## **N**ORTHWEST ALLEN COUNTY SCHOOLS

## POPULATION AND ENROLLMENT FORECASTS, 2023-24 THROUGH 2032-33

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#### **EXECUTIVE SUMMARY**

- 1. The resident total fertility rate for the Northwest Allen County Schools over the life of the forecasts is below replacement level. (1.82 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 sustained rate of new home construction, the relatively high number of elderly housing units turning over coupled with a steady 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 larger cohorts leaving the system.
- 6. The elementary enrollment will continue to increase briskly over the next five school years.
- 7. The median age of the district's population will increase from 38.2 in 2020 to 41.5 in 2030.
- 8. Even if the district continues to have a significant 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 later in the decade, affecting the amount of population and enrollment change.
- 9. Total district enrollment is forecasted to increase by 607 students, or 7.5%, between 2022-23 and 2027-28. Total enrollment will increase by 252 students, or 2.9%, from 2027-28 to 2032-33.

#### 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 or its attendance areas 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 predict likely changes more accurately. 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 or its attendance areas, realistic suppositions must be made as to what the future will bring in terms of age specific fertility,

mortality, and migration rates as well as the 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 identical demographic characteristics or undergo demographics changes at exactly the same rate.

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 nondemographic 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 nondemographic 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, new state mandates as well as planned economic development and/or 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 Northwest Allen County 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 Northwest Allen County Schools provided enrollments by grade and attendance center for the school years 2017-18 to 2022-23. Birth and death data for the years 2010 through 2020 were obtained

from the Indiana Department of Health. The net migration values were calculated using Internal Revenue Service migration reports for the years 2010 through 2020. The data used for the calculation of migration models came from the United States Bureau of the Census, 2005 to 2020, 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, calibrated to the 2020 Census results

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 500 of the over 16,000 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 and net migration, the current 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 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 Northwest Allen County Schools (from 2.87 in 2010 to 2.78 in 2020) as well as most other areas of the country 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 2018 (pre COVID-19 levels). 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 2032. (At this point in time, there is insufficient data at the geographic and age levels needed for these forecasts of the impacts of COVID-19 on mortality rates. We assume that most areas will return to their traditional mortality rate levels by 2023.) 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 drop in the fertility rates of the United States, overall fertility rates have staved 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 childbearing ages (particularly ages 20-29) rather than any fluctuation in an area's fertility rate. While there was a significant decline in the number of births in most regions of the United States in 2020 and 2021 due to the impact of COVID-19, we assume that after 2022 fertility rates will resume their pre COVID trends.

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 1.82 for the total district for the ten years of the population forecasts. A TFR of 2.1 births per woman is considered 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 slightly below the level needed to maintain the current level of population and enrollment within the Northwest Allen County Schools over the course of the forecast period. At the current TFR and given the number of women in prime childbearing age in the district (ages 20–34-year-old), the district will consistently see the number of total resident births be on average over 140 lower than the average enrollment in grade one.

A close examination of data for the Northwest Allen County 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 Northwest Allen County 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 non-college in-migration occurs in the 0to-9 and 25-44 age groups (the bulk of which come from areas within 100 miles of the Northwest Allen County Schools) primarily consisting of younger adults and their children.

As the Allen 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 Northwest Allen County Schools and its attendance areas will remain the same through the year 2032. Below is a list of assumptions and issues that are specific to the

Northwest Allen County Schools. These issues have been used to modify the population forecast models to predict the impact of these factors more accurately on each area's population change.

Specifically, the forecasts for the Northwest Allen County 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 risen from their historic lows and will not fluctuate more than two percentage points in the short term; the interest rate for a 30-year fixed home mortgage stays between 5.0% and 7.0% for the 10 years of the forecasts;
- c. The rate of mortgage approval stays at 2022 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 2015-2020 average of Allen County for any year in the forecasts:

- f. All currently planned, platted, approved, and permitted housing developments are built out and completed by 2031. All new housing units constructed are occupied by 2032. Speculative new home construction plans are not included;
- g. The average annual unemployment rates for Allen County and the Greater Fort Wayne Metropolitan Area will remain below 7.5% for the 10 years of the forecasts;
- h. The intra-district student transfer policy remains unchanged over the next 10 years;
- The rate of students transferring out of the Northwest Allen County Schools will remain at the 2018-19 to 2022-23 average. The district will average -600 transfers per year;
- j. The inflation rate for gasoline will stay below 5% per year for the 10 years of the forecasts;
- k. The state of Indiana does not change the current policy on open enrollment (unrestricted inter district transfers) or school vouchers anytime in the next 10 years;
- l. There will be no building moratorium within the district;
- m. Businesses within the district and the Northwest Allen County Schools area will remain viable;

- n. There are no new charter schools opened in the district anytime or expansion of existing charter schools over the next 10 years;
- 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 homeowners over the age of 60;
- q. The district will have at least an average of 500 existing home sales per year for the next 10 years;
- r. The district will have at least an average of 125 new single-family housing units constructed per year over the next 10 years;
- s. Private school and home school attendance rates will remain constant at 2022 levels;
- t. The rate of foreclosures for commercial property remains at the 2015-2020 average for Allen County;
  - u. The number of students engaging in virtual learning (both within and outside of the district) remains at the 2022 level.

If a major employer in the district or in the Allen County or the Greater Fort Wayne Metropolitan Area (particularly in the northern parts of the 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, another pandemic 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 Northwest Allen County 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 outmigration 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 outmigration 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 base-year population (here, the 2010 Census population for the Northwest Allen County 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 Northwest Allen County Schools is classified as a "small area" population (as compared to the population of the state of Indiana 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 Northwest Allen County 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 Northwest Allen County 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 nondemographic 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 Northwest Allen County 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 accuracy for both the population and enrollment forecasts at the school district level is estimated to be no more than +/-2.0% for the life of the forecasts.

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## **Appendix A: Supplemental Tables**

Table 1: Forecasted Elementary Area Population Change, 2020 to 2030

	2020	2025	2020-2025 Change	2030	2025-2030 Change	2020-2030 Change
Arcola	3,620	3,810	5.2%	3,940	3.4%	8.8%
Aspen Meadow	5,420	6,740	24.4%	7,880	16.9%	45.4%
Cedar Canyon	5,640	6,100	8.2%	6,540	7.2%	16.0%
Eel River	4,700	5,010	6.6%	5,310	6.0%	13.0%
Hickory Center	5,050	4,920	-2.6%	4,720	-4.1%	-6.5%
Huntertown	5,440	5,820	7.0%	6,190	6.4%	13.8%
Oak View	6,360	6,950	9.3%	7,340	5.6%	15.4%
Perry Hill	8,330	8,900	6.8%	9,120	2.5%	9.5%
District Total	44,560	48,250	8.3%	51,040	5.8%	14.5%

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
Arcola	364	30.3%	1,202	1,885	2.57
Aspen Meadow	411	48.1%	856	1,598	2.86
Cedar Canyon	631	44.5%	1,420	2,890	3.03
Eel River	624	52.9%	1,179	2,555	2.95
Hickory Center	917	54.1%	1,695	3,578	3.10
Huntertown	647	38.1%	1,700	2,962	2.74
Oak View	727	41.7%	1,745	3,205	2.84
Perry Hill	900	38.5%	2,337	4,264	2.82
District Total	5,221	43.0%	12,134	22,937	2.87

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
Arcola	41.3%	22.8%	88.3%
Aspen Meadow	44.6%	11.9%	93.1%
Cedar Canyon	49.7%	18.7%	96.4%
Eel River	49.9%	8.2%	91.5%
Hickory Center	53.1%	10.6%	95.8%
Huntertown	46.6%	17.4%	88.4%
Oak View	47.8%	21.7%	93.1%
Perry Hill	44.3%	23.4%	96.2%
District Total	47.3%	17.6%	93.2%

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+
Arcola	22.6%	8.0%
Aspen Meadow	16.9%	3.9%
Cedar Canyon	10.6%	4.2%
Eel River	15.2%	2.4%
Hickory Center	11.4%	2.9%
Huntertown	17.0%	5.8%
Oak View	15.5%	7.6%
Perry Hill	16.5%	7.8%
District Total	15.5%	5.6%

Table 5: Elementary Enrollment (K-5), 2022, 2027, 2032

	2022	2027	2022-2027 Change	2032	2027-2032 Change	2022-2032 Change
Arcola	215	242	12.6%	247	2.1%	14.9%
Aspen Meadow	555	619	11.5%	637	2.9%	14.8%
Cedar Canyon	511	528	3.3%	543	2.8%	6.3%
Eel River	413	401	-2.9%	416	3.7%	0.7%
Hickory Center	450	510	13.3%	471	-7.6%	4.7%
Huntertown	506	582	15.0%	589	1.2%	16.4%
Oak View	451	494	9.5%	501	1.4%	11.1%
Perry Hill	545	516	-5.3%	521	1.0%	-4.4%
District Total	3,646	3,892	6.7%	3,925	0.8%	7.7%

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
Arcola	30	35	34	34	36	41	37	39	31	36	41
Aspen Meadow	47	50	59	38	45	64	41	48	51	53	45
Cedar Canyon	48	61	66	84	70	84	75	80	72	80	86
Eel River	64	69	77	90	79	82	79	79	73	55	71
Hickory Center	71	103	110	80	103	91	104	97	122	101	112
Huntertown	42	41	43	72	54	67	63	72	84	78	73
Oak View	51	77	75	62	80	80	82	85	83	88	94
Perry Hill	65	76	72	75	107	106	81	106	103	108	130
District Total	418	513	536	535	574	614	562	605	619	600	653

## **Appendix B: Population Forecasts**

**Northwest Allen County Schools: Total Population** 

	2010		2015		2020		2025		2030
0-4	2,576		2,710		2,880		2,970		2,750
5-9	3,000		3,280		3,510		3,690		3,810
10-14	3,082		3,510		3,770		3,860		3,960
15-19	2,574		2,390		2,850		3,010		3,280
20-24	1,379		1,390		1,310		1,460		1,400
25-29	1,670		2,080		2,110		1,840		1,940
30-34	2,244		2,990		3,330		3,280		2,840
35-39	2,629		3,420		3,920		4,260		4,150
40-44	2,690		3,430		4,190		4,480		4,770
45-49	2,818		2,660		3,410		4,280		4,550
50-54	2,641		2,770		2,640		3,420		4,190
55-59	2,324		2,580		2,710		2,530		3,310
60-64	1,920		2,110		2,360		2,510		2,390
65-69	1,345		1,690		1,890		2,110		2,320
70-74	805		1,240		1,530		1,710		1,920
75-79	602		690		1,070		1,330		1,500
80-84	441		480		560		870		1,100
85+	331		430		520		640		860
Total	35,071		39,850		44,560		48,250		51,040
Median Age	36.9		37.3		38.2		39.7		41.5
Births		1,880		2,100		2,080		1,680	
Deaths		1,010		1,200		1,430		1,340	
Natural Increase		870		900		650		340	
Net Migration		3,910		3,850		3,030		2,150	
Change		4,780		4,750		3,680		2,490	

## **Arcola Elementary: Total Population**

	2010		2015		2020		2025		2030
0-4	169		180		190		180		160
5-9	184		210		220		240		240
10-14	214		180		210		220		240
15-19	210		170		140		170		180
20-24	167		170		130		110		150
25-29	140		210		210		170		130
30-34	159		180		250		250		190
35-39	177		240		270		320		310
40-44	226		270		320		330		380
45-49	267		220		270		320		330
50-54	284		270		220		250		320
55-59	258		280		250		210		250
60-64	213		250		260		250		210
65-69	134		200		240		240		210
70-74	94		120		190		220		210
75-79	85		80		110		160		190
80-84	60		60		70		90		140
85+	46		60		70		80		100
Total	3,087		3,350		3,620		3,810		3,940
Median Age	42.7		42.5		43.0		43.7		44.9
Births		170		190		180		160	
Deaths		120		140		160		190	
Natural Increase		50		50		20		-30	
Net Migration		220		210		180		150	
Change		270		260		200		120	

## **Aspen Meadows Elementary: Total Population**

	2010		2015		2020		2025		2030
0-4	240		340		420		510		510
5-9	257		360		500		530		570
10-14	203		380		500		610		630
15-19	159		160		330		390		520
20-24	111		110		100		100		100
25-29	217		240		240		200		200
30-34	190		570		590		690		580
35-39	185		440		830		800		970
40-44	194		440		700		1,050		1,020
45-49	167		190		430		700		1,040
50-54	141		160		190		420		690
55-59	118		130		160		190		420
60-64	99		110		130		160		180
65-69	69		100		110		130		150
70-74	40		70		80		100		110
75-79	27		30		50		80		80
80-84	15		20		30		50		60
85+	23		20		30		30		50
Total	2,454		3,870		5,420		6,740		7,880
Median Age	31.1		33.0		35.2		37.1		39.3
Births		220		290		290		320	
Deaths		50		70		90		130	
Natural Increase		170		220		200		190	
Net Migration		1,250		1,350		1,110		950	
Change		1,420		1,570		1,310		1,140	

## **Cedar Canyons Elementary: Total Population**

	2010		2015		2020		2025		2030
0-4	329		310		400		440		350
5-9	391		440		430		560		600
10-14	396		450		510		430		560
15-19	307		280		330		460		310
20-24	128		190		160		230		150
25-29	115		180		250		200		310
30-34	230		290		370		330		360
35-39	338		460		470		460		490
40-44	364		510		640		520		530
45-49	338		360		500		640		590
50-54	345		330		350		500		630
55-59	304		340		330		350		490
60-64	274		230		260		270		340
65-69	194		200		170		210		260
70-74	108		190		180		150		190
75-79	58		90		160		160		130
80-84	52		50		70		120		130
85+	38		50		60		70		120
Total	4,310		4,950		5,640		6,100		6,540
Median Age	38.8		38.6		38.9		39.3		41.3
Births		190		220		230		240	
Deaths		120		150		180		210	
Natural Increase		70		70		50		30	
Net Migration		580		620		430		390	
Change		650		690		480		420	

## **Eel River Elementary: Total Population**

	2010		2015		2020		2025		2030
0-4	379		320		320		290		280
5-9	367		430		410		390		380
10-14	305		370		430		410		390
15-19	207		250		300		360		380
20-24	141		150		180		220		240
25-29	319		200		210		210		260
30-34	347		440		320		290		270
35-39	384		460		530		400		350
40-44	294		380		460		570		430
45-49	222		290		380		460		560
50-54	207		220		290		370		450
55-59	180		200		220		280		370
60-64	144		170		200		200		280
65-69	95		140		170		180		200
70-74	59		90		130		160		180
75-79	36		50		80		110		140
80-84	22		30		40		60		90
85+	28		30		30		50		60
Total	3,734		4,220		4,700		5,010		5,310
Median Age	32.2		34.4		36.7		39.2		41.2
Births		260		260		260		250	
Deaths		80		90		120		150	
Natural Increase		180		170		140		100	
Net Migration		300		320		190		150	
Change		480		490		330		250	

## **Hickory Center Elementary: Total Population**

	2010	2	015	2020		2025		2030
0-4	469	3	330	310		290		260
5-9	515	5	520	400		440		440
10-14	540	5	510	520		400		440
15-19	422	2	130	420		440		340
20-24	176	1	150	140		150		140
25-29	289	2	230	200		190		190
30-34	425	3	340	280		240		230
35-39	458	4	120	340		280		240
40-44	452	2	150	420		340		280
45-49	391	4	150	450		420		340
50-54	342	3	380	450		400		370
55-59	269	3	330	380		390		350
60-64	217	2	210	280		320		330
65-69	145	1	150	150		220		290
70-74	66	1	140	140		140		200
75-79	47		60	110		120		120
80-84	31		40	40		100		100
85+	19		20	20		40		60
Total	5,273	5,	160	5,050		4,920		4,720
Median Age	32.7	3	5.8	38.8		40.4		41.4
Births		280	240		200		190	
Deaths		100	120		140		170	
Natural Increase		180	120		60		20	
Net Migration		-270	-240		-220		-210	
Change		-90	-120		-160		-190	

## **Huntertown Elementary: Total Population**

	2010		2015		2020		2025		2030
0-4	252		420		430		410		410
5-9	364		350		550		550		550
10-14	385		390		380		580		570
15-19	352		310		310		290		490
20-24	262		250		190		200		180
25-29	204		310		290		250		260
30-34	302		320		420		410		330
35-39	300		410		360		530		520
40-44	336		290		400		360		530
45-49	430		330		290		400		360
50-54	384		420		330		290		400
55-59	358		380		410		320		280
60-64	273		330		340		370		280
65-69	174		230		290		290		320
70-74	85		140		190		230		250
75-79	93		70		120		160		210
80-84	65		70		60		90		140
85+	43		60		80		90		110
Total	4,662		5,080		5,440		5,820		6,190
Median Age	38.5		37.3		37.1		37.1		37.9
Births		260		270		270		260	
Deaths		140		160		180		210	
Natural Increase		120		110		90		50	
Net Migration		270		270		280		290	
Change		390		380		370		340	

## **Total Population**

	2010		2015		2020		2025		2030
0-4	344		370		390		430		390
5-9	417		480		490		510		560
10-14	437		550		590		590		600
15-19	394		370		490		490		500
20-24	147		120		130		140		150
25-29	157		280		240		240		220
30-34	263		360		450		420		410
35-39	369		400		480		660		580
40-44	396		500		510		570		740
45-49	435		390		500		500		570
50-54	393		430		390		500		500
55-59	334		380		420		380		480
60-64	279		320		370		410		370
65-69	220		270		300		350		390
70-74	148		200		250		280		320
75-79	88		130		180		220		250
80-84	76		70		100		150		170
85+	51		80		80		110		140
Total	4,950		5,700		6,360		6,950		7,340
Median Age	39.3		39.0		39.2		40.0		41.8
Births		240		280		280		260	
Deaths		160		190		230		280	
Natural Increase		80		90		50		-20	
Net Migration		680		580		510		430	
Change		760		670		560		410	

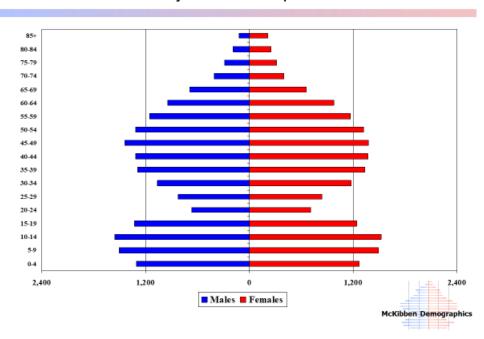
 ${\it Differences \ between \ period \ Totals \ may \ not \ equal \ Change \ due \ to \ rounding.}$ 

## **Perry Hill Elementary: Total Population**

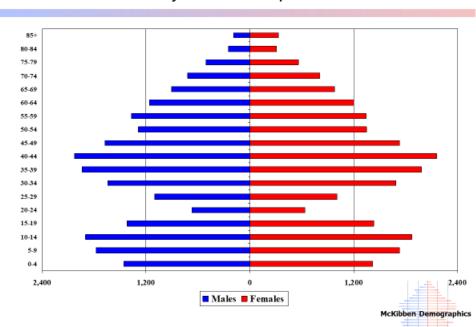
	2010		2015		2020		2025		2030
0-4	395		440		420		420		390
5-9	504		490		510		470		470
10-14	602		680		630		620		530
15-19	523		420		530		410		560
20-24	248		250		280		310		290
25-29	229		430		470		380		370
30-34	328		490		650		650		470
35-39	418		590		640		810		690
40-44	428		590		740		740		860
45-49	567		430		590		840		760
50-54	545		560		420		690		830
55-59	503		540		540		410		670
60-64	422		490		520		530		400
65-69	314		400		460		490		500
70-74	205		290		370		430		460
75-79	168		180		260		320		380
80-84	120		140		150		210		270
85+	82		110		150		170		220
Total	6,601		7,520		8,330		8,900		9,120
Median Age	40.6		39.7		40.2		42.6		44.6
Births		260		350		370		330	
Deaths		240		280		330		400	
Natural Increase		20		70		40		-70	
Net Migration		880		740		550		280	
Change		900		810		590		210	

## **Appendix C: Population Pyramids**

#### Northwest Allen County Schools Total Population - 2010 Census



#### Northwest Allen County Schools Total Population - 2020 Estimate



## **Appendix D: Enrollment Forecasts**

## **Northwest Allen County Schools: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	565	535	570	596	613	621	621	611	615	621	629	639	643	632
1	571	569	546	582	628	635	643	640	628	632	638	646	654	660
2	603	568	591	572	593	640	647	654	651	639	643	644	652	659
3	610	608	592	624	579	601	650	656	663	660	648	648	649	657
4	564	615	642	619	635	593	613	661	667	674	671	656	656	657
5	587	573	637	653	628	644	600	619	668	674	681	675	660	660
Total K-5	3500	3468	3578	3646	3676	3734	3774	3841	3892	3900	3910	3908	3914	3925
6	619	607	605	663	681	654	668	627	644	697	704	709	703	687
7	643	628	616	646	686	704	677	692	649	667	721	728	734	728
8	618	653	640	638	662	704	722	694	709	665	684	739	746	752
Total: 6-8	1880	1888	1861	1947	2029	2062	2067	2013	2002	2029	2109	2176	2183	2167
•	624	642	602	664	670	605	720	750	720	744	600	740	776	702
9	634	643	682	664	670	695	739	758 724	729	744	698	718	776 704	783
10	598	629	624	670	651	657	681	724	743	714	729	684	704	760
11	640	592	614	624	667	648	654	678	720	739	710	725	681	700
12	569 <b>2441</b>	612 <b>2476</b>	560 <b>2480</b>	586 <b>2544</b>	605 <b>2593</b>	647 <b>2647</b>	629 <b>2703</b>	634 <b>2794</b>	658 <b>2850</b>	698 <b>2895</b>	717 <b>2854</b>	689 <b>2816</b>	703 <b>2864</b>	661 <b>2904</b>
Total: 9-12	2441	24/0	2460	2544	2595	2047	2703	2/34	2030	2033	2034	2010	2004	2904
YSC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ŭ	Ŭ	ŭ	Ü	ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	Ü	Ü
Total K-12	7821	7832	7919	8137	8298	8443	8544	8648	8744	8824	8873	8900	8961	8996
Total K-12	7821	7832	7919	8137	8298	8443	8544	8648	8744	8824	8873	8900	8961	8996
Change		11	87	218	161	145	101	104	96	80	49	27	61	35
%-Change		0.1%	1.1%	2.8%	2.0%	1.7%	1.2%	1.2%	1.1%	0.9%	0.6%	0.3%	0.7%	0.4%
Total: K-5														
CI	3500	3468	3578	3646	3676	3734	3774	3841	3892	3900	3910	3908	3914	3925
Change	3500	3468 <i>-32</i>	3578 <i>110</i>	3646 <i>68</i>	3676 <i>30</i>	3734 <i>58</i>	3774 <i>40</i>	3841 <i>67</i>	3892 <i>51</i>	3900 <i>8</i>	3910 <i>10</i>	3908 <i>-2</i>	3914 <i>6</i>	3925 <i>11</i>
Cnange %-Change	3500													
•		-32 -0.9%	110 3.2%	68 1.9%	30 0.8%	58 1.6%	40 1.1%	67 1.8%	51 1.3%	8 0.2%	10 0.3%	-2 -0.1%	6 0.2%	11 0.3%
%-Change	3500 1880	-32 -0.9% 1888	110 3.2% 1861	68 1.9% 1947	30 0.8% 2029	58 1.6% 2062	40 1.1% 2067	67 1.8% 2013	51 1.3% 2002	8 0.2% 2029	10 0.3% 2109	-2 -0.1% 2176	6 0.2% 2183	11 0.3% 2167
%-Change  Total: 6-8  Change		-32 -0.9% 1888 8	110 3.2% 1861 -27	68 1.9% 1947 86	30 0.8% 2029 82	58 1.6% 2062 33	40 1.1% 2067 5	67 1.8% 2013 -54	51 1.3% 2002 -11	8 0.2% 2029 27	10 0.3% 2109 80	-2 -0.1% 2176 <i>67</i>	6 0.2% 2183 7	11 0.3% 2167 -16
%-Change		-32 -0.9% 1888	110 3.2% 1861	68 1.9% 1947	30 0.8% 2029	58 1.6% 2062	40 1.1% 2067	67 1.8% 2013	51 1.3% 2002	8 0.2% 2029	10 0.3% 2109	-2 -0.1% 2176	6 0.2% 2183	11 0.3% 2167
%-Change  Total: 6-8  Change  %-Change	1880	-32 -0.9% 1888 8 0.4%	110 3.2% 1861 -27 -1.4%	68 1.9% 1947 86 4.6%	30 0.8% 2029 82 4.2%	58 1.6% 2062 33 1.6%	40 1.1% 2067 5 0.2%	67 1.8% 2013 -54 -2.6%	51 1.3% 2002 -11 -0.5%	8 0.2% 2029 27 1.3%	10 0.3% 2109 80 3.9%	-2 -0.1% 2176 67 3.2%	6 0.2% 2183 7 0.3%	11 0.3% 2167 -16 -0.7%
%-Change  Total: 6-8  Change %-Change  Total: 9-12		-32 -0.9% 1888 8 0.4% 2476	110 3.2% 1861 -27 -1.4% 2480	68 1.9% 1947 86 4.6%	30 0.8% 2029 82 4.2% 2593	58 1.6% 2062 33 1.6%	40 1.1% 2067 5 0.2% 2703	67 1.8% 2013 -54 -2.6% 2794	51 1.3% 2002 -11 -0.5% 2850	8 0.2% 2029 27 1.3% 2895	10 0.3% 2109 80 3.9% 2854	-2 -0.1% 2176 67 3.2% 2816	6 0.2% 2183 7 0.3%	11 0.3% 2167 -16 -0.7% 2904
%-Change  Total: 6-8  Change  %-Change	1880	-32 -0.9% 1888 8 0.4%	110 3.2% 1861 -27 -1.4%	68 1.9% 1947 86 4.6%	30 0.8% 2029 82 4.2%	58 1.6% 2062 33 1.6%	40 1.1% 2067 5 0.2%	67 1.8% 2013 -54 -2.6%	51 1.3% 2002 -11 -0.5%	8 0.2% 2029 27 1.3%	10 0.3% 2109 80 3.9%	-2 -0.1% 2176 67 3.2%	6 0.2% 2183 7 0.3%	11 0.3% 2167 -16 -0.7%

#### **Arcola Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	29	41	35	38	40	41	41	40	39	40	41	42	42	41
1	38	30	42	29	38	39	40	40	39	38	39	40	41	41
2	27	36	32	42	30	39	40	41	41	40	39	40	41	42
3	27	30	37	34	42	30	39	40	41	41	40	39	40	41
4	35	32	33	38	35	44	31	41	42	43	43	42	41	42
5	25	32	36	34	37	34	43	30	40	41	42	42	41	40
Total K-5	181	201	215	215	222	227	234	232	242	243	244	245	246	247
Total K-5	181	201	215	215	222	227	234	232	242	243	244	245	246	247
Change		20	14	0	7	5	7	-2	10	1	1	1	1	1
%-Change		11.0%	7.0%	0.0%	3.3%	2.3%	3.1%	-0.9%	4.3%	0.4%	0.4%	0.4%	0.4%	0.4%

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

## **Aspen Meadows Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	0	0	94	94	96	97	97	95	96	97	99	100	101	100
1	0	0	86	102	103	104	105	105	103	104	105	107	108	110
2	0	0	83	87	103	104	105	106	106	104	105	106	108	109
3	0	0	95	81	85	101	102	103	104	104	102	103	104	106
4	0	0	101	98	83	88	104	105	106	107	107	105	106	107
5	0	0	84	93	97	82	87	103	104	105	106	106	104	105
Total K-5	0	0	543	555	567	576	600	617	619	621	624	627	631	637
Total K-5	0	0	543	555	567	576	600	617	619	621	624	627	631	637
Change				12	12	9	24	17	2	2	3	3	4	6
%-Change				2.2%	2.2%	1.6%	4.2%	2.8%	0.3%	0.3%	0.5%	0.5%	0.6%	1.0%

## **Cedar Canyon Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	112	85	71	81	82	84	83	82	83	84	85	87	88	87
1	87	117	75	72	83	84	86	85	83	84	85	86	88	89
2	99	94	95	74	73	85	86	88	87	85	86	87	88	90
3	95	107	84	104	76	75	88	89	91	90	88	89	90	91
4	88	94	88	90	106	78	77	90	91	93	92	90	91	92
5	98	93	81	90	93	109	80	79	93	94	96	95	93	94
Total K-5	579	590	494	511	513	515	500	513	528	530	532	534	538	543
Total K-5	579	590	494	511	513	515	500	513	528	530	532	534	538	543
Change		11	-96	17	2	2	-15	13	15	2	2	2	4	5
%-Change		1.9%	-16%	3.4%	0.4%	0.4%	-2.9%	2.6%	2.9%	0.4%	0.4%	0.4%	0.7%	0.9%

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

## **Eel River Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	93	92	75	64	68	70	69	67	68	69	70	72	73	71
1	118	89	60	68	65	67	69	68	66	67	68	69	71	72
2	90	108	75	64	67	64	66	68	67	65	66	67	68	70
3	99	96	73	80	65	68	65	67	69	68	66	67	68	69
4	80	98	63	73	78	64	67	64	66	68	67	65	66	67
5	82	79	80	64	74	79	65	68	65	67	69	68	66	67
Total K-5	562	562	426	413	417	412	401	402	401	404	406	408	412	416
Total K-5	562	562	426	413	417	412	401	402	401	404	406	408	412	416
Change		0	-136	-13	4	-5	-11	1	-1	3	2	2	4	4
%-Change		0.0%	-24%	-3.1%	1.0%	-1.2%	-2.7%	0.2%	-0.2%	0.7%	0.5%	0.5%	1.0%	1.0%

## **Hickory Center Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	60	48	65	88	84	80	80	80	80	79	79	78	78	76
1	50	56	67	71	91	87	83	83	82	82	81	81	80	80
2	65	51	63	69	72	92	88	84	84	83	83	80	80	78
3	69	56	71	71	70	73	93	89	85	85	84	82	79	79
4	80	68	72	74	72	71	74	92	88	84	84	83	81	78
5	74	85	75	77	75	73	72	73	91	87	83	83	82	80
Total K-5	398	364	413	450	464	476	490	501	510	500	494	487	480	471
Total K-5	398	364	413	450	464	476	490	501	510	500	494	487	480	471
Change		-34	49	37	14	12	14	11	9	-10	-6	-7	-7	-9
%-Change		-8.5%	13.5%	9.0%	3.1%	2.6%	2.9%	2.2%	1.8%	-2.0%	-1.2%	-1.4%	-1.4%	-1.9%

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

## **Huntertown Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
.,														
K	92	103	73	87	89	91	92	91	92	93	94	96	96	95
1	100	92	69	74	90	92	94	94	93	94	95	96	97	97
2	116	102	76	83	77	94	96	97	97	96	97	97	98	99
3	124	117	71	84	85	79	97	98	99	99	98	98	98	99
4	100	124	103	75	86	87	81	99	100	101	101	99	99	99
5	117	100	94	103	77	88	89	83	101	102	103	102	100	100
Total K-5	649	638	486	506	504	531	549	562	582	585	588	588	588	589
Total K-5	649	638	486	506	504	531	549	562	582	585	588	588	588	589
Change		-11	-152	20	-2	27	18	13	20	3	3	0	0	1
%-Change		-1.7%	-24%	4.1%	-0.4%	5.4%	3.4%	2.4%	3.6%	0.5%	0.5%	0.0%	0.0%	0.2%

## Oak View Elementary: Total Enrollment

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	79	70	75	70	75	77	78	76	77	78	79	81	81	80
1	78	81	60	79	77	79	81	81	79	80	81	82	83	84
2	96	73	73	64	81	79	81	83	83	81	82	82	83	84
3	103	95	69	75	65	83	81	83	85	85	83	83	83	84
4	81	102	82	73	77	67	85	83	85	87	87	84	84	84
5	93	82	86	90	75	79	68	87	85	87	89	88	85	85
Total K-5	530	503	445	451	450	464	474	493	494	498	501	500	499	501
Total K-5	530	503	445	451	450	464	474	493	494	498	501	500	499	501
Change		-27	-58	6	-1	14	10	19	1	4	3	-1	-1	2
%-Change		-5.1%	-12%	1.3%	-0.2%	3.1%	2.2%	4.0%	0.2%	0.8%	0.6%	-0.2%	-0.2%	0.4%

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

## **Perry Hill Elementary: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
K	100	96	82	74	79	81	81	80	80	81	82	83	84	82
			_							-				
1	100	104	87	87	81	83	85	84	83	83	84	85	86	87
2	110	104	94	89	90	83	85	87	86	85	85	85	86	87
3	93	107	92	95	91	92	85	87	89	88	87	87	87	88
4	100	97	100	98	98	94	94	87	89	91	90	88	88	88
5	98	102	101	102	100	100	96	96	89	91	93	91	89	89
Total K-5	601	610	556	545	539	533	526	521	516	519	521	519	520	521
Total K-5	601	610	556	545	539	533	526	521	516	519	521	519	520	521
Change		9	-54	-11	-6	-6	-7	-5	-5	3	2	-2	1	1
%-Change		1.5%	-8.9%	-2.0%	-1.1%	-1.1%	-1.3%	-1.0%	-1.0%	0.6%	0.4%	-0.4%	0.2%	0.2%

#### **Carroll Middle School: Total Enrollment**

	2019- 20	2020- 21	2021- 22	2022- 23	2023- 24	2024- 25	2025- 26	2026- 27	2027- 28	2028- 29	2029- 30	2030- 31	2031- 32	2032- 33
6	333	313	309	340	344	324	323	327	318	368	368	364	363	356
7	321	333	304	330	350	354	334	333	337	328	379	379	375	374
8	317	326	333	321	340	361	365	344	343	347	338	390	390	386
Total 6-8	971	972	946	991	1034	1039	1022	1004	998	1043	1085	1133	1128	1116
Total 6-8	971	972	946	991	1034	1039	1022	1004	998	1043	1085	1133	1128	1116
Change		1	-26	45	43	5	-17	-18	-6	45	42	48	-5	-12
%-Change		0.1%	-2.7%	4.8%	4.3%	0.5%	-1.6%	-1.8%	-0.6%	4.5%	4.0%	4.4%	-0.4%	-1.1%

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

## **Maple Creek Middle School: Total Enrollment**

	2019-	2020-	2021-	2022-	2023-	2024-	2025-	2026-	2027-	2028-	2029-	2030-	2031-	2032-
	20	21	22	23	24	25	26	27	28	29	30	31	32	33
6	286	294	296	323	337	330	345	300	326	329	336	345	340	331
7	322	295	312	316	336	350	343	359	312	339	342	349	359	354
8	301	327	307	317	322	343	357	350	366	318	346	349	356	366
Total 6-8	909	916	915	956	995	1023	1045	1009	1004	986	1024	1043	1055	1051
Total 6-8	909	916	915	956	995	1023	1045	1009	1004	986	1024	1043	1055	1051
Change		7	-1	41	39	28	22	-36	-5	-18	38	19	12	-4
%-Change		0.8%	-0.1%	4.5%	4.1%	2.8%	2.2%	-3.4%	-0.5%	-1.8%	3.9%	1.9%	1.2%	-0.4%

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

#### **Carroll High School: Total Enrollment**

	2019-	2020-	2021-	2022-	2023-	2024-	2025-	2026-	2027-	2028-	2029-	2030-	2031-	2032-
	20	21	22	23	24	25	26	27	28	29	30	31	32	33
9	634	643	682	664	670	695	739	758	729	744	698	718	776	783
10	598	629	624	670	651	657	681	724	743	714	729	684	704	760
11	640	592	614	624	667	648	654	678	720	739	710	725	681	700
12	569	612	560	586	605	647	629	634	658	698	717	689	703	661
Total 9-12	2441	2476	2480	2544	2593	2647	2703	2794	2850	2895	2854	2816	2864	2904
Total 9-12	2441	2476	2480	2544	2593	2647	2703	2794	2850	2895	2854	2816	2864	2904
Change		<i>3</i> 5	4	64	49	54	56	91	56	45	-41	-38	48	40
%-Change		1.4%	0.1%	2.6%	1.9%	2.1%	2.1%	3.4%	2.0%	1.6%	-1.4%	-1.3%	1.7%	1.4%

## **Appendix E: Live vs Attend Matrices**

