

# **WAYLAND PUBLIC SCHOOLS:**

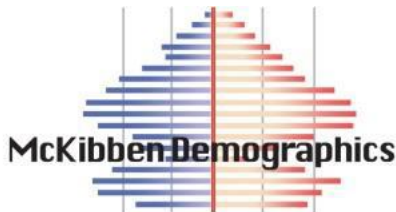
**POPULATION AND ENROLLMENT FORECASTS,  
2020-21 THROUGH 2029-30**

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## EXECUTIVE SUMMARY

1. The resident total fertility for the Wayland Public Schools over the life of the forecasts is below replacement level. (1.71 vs. the replacement level of 2.1)
2. Most in-migration to the district continues to occur in the 0-to-9 and 25-to-44 year old age groups.
3. The local 18-to-24 year old population continues to leave the district, going to college or moving to other urbanized areas. This population group accounts for the largest segment of the district's out migration flow and will increase steadily over the next 10 years. The second largest migration outflow is in the 70+ age groups.
4. The primary factors causing the district's enrollment to increase over the next 10 years is the slowing in the increase of empty nest households, the relatively high number of elderly housing units turning over coupled with a sustained rate of in migration of young families.
5. Changes in year-to-year enrollment over the next ten years will primarily be due to large cohorts entering and moving through the school system in conjunction with smaller cohorts leaving the system.
6. The elementary enrollment will slowly decrease after the 2022-23 school year.
7. The median age of the district's population will decrease from 45.3 in 2010 to 41.4 in 2030.
8. Even if the district continues to have some amount of annual new housing unit construction over the next 10 years, the rate, magnitude and price of existing home sales will become the increasingly dominant factor affecting the amount of population and enrollment change.
9. Total district enrollment is forecasted to increase by 109 students, or 4.0%, between 2019-20 and 2024-25. Total enrollment will increase by 61 students, or 2.2%, from 2024-25 to 2029-30.

## INTRODUCTION

By demographic principle, distinctions are made between projections and forecasts. A projection extrapolates the past (and present) into the future with little or no attempt to take into account any factors that may impact the extrapolation (e.g., changes in fertility rates, housing patterns or migration patterns) while a forecast results when a projection is modified by reasoning to take into account the aforementioned factors.

To maximize the use of this study as a planning tool, the ultimate goal is not simply to project the past into the future, but rather to assess various factors' impact on the future. The future population and enrollment change of each school district is influenced by a variety of factors. Not all factors will influence the entire school district at the same level. Some may affect different areas at dissimilar magnitudes and rates causing changes at varying points of time within the same district.

The forecaster's judgment, based on a thorough and intimate study of the district, has been used to modify the demographic trends and factors to more accurately predict likely changes. Therefore, strictly speaking, this study is a forecast, not a projection; and the amount of modification of the demographic trends varies between different areas of the district as well as within the timeframe of the forecast.

To calculate population forecasts of any type, particularly for smaller populations such as a school district, realistic suppositions must be made as to

what the future will bring in terms of age specific fertility rates and residents' demographic behavior at certain points of the life course. The demographic history of the school district and its interplay with the social and economic history of the area is the starting point and basis of most of these suppositions particularly on key factors such as the age structure of the area.

The unique nature of each district's and attendance area's demographic composition and rate of change over time must be assessed and understood to be factors throughout the life of the forecast series. Moreover, no two populations, particularly at the school district and attendance area level, have exactly the same characteristics.

The manifest purpose of these forecasts is to ascertain the demographic factors that will ultimately influence the enrollment levels in the district's schools. There are of course, other non-demographic factors that affect enrollment levels over time. These factors include, but are not limited to transfer policies within the district; student transfers to and from neighboring districts; placement of "special programs" within school facilities that may serve students from outside the attendance area; state or federal mandates that dictate the movement of students from one facility to another (No Child Left Behind was an excellent example of this factor); the development of charter schools in the district; the prevalence of home schooling in the area; and the dynamics of local private schools.

Unless the district specifically requests the calculation of forecasts that reflect the effects of changes in these non-demographic factors, their influences are held constant for the life of the forecasts. Again, the main function of these forecasts is to determine what impact demographic changes will have on future enrollment. It is quite possible to calculate special “scenario” forecasts to measure the impact of school policy modifications as well as planned economic and financial changes. However in this case the results of these population and enrollment forecast are meant to represent the most likely scenario for changes over the next 10 years in the district and its attendance areas.

The first part of the report will examine the assumptions made in calculating the population forecasts for the Wayland Public Schools. Since the results of the population forecasts drive the subsequent enrollment forecasts, the assumptions listed in this section are paramount to understanding the area’s demographic dynamics. The remainder of the report is an explanation and analysis of the district's population forecasts and how they will shape the district's grade level enrollment forecasts.

## DATA

The data used for the forecasts come from a variety of sources. The Wayland Public Schools provided enrollments by grade and attendance center for the school years 2010-2011 to 2019-20. Birth and death data for the years 2000 through 2017 were obtained from the Massachusetts Department of

Health. The net migration values were calculated using Internal Revenue Service migration reports for the years 2000 through 2016. The data used for the calculation of migration models came from the United States Bureau of the Census, 2005 to 2010, and the models were designed using demographic and economic factors. The base age-sex population counts used are from the results of the 2010 Census.

Recently the Census Bureau began releasing annual estimates of demographic variables at the block group and tract level from the American Community Survey (ACS). There has been wide scale reporting of these results in the national, state and local media. However, due to the methodological problems the Census Bureau is experiencing with their estimates derived from ACS data, particularly in areas with a population of less than 60,000, the results of the ACS are not used in these forecasts.

For example, given the sampling framework used by the Census Bureau, each year only 150 of the over 5,000 current households in the district would have been included. For comparison 800 households in the district were included in the sample for the long form questionnaire in the 2000 Census. As a result of this small sample size, the ACS survey result from the last 5 years must be aggregated to produce the tract and block group estimates.

To develop the population forecast models, past migration patterns, current age specific fertility patterns, the magnitude and dynamics of the gross

migration, the age specific mortality trends, the distribution of the population by age and sex, the rate and type of existing housing unit sales, and future housing unit construction are considered to be primary variables. In addition, the change in household size relative to the age structure of the forecast area was addressed. While there was a slight drop in the average household size in the Wayland Public Schools as well as most other areas of the state during the previous 20 years, the rate of this decline in the district has been forecasted to increase slightly over the next ten years.

## ASSUMPTIONS

For these forecasts, the mortality probabilities are held constant at the levels calculated for the year 2010. While the number of deaths in an area are impacted by and will change given the proportion of the local population over age 65, in the absence of an extraordinary event such as a natural disaster or a breakthrough in the treatment of heart disease, death rates rarely move rapidly in any direction, particularly at the school district or attendance area level. Thus, significant changes are not foreseen in district's mortality rates between now and the year 2029. Any increases forecasted in the number of deaths will be due primarily to the general aging of the district's population and specifically to the increase in the number of residents aged 65 and older.

Similarly, fertility rates are assumed to stay fairly constant for the life of the forecasts. Like mortality rates, age specific fertility rates rarely change quickly or dramatically, particularly in

small areas. Even with the recently reported rise in the fertility rates of the United States, overall fertility rates have stayed within a 10% range for most of the last 40 years. In fact, the vast majority of year to year change in an area's number of births is due to changes in the number of women in child bearing ages (particularly ages 20-29) rather than any fluctuation in an area's fertility rate.

The resident total fertility rate (TFR), the average number of births a woman will have while living in the school district during her lifetime, is estimated to be 1.71 for the total district for the ten years of the population forecasts. A TFR of 2.1 births per woman is considered to be the theoretical "replacement level" of fertility necessary for a population to remain constant in the absence of in-migration. Therefore, in the absence of migration, fertility alone would be insufficient to maintain the current level of population and enrollment within the Wayland Public Schools over the course of the forecast period.

A close examination of data for the Wayland Public Schools has shown the age specific pattern of net migration will be nearly constant throughout the life of the forecasts. While the number of in and out migrants has changed in past years for the Wayland Public Schools (and will change again over the next 10 years), the basic age pattern of the migrants has stayed nearly the same over the last 30 years. Based on the analysis of data it is safe to assume this age specific migration trend will remain unchanged into the future. This pattern of migration shows most of the local out-migration occurring in the 18-to-24 year old age group as young adults leave the area to go to

college or move to other urbanized areas. The second group of out-migrants is those householders aged 70 and older who are downsizing their residences. Most of the local in-migration occurs in the 0-to-9 and 25-44 age groups (the bulk of the which come from areas within 75 miles of the Wayland Public Schools) primarily consisting of younger adults and their children.

As the Middlesex County area is not currently contemplating any major expansions or contractions, the forecasts also assume that the current economic, political, social, and environmental factors, as well as the transportation and public works infrastructure (with a few notable exceptions) of the Wayland Public Schools and its attendance areas will remain the same through the year 2029. Below is a list of assumptions and issues that are specific to the Wayland Public Schools. These issues have been used to modify the population forecast models to more accurately predict the impact of these factors on each area's population change.

Specifically, the forecasts for the Wayland Public Schools assume that throughout the study period:

- a. The national, state or regional economy does not go into deep recession at any time during the 10 years of the forecasts; (Deep recession is defined as four consecutive quarters where the GDP contracts greater than 1% per quarter)
- b. Interest rates have reached a historic low and will not fluctuate more than one percentage point in the short term; the interest rate for a 30 year fixed home mortgage stays below 5.0%;
- c. The rate of mortgage approval stays at 1999-2003 levels and lenders do not return to "sub-prime" mortgage practices;
- d. There are no additional restrictions placed on home mortgage lenders or additional bankruptcies of major credit providers;
- e. The rate of housing foreclosures does not exceed 125% of the 2015-2018 average of Middlesex County for any year in the forecasts;
- f. All currently planned, platted, approved and permitted housing developments are built out and completed by 2028. All housing units constructed are occupied by 2029;
- g. Specifically, the River's Edge complex will build 188 units between 2020 and 2021 with 25% of the units be affordable and 25% being age restricted;
- h. The Cascade complex will build 30 one bedroom and 30 two-bedroom units between 2020 and 2021;
- i. The School Street complex will add 12 units by the end of 2020 and be occupied by 2021;
- j. The district has at least 140 existing single-family home sales annually between 2019 and 2029;

- k. The unemployment rates for the Middlesex County and the Boston Metropolitan Area will remain below 6.0% for the 10 years of the forecasts;
- l. The intra district student transfer policy remains unchanged over the next 10 years;
- m. Specifically, the Spanish Immersion Lottery will continue for the 10 years of the forecasts and be housed at Loker Elementary;
- n. The rate of students transferring into and out of the Wayland Public Schools will remain at the 2015-16 to 2019-20 average;
- o. The inflation rate for gasoline will stay below 5% per year for the 10 years of the forecasts;
- p. There will be no building moratorium within the district;
- q. The State of Massachusetts does not change any of its current laws regarding inter-district transfers, school vouchers or charter schools;
- r. No new charter schools open in the district or surrounding area in the next 10 years;
- s. Businesses within the district and the Wayland Public Schools area will remain viable;
- t. The number of existing home sales in the district that are a result of “distress sales” (homes worth less than the current mortgage value) will not exceed 20% of total homes

sales in the district for any given year;

- u. Housing turnover rates (sale of existing homes in the district) will remain at their current levels. The majority of existing home sales are made by home owners over the age of 60;
- v. Private school and home school attendance rates will remain constant;
- w. The rate of foreclosures for commercial property remains at the 2014-2018 average for Middlesex County.

If a major employer in the district or in the Greater Boston Metropolitan Area (and particularly in the western suburbs) closes, reduces or expands its operations, the population forecasts would need to be adjusted to reflect the changes brought about by the change in economic and employment conditions. The same holds true for any type of natural disaster, major change in the local infrastructure (e.g., highway construction, water and sewer expansion, changes in zoning regulations etc.), a further economic downturn, any additional weakness in the housing market or any instance or situation that causes rapid and dramatic population changes that could not be foreseen at the time the forecasts were calculated.

The high proportion of high school graduates from the Wayland Public Schools that attend college or move to urban areas outside of the district for employment is a significant demographic factor. Their departure is a major reason for the extremely high out-migration in the



18 to 24 age group, and was taken into account when calculating these forecasts. The out-migration of graduating high school seniors is expected to continue over the period of the forecasts and the rate of out-migration has been forecasted to remain the same over the life of the forecast series.

Finally, all demographic trends (i.e., births, deaths, and migration) are assumed to be linear in nature and annualized over the forecast period. For example, if 1,000 births are forecasted for a 5-year period, an equal number, or proportion of the births are assumed to occur every year, 200 per year. Actual year-to-year variations do and will occur, but overall year to year trends are expected to be constant.

## METHODOLOGY

The population forecasts presented in this report are the result of using the Cohort-Component Method of population forecasting (Siegel, and Swanson, 2004: 561-601) (Smith et. al. 2004). As stated in the **INTRODUCTION**, the difference between a projection and a forecast is in the use of explicit judgment based upon the unique features of the area under study. Strictly speaking, a cohort projection refers to the future population that would result if a mathematical extrapolation of historical trends. Conversely, a cohort-component forecast refers to the future population that is expected because of a studied and purposeful selection of the components of change (i.e., births, deaths, and migration) and forecast models are developed to

measure the impact of these changes in each specific geographic area.

Five sets of data are required to generate population and enrollment forecasts. These five data sets are:

- a. a base-year population (here, the 2010 Census population for the Wayland Public Schools and its attendance areas);
- b. a set of age-specific fertility rates for the district to be used over the forecast period and its attendance areas;
- c. a set of age-specific survival (mortality) rates for the district and its attendance areas;
- d. a set of age-specific migration rates for the district and its attendance areas; and;
- e. the historical enrollment figures by grade.

The most significant and difficult aspect of producing enrollment forecasts is the generation of the population forecasts in which the school age population (and enrollment) is embedded. In turn, the most challenging aspect of generating the population forecasts is found in deriving the rates of change in fertility, mortality, and migration. From the standpoint of demographic analysis, the Wayland Public Schools is classified as a “small area” population (as compared to the population of the state of Massachusetts or to that of the United States). Small area population forecasts are more complicated to calculate because local variations in fertility, mortality, and

migration may be more irregular than those at the regional, state or national scale. Especially challenging is the forecast of the migration rates for local areas, because changes in the area's socioeconomic characteristics can quickly change from past and current patterns (Peters and Larkin, 2002.)

The population forecasts for Wayland Public Schools were calculated using a cohort-component method with the populations divided into male and female groups by five-year age cohorts that range from 0-to-4 years of age to 85 years of age and older (85+). Age- and sex-specific fertility, mortality, and migration models were constructed to specifically reflect the unique demographic characteristics of each of the attendance areas in the Wayland Public Schools.

The enrollment forecasts were calculated using a modified average survivorship method. Average survivor rates (i.e., the proportion of students who progress from one grade level to the next given the average amount of net migration for that grade level) over the previous five years of year-to-year enrollment data were calculated for grades two through twelve. This procedure is used to identify specific grades where there are large numbers of students changing facilities for non-demographic factors, such as private school transfers or enrollment in special programs.

The survivorship rates were modified or adjusted to reflect the average rate of forecasted in and out migration of 5-to-9, 10-to-14 and 15-to-17-year-old cohorts to each of the attendance centers in Wayland Public

Schools for the period 2010 to 2015. These survivorship rates then were adjusted to reflect the forecasted changes in age-specific migration the district should experience over the next five years. These modified survivorship rates were used to project the enrollment of grades 2 through 12 for the period 2015 to 2020. The survivorship rates were adjusted again for the period 2020 to 2025 to reflect the predicted changes in the amount of age-specific migration in the district for the period.

The forecasted enrollments for kindergarten and first grade are derived from the 5-to-9 year old population of the age-sex population forecast at the elementary attendance center district level. This procedure allows the changes in the incoming grade sizes to be factors of forecasted population change and not an extrapolation of previous class sizes. Given the potentially large amount of variation in Kindergarten enrollment due to parental choice, changes in the state's minimum age requirement, and differing district policies on allowing children to start Kindergarten early, first grade enrollment is deemed to be a more accurate and reliable starting point for the forecasts. (McKibben, 1996) The level of the accuracy for both the population and enrollment forecasts at the school district level is estimated to be  $\pm 2.0\%$  for the life of the forecasts.

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## Appendix A: Supplemental Tables

**Table 1: Forecasted Elementary Area Population Change, 2010 to 2020**

	2010	2015	2010-2015 Change	2020	2015-2020 Change	2010-2020 Change
Claypit Hill	5,327	5,530	3.8%	5,760	4.2%	8.1%
Happy Hollow	4,896	4,970	1.5%	5,130	3.2%	4.8%
Loker	2,771	2,910	5.0%	3,090	6.2%	11.5%
District Total	12,994	13,410	3.2%	13,980	4.3%	7.6%

**Table 2: Household Characteristics by Elementary Area, 2010 Census**

	HH w/ Pop Under 18	% HH w/ Pop Under 18	Total Households	Household Population	Persons Per Household
Claypit Hill	805	43.4%	1856	5327	2.87
Happy Hollow	694	36.7%	1892	4858	2.57
Loker	387	36.5%	1060	2771	2.61
District Total	1887	39.2%	4808	12956	2.69

**Table 3: Householder Characteristics by Elementary Area, 2010 Census**

	Percentage of Householders aged 35-54	Percentage of Householders aged 65+	Percentage of Householders who own homes
Claypit Hill	45.9%	24.7%	94.9%
Happy Hollow	44.5%	28.9%	79.5%
Loker	41.1%	34.1%	94.2%
District Total	44.3%	28.5%	88.7%

**Table 4: Percentage of Households that are Single Person Households and Single Person Households that are over age 65 by Elementary Area, 2010 Census**

	Percentage of Single Person Households	Percentage of Single Person Households and are 65+
Claypit Hill	13.3%	7.2%
Happy Hollow	26.5%	15.6%
Loker	21.3%	12.3%
District Total	<b>20.2%</b>	<b>11.6%</b>

**Table 5: Elementary Enrollment (PK-5), 2019, 2024, 2029**

	2019	2024	2019-2024 Change	2029	2024-2029 Change	2019-2029 Change
Claypit Hill	508	483	-4.9%	462	-4.3%	-9.1%
Happy Hollow	383	356	-7.0%	343	-3.7%	-10.4%
Loker	324	447	38.0%	440	-1.6%	35.8%
District Total	<b>1,215</b>	<b>1,286</b>	<b>5.8%</b>	<b>1,245</b>	<b>-3.2%</b>	<b>2.5%</b>

**Table 6: Age Under One to Age Ten Population Counts, by Year of Age, by Elementary Area: 2010 Census**

	Under 1 year	1 year	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years
Claypit Hill	39	44	57	67	71	69	69	86	95	104	105
Happy Hollow	47	42	42	57	64	62	71	59	73	84	69
Loker	21	29	20	22	40	43	29	57	40	48	40
District Total	<b>107</b>	<b>116</b>	<b>119</b>	<b>145</b>	<b>175</b>	<b>174</b>	<b>169</b>	<b>202</b>	<b>207</b>	<b>235</b>	<b>214</b>

**Table 7: Comparison of District Resident Enrollment by Grade with 2010 Census Counts by Age, 2016-2019**

2010 Census	Under 1 year	1 year	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years	11 years	12 years	13 years
<b>Wayland Public Schools Total</b>	<b>107</b>	<b>116</b>	<b>119</b>	<b>145</b>	<b>175</b>	<b>174</b>	<b>169</b>	<b>202</b>	<b>207</b>	<b>235</b>	<b>214</b>	<b>220</b>	<b>251</b>	<b>224</b>
2019 Enrollment	195	190	206	241	211	202	198	230	206					
	182.2%	163.8%	173.1%	166.2%	120.6%	116.1%	117.2%	113.9%	99.5%					
2018 Enrollment	194	185	202	242	217	210	199	236	209	204				
	181.3%	159.5%	169.7%	166.9%	124.0%	120.7%	117.8%	116.8%	101.0%	86.8%				
2017 Enrollment	190	185	195	236	221	209	208	234	210	202	213			
	177.6%	159.5%	163.9%	162.8%	126.3%	120.1%	123.1%	115.8%	101.4%	86.0%	99.5%			
2016 Enrollment	183	191	184	227	217	208	198	232	214	205	220	192		
	171.0%	164.7%	154.6%	156.6%	124.0%	119.5%	117.2%	114.9%	103.4%	87.2%	102.8%	87.3%		

## Appendix B: Population Forecasts

### Wayland Public Schools Total Population

	2010	2015	2020	2025	2030
<b>0-4</b>	662	720	810	790	780
<b>5-9</b>	987	1,130	1,180	1,140	1,100
<b>10-14</b>	1,141	1,000	1,190	1,240	1,190
<b>15-19</b>	949	940	810	1,010	1,060
<b>20-24</b>	367	480	450	410	490
<b>25-29</b>	290	550	690	640	580
<b>30-34</b>	374	480	750	880	820
<b>35-39</b>	728	470	570	840	1,040
<b>40-44</b>	912	820	580	670	980
<b>45-49</b>	1,277	910	820	590	690
<b>50-54</b>	1,199	1,270	910	800	580
<b>55-59</b>	1,057	1,170	1,240	870	780
<b>60-64</b>	913	980	1,080	1,130	800
<b>65-69</b>	640	810	870	970	1,040
<b>70-74</b>	458	540	710	770	860
<b>75-79</b>	352	410	520	680	720
<b>80-84</b>	345	350	410	490	660
<b>85+</b>	343	380	390	430	510
<b>Total</b>	<b>12,994</b>	<b>13,410</b>	<b>13,980</b>	<b>14,350</b>	<b>14,680</b>
<b>Median Age</b>	45.3	45.6	44.7	41.7	41.4
<b>Births</b>	480	550	540	550	
<b>Deaths</b>	520	540	570	640	
<b>Natural Increase</b>	-40	10	-30	-90	
<b>Net Migration</b>	470	500	470	440	
<b>Change</b>	430	510	440	350	

Differences between period Totals may not equal Change due to rounding.

**Claypit Hill Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	278	300	340	330	330
<b>5-9</b>	422	500	500	450	430
<b>10-14</b>	524	420	540	540	480
<b>15-19</b>	418	440	340	470	460
<b>20-24</b>	134	190	200	150	220
<b>25-29</b>	122	210	270	280	220
<b>30-34</b>	125	200	290	350	360
<b>35-39</b>	268	170	240	320	410
<b>40-44</b>	360	310	210	280	400
<b>45-49</b>	561	360	310	230	300
<b>50-54</b>	505	560	360	290	230
<b>55-59</b>	460	490	540	340	290
<b>60-64</b>	400	430	450	500	310
<b>65-69</b>	271	360	380	410	460
<b>70-74</b>	171	230	310	340	360
<b>75-79</b>	110	150	220	300	320
<b>80-84</b>	111	110	150	210	290
<b>85+</b>	88	100	110	140	190
<b>Total</b>	<b>5,327</b>	<b>5,530</b>	<b>5,760</b>	<b>5,930</b>	<b>6,060</b>
<b>Median Age</b>	45.1	45.3	43.8	41.3	41.5
<b>Births</b>	190	220	210	220	
<b>Deaths</b>	180	190	210	260	
<b>Natural Increase</b>	10	30	0	-40	
<b>Net Migration</b>	190	200	190	180	
<b>Change</b>	200	230	190	140	

*Differences between period Totals may not equal Change due to rounding.*



**Happy Hollow Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	252	260	290	280	280
<b>5-9</b>	349	370	380	370	360
<b>10-14</b>	369	370	390	400	390
<b>15-19</b>	360	320	320	340	360
<b>20-24</b>	170	220	180	210	200
<b>25-29</b>	124	210	280	220	250
<b>30-34</b>	180	160	260	320	260
<b>35-39</b>	305	200	190	280	360
<b>40-44</b>	363	320	230	210	320
<b>45-49</b>	471	360	320	220	210
<b>50-54</b>	450	470	360	320	220
<b>55-59</b>	377	440	460	350	310
<b>60-64</b>	310	360	410	420	330
<b>65-69</b>	202	280	320	380	400
<b>70-74</b>	150	170	250	290	340
<b>75-79</b>	133	140	170	250	280
<b>80-84</b>	145	130	140	160	240
<b>85+</b>	185	190	180	170	190
<b>Total</b>	<b>4,896</b>	<b>4,970</b>	<b>5,130</b>	<b>5,190</b>	<b>5,300</b>
<b>Median Age</b>	44.7	45.8	45.7	44.2	43.0
<b>Births</b>	190	210	210	220	
<b>Deaths</b>	220	220	220	230	
<b>Natural Increase</b>	-30	-10	-10	-10	
<b>Net Migration</b>	110	120	110	100	
<b>Change</b>	80	110	100	90	

*Differences between period Totals may not equal Change due to rounding.*

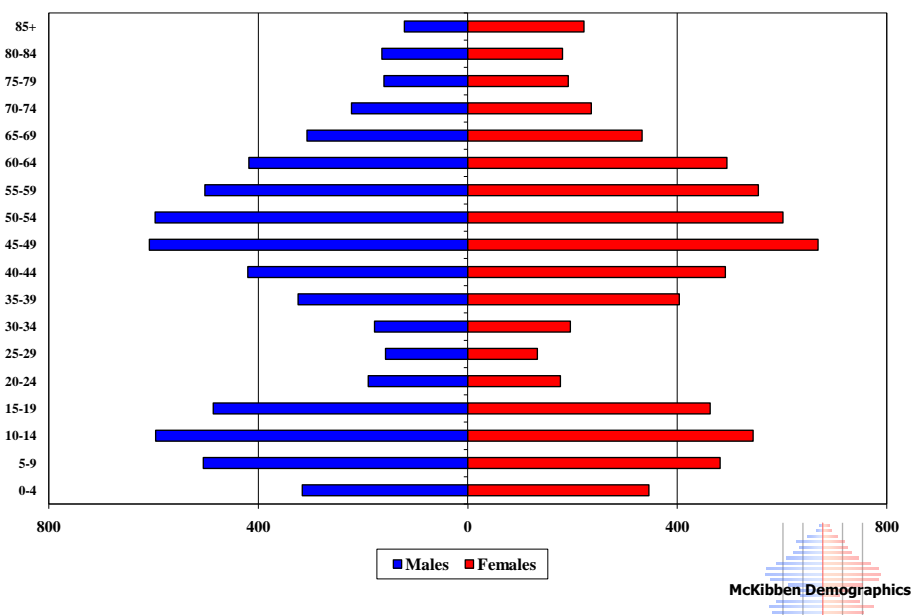
**Loker Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	132	160	180	180	170
<b>5-9</b>	216	260	300	320	310
<b>10-14</b>	248	210	260	300	320
<b>15-19</b>	171	180	150	200	240
<b>20-24</b>	63	70	70	50	70
<b>25-29</b>	44	130	140	140	110
<b>30-34</b>	69	120	200	210	200
<b>35-39</b>	155	100	140	240	270
<b>40-44</b>	189	190	140	180	260
<b>45-49</b>	245	190	190	140	180
<b>50-54</b>	244	240	190	190	130
<b>55-59</b>	220	240	240	180	180
<b>60-64</b>	203	190	220	210	160
<b>65-69</b>	167	170	170	180	180
<b>70-74</b>	137	140	150	140	160
<b>75-79</b>	109	120	130	130	120
<b>80-84</b>	89	110	120	120	130
<b>85+</b>	70	90	100	120	130
<b>Total</b>	<b>2,771</b>	<b>2,910</b>	<b>3,090</b>	<b>3,230</b>	<b>3,320</b>
<b>Median Age</b>	47.0	45.9	43.8	39.5	39.4
<b>Births</b>	100	120	120	110	
<b>Deaths</b>	120	130	140	150	
<b>Natural Increase</b>	-20	-10	-20	-40	
<b>Net Migration</b>	170	180	170	160	
<b>Change</b>	150	170	150	120	

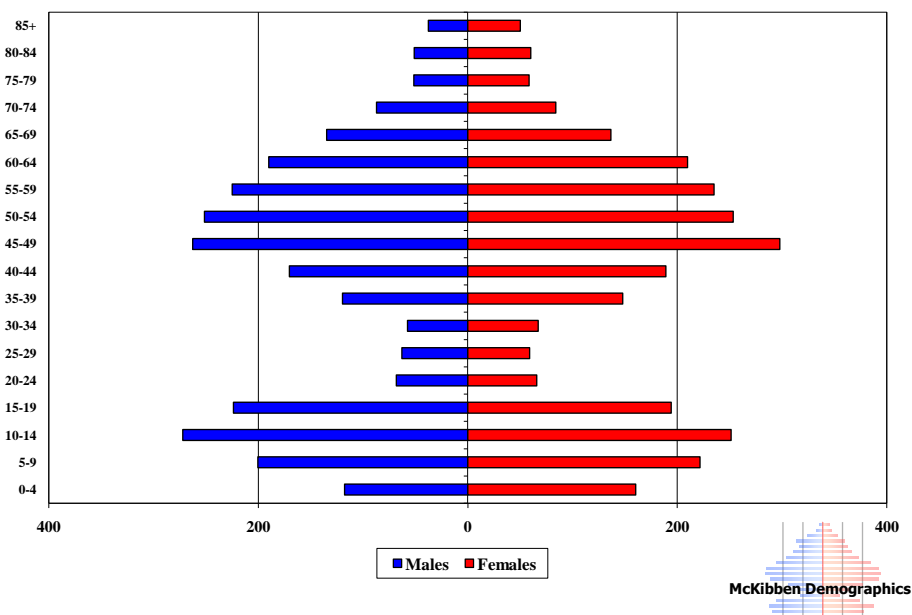
*Differences between period Totals may not equal Change due to rounding.*

## Appendix C: Population Pyramids

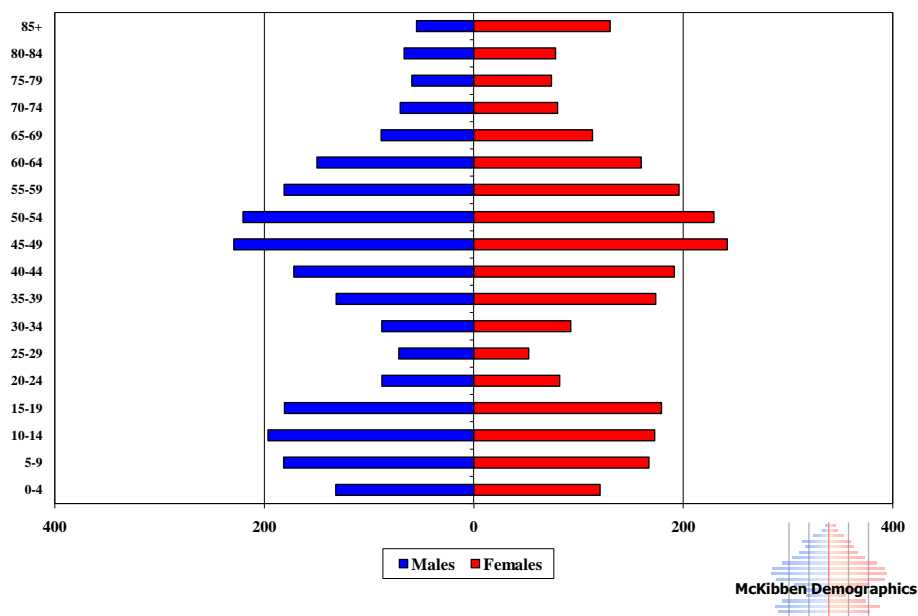
Wayland Elementary Total Population – 2010 Census



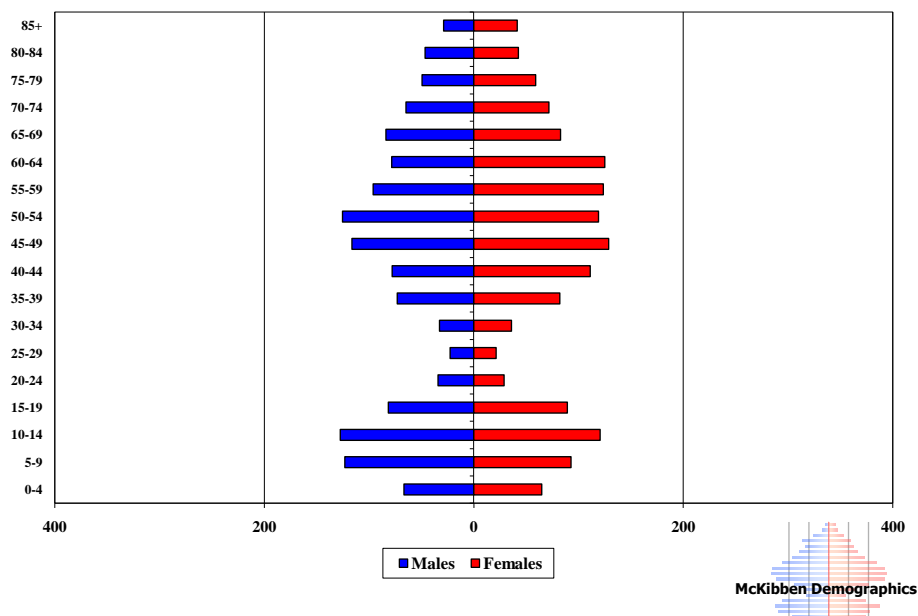
Claypit Hill Elementary Total Population – 2010 Census



### Happy Hollow Elementary Total Population – 2010 Census



### Loker Elementary Total Population – 2010 Census



## Appendix D: Enrollment Forecasts

### Wayland Public Schools Total Enrollment

	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
PK	0	0	0	19	19	19	19	19	19	19	19	19	19	19
K	184	208	170	183	189	187	186	185	182	182	179	178	175	178
1	183	196	225	178	200	203	201	200	199	196	196	193	192	189
2	191	190	204	239	187	210	214	212	211	210	207	207	204	203
3	184	185	194	211	246	193	216	221	219	218	217	214	214	211
4	227	195	185	195	216	252	197	222	226	224	223	222	219	219
5	217	236	202	190	201	223	260	204	230	233	231	230	229	226
Total: PK-5	1186	1210	1180	1215	1258	1287	1293	1263	1286	1282	1272	1263	1252	1245
6	208	221	242	206	195	206	229	267	209	236	239	237	236	235
7	198	209	217	241	205	194	205	228	266	208	235	238	236	235
8	232	208	210	211	243	207	196	207	230	269	210	237	240	238
Total: 6-8	638	638	669	658	643	607	630	702	705	713	684	712	712	708
9	214	234	199	202	207	238	203	192	203	225	264	206	232	235
10	205	210	236	198	201	206	237	202	191	202	224	263	205	231
11	220	202	209	230	196	199	204	235	200	189	200	222	260	203
12	192	213	204	206	228	194	197	202	233	198	187	198	220	257
Total: 9-12	831	859	848	836	832	837	841	831	827	814	875	889	917	926
Total: PK-12	2655	2707	2697	2709	2733	2731	2764	2796	2818	2809	2831	2864	2881	2879
Total: PK-12	2655	2707	2697	2709	2733	2731	2764	2796	2818	2809	2831	2864	2881	2879
Change		52	-10	12	24	-2	33	32	22	-9	22	33	17	-2
%-Change		2.0%	-0.4%	0.4%	0.9%	-0.1%	1.2%	1.2%	0.8%	-0.3%	0.8%	1.2%	0.6%	-0.1%
Total: K-5	1186	1210	1180	1215	1258	1287	1293	1263	1286	1282	1272	1263	1252	1245
Change		24	-30	35	43	29	6	-30	23	-4	-10	-9	-11	-7
%-Change		2.0%	-2.5%	3.0%	3.5%	2.3%	0.5%	-2.3%	1.8%	-0.3%	-0.8%	-0.7%	-0.9%	-0.6%
Total: 6-8	638	638	669	658	643	607	630	702	705	713	684	712	712	708
Change		0	31	-11	-15	-36	23	72	3	8	-29	28	0	-4
%-Change		0.0%	4.9%	-1.6%	-2.3%	-5.6%	3.8%	11.4%	0.4%	1.1%	-4.1%	4.1%	0.0%	-0.6%
Total: 9-12	831	859	848	836	832	837	841	831	827	814	875	889	917	926
Change		28	-11	-12	-4	5	4	-10	-4	-13	61	14	28	9
%-Change		3.4%	-1.3%	-1.4%	-0.5%	0.6%	0.5%	-1.2%	-0.5%	-1.6%	7.5%	1.6%	3.1%	1.0%

Blue cells are historical data; Red numbers are current enrollment; Orange cells are forecasted enrollment.

**Claypit Hill Elementary: Total Enrollment**

	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
PK	0	0	0	7	7	7	7	7	7	7	7	7	7	7
K	90	92	79	73	71	70	69	69	68	68	67	67	66	67
1	84	93	100	62	82	77	76	75	75	74	74	73	73	72
2	83	84	98	105	64	85	80	79	78	78	77	77	76	76
3	87	74	87	98	107	65	86	81	80	79	79	78	78	77
4	101	94	75	85	100	109	66	88	83	82	81	81	80	80
5	96	105	97	78	88	104	113	69	92	86	85	84	84	83
<b>Total K-5</b>	541	542	536	508	519	517	497	468	483	474	470	467	464	462
<b>Total K-5</b>	541	542	536	508	519	517	497	468	483	474	470	467	464	462
<b>Change</b>		1	-6	-28	11	-2	-20	-29	15	-9	-4	-3	-3	-2
<b>% Change</b>		0.2%	-1.1%	-5.2%	2.2%	-0.4%	-3.9%	-5.8%	3.2%	-1.9%	-0.8%	-0.6%	-0.6%	-0.4%

Blue cells are historical data; Red numbers are current enrollment; Orange cells are forecasted enrollment.

**Happy Hollow Elementary: Total Enrollment**

	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
PK	0	0	0	5	5	5	5	5	5	5	5	5	5	5
K	58	59	53	55	50	50	51	51	50	50	49	49	48	49
1	58	62	65	56	59	54	54	55	55	54	54	53	53	52
2	66	62	62	69	59	62	57	57	58	58	57	57	56	56
3	59	68	61	66	71	61	64	59	59	60	60	59	59	58
4	73	62	69	63	69	74	63	67	61	61	62	62	61	61
5	73	74	65	69	64	70	75	64	68	62	62	63	63	62
<b>Total K-5</b>	387	387	375	383	377	376	369	358	356	350	349	348	345	343
<b>Total K-5</b>	387	387	375	383	377	376	369	358	356	350	349	348	345	343
<b>Change</b>		0	-12	8	-6	-1	-7	-11	-2	-6	-1	-1	-3	-2
<b>% Change</b>		0.0%	-3.1%	2.1%	-1.6%	-0.3%	-1.9%	-3.0%	-0.6%	-1.7%	-0.3%	-0.3%	-0.9%	-0.6%

Blue cells are historical data; Red numbers are current enrollment; Orange cells are forecasted enrollment.

**Loker Elementary: Total Enrollment**

	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
PK	0	0	0	7	7	7	7	7	7	7	7	7	7	7
K	36	57	38	55	68	67	66	65	64	64	63	62	61	62
1	41	41	60	60	59	72	71	70	69	68	68	67	66	65
2	42	44	44	65	64	63	77	76	75	74	73	73	72	71
3	38	43	46	47	68	67	66	81	80	79	78	77	77	76
4	53	39	41	47	47	69	68	67	82	81	80	79	78	78
5	48	57	40	43	49	49	72	71	70	85	84	83	82	81
<b>Total K-5</b>	258	281	269	324	362	394	427	437	447	458	453	448	443	440
<b>Total K-5</b>	258	281	269	324	362	394	427	437	447	458	453	448	443	440
<b>Change</b>		23	-12	55	38	32	33	10	10	11	-5	-5	-5	-3
<b>% Change</b>		8.9%	-4.3%	20.4%	11.7%	8.8%	8.4%	2.3%	2.3%	2.5%	-1.1%	-1.1%	-1.1%	-0.7%

Blue cells are historical data; Red numbers are current enrollment; Orange cells are forecasted enrollment.

**Wayland Middle School: Total Enrollment**

	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
6	208	221	242	206	195	206	229	267	209	236	239	237	236	235
7	198	209	217	241	205	194	205	228	266	208	235	238	236	235
8	232	208	210	211	243	207	196	207	230	269	210	237	240	238
<b>Total: 6-8</b>	638	638	669	658	643	607	630	702	705	713	684	712	712	708
<b>Total: 6-8</b>	638	638	669	658	643	607	630	702	705	713	684	712	712	708
<b>Change</b>		0	31	-11	-15	-36	23	72	3	8	-29	28	0	-4
<b>% Change</b>		0.0%	4.9%	-1.6%	-2.3%	-5.6%	3.8%	11.4%	0.4%	1.1%	-4.1%	4.1%	0.0%	-0.6%

Blue cells are historical data; Red numbers are current enrollment; Orange cells are forecasted enrollment.

**Wayland High School: Total Enrollment**

	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
9	214	234	199	202	207	238	203	192	203	225	264	206	232	235
10	205	210	236	198	201	206	237	202	191	202	224	263	205	231
11	220	202	209	230	196	199	204	235	200	189	200	222	260	203
12	192	213	204	206	228	194	197	202	233	198	187	198	220	257
<b>Total: 9-12</b>	831	859	848	836	832	837	841	831	827	814	875	889	917	926
<b>Total: 9-12</b>	831	859	848	836	832	837	841	831	827	814	875	889	917	926
<b>Change</b>		28	-11	-12	-4	5	4	-10	-4	-13	61	14	28	9
<b>% Change</b>		3.4%	-1.3%	-1.4%	-0.5%	0.6%	0.5%	-1.2%	-0.5%	-1.6%	7.5%	1.6%	3.1%	1.0%

*Blue cells are historical data; Red numbers are current enrollment; Orange cells are forecasted enrollment*