

# **Park Ridge-Niles School District 64:**

## **POPULATION AND ENROLLMENT FORECASTS, 2018-19 THROUGH 2028-29**

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**McKibben Demographic Research, LLC  
Jerome McKibben, Ph.D.  
Rock Hill, SC**

**[j.mckibben@mckibbendemographics.com](mailto:j.mckibben@mckibbendemographics.com)**

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## EXECUTIVE SUMMARY

1. The resident total fertility rate for the Park Ridge-Niles School District 64 over the life of the forecasts is below replacement level. (1.77 vs. the replacement level of 2.1)
2. Most in-migration to the district continues to occur in the 0-to-9 and 30-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 overall enrollment to decrease over the next 10 years is the increase in empty nest households, the relatively low number of elderly housing units turning over coupled with a flat rate of in migration of young families.
5. Changes in year-to-year enrollment over the next ten years will primarily be due to small cohorts entering and moving through the school system in conjunction with larger cohorts leaving the system.
6. The elementary enrollment will slowly decrease over the next 10 years school years.
7. The median age of the district's population will increase from 44.9 in 2010 to 45.1 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 100 students, or 2.2%, between 2018-19 and 2023-24. Total enrollment will decrease by 137 students, or-3.0%, from 2023-24 to 2028-29.

## 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 Park Ridge-Niles School District 64. 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 Park Ridge-Niles School District 64 provided enrollments by grade and attendance center for the school years 2014-15 to 2018-19. Birth and death data for the years 2000 through 2017 were obtained from the Illinois 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 450 of the over 15,500 current households in the district would have been included. For comparison, 2,100 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 Park Ridge-Niles School District 64 as well as most other areas of the state during the previous 20 years, the rate of this decline has been forecasted to slow 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 2028. 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 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 1.77 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 below the level needed to maintain the current level of population and enrollment within the Park Ridge-Niles School District 64 over the course of the forecast period. In fact, if the district experienced no in-migration over the next 10 and had to rely solely on resident births, the district's K-5 enrollment in 2028 would be approximately half of the 2018 level.

A close examination of data for the Park Ridge-Niles School District 64 has shown the age specific pattern of net migration will be nearly constant throughout the life of the forecasts. While the gross number of in and out migrants has changed in past years for the Park Ridge-Niles School District 64 (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 the local 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 in-migration occurs in the 0-to-9 and 30-44 age groups (the bulk of the which come from areas within 75 miles of the Park Ridge-Niles School District 64) primarily consisting of younger adults and their children.

As the Cook 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 Park Ridge-Niles School District 64 and its attendance areas will remain the same through the year 2028. Below is a list of assumptions and issues that are specific to the Park Ridge-Niles School District 64. 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 Park Ridge-Niles School District 64 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 come off their historic lows and will not fluctuate more than one percentage point in the short term; the interest rate for a 30 year fixed home mortgage stays between 5.0% and 6.0% over the next 10 years;

- 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 2005-2007 average of Cook County for any year in the forecasts;
- f. All currently planned, platted, and approved housing developments are built out and completed by 2027. All housing units constructed are occupied by 2028;
- g. The unemployment rates for the Cook County and the Chicago Metropolitan Area will remain below 6.5% for the 10 years of the forecasts;
- h. The intra district student transfer policy remains unchanged over the next 10 years;
- i. The rate of students transferring into and out of the Park Ridge-Niles School District 64 will remain at the 2017-18 level;
- j. There are no new private schools opened in the district or in Cook County over the next 10 years;
- k. The inflation rate for gasoline will stay below 5% per year for the 10 years of the forecasts;
- l. The state of Illinois does not change the current policy on open enrollment, charters or school vouchers anytime in the next 10 years;

- m. There will be no building moratorium within the district;
- n. Businesses within the district and the Park Ridge-Niles School District 64 area will remain viable;
- o. 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;
- p. 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;
- q. The current rates of private school and home school attendance rates will remain constant;
- r. The rate of foreclosures for commercial property remains at the 2004-2008 average for Cook County.

If a major employer in the district or in the Cook County area or the greater Chicago Metropolitan Area 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 Park Ridge-Niles School



District 64 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), the age structure of the total population 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 Park Ridge-Niles School District 64 and its attendance areas);
- b. a set of age-specific fertility rates to be used over the forecast period for the district 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 Park Ridge-Niles School District 64 is classified as a “small area” population (as compared to the population of the state of Illinois 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 Park Ridge-Niles School District 64 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 Park Ridge-Niles School District 64.

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 Park Ridge-Niles School District 64 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
<b>Carpenter</b>	6,022	6,030	0.1%	6,030	0.0%	0.1%
<b>Field</b>	10,054	9,970	-0.8%	9,960	-0.1%	-0.9%
<b>Franklin</b>	7,595	7,620	0.3%	7,630	0.1%	0.5%
<b>Roosevelt</b>	8,726	8,820	1.1%	8,880	0.7%	1.8%
<b>Washington</b>	7,930	8,020	1.1%	8,090	0.9%	2.0%
<b>District Total</b>	<b>40,326</b>	<b>40,460</b>	<b>0.3%</b>	<b>40,590</b>	<b>0.3%</b>	<b>0.7%</b>

**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
<b>Carpenter</b>	728	31.0%	2,350	5,971	2.54
<b>Field</b>	1,201	32.0%	3,749	9,746	2.60
<b>Franklin</b>	875	29.2%	2,998	7,549	2.52
<b>Roosevelt</b>	1,223	40.4%	3,027	8,726	2.88
<b>Washington</b>	1,033	33.7%	3,065	7,929	2.59
<b>District Total</b>	<b>5,060</b>	<b>33.3%</b>	<b>15,189</b>	<b>39,920</b>	<b>2.63</b>

**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
<b>Carpenter</b>	39.1%	35.5%	90.4%
<b>Field</b>	37.9%	34.4%	85.7%
<b>Franklin</b>	39.6%	31.4%	82.8%
<b>Roosevelt</b>	45.4%	26.7%	91.0%
<b>Washington</b>	41.5%	29.3%	86.1%
<b>District Total</b>	<b>40.6%</b>	<b>31.4%</b>	<b>87.0%</b>

**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+
<b>Carpenter</b>	24.6%	13.9%
<b>Field</b>	25.8%	15.4%
<b>Franklin</b>	25.9%	12.3%
<b>Roosevelt</b>	17.9%	10.3%
<b>Washington</b>	26.2%	13.4%
<b>District Total</b>	<b>24.1%</b>	<b>13.1%</b>

**Table 5: Elementary Enrollment (K-5), 2018, 2023, 2028**

	2018	2023	2018-2023 Change	2028	2023-2028 Change	2018-2028 Change
<b>Carpenter</b>	461	457	-0.9%	430	-5.9%	-6.7%
<b>Field</b>	650	659	1.4%	622	-5.6%	-4.3%
<b>Franklin</b>	529	519	-1.9%	498	-4.0%	-5.9%
<b>Roosevelt</b>	647	690	6.6%	651	-5.7%	0.6%
<b>Washington</b>	653	640	-2.0%	613	-4.2%	-6.1%
<b>District Total</b>	<b>2,940</b>	<b>2,965</b>	<b>0.9%</b>	<b>2,814</b>	<b>-5.1%</b>	<b>-4.3%</b>

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

	Under 1year	1 year	2 years	3 years	4 years	5 years	6 years	7 years	8 years	9 years	10 years
<b>Carpenter</b>	54	68	72	70	71	86	71	71	76	61	70
<b>Field</b>	85	90	87	103	109	118	124	135	135	127	146
<b>Franklin</b>	60	58	62	73	86	61	80	93	107	83	96
<b>Roosevelt</b>	88	67	86	113	101	137	121	124	149	157	142
<b>Washington</b>	75	74	86	90	80	123	100	113	123	122	137
<b>District Total</b>	<b>362</b>	<b>357</b>	<b>393</b>	<b>449</b>	<b>447</b>	<b>525</b>	<b>496</b>	<b>536</b>	<b>590</b>	<b>550</b>	<b>591</b>

**Table 7: Comparison of District Resident Enrollment by Grade with 2010 Census Counts by Age, 2014-2018**

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
Park Ridge- Niles School District 64 Total	362	357	393	449	447	525	496	536	590	550	591	571	592
2018 Enrollment	542 149.6%	507 142.2%	521 132.7%	521 116.1%	552 123.6%	512 97.6%							
2017 Enrollment	529 146.0%	494 138.5%	515 131.2%	508 113.2%	545 122.0%	510 97.2%	546 110.0%						
2016 Enrollment	526 145.1%	486 136.3%	517 131.7%	494 110.1%	536 120.0%	510 97.2%	541 109.0%	504 94.0%					
2015 Enrollment	444 122.5%	468 131.2%	500 127.4%	489 109.0%	534 119.5%	496 94.6%	529 106.6%	509 95.0%	486 82.4%				
2014 Enrollment		400 112.2%	483 123.0%	484 107.9%	517 115.7%	480 91.5%	510 102.8%	492 91.8%	481 81.6%	521 94.8%			

## Appendix B: Population Forecasts

### Park Ridge-Niles School District 64 Total Population

	2010	2015	2020	2025	2030
0-4	2,007	2,060	2,130	1,990	1,880
5-9	2,696	2,640	2,710	2,720	2,590
10-14	3,007	2,710	2,670	2,730	2,750
15-19	2,918	2,750	2,440	2,420	2,500
20-24	1,753	1,830	1,630	1,390	1,410
25-29	1,459	1,880	1,990	1,770	1,520
30-34	1,422	1,730	2,160	2,240	2,020
35-39	2,081	1,810	2,120	2,550	2,590
40-44	2,850	2,330	2,080	2,360	2,790
45-49	3,487	2,830	2,320	2,060	2,350
50-54	3,619	3,440	2,790	2,280	2,030
55-59	3,087	3,540	3,360	2,730	2,240
60-64	2,483	2,960	3,370	3,220	2,600
65-69	1,799	2,240	2,680	3,110	2,950
70-74	1,614	1,600	1,990	2,410	2,790
75-79	1,469	1,420	1,400	1,750	2,120
80-84	1,305	1,200	1,150	1,140	1,410
85+	1,271	1,490	1,600	1,600	1,640
Total	40,326	40,460	40,590	40,470	40,180
Median Age	44.9	45.9	45.8	45.2	45.1
Births	1,600	1,670	1,590	1,160	
Deaths	2,090	2,180	2,270	1,930	
Natural Increase	-490	-510	-680	-770	
Net Migration	620	650	610	470	
Change	130	140	-70	-300	

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

**Carpenter Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	334	330	350	320	300
<b>5-9</b>	364	420	420	430	400
<b>10-14</b>	344	360	420	420	430
<b>15-19</b>	398	300	320	380	380
<b>20-24</b>	265	260	150	180	240
<b>25-29</b>	204	280	280	170	190
<b>30-34</b>	228	240	320	320	210
<b>35-39</b>	335	310	330	400	390
<b>40-44</b>	410	350	330	340	420
<b>45-49</b>	536	410	350	330	340
<b>50-54</b>	554	530	400	340	320
<b>55-59</b>	442	540	510	400	340
<b>60-64</b>	348	430	520	500	380
<b>65-69</b>	259	310	390	480	460
<b>70-74</b>	273	230	270	340	430
<b>75-79</b>	258	250	200	240	300
<b>80-84</b>	262	210	190	160	190
<b>85+</b>	209	270	280	280	260
<b>Total</b>	<b>6,022</b>	<b>6,030</b>	<b>6,030</b>	<b>6,030</b>	<b>5,980</b>
<b>Median Age</b>	46.2	47.0	46.4	45.8	45.4
<b>Births</b>	250	260	240	230	
<b>Deaths</b>	360	360	360	360	
<b>Natural Increase</b>	-110	-100	-120	-130	
<b>Net Migration</b>	100	110	100	90	
<b>Change</b>	-10	10	-20	-40	

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



**Field Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	475	500	490	470	440
<b>5-9</b>	640	570	600	590	570
<b>10-14</b>	743	640	600	630	620
<b>15-19</b>	708	680	570	530	570
<b>20-24</b>	426	510	470	370	340
<b>25-29</b>	354	450	550	500	390
<b>30-34</b>	346	420	520	610	560
<b>35-39</b>	496	440	520	620	700
<b>40-44</b>	648	590	540	620	720
<b>45-49</b>	835	640	590	530	610
<b>50-54</b>	852	830	640	570	520
<b>55-59</b>	784	830	810	620	560
<b>60-64</b>	597	730	770	740	570
<b>65-69</b>	491	530	650	700	680
<b>70-74</b>	431	420	460	580	610
<b>75-79</b>	406	380	380	410	510
<b>80-84</b>	354	330	310	310	330
<b>85+</b>	468	480	490	470	470
<b>Total</b>	<b>10,054</b>	<b>9,970</b>	<b>9,960</b>	<b>9,870</b>	<b>9,770</b>
<b>Median Age</b>	46.1	46.4	46.0	45.0	44.8
<b>Births</b>	370	390	380	340	
<b>Deaths</b>	600	600	600	610	
<b>Natural Increase</b>	-230	-210	-220	-270	
<b>Net Migration</b>	160	170	170	160	
<b>Change</b>	-70	-40	-50	-110	

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

**Franklin Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	338	350	350	330	300
<b>5-9</b>	424	460	480	470	440
<b>10-14</b>	502	430	460	480	470
<b>15-19</b>	518	440	350	400	420
<b>20-24</b>	326	340	250	170	230
<b>25-29</b>	360	380	400	310	230
<b>30-34</b>	325	420	440	460	370
<b>35-39</b>	416	410	510	540	540
<b>40-44</b>	532	440	440	540	560
<b>45-49</b>	611	520	440	440	540
<b>50-54</b>	671	600	520	430	440
<b>55-59</b>	582	660	590	510	430
<b>60-64</b>	505	560	630	570	490
<b>65-69</b>	380	450	500	570	510
<b>70-74</b>	328	360	420	470	530
<b>75-79</b>	323	280	310	370	420
<b>80-84</b>	264	260	230	250	300
<b>85+</b>	193	260	310	310	340
<b>Total</b>	<b>7,595</b>	<b>7,620</b>	<b>7,630</b>	<b>7,620</b>	<b>7,560</b>
<b>Median Age</b>	45.5	46.3	46.5	46.3	47.0
<b>Births</b>	300	290	270	240	
<b>Deaths</b>	400	430	450	480	
<b>Natural Increase</b>	-100	-140	-180	-240	
<b>Net Migration</b>	150	160	150	140	
<b>Change</b>	50	20	-30	-100	

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

**Roosevelt Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	454	450	490	460	440
<b>5-9</b>	688	620	610	630	610
<b>10-14</b>	769	700	620	610	630
<b>15-19</b>	725	730	660	590	580
<b>20-24</b>	411	420	430	380	320
<b>25-29</b>	244	430	430	440	400
<b>30-34</b>	242	300	480	480	490
<b>35-39</b>	423	290	350	530	530
<b>40-44</b>	710	470	350	390	570
<b>45-49</b>	788	710	470	340	390
<b>50-54</b>	813	770	690	470	340
<b>55-59</b>	679	800	760	680	450
<b>60-64</b>	528	660	770	740	660
<b>65-69</b>	342	490	610	730	690
<b>70-74</b>	313	310	440	560	660
<b>75-79</b>	228	270	260	380	480
<b>80-84</b>	197	190	220	220	310
<b>85+</b>	172	210	240	260	290
<b>Total</b>	<b>8,726</b>	<b>8,820</b>	<b>8,880</b>	<b>8,890</b>	<b>8,840</b>
<b>Median Age</b>	42.9	45.0	45.2	44.2	43.7
<b>Births</b>	340	380	370	350	
<b>Deaths</b>	350	390	440	480	
<b>Natural Increase</b>	-10	-10	-70	-130	
<b>Net Migration</b>	90	90	80	80	
<b>Change</b>	80	80	10	-50	

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

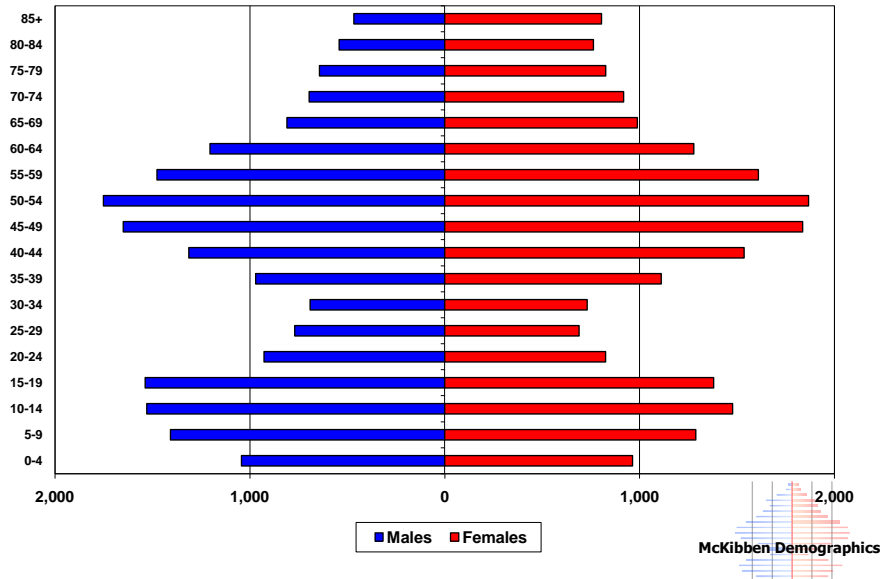
**Washington Elementary Total Population**

	2010	2015	2020	2025	2030
<b>0-4</b>	405	430	450	410	400
<b>5-9</b>	581	570	600	600	570
<b>10-14</b>	649	580	570	590	600
<b>15-19</b>	568	600	540	520	550
<b>20-24</b>	325	300	330	290	280
<b>25-29</b>	298	340	330	350	310
<b>30-34</b>	281	350	400	370	390
<b>35-39</b>	412	360	410	460	430
<b>40-44</b>	550	480	420	470	520
<b>45-49</b>	717	550	470	420	470
<b>50-54</b>	729	710	540	470	410
<b>55-59</b>	601	710	690	520	460
<b>60-64</b>	505	580	680	670	500
<b>65-69</b>	326	460	530	630	610
<b>70-74</b>	270	280	400	460	560
<b>75-79</b>	255	240	250	350	410
<b>80-84</b>	228	210	200	200	280
<b>85+</b>	230	270	280	280	280
<b>Total</b>	<b>7,930</b>	<b>8,020</b>	<b>8,090</b>	<b>8,060</b>	<b>8,030</b>
<b>Median Age</b>	44.1	45.0	44.9	44.7	44.7
<b>Births</b>	340	350	330	320	
<b>Deaths</b>	380	400	420	450	
<b>Natural Increase</b>	-40	-50	-90	-130	
<b>Net Migration</b>	120	120	110	110	
<b>Change</b>	80	70	20	-20	

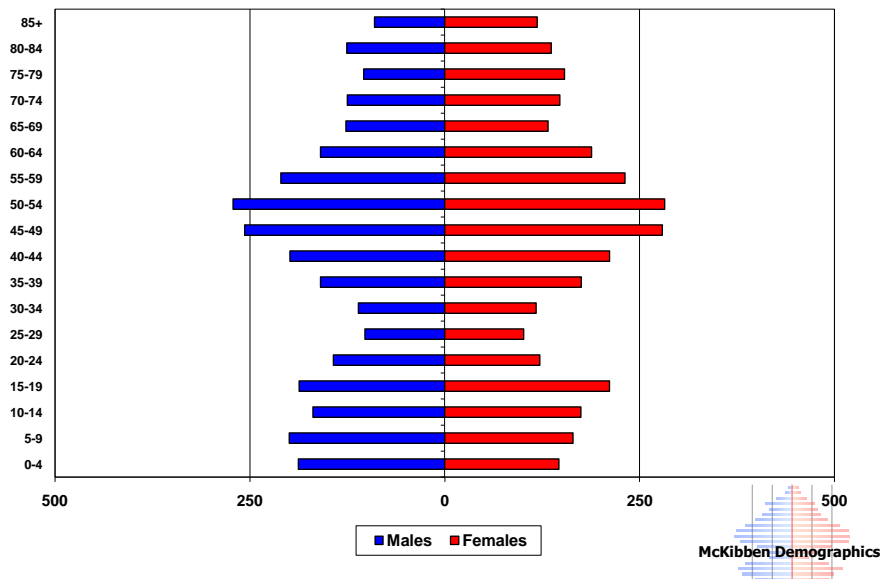
*Differences between period Totals may not equal Change due to rounding.*

## Appendix C: Population Pyramids

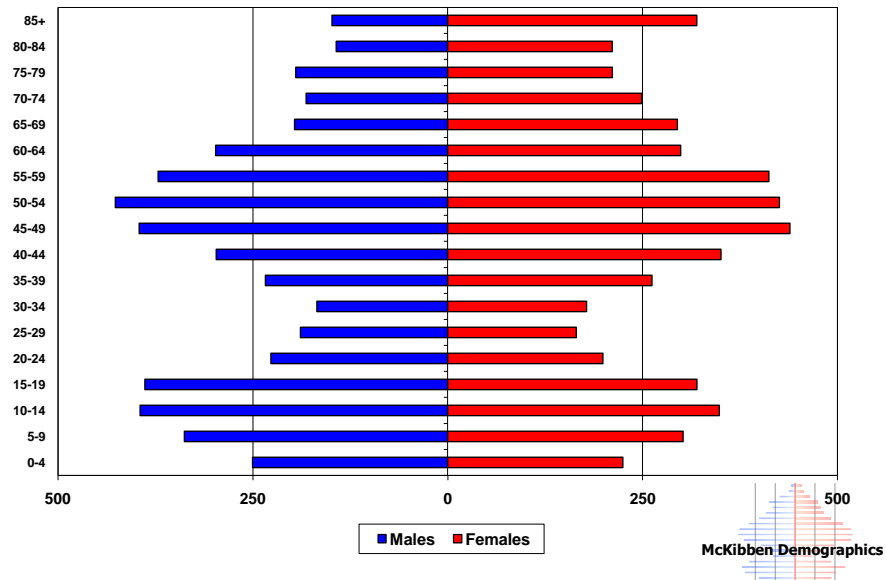
Park Ridge-Niles Total Population 2010 Census



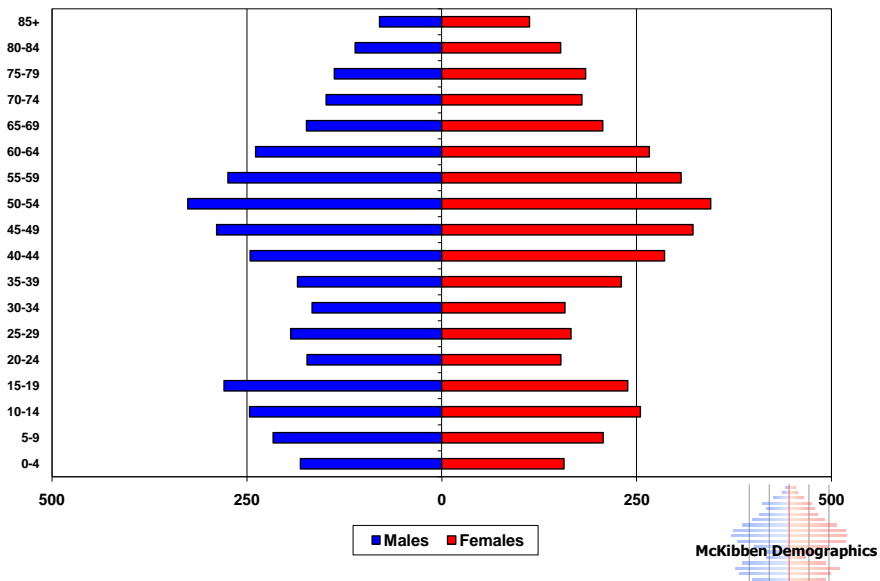
Carpenter Elementary - Total Population 2010 Census



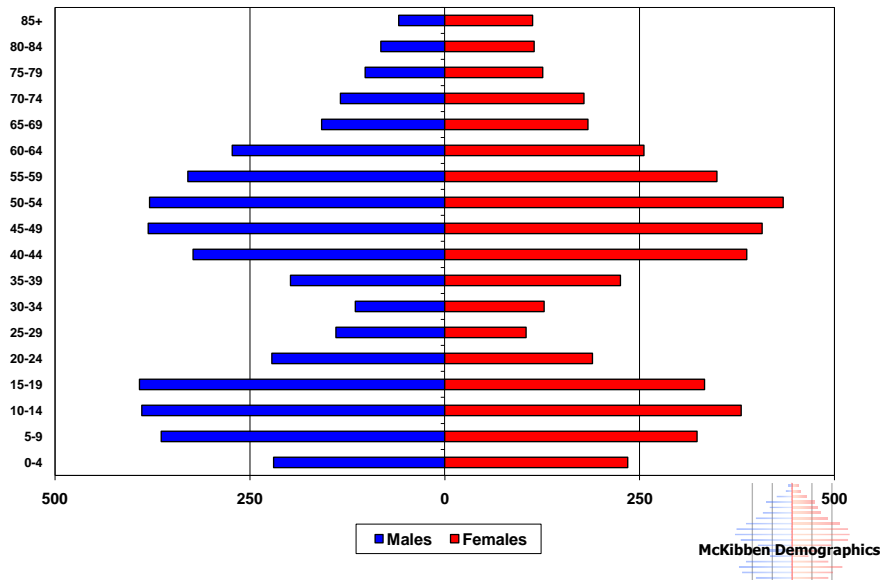
### Field Elementary - Total Population 2010 Census



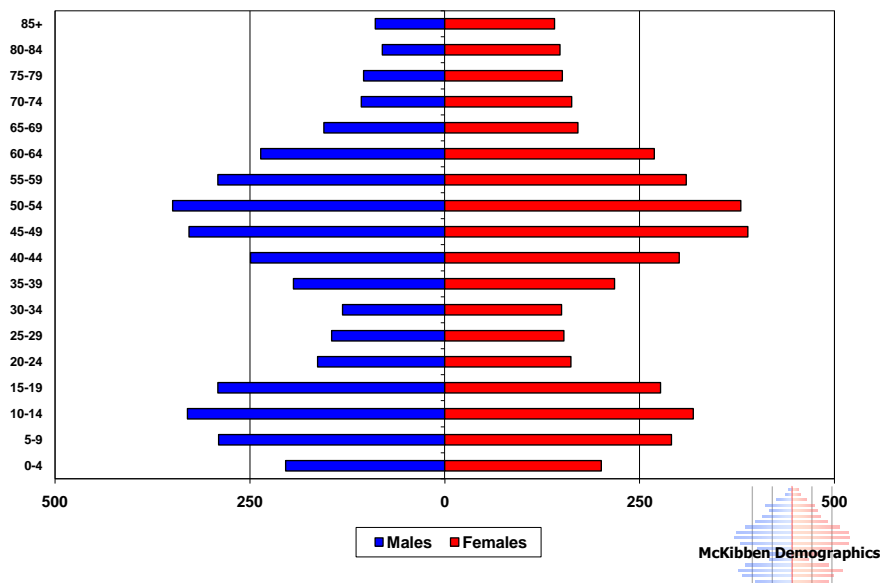
### Franklin Elementary - Total Population 2010 Census



### Roosevelt Elementary - Total Population 2010 Census



### Washington Elementary - Total Population 2010 Census





## Appendix D: Enrollment Forecasts

### Park Ridge-Niles School District 6: Total Enrollment

	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
K	400	444	433	403	433	444	449	442	437	429	424	425	416	422
1	483	468	526	491	462	479	493	488	481	476	468	460	454	445
2	484	500	486	529	500	471	492	508	503	495	490	477	469	463
3	517	489	517	494	538	508	484	505	521	516	508	500	486	478
4	480	534	494	515	501	545	519	495	516	532	527	515	507	492
5	510	496	536	508	523	509	560	531	507	528	544	534	522	514
<b>Total: K-5</b>	<b>2874</b>	<b>2931</b>	<b>2992</b>	<b>2940</b>	<b>2957</b>	<b>2956</b>	<b>2997</b>	<b>2969</b>	<b>2965</b>	<b>2976</b>	<b>2961</b>	<b>2911</b>	<b>2854</b>	<b>2814</b>
6	492	529	510	545	525	541	527	580	549	525	549	568	558	546
7	481	509	541	510	554	533	549	535	589	558	531	554	574	564
8	521	486	504	546	513	558	536	553	538	594	563	536	560	580
<b>Total: 6-8</b>	<b>1494</b>	<b>1524</b>	<b>1555</b>	<b>1601</b>	<b>1592</b>	<b>1632</b>	<b>1612</b>	<b>1668</b>	<b>1676</b>	<b>1677</b>	<b>1643</b>	<b>1658</b>	<b>1692</b>	<b>1690</b>
<b>Total: K-8</b>	<b>4368</b>	<b>4455</b>	<b>4547</b>	<b>4541</b>	<b>4549</b>	<b>4588</b>	<b>4609</b>	<b>4637</b>	<b>4641</b>	<b>4653</b>	<b>4604</b>	<b>4569</b>	<b>4546</b>	<b>4504</b>
<b>Total: K-8</b>	4368	4455	4547	4541	4549	4588	4609	4637	4641	4653	4604	4569	4546	4504
<b>Change</b>		87	92	-6	8	39	21	28	4	12	-49	-35	-23	-42
<b>%-Change</b>		2.0%	2.1%	-0.1%	0.2%	0.9%	0.5%	0.6%	0.1%	0.3%	-1.1%	-0.8%	-0.5%	-0.9%
<b>Total: K-5</b>	2874	2931	2992	2940	2957	2956	2997	2969	2965	2976	2961	2911	2854	2814
<b>Change</b>		57	61	-52	17	-1	41	-28	-4	11	-15	-50	-57	-40
<b>%-Change</b>		2.0%	2.1%	-1.7%	0.6%	0.0%	1.4%	-0.9%	-0.1%	0.4%	-0.5%	-1.7%	-2.0%	-1.4%
<b>Total: 6-8</b>	1494	1524	1555	1601	1592	1632	1612	1668	1676	1677	1643	1658	1692	1690
<b>Change</b>		30	31	46	-9	40	-20	56	8	1	-34	15	34	-2
<b>%-Change</b>		2.0%	2.0%	3.0%	-0.6%	2.5%	-1.2%	3.5%	0.5%	0.1%	-2.0%	0.9%	2.1%	-0.1%

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

**Carpenter Elementary: Total Enrollment**

	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
<b>K</b>	60	73	66	65	69	71	72	71	70	68	67	67	65	66
<b>1</b>	79	65	86	67	69	73	76	75	74	73	71	70	69	67
<b>2</b>	74	83	72	84	68	70	75	78	77	76	75	72	71	70
<b>3</b>	83	75	90	73	86	69	72	77	80	79	78	77	73	72
<b>4</b>	76	86	78	89	74	88	71	74	79	82	81	80	79	74
<b>5</b>	82	78	85	83	92	76	92	74	77	82	85	83	82	81
<b>Total: K-5</b>	<b>454</b>	<b>460</b>	<b>477</b>	<b>461</b>	<b>458</b>	<b>447</b>	<b>458</b>	<b>449</b>	<b>457</b>	<b>460</b>	<b>457</b>	<b>449</b>	<b>439</b>	<b>430</b>
<b>Total: K-5</b>	454	460	477	461	458	447	458	449	457	460	457	449	439	430
<b>Change</b>		6	17	-16	-3	-11	11	-9	8	3	-3	-8	-10	-9
<b>% Change</b>		1.3%	3.7%	-3.4%	-0.7%	-2.4%	2.5%	-2.0%	1.8%	0.7%	-0.7%	-1.8%	-2.2%	-2.1%

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

**Field Elementary: Total Enrollment**

	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
<b>K</b>	84	109	89	90	95	98	98	96	95	93	92	92	90	91
<b>1</b>	99	100	123	112	105	108	111	110	108	107	105	103	102	100
<b>2</b>	122	98	99	122	113	106	110	113	112	110	109	106	104	103
<b>3</b>	115	124	101	102	124	115	109	113	116	115	113	111	108	106
<b>4</b>	107	120	120	101	103	125	117	111	115	118	117	114	112	109
<b>5</b>	122	114	119	123	102	104	128	119	113	117	120	118	115	113
<b>Total: K-5</b>	<b>649</b>	<b>665</b>	<b>651</b>	<b>650</b>	<b>642</b>	<b>656</b>	<b>673</b>	<b>662</b>	<b>659</b>	<b>660</b>	<b>656</b>	<b>644</b>	<b>631</b>	<b>622</b>
<b>Total: K-5</b>	649	665	651	650	642	656	673	662	659	660	656	644	631	622
<b>Change</b>		16	-14	-1	-8	14	17	-11	-3	1	-4	-12	-13	-9
<b>% Change</b>		2.5%	-2.1%	-0.2%	-1.2%	2.2%	2.6%	-1.6%	-0.5%	0.2%	-0.6%	-1.8%	-2.0%	-1.4%

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

**Franklin Elementary: Total Enrollment**

	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
<b>K</b>	74	75	100	66	75	78	79	78	77	76	75	75	73	74
<b>1</b>	86	85	89	111	79	83	87	86	85	84	83	81	80	78
<b>2</b>	87	92	88	88	113	81	85	90	89	88	87	85	83	82
<b>3</b>	79	80	95	88	89	114	83	87	92	91	90	89	87	85
<b>4</b>	95	80	81	97	89	90	116	85	89	94	93	91	90	88
<b>5</b>	72	99	83	79	98	90	92	118	87	91	96	94	92	91
<b>Total: K-5</b>	<b>493</b>	<b>511</b>	<b>536</b>	<b>529</b>	<b>543</b>	<b>536</b>	<b>542</b>	<b>544</b>	<b>519</b>	<b>524</b>	<b>524</b>	<b>515</b>	<b>505</b>	<b>498</b>
<b>Total: K-5</b>	493	511	536	529	543	536	542	544	519	524	524	515	505	498
<b>Change</b>		18	25	-7	14	-7	6	2	-25	5	0	-9	-10	-7
<b>% Change</b>		3.7%	4.9%	-1.3%	2.6%	-1.3%	1.1%	0.4%	-4.6%	1.0%	0.0%	-1.7%	-1.9%	-1.4%

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

**Roosevelt Elementary: Total Enrollment**

	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
<b>K</b>	85	98	94	97	102	104	105	103	102	100	100	100	98	99
<b>1</b>	124	98	116	105	109	112	114	113	111	110	108	107	105	103
<b>2</b>	90	131	104	119	108	112	116	119	118	115	114	111	110	108
<b>3</b>	135	94	129	102	120	109	114	118	121	120	117	115	112	111
<b>4</b>	113	140	94	126	103	121	111	116	120	123	122	118	116	113
<b>5</b>	136	109	140	98	127	104	123	113	118	122	125	123	119	117
<b>Total: K-5</b>	<b>683</b>	<b>670</b>	<b>677</b>	<b>647</b>	<b>669</b>	<b>662</b>	<b>683</b>	<b>682</b>	<b>690</b>	<b>690</b>	<b>686</b>	<b>674</b>	<b>660</b>	<b>651</b>
<b>Total: K-5</b>	683	670	677	647	669	662	683	682	690	690	686	674	660	651
<b>Change</b>		-13	7	-30	22	-7	21	-1	8	0	-4	-12	-14	-9
<b>% Change</b>		-1.9%	1.0%	-4.4%	3.4%	-1.0%	3.2%	-0.1%	1.2%	0.0%	-0.6%	-1.7%	-2.1%	-1.4%

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

**Washington Elementary: Total Enrollment**

	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
<b>K</b>	97	89	84	85	92	93	95	94	93	92	90	91	90	92
<b>1</b>	95	120	112	96	100	103	105	104	103	102	101	99	98	97
<b>2</b>	111	96	123	116	98	102	106	108	107	106	105	103	101	100
<b>3</b>	105	116	102	129	119	101	106	110	112	111	110	108	106	104
<b>4</b>	89	108	121	102	132	121	104	109	113	115	114	112	110	108
<b>5</b>	98	96	109	125	104	135	125	107	112	116	118	116	114	112
<b>Total: K-5</b>	<b>595</b>	<b>625</b>	<b>651</b>	<b>653</b>	<b>645</b>	<b>655</b>	<b>641</b>	<b>632</b>	<b>640</b>	<b>642</b>	<b>638</b>	<b>629</b>	<b>619</b>	<b>613</b>
<b>Total: K-5</b>	595	625	651	653	645	655	641	632	640	642	638	629	619	613
<b>Change</b>		30	26	2	-8	10	-14	-9	8	2	-4	-9	-10	-6
<b>% Change</b>		5.0%	4.2%	0.3%	-1.2%	1.6%	-2.1%	-1.4%	1.3%	0.3%	-0.6%	-1.4%	-1.6%	-1.0%

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

**Emerson Middle School: Total Enrollment**

	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
<b>6</b>	258	285	296	284	284	293	285	314	297	284	296	307	302	295
<b>7</b>	265	266	294	295	290	290	299	291	320	303	288	300	312	307
<b>8</b>	283	264	262	297	296	291	291	300	292	322	305	292	305	317
<b>Total 6-8</b>	<b>806</b>	<b>815</b>	<b>852</b>	<b>876</b>	<b>870</b>	<b>874</b>	<b>875</b>	<b>905</b>	<b>909</b>	<b>909</b>	<b>889</b>	<b>899</b>	<b>919</b>	<b>919</b>
<b>Total 6-8</b>	806	815	852	876	870	874	875	905	909	909	889	899	919	919
<b>Change</b>		9	37	24	-6	4	1	30	4	0	-20	10	20	0
<b>% Change</b>		1.1%	4.5%	2.8%	-0.7%	0.5%	0.1%	3.4%	0.4%	0.0%	-2.2%	1.1%	2.2%	0.0%

Blue cells are historical data; Red numbers are current enrollment; orange cells are forecasted enrollment

**Lincoln Middle School: Total Enrollment**

	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
6	234	244	214	261	241	248	242	266	252	241	253	261	256	251
7	216	243	247	215	264	243	250	244	269	255	243	254	262	257
8	238	222	242	249	217	267	245	253	246	272	258	244	255	263
<b>Total 6-8</b>	<b>688</b>	<b>709</b>	<b>703</b>	<b>725</b>	<b>722</b>	<b>758</b>	<b>737</b>	<b>763</b>	<b>767</b>	<b>768</b>	<b>754</b>	<b>759</b>	<b>773</b>	<b>771</b>
<b>Total 6-8</b>	688	709	703	725	722	758	737	763	767	768	754	759	773	771
<b>Change</b>		21	-6	22	-3	36	-21	26	4	1	-14	5	14	-2
<b>% Change</b>		3.1%	-0.8%	3.1%	-0.4%	5.0%	-2.8%	3.5%	0.5%	0.1%	-1.8%	0.7%	1.8%	-0.3%

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