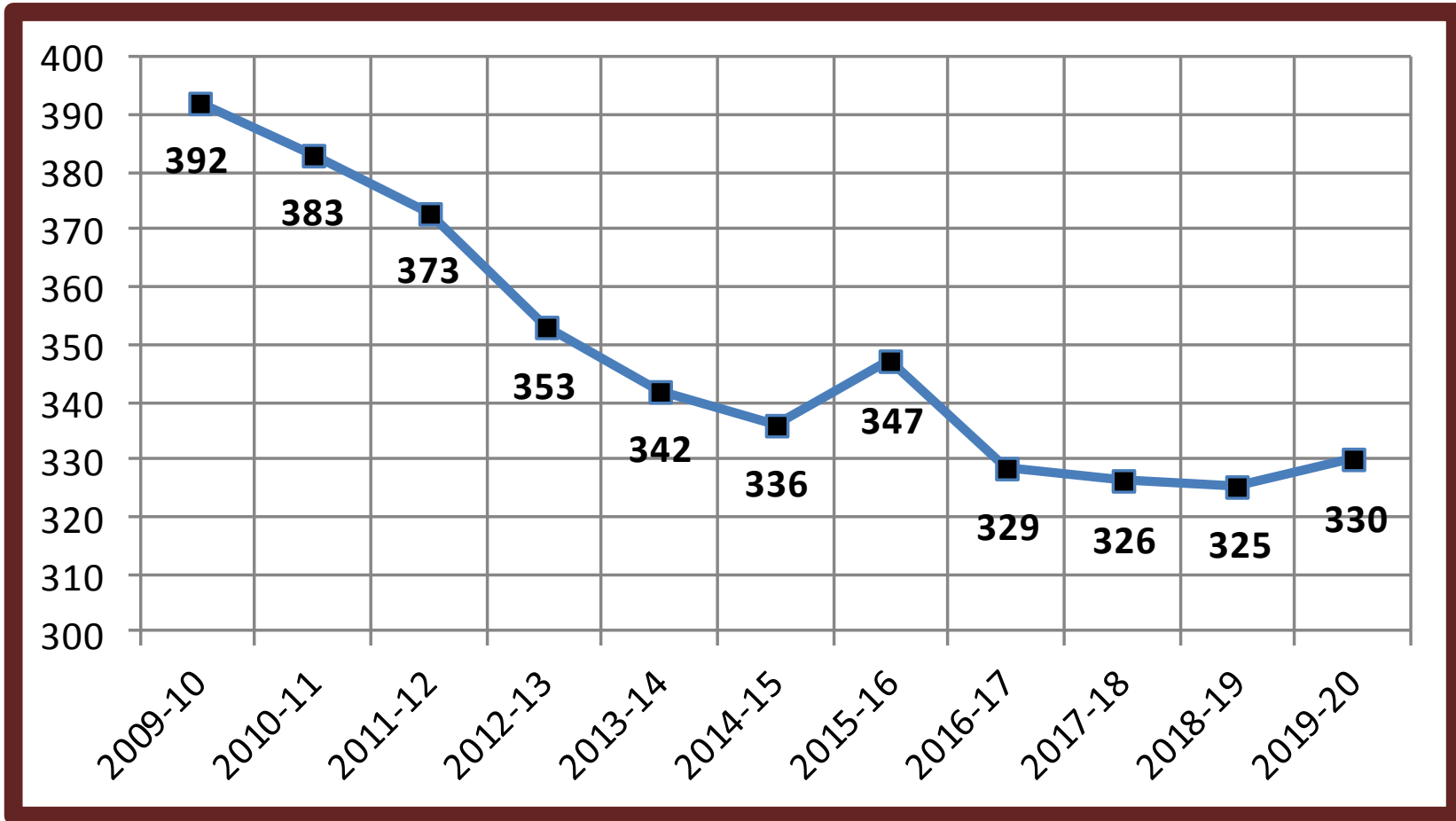


Table 5: Mountview Road

Mountview Road																		
Year	Births		K		1		2		3		4		5	K-5	Sub	PSD	SE	Total
2009-10	147	0.24	35		57		53		56		64		50	315	315			315
				1.09		1.00		0.98		1.00		1.00						
2010-11	135	0.36	48		38		57		52		56		64	315	315			315
				1.06		0.92		1.02		1.02		1.00						
2011-12	122	0.35	43		51		35		58		53		56	296	296			296
				1.30		1.00		1.03		1.05		1.06						
2012-13	112	0.43	48		56		51		36		61		56	308	308			308
				1.13		1.11		1.04		0.97		1.03						
2013-14	132	0.33	44		54		62		53		35		63	311	311			311
				1.18		1.11		1.10		1.08		1.09						
2014-15	131	0.43	56		52		60		68		57		38	331	331			331
Av		0.36		1.15		1.03		1.03		1.02		1.04						
Year	Births		K		1		2		3		4		5	K-5	Sub	PSD	SE	Total
																		Total
2015-16	123		47		64		53		62		70		59	355	355			355
2016-17	123		47		54		66		55		63		72	358	358			358
2017-18	124		48		54		56		68		57		66	348	348			348
2018-19	127		49		55		56		57		70		58	346	346			346
2019-20	126		49		56		57		57		59		73	351	351			351

Chart 3: Mountview Road

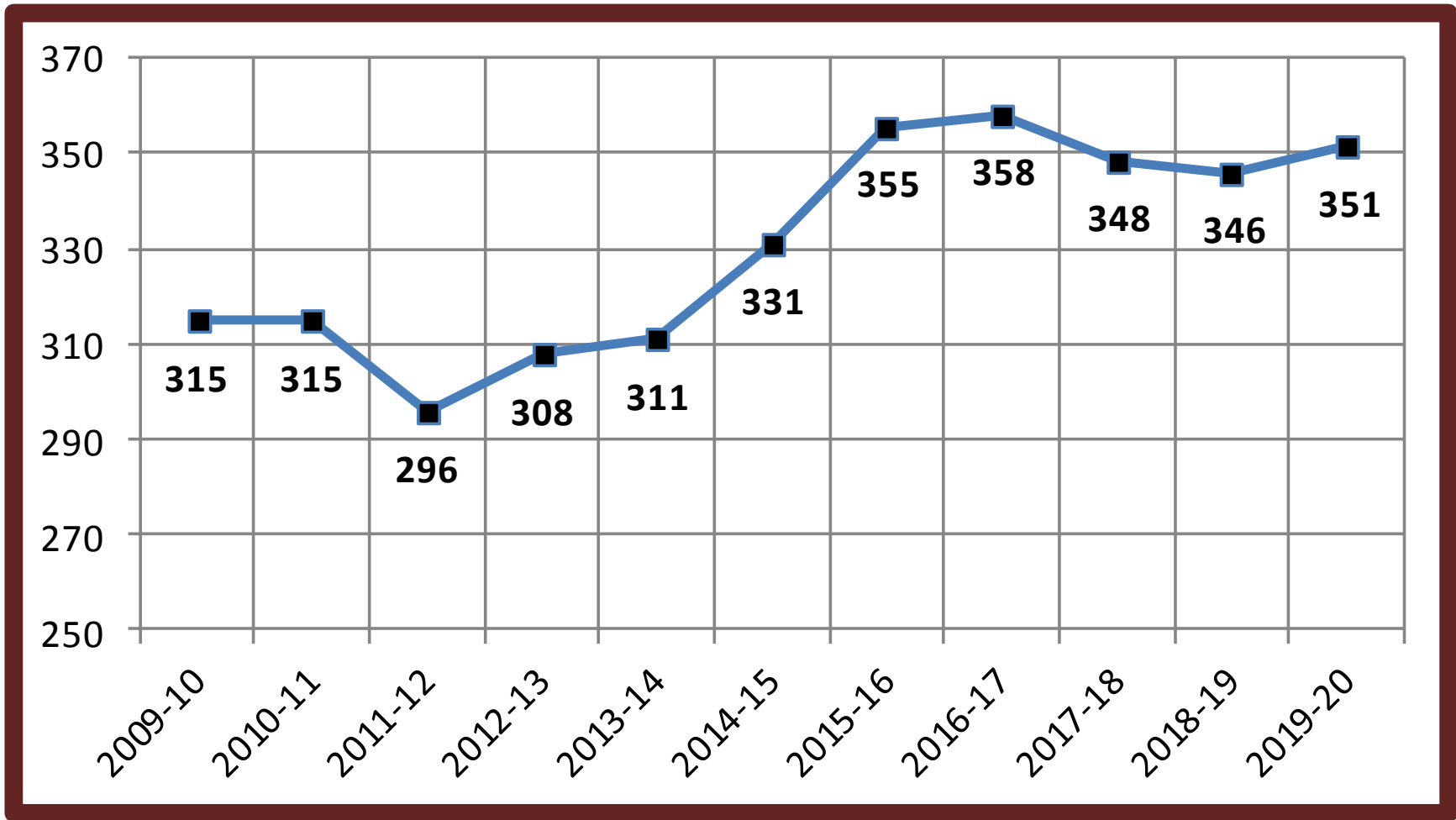


Table 6: Salem Drive

Salem Drive																		
Year	Births		K		1		2		3		4		5	K-5	Sub	PSD	SE	Total
2009-10	147	0.33	49		50		54		61		62		54	330	330			330
				1.00		0.98		1.04		0.95		0.95						
2010-11	135	0.30	41		49		49		56		58		59	312	312			312
				1.12		0.98		1.04		1.02		1.02						
2011-12	122	0.34	42		46		48		51		57		59	303	303			303
				0.86		0.96		1.10		1.02		1.00						
2012-13	112	0.33	37		36		44		53		52		57	279	279			279
				1.14		1.06		0.98		1.08		0.92						
2013-14	132	0.33	44		42		38		43		57		48	272	272			272
				1.02		1.00		1.00		1.12		1.00						
2014-15	131	0.36	47		45		42		38		48		57	277	277			277
Av		0.33		1.03		0.99		1.03		1.04		0.98						
Year	Births		K		1		2		3		4		5	K-5	Sub	PSD	SE	Total
																		Total
2015-16	123		40		48		45		43		39		47	263	263			263
2016-17	123		42		41		48		46		45		39	261	261			261
2017-18	124		44		43		41		50		48		44	269	269			269
2018-19	127		43		45		43		42		51		47	271	271			271
2019-20	126		43		44		45		44		44		50	270	270			270

Chart 4: Salem Drive

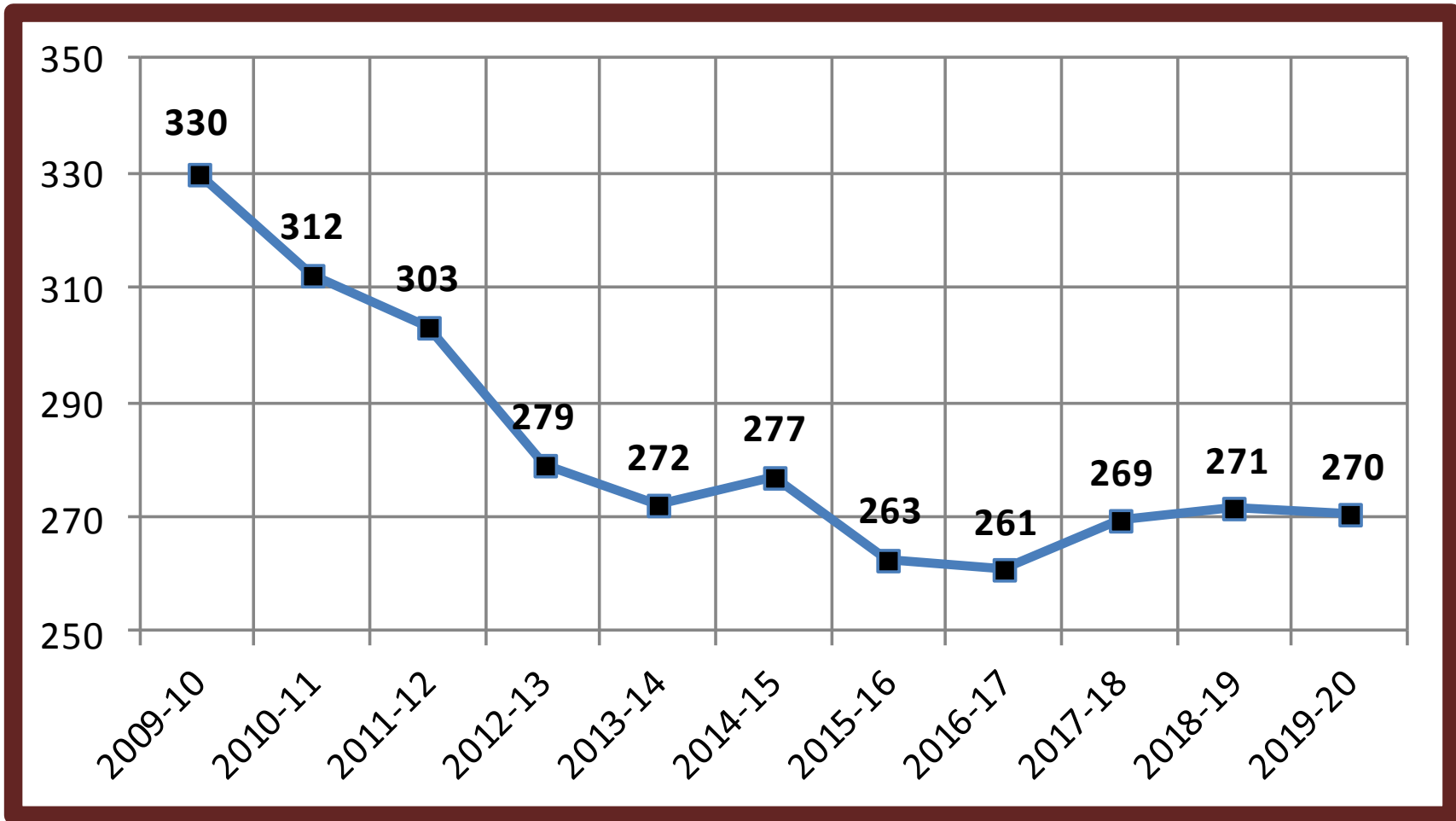


Table 7: Memorial Junior School

	6		7		8	Total
2009-10	185		177		180	542
		0.97		1.00		
2010-11	177		180		177	534
		1.03		1.01		
2011-12	189		183		181	553
		1.00		1.02		
2012-13	184		189		186	559
		1.01		1.00		
2013-14	172		185		189	546
		1.01		1.02		
2014-15	175		173		189	537
Av		1.00		1.01		
Year	6		7		8	Total
2015-16	143		176		175	493
2016-17	177		143		177	498
2017-18	164		178		145	487
2018-19	165		165		180	510
2019-20	154		166		166	486

Chart 5: Memorial Junior School

