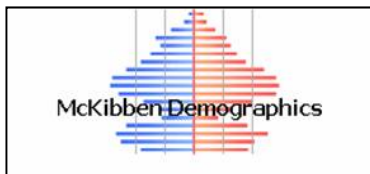


# Carlisle Area School District, PA Demographic Study

September 2015



Cropper GIS



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### Executive Summary

1. The total fertility rate for the Carlisle Area School District 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-4 and 25-to-39 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.
4. The primary factor causing the district's enrollment to increase is the sustained level of in-migration of young households/families and a moderation in the number of households that are "empty nest".
5. Changes in year-to-year enrollment will primarily be due to larger cohorts entering and moving through the school system in conjunction with smaller cohorts leaving the system.
6. The elementary enrollment will begin a slow decline after 2019.
7. The median age of the population will increase from 38.9 in 2010 to 39.2 in 2025.
8. The primary cause in the rise of the high school enrollment after 2019 is due to the wave of relatively large grade cohorts currently in the elementary and middle school grades.
9. Even if the district continues to have a modest level of annual new housing unit construction, the rate, magnitude and price of existing home sales will become the increasingly dominant factor affecting the amount of population and enrollment change.
10. Total district enrollment is forecasted to increase by 212 students, or 4.3%, between 2014-15 and 2019-20. Total enrollment will grow by 120 students, or 2.3%, from 2019-20 to 2024-25.



## 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 is 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 Carlisle Area School District. 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 Carlisle Area School District provided enrollments by grade and attendance center for the school years 2010-2011 to 2014-15. Birth and death data for the years 2000 through 2012 were obtained from the Pennsylvania Department of Health. The net migration values were calculated using Internal Revenue Service migration reports for the years 2000 through 2011. 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 and demographic characteristics 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 350 of the over 15,000 current households in the district would have been included. For comparison 2,300 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 Carlisle Area School District 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 2024. 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 in 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 to be the theoretical "replacement level" of fertility necessary for a population to remain constant in the absence of immigration. Therefore, in the absence of migration, fertility alone would be insufficient to maintain the current level of population and enrollment within the Carlisle Area School District over the course of the forecast period.

A close examination of data for the Carlisle Area School District 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 Carlisle Area School District (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-4 and 25-39 age groups (bulk of which is from areas within 75 miles of the Carlisle Area School District) primarily consisting of younger adults and their children.

As the Cumberland 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 Carlisle Area School District and its attendance areas will remain the same through the year 2024. Below is a list of assumptions and issues that are specific to the Carlisle Area School District. 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 Carlisle Area School District assume that throughout the study period:

- a. There will be no short term economic recovery in the next 18 months and the national, state or regional economy does not go into deep recession at anytime 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 an 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 2005-2007 average of Cumberland County for any year in the forecasts;
- f. All currently planned, platted, and approved housing developments are built out and completed by 2023. All housing units constructed are occupied by 2024;
- g. The unemployment rates for the Cumberland County area will remain below 6.0% for the 10 years of the forecasts;
- h. The rate of students transferring into and out of the Carlisle Area School District will remain at the 2010-11 to 2014-15 average;
- i. The inflation rate for gasoline will stay below 5% per year for the 10 years of the forecasts;
- j. There will be no building moratorium within the district;

- k. Businesses within the district and the Carlisle Area School District area will remain viable;
- l. 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;
- m. 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 55;
- n. Private school and home school attendance rates will remain constant;
- o. The recent decline in new home construction has ended and building rates have stabilized;
- p. The rate of foreclosures for commercial property remains at the 2004-2008 average for Cumberland County;

If a major employer in the district or in the Cumberland County 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 Carlisle Area School District 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:

1. a base-year population (here, the 2010 Census population for Carlisle Area School District and its attendance areas);
2. a set of age-specific fertility rates for the district to be used over the forecast period and its attendance areas;
3. a set of age-specific survival (mortality) rates for the district and its attendance areas;
4. a set of age-specific migration rates for the district and its attendance areas; and;
5. 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 Carlisle

Area School District is classified as a “small area” population (as compared to the population of the state of Pennsylvania 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 Carlisle Area School District 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 Carlisle Area School District.

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 Carlisle Area School District 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: Enrollment Forecasts

Carlisle Area School District: Total District Enrollment

|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K           | 357     | 359     | 372     | 357     | 334     | 362     | 366     | 364     | 361     | 354     | 351     | 345     | 339     | 332     | 333     |
| 1           | 392     | 371     | 389     | 384     | 390     | 375     | 388     | 392     | 390     | 387     | 380     | 375     | 367     | 361     | 354     |
| 2           | 373     | 389     | 383     | 380     | 376     | 395     | 381     | 394     | 398     | 396     | 396     | 388     | 383     | 373     | 367     |
| 3           | 366     | 352     | 411     | 385     | 381     | 377     | 398     | 385     | 398     | 402     | 401     | 401     | 394     | 389     | 379     |
| 4           | 356     | 378     | 345     | 391     | 388     | 388     | 380     | 403     | 390     | 403     | 408     | 406     | 406     | 399     | 394     |
| 5           | 389     | 369     | 376     | 342     | 397     | 388     | 391     | 379     | 403     | 391     | 405     | 410     | 408     | 409     | 402     |
| SE          | 31      | 34      | 28      | 22      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      | 23      |
| Total: K-5  | 2264    | 2252    | 2304    | 2261    | 2289    | 2308    | 2327    | 2340    | 2363    | 2356    | 2364    | 2348    | 2320    | 2286    | 2252    |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
| 6           | 333     | 392     | 350     | 373     | 343     | 393     | 384     | 389     | 376     | 401     | 391     | 405     | 413     | 412     | 412     |
| 7           | 322     | 355     | 426     | 362     | 372     | 355     | 407     | 397     | 403     | 391     | 419     | 408     | 423     | 431     | 431     |
| 8           | 377     | 335     | 358     | 389     | 367     | 369     | 352     | 403     | 393     | 401     | 391     | 419     | 408     | 423     | 433     |
| SE          | 23      | 21      | 27      | 21      | 22      | 22      | 22      | 22      | 22      | 22      | 22      | 22      | 22      | 22      | 22      |
| Total: 6-8  | 1055    | 1103    | 1161    | 1145    | 1104    | 1139    | 1165    | 1211    | 1194    | 1215    | 1223    | 1254    | 1266    | 1288    | 1298    |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
| 9           | 409     | 405     | 384     | 381     | 442     | 400     | 403     | 384     | 440     | 430     | 439     | 429     | 460     | 448     | 465     |
| 10          | 348     | 380     | 371     | 367     | 357     | 411     | 372     | 375     | 357     | 409     | 400     | 410     | 401     | 430     | 419     |
| 11          | 358     | 314     | 359     | 355     | 340     | 336     | 386     | 350     | 353     | 336     | 384     | 378     | 387     | 379     | 406     |
| 12          | 339     | 337     | 300     | 340     | 334     | 320     | 316     | 363     | 329     | 332     | 316     | 363     | 357     | 366     | 358     |
| 9-10 E/S    | 12      | 13      | 23      | 18      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24      |
| 11-12 E/S   | 17      | 14      | 17      | 20      | 25      | 25      | 25      | 25      | 25      | 25      | 25      | 25      | 25      | 25      | 25      |
| CAEP        | 3       | 6       | 7       | 3       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       | 4       |
| Total: 9-12 | 1486    | 1469    | 1461    | 1484    | 1526    | 1520    | 1530    | 1525    | 1532    | 1560    | 1592    | 1633    | 1658    | 1676    | 1701    |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
| Total: K-12 | 4805    | 4824    | 4926    | 4890    | 4919    | 4967    | 5022    | 5076    | 5089    | 5131    | 5179    | 5235    | 5244    | 5250    | 5251    |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years

Carlisle Area School District: Total District Enrollment Changes

|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total: K-12 | 4805    | 4824    | 4926    | 4890    | 4919    | 4967    | 5022    | 5076    | 5089    | 5131    | 5179    | 5235    | 5244    | 5250    | 5251    |
| Change      |         | 19      | 102     | -36     | 29      | 48      | 55      | 54      | 13      | 42      | 48      | 56      | 9       | 6       | 1       |
| %-Change    |         | 0.4%    | 2.1%    | -0.7%   | 0.6%    | 1.0%    | 1.1%    | 1.1%    | 0.3%    | 0.8%    | 0.9%    | 1.1%    | 0.2%    | 0.1%    | 0.0%    |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
| Total: K-5  | 2264    | 2252    | 2304    | 2261    | 2289    | 2308    | 2327    | 2340    | 2363    | 2356    | 2364    | 2348    | 2320    | 2286    | 2252    |
| Change      |         | -12     | 52      | -43     | 28      | 19      | 19      | 13      | 23      | -7      | 8       | -16     | -28     | -34     | -34     |
| %-Change    |         | -0.5%   | 2.3%    | -1.9%   | 1.2%    | 0.8%    | 0.8%    | 0.6%    | 1.0%    | -0.3%   | 0.3%    | -0.7%   | -1.2%   | -1.5%   | -1.5%   |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
| Total: 6-8  | 1055    | 1103    | 1161    | 1145    | 1104    | 1139    | 1165    | 1211    | 1194    | 1215    | 1223    | 1254    | 1266    | 1288    | 1298    |
| Change      |         | 48      | 58      | -16     | -41     | 35      | 26      | 46      | -17     | 21      | 8       | 31      | 12      | 22      | 10      |
| %-Change    |         | 4.5%    | 5.3%    | -1.4%   | -3.6%   | 3.2%    | 2.3%    | 3.9%    | -1.4%   | 1.8%    | 0.7%    | 2.5%    | 1.0%    | 1.7%    | 0.8%    |
|             | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
| Total: 9-12 | 1486    | 1469    | 1461    | 1484    | 1526    | 1520    | 1530    | 1525    | 1532    | 1560    | 1592    | 1633    | 1658    | 1676    | 1701    |
| Change      |         | -17     | -8      | 23      | 42      | -6      | 10      | -5      | 7       | 28      | 32      | 41      | 25      | 18      | 25      |
| %-Change    |         | -1.1%   | -0.5%   | 1.6%    | 2.8%    | -0.4%   | 0.7%    | -0.3%   | 0.5%    | 1.8%    | 2.1%    | 2.6%    | 1.5%    | 1.1%    | 1.5%    |

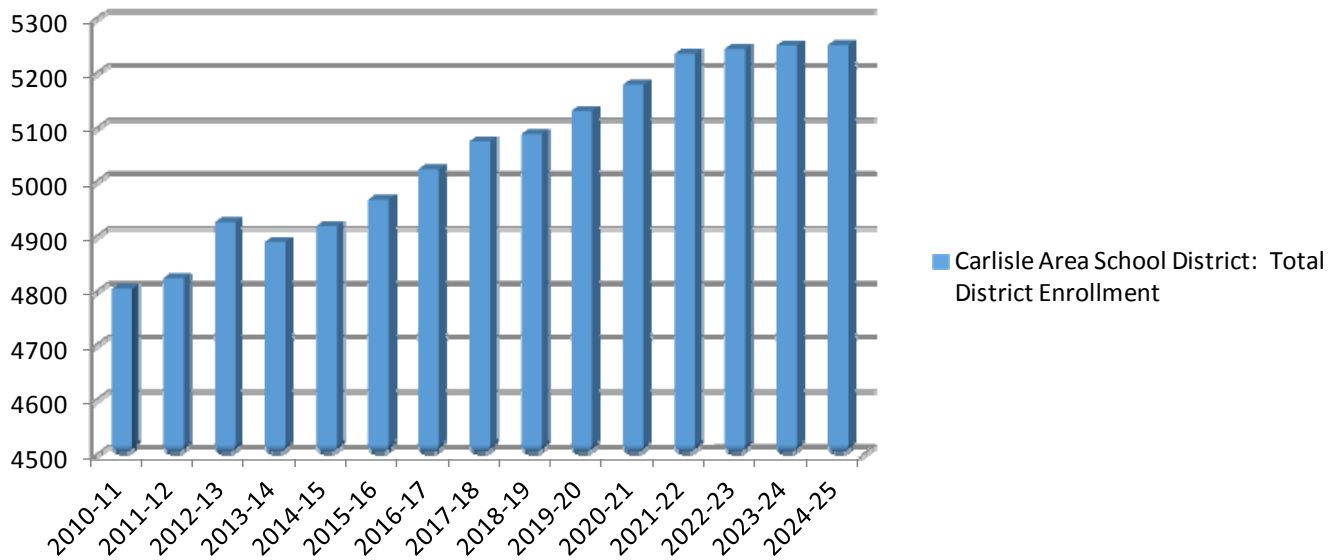
Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

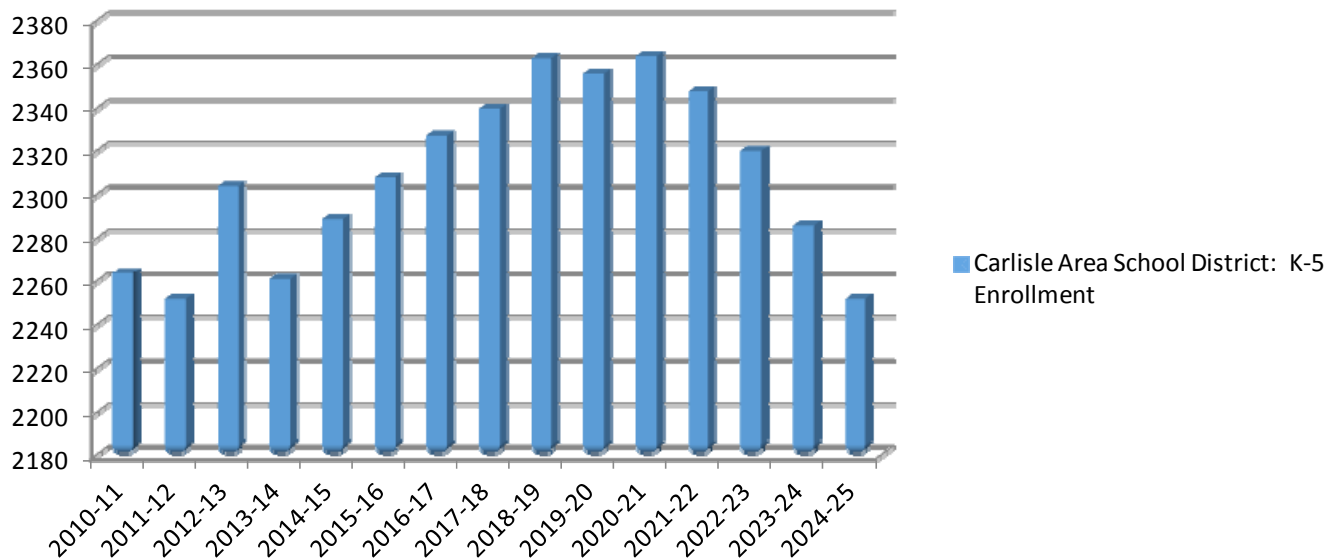
Blue cells (2015-16 and later) are forecasted years



## Carlisle Area School District: Total District Enrollment

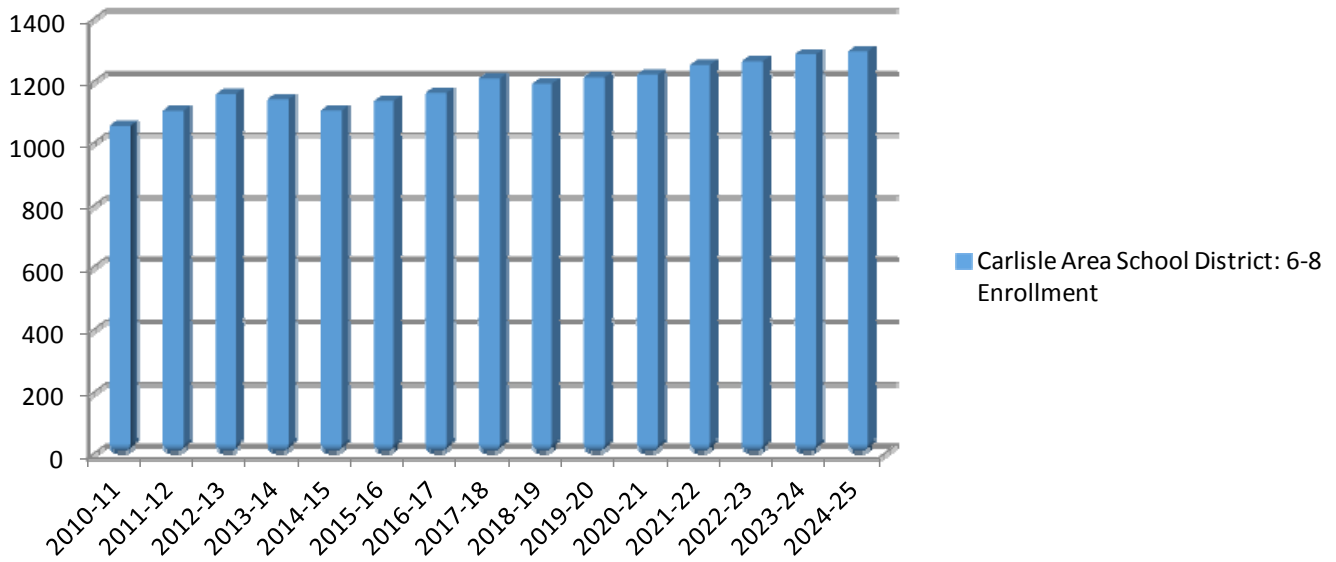


## Carlisle Area School District: K-5 Enrollment

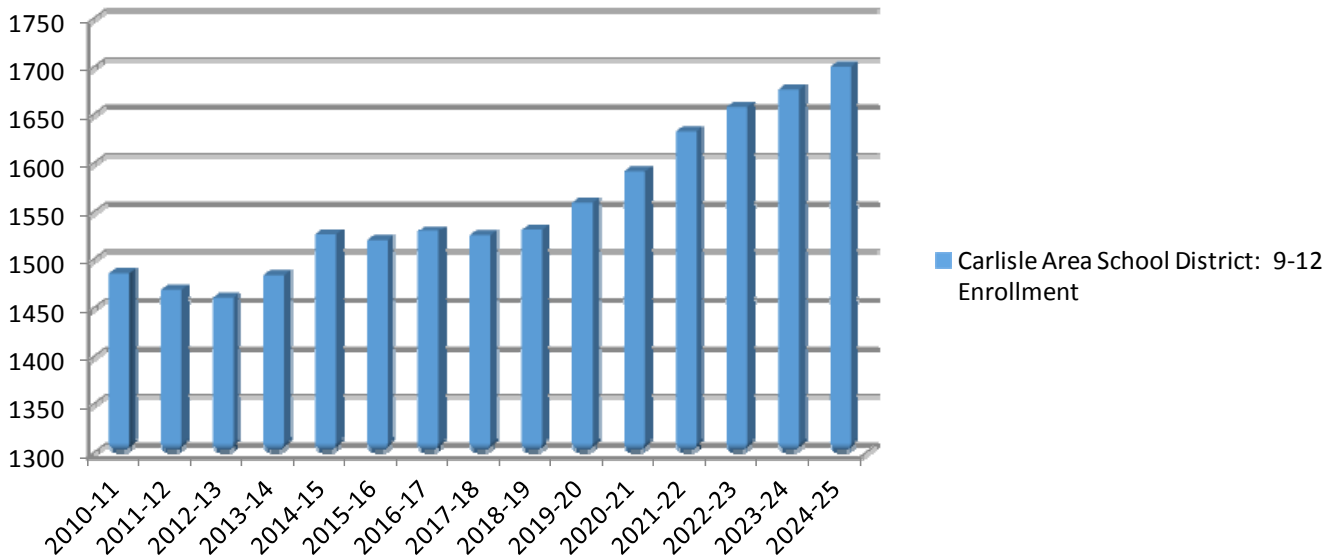




### Carlisle Area School District: 6-8 Enrollment



### Carlisle Area School District: 9-12 Enrollment





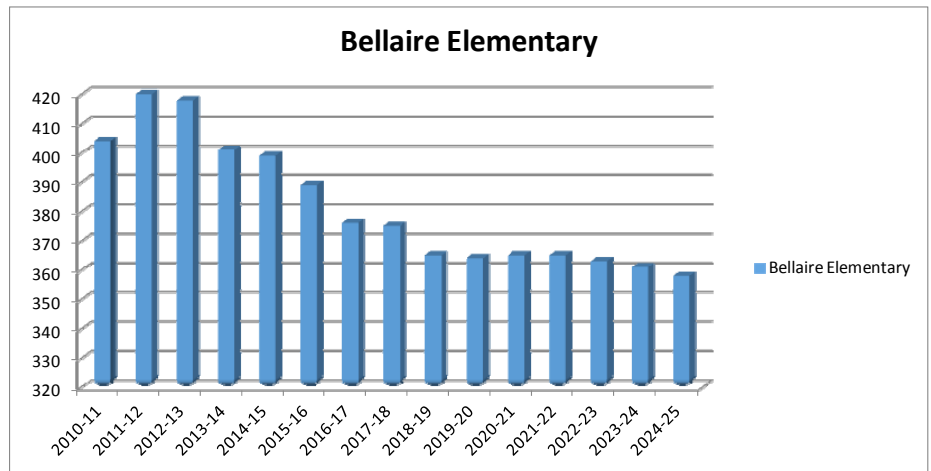
### Bellaire Elementary

|           | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K         | 70      | 74      | 73      | 69      | 66      | 64      | 65      | 64      | 64      | 63      | 62      | 61      | 60      | 59      | 60      |
| 1         | 72      | 78      | 64      | 71      | 62      | 61      | 62      | 63      | 62      | 62      | 61      | 61      | 60      | 59      | 58      |
| 2         | 64      | 71      | 79      | 62      | 72      | 61      | 60      | 61      | 62      | 61      | 63      | 62      | 62      | 61      | 60      |
| 3         | 66      | 60      | 70      | 73      | 60      | 69      | 59      | 58      | 59      | 60      | 59      | 61      | 60      | 60      | 59      |
| 4         | 57      | 72      | 59      | 68      | 74      | 61      | 70      | 60      | 59      | 60      | 61      | 60      | 62      | 61      | 61      |
| 5         | 75      | 65      | 73      | 58      | 65      | 73      | 60      | 69      | 59      | 58      | 59      | 60      | 59      | 61      | 60      |
| SE        | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Total K-5 | 404     | 420     | 418     | 401     | 399     | 389     | 376     | 375     | 365     | 364     | 365     | 365     | 363     | 361     | 358     |
| Change    |         | 16      | -2      | -17     | -2      | -10     | -13     | -1      | -10     | -1      | 1       | 0       | -2      | -2      | -3      |
| % Change  |         | 4.0%    | -0.5%   | -4.1%   | -0.5%   | -2.5%   | -3.3%   | -0.3%   | -2.7%   | -0.3%   | 0.3%    | 0.0%    | -0.5%   | -0.6%   | -0.8%   |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years



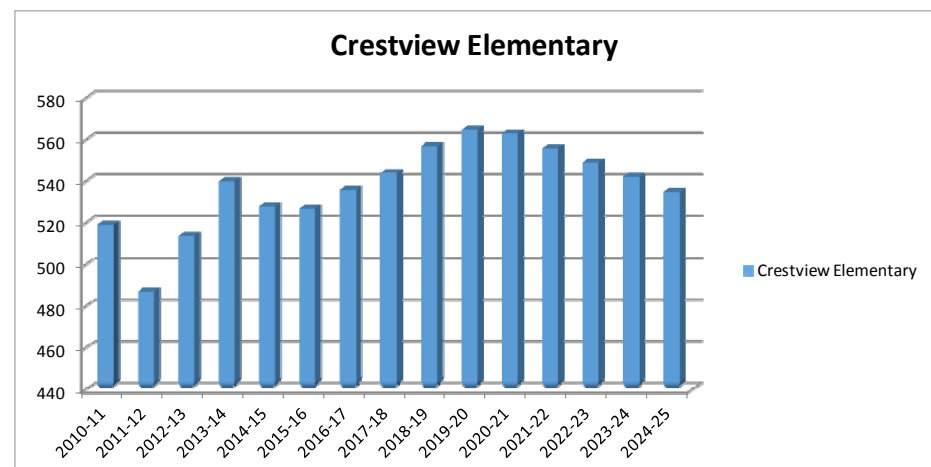
### Crestview Elementary

|           | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K         | 80      | 63      | 73      | 65      | 73      | 75      | 75      | 74      | 74      | 73      | 74      | 73      | 72      | 71      | 70      |
| 1         | 97      | 94      | 87      | 91      | 83      | 90      | 91      | 91      | 90      | 90      | 89      | 88      | 87      | 86      | 85      |
| 2         | 83      | 93      | 100     | 88      | 83      | 87      | 95      | 96      | 96      | 95      | 94      | 93      | 92      | 90      | 89      |
| 3         | 73      | 73      | 101     | 103     | 91      | 86      | 90      | 99      | 100     | 100     | 98      | 97      | 96      | 95      | 93      |
| 4         | 83      | 76      | 82      | 102     | 93      | 94      | 89      | 93      | 102     | 103     | 102     | 100     | 99      | 98      | 97      |
| 5         | 95      | 88      | 71      | 91      | 105     | 95      | 96      | 91      | 95      | 104     | 106     | 105     | 103     | 102     | 101     |
| SE        | 8       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Total K-5 | 519     | 487     | 514     | 540     | 528     | 527     | 536     | 544     | 557     | 565     | 563     | 556     | 549     | 542     | 535     |
| Change    |         | -32     | 27      | 26      | -12     | -1      | 9       | 8       | 13      | 8       | -2      | -7      | -7      | -7      | -7      |
| % Change  |         | -6.2%   | 5.5%    | 5.1%    | -2.2%   | -0.2%   | 1.7%    | 1.5%    | 2.4%    | 1.4%    | -0.4%   | -1.2%   | -1.3%   | -1.3%   | -1.3%   |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years





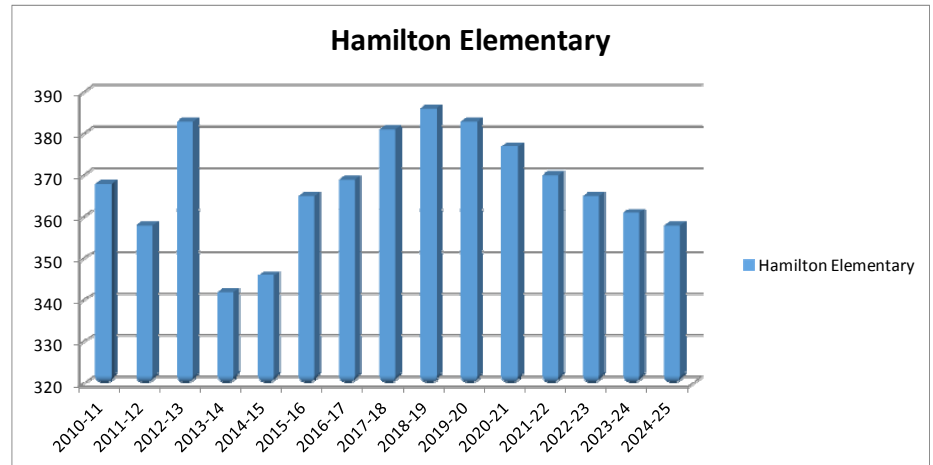
### Hamilton Elementary

|           | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K         | 74      | 73      | 84      | 67      | 68      | 75      | 74      | 74      | 73      | 72      | 71      | 70      | 69      | 68      | 69      |
| 1         | 66      | 61      | 63      | 73      | 73      | 72      | 73      | 72      | 72      | 71      | 70      | 69      | 68      | 67      | 66      |
| 2         | 65      | 64      | 63      | 51      | 60      | 67      | 66      | 67      | 66      | 66      | 65      | 64      | 63      | 62      | 61      |
| 3         | 61      | 54      | 67      | 58      | 48      | 56      | 63      | 62      | 63      | 62      | 61      | 60      | 60      | 59      | 58      |
| 4         | 52      | 56      | 52      | 49      | 55      | 45      | 52      | 59      | 58      | 59      | 57      | 56      | 55      | 55      | 54      |
| 5         | 50      | 50      | 54      | 44      | 42      | 50      | 41      | 47      | 54      | 53      | 53      | 51      | 50      | 50      | 50      |
| SE        | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Total K-5 | 368     | 358     | 383     | 342     | 346     | 365     | 369     | 381     | 386     | 383     | 377     | 370     | 365     | 361     | 358     |
| Change    |         | -10     | 25      | -41     | 4       | 19      | 4       | 12      | 5       | -3      | -6      | -7      | -5      | -4      | -3      |
| % Change  |         | -2.7%   | 7.0%    | -10.7%  | 1.2%    | 5.5%    | 1.1%    | 3.3%    | 1.3%    | -0.8%   | -1.6%   | -1.9%   | -1.4%   | -1.1%   | -0.8%   |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years



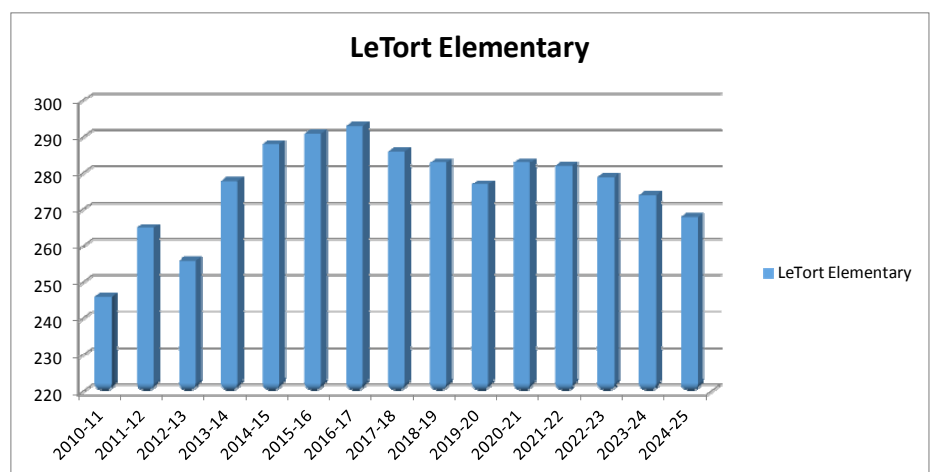
### LeTort Elementary

|           | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K         | 46      | 50      | 50      | 51      | 39      | 46      | 47      | 47      | 46      | 44      | 43      | 42      | 42      | 41      | 40      |
| 1         | 32      | 41      | 47      | 49      | 47      | 38      | 43      | 44      | 44      | 43      | 41      | 41      | 40      | 40      | 39      |
| 2         | 49      | 39      | 33      | 54      | 48      | 49      | 40      | 45      | 46      | 46      | 46      | 43      | 43      | 42      | 42      |
| 3         | 43      | 52      | 42      | 40      | 55      | 50      | 51      | 42      | 47      | 48      | 49      | 49      | 46      | 46      | 45      |
| 4         | 37      | 48      | 42      | 44      | 49      | 58      | 53      | 54      | 45      | 50      | 52      | 53      | 53      | 50      | 50      |
| 5         | 39      | 35      | 42      | 40      | 50      | 50      | 59      | 54      | 55      | 46      | 52      | 54      | 55      | 55      | 52      |
| SE        | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Total K-5 | 246     | 265     | 256     | 278     | 288     | 291     | 293     | 286     | 283     | 277     | 283     | 282     | 279     | 274     | 268     |
| Change    |         | 19      | -9      | 22      | 10      | 3       | 2       | -7      | -3      | -6      | 6       | -1      | -3      | -5      | -6      |
| % Change  |         | 7.7%    | -3.4%   | 8.6%    | 3.6%    | 1.0%    | 0.7%    | -2.4%   | -1.0%   | -2.1%   | 2.2%    | -0.4%   | -1.1%   | -1.8%   | -2.2%   |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years





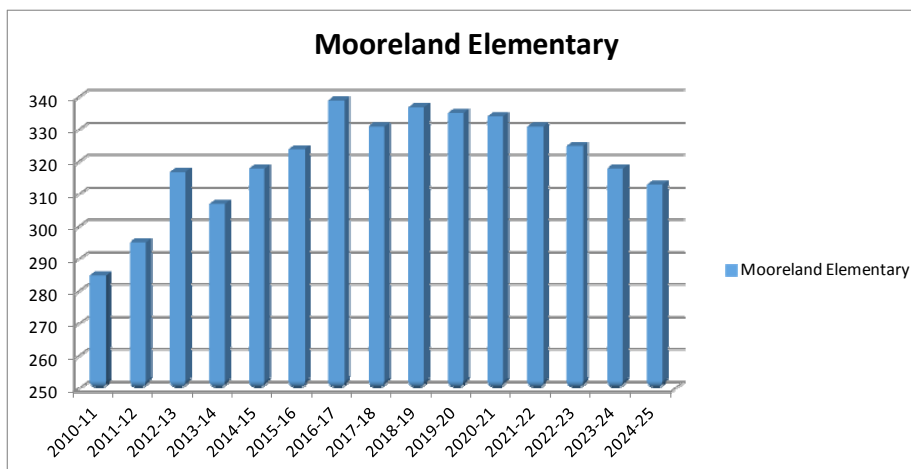
### Mooreland Elementary

|           | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K         | 28      | 44      | 34      | 40      | 36      | 39      | 40      | 40      | 39      | 39      | 39      | 38      | 37      | 36      | 37      |
| 1         | 47      | 37      | 60      | 46      | 53      | 51      | 52      | 53      | 53      | 52      | 52      | 51      | 49      | 48      | 47      |
| 2         | 51      | 42      | 46      | 60      | 49      | 55      | 53      | 54      | 55      | 55      | 54      | 54      | 53      | 50      | 49      |
| 3         | 43      | 53      | 54      | 43      | 66      | 52      | 59      | 57      | 58      | 59      | 58      | 57      | 57      | 56      | 53      |
| 4         | 51      | 44      | 55      | 58      | 49      | 70      | 55      | 63      | 60      | 61      | 62      | 61      | 60      | 60      | 59      |
| 5         | 50      | 57      | 55      | 54      | 59      | 51      | 74      | 58      | 66      | 63      | 63      | 64      | 63      | 62      | 62      |
| SE        | 15      | 18      | 13      | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       | 6       |
| Total K-5 | 285     | 295     | 317     | 307     | 318     | 324     | 339     | 331     | 337     | 335     | 334     | 331     | 325     | 318     | 313     |
| Change    |         | 10      | 22      | -10     | 11      | 6       | 15      | -8      | 6       | -2      | -1      | -3      | -6      | -7      | -5      |
| % Change  |         | 3.5%    | 7.5%    | -3.2%   | 3.6%    | 1.9%    | 4.6%    | -2.4%   | 1.8%    | -0.6%   | -0.3%   | -0.9%   | -1.8%   | -2.2%   | -1.6%   |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years



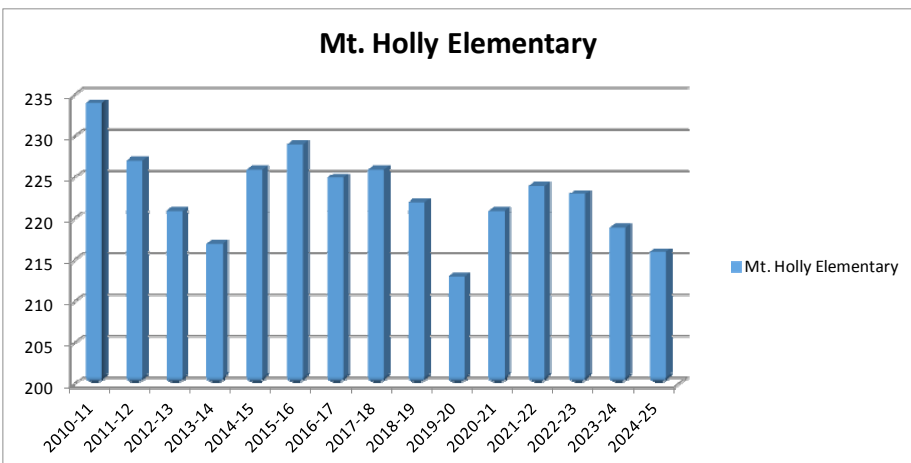
### Mt. Holly Elementary

|           | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 | 2024-25 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K         | 30      | 34      | 39      | 39      | 23      | 32      | 34      | 35      | 35      | 34      | 33      | 32      | 31      | 30      | 32      |
| 1         | 46      | 28      | 38      | 36      | 45      | 30      | 33      | 35      | 36      | 36      | 35      | 34      | 33      | 32      | 31      |
| 2         | 28      | 46      | 32      | 38      | 43      | 48      | 32      | 35      | 37      | 38      | 39      | 38      | 37      | 36      | 35      |
| 3         | 41      | 29      | 42      | 37      | 34      | 42      | 47      | 31      | 34      | 36      | 39      | 40      | 39      | 38      | 37      |
| 4         | 42      | 42      | 24      | 35      | 37      | 32      | 39      | 44      | 29      | 32      | 35      | 37      | 38      | 37      | 36      |
| 5         | 39      | 41      | 37      | 25      | 35      | 36      | 31      | 37      | 42      | 28      | 31      | 34      | 36      | 37      | 36      |
| SE        | 8       | 7       | 9       | 7       | 9       | 9       | 9       | 9       | 9       | 9       | 9       | 9       | 9       | 9       | 9       |
| Total K-5 | 234     | 227     | 221     | 217     | 226     | 229     | 225     | 226     | 222     | 213     | 221     | 224     | 223     | 219     | 216     |
| Change    |         | -7      | -6      | -4      | 9       | 3       | -4      | 1       | -4      | -9      | 8       | 3       | -1      | -4      | -3      |
| % Change  |         | -3.0%   | -2.6%   | -1.8%   | 4.1%    | 1.3%    | -1.7%   | 0.4%    | -1.8%   | -4.1%   | 3.8%    | 1.4%    | -0.4%   | -1.8%   | -1.4%   |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years







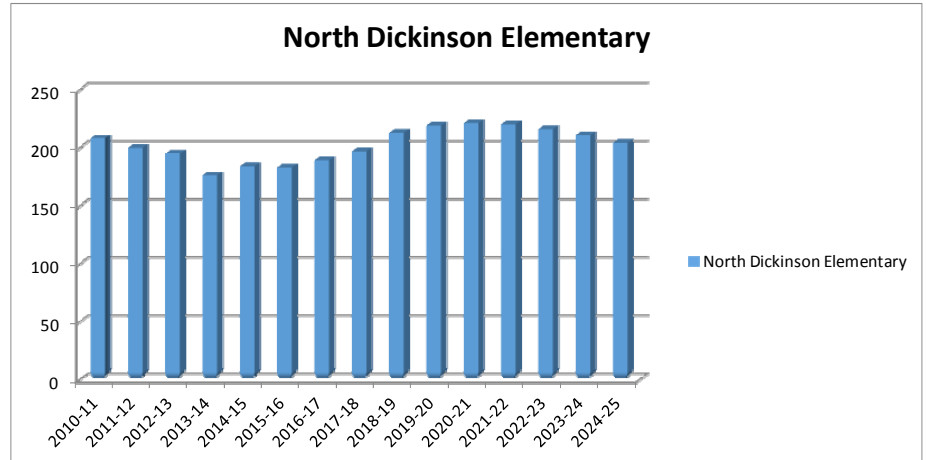
### North Dickinson Elementary

|                  | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    |
|------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| K                | 29         | 21         | 19         | 26         | 29         | 31         | 31         | 30         | 30         | 29         | 29         | 29         | 28         | 27         | 25         |
| 1                | 32         | 32         | 30         | 18         | 27         | 33         | 34         | 34         | 33         | 33         | 32         | 31         | 30         | 29         | 28         |
| 2                | 33         | 34         | 30         | 27         | 21         | 28         | 35         | 36         | 36         | 35         | 35         | 34         | 33         | 32         | 31         |
| 3                | 39         | 31         | 35         | 31         | 27         | 22         | 29         | 36         | 37         | 37         | 37         | 37         | 36         | 35         | 34         |
| 4                | 34         | 40         | 31         | 35         | 31         | 28         | 22         | 30         | 37         | 38         | 39         | 39         | 39         | 38         | 37         |
| 5                | 41         | 33         | 44         | 30         | 41         | 33         | 30         | 23         | 32         | 39         | 41         | 42         | 42         | 42         | 41         |
| SE               | 0          | 9          | 6          | 9          | 8          | 8          | 8          | 8          | 8          | 8          | 8          | 8          | 8          | 8          | 8          |
| <b>Total K-5</b> | <b>208</b> | <b>200</b> | <b>195</b> | <b>176</b> | <b>184</b> | <b>183</b> | <b>189</b> | <b>197</b> | <b>213</b> | <b>219</b> | <b>221</b> | <b>220</b> | <b>216</b> | <b>211</b> | <b>204</b> |
| <b>Change</b>    |            | -8         | -5         | -19        | 8          | -1         | 6          | 8          | 16         | 6          | 2          | -1         | -4         | -5         | -7         |
| <b>% Change</b>  |            | -3.8%      | -2.5%      | -9.7%      | 4.5%       | -0.5%      | 3.3%       | 4.2%       | 8.1%       | 2.8%       | 0.9%       | -0.5%      | -1.8%      | -2.3%      | -3.3%      |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years



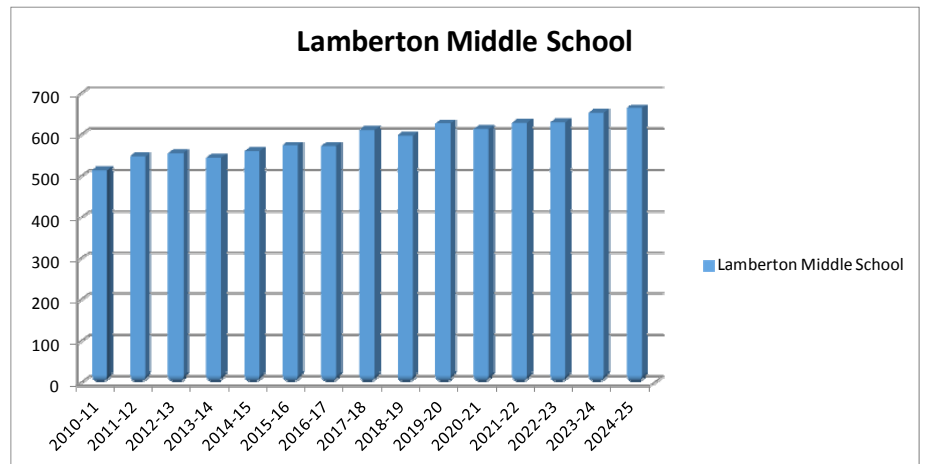
### Lamberton Middle School

|                   | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 6                 | 174        | 187        | 158        | 188        | 166        | 194        | 179        | 204        | 181        | 205        | 187        | 198        | 206        | 208        | 208        |
| 7                 | 157        | 184        | 203        | 170        | 193        | 176        | 206        | 190        | 216        | 194        | 219        | 200        | 212        | 220        | 223        |
| 8                 | 174        | 168        | 182        | 178        | 192        | 195        | 178        | 208        | 192        | 220        | 198        | 223        | 204        | 216        | 224        |
| SE                | 10         | 10         | 13         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         | 10         |
| <b>Total: 6-8</b> | <b>515</b> | <b>549</b> | <b>556</b> | <b>546</b> | <b>561</b> | <b>575</b> | <b>573</b> | <b>612</b> | <b>599</b> | <b>629</b> | <b>614</b> | <b>631</b> | <b>632</b> | <b>654</b> | <b>665</b> |
| <b>Change</b>     |            | 34         | 7          | -10        | 15         | 14         | -2         | 39         | -13        | 30         | -15        | 17         | 1          | 22         | 11         |
| <b>% Change</b>   |            | 6.6%       | 1.3%       | -1.8%      | 2.7%       | 2.5%       | -0.3%      | 6.8%       | -2.1%      | 5.0%       | -2.4%      | 2.8%       | 0.2%       | 3.5%       | 1.7%       |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years





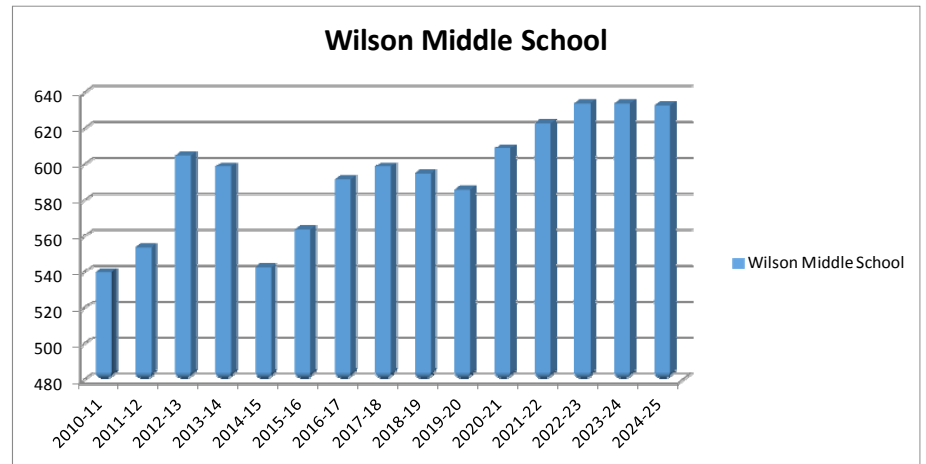
### Wilson Middle School

|                   | 2010-11    | 2011-12    | 2012-13    | 2013-14    | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    |
|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 6                 | 159        | 205        | 192        | 185        | 177        | 199        | 205        | 185        | 195        | 196        | 204        | 207        | 207        | 204        | 204        |
| 7                 | 165        | 171        | 223        | 192        | 179        | 179        | 201        | 207        | 187        | 197        | 200        | 208        | 211        | 211        | 208        |
| 8                 | 203        | 167        | 176        | 211        | 175        | 174        | 174        | 195        | 201        | 181        | 193        | 196        | 204        | 207        | 209        |
| SE                | 13         | 11         | 14         | 11         | 12         | 12         | 12         | 12         | 12         | 12         | 12         | 12         | 12         | 12         | 12         |
| <b>Total: 6-8</b> | <b>540</b> | <b>554</b> | <b>605</b> | <b>599</b> | <b>543</b> | <b>564</b> | <b>592</b> | <b>599</b> | <b>595</b> | <b>586</b> | <b>609</b> | <b>623</b> | <b>634</b> | <b>634</b> | <b>633</b> |
| <b>Change</b>     |            | 14         | 51         | -6         | -56        | 21         | 28         | 7          | -4         | -9         | 23         | 14         | 11         | 0          | -1         |
| <b>% Change</b>   |            | 2.6%       | 9.2%       | -1.0%      | -9.3%      | 3.9%       | 5.0%       | 1.2%       | -0.7%      | -1.5%      | 3.9%       | 2.3%       | 1.8%       | 0.0%       | -0.2%      |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years



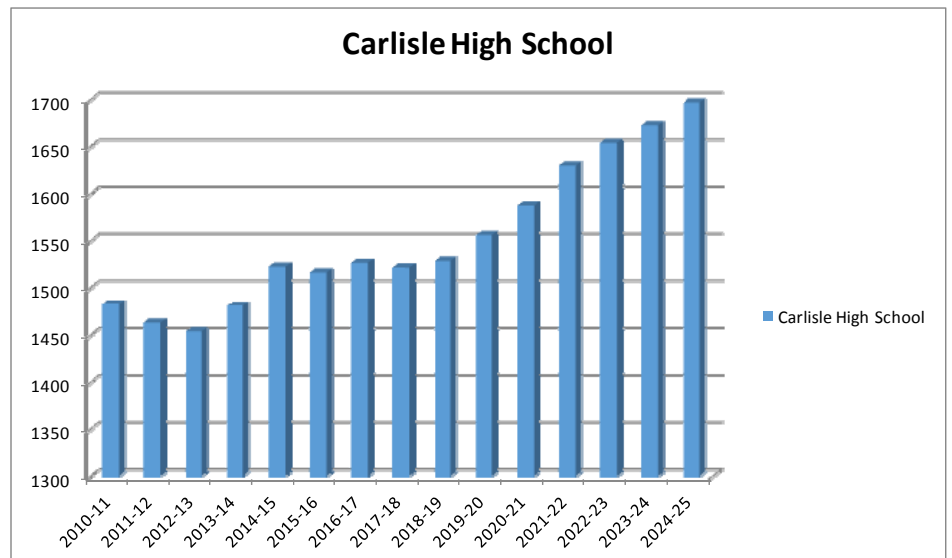
### Carlisle High School

|                    | 2010-11     | 2011-12     | 2012-13     | 2013-14     | 2014-15     | 2015-16     | 2016-17     | 2017-18     | 2018-19     | 2019-20     | 2020-21     | 2021-22     | 2022-23     | 2023-24     | 2024-25     |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 9                  | 409         | 405         | 384         | 381         | 442         | 400         | 403         | 384         | 440         | 430         | 439         | 429         | 460         | 448         | 465         |
| 10                 | 348         | 380         | 371         | 367         | 357         | 411         | 372         | 375         | 357         | 409         | 400         | 410         | 401         | 430         | 419         |
| 11                 | 358         | 314         | 359         | 355         | 340         | 336         | 386         | 350         | 353         | 336         | 384         | 378         | 387         | 379         | 406         |
| 12                 | 339         | 337         | 300         | 340         | 334         | 320         | 316         | 363         | 329         | 332         | 316         | 363         | 357         | 366         | 358         |
| E/S                | 29          | 27          | 40          | 38          | 49          | 49          | 49          | 49          | 49          | 49          | 49          | 49          | 49          | 49          | 49          |
| <b>Total: 9-12</b> | <b>1483</b> | <b>1463</b> | <b>1454</b> | <b>1481</b> | <b>1522</b> | <b>1516</b> | <b>1526</b> | <b>1521</b> | <b>1528</b> | <b>1556</b> | <b>1588</b> | <b>1629</b> | <b>1654</b> | <b>1672</b> | <b>1697</b> |
| <b>Change</b>      |             | -20         | -9          | 27          | 41          | -6          | 10          | -5          | 7           | 28          | 32          | 41          | 25          | 18          | 25          |
| <b>% Change</b>    |             | -1.3%       | -0.6%       | 1.9%        | 2.8%        | -0.4%       | 0.7%        | -0.3%       | 0.5%        | 1.8%        | 2.1%        | 2.6%        | 1.5%        | 1.1%        | 1.5%        |

Forecasts Developed August 2015

Green cells (2014-15 and earlier) are historical data

Blue cells (2015-16 and later) are forecasted years



CARLISLE AREA SCHOOL DISTRICT, PA  
DEMOGRAPHIC STUDY



Appendix B: Population Forecasts  
Carlisle Area School District

| Males | 2010   | 2015   | 2020   | 2025   | Females | 2010   | 2015   | 2020   | 2025   | Total      | 2010   | 2015   | 2020   | 2025   |
|-------|--------|--------|--------|--------|---------|--------|--------|--------|--------|------------|--------|--------|--------|--------|
| 0-4   | 1,102  | 1,150  | 1,100  | 1,030  | 0-4     | 1,092  | 1,100  | 1,060  | 1,020  | 0-4        | 2,194  | 2,250  | 2,160  | 2,050  |
| 5-9   | 1,119  | 1,110  | 1,140  | 1,110  | 5-9     | 1,075  | 1,110  | 1,110  | 1,060  | 5-9        | 2,194  | 2,220  | 2,250  | 2,170  |
| 10-14 | 1,066  | 1,120  | 1,120  | 1,160  | 10-14   | 1,040  | 1,090  | 1,110  | 1,110  | 10-14      | 2,106  | 2,210  | 2,230  | 2,270  |
| 15-19 | 1,289  | 1,340  | 1,390  | 1,410  | 15-19   | 1,473  | 1,430  | 1,460  | 1,500  | 15-19      | 2,762  | 2,770  | 2,850  | 2,910  |
| 20-24 | 1,514  | 1,530  | 1,590  | 1,620  | 20-24   | 1,627  | 1,610  | 1,560  | 1,590  | 20-24      | 3,141  | 3,140  | 3,150  | 3,210  |
| 25-29 | 1,183  | 1,240  | 1,240  | 1,300  | 25-29   | 1,263  | 1,330  | 1,310  | 1,250  | 25-29      | 2,446  | 2,570  | 2,550  | 2,550  |
| 30-34 | 1,050  | 1,160  | 1,190  | 1,200  | 30-34   | 1,016  | 1,230  | 1,300  | 1,280  | 30-34      | 2,066  | 2,390  | 2,490  | 2,480  |
| 35-39 | 1,038  | 1,060  | 1,170  | 1,220  | 35-39   | 1,054  | 1,020  | 1,270  | 1,330  | 35-39      | 2,092  | 2,080  | 2,440  | 2,550  |
| 40-44 | 1,196  | 1,040  | 1,070  | 1,180  | 40-44   | 1,222  | 1,070  | 1,030  | 1,270  | 40-44      | 2,418  | 2,110  | 2,100  | 2,450  |
| 45-49 | 1,326  | 1,180  | 1,030  | 1,050  | 45-49   | 1,312  | 1,220  | 1,060  | 1,030  | 45-49      | 2,638  | 2,400  | 2,090  | 2,080  |
| 50-54 | 1,310  | 1,310  | 1,160  | 1,000  | 50-54   | 1,329  | 1,300  | 1,200  | 1,050  | 50-54      | 2,639  | 2,610  | 2,360  | 2,050  |
| 55-59 | 1,186  | 1,280  | 1,270  | 1,120  | 55-59   | 1,280  | 1,300  | 1,270  | 1,180  | 55-59      | 2,466  | 2,580  | 2,540  | 2,300  |
| 60-64 | 1,075  | 1,140  | 1,210  | 1,220  | 60-64   | 1,205  | 1,250  | 1,280  | 1,250  | 60-64      | 2,280  | 2,390  | 2,490  | 2,470  |
| 65-69 | 781    | 940    | 1,010  | 1,110  | 65-69   | 865    | 1,100  | 1,140  | 1,180  | 65-69      | 1,646  | 2,040  | 2,150  | 2,290  |
| 70-74 | 537    | 670    | 830    | 880    | 70-74   | 639    | 790    | 1,010  | 1,070  | 70-74      | 1,176  | 1,460  | 1,840  | 1,950  |
| 75-79 | 417    | 440    | 530    | 680    | 75-79   | 593    | 550    | 690    | 920    | 75-79      | 1,010  | 990    | 1,220  | 1,600  |
| 80-84 | 317    | 320    | 340    | 440    | 80-84   | 507    | 510    | 490    | 610    | 80-84      | 824    | 830    | 830    | 1,050  |
| 85+   | 260    | 300    | 330    | 330    | 85+     | 716    | 780    | 830    | 850    | 85+        | 976    | 1,080  | 1,160  | 1,180  |
| Total | 17,766 | 18,330 | 18,720 | 19,060 | Total   | 19,308 | 19,790 | 20,180 | 20,550 | Total      | 37,074 | 38,120 | 38,900 | 39,610 |
|       |        |        |        |        |         |        |        |        |        | Median Age | 38.9   | 38.6   | 38.6   | 39.2   |

|   | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|---|--------------|--------------|--------------|
| Births  | 2,030        | 1,980        | 1,880        |
| Deaths  | 1,570        | 1,670        | 1,800        |
| Natural Increase  | 460          | 310          | 80           |
| Net Migration   | 530          | 550          | 500          |
| Change  | 990          | 860          | 580          |
| Differences between period Totals may not equal Change due to rounding. |              |              |              |

Bellaire Elementary

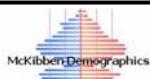
| Males | 2010  | 2015  | 2020  | 2025  | Females | 2010  | 2015  | 2020  | 2025  | Total      | 2010  | 2015  | 2020  | 2025  |
|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| 0-4   | 166   | 170   | 160   | 160   | 0-4     | 183   | 160   | 150   | 150   | 0-4        | 349   | 330   | 310   | 310   |
| 5-9   | 170   | 160   | 160   | 150   | 5-9     | 158   | 170   | 150   | 140   | 5-9        | 328   | 330   | 310   | 290   |
| 10-14 | 123   | 160   | 150   | 150   | 10-14   | 142   | 150   | 160   | 140   | 10-14      | 265   | 310   | 310   | 290   |
| 15-19 | 302   | 320   | 360   | 350   | 15-19   | 371   | 340   | 350   | 360   | 15-19      | 673   | 660   | 710   | 710   |
| 20-24 | 423   | 400   | 420   | 460   | 20-24   | 428   | 470   | 440   | 450   | 20-24      | 851   | 870   | 860   | 910   |
| 25-29 | 191   | 220   | 200   | 220   | 25-29   | 201   | 230   | 270   | 240   | 25-29      | 392   | 450   | 470   | 460   |
| 30-34 | 164   | 170   | 200   | 180   | 30-34   | 158   | 180   | 210   | 250   | 30-34      | 322   | 350   | 410   | 430   |
| 35-39 | 138   | 140   | 160   | 190   | 35-39   | 148   | 140   | 170   | 200   | 35-39      | 286   | 280   | 330   | 390   |
| 40-44 | 164   | 140   | 140   | 160   | 40-44   | 162   | 150   | 140   | 170   | 40-44      | 326   | 290   | 280   | 330   |
| 45-49 | 158   | 160   | 140   | 140   | 45-49   | 190   | 160   | 150   | 140   | 45-49      | 348   | 320   | 290   | 280   |
| 50-54 | 180   | 160   | 160   | 130   | 50-54   | 163   | 190   | 160   | 150   | 50-54      | 343   | 350   | 320   | 280   |
| 55-59 | 165   | 170   | 150   | 150   | 55-59   | 181   | 160   | 180   | 160   | 55-59      | 346   | 330   | 330   | 310   |
| 60-64 | 152   | 160   | 170   | 140   | 60-64   | 187   | 180   | 160   | 180   | 60-64      | 339   | 340   | 330   | 320   |
| 65-69 | 108   | 140   | 150   | 160   | 65-69   | 139   | 180   | 170   | 150   | 65-69      | 248   | 320   | 320   | 310   |
| 70-74 | 93    | 100   | 130   | 130   | 70-74   | 89    | 130   | 170   | 160   | 70-74      | 181   | 230   | 300   | 290   |
| 75-79 | 53    | 80    | 80    | 110   | 75-79   | 91    | 80    | 120   | 160   | 75-79      | 143   | 160   | 200   | 270   |
| 80-84 | 55    | 40    | 60    | 60    | 80-84   | 75    | 80    | 70    | 100   | 80-84      | 130   | 120   | 130   | 160   |
| 85+   | 22    | 40    | 40    | 50    | 85+     | 51    | 80    | 100   | 100   | 85+        | 73    | 120   | 140   | 150   |
| Total | 2,828 | 2,930 | 3,030 | 3,090 | Total   | 3,115 | 3,230 | 3,320 | 3,400 | Total      | 5,943 | 6,160 | 6,350 | 6,490 |
|       |       |       |       |       |         |       |       |       |       | Median Age | 31.8  | 31.9  | 32.5  | 33.2  |

|   | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|---|--------------|--------------|--------------|
| Births  | 310          | 310          | 310          |
| Deaths  | 210          | 230          | 260          |
| Natural Increase  | 100          | 80           | 50           |
| Net Migration   | 100          | 100          | 100          |
| Change  | 200          | 180          | 150          |
| Differences between period Totals may not equal Change due to rounding. |              |              |              |

Crestview Elementary

| Males | 2010  | 2015  | 2020  | 2025  | Females | 2010  | 2015  | 2020  | 2025  | Total      | 2010  | 2015  | 2020  | 2025  |
|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| 0-4   | 222   | 230   | 220   | 200   | 0-4     | 212   | 230   | 220   | 200   | 0-4        | 435   | 460   | 440   | 400   |
| 5-9   | 271   | 260   | 270   | 260   | 5-9     | 228   | 250   | 260   | 250   | 5-9        | 499   | 510   | 530   | 510   |
| 10-14 | 241   | 270   | 260   | 270   | 10-14   | 221   | 230   | 250   | 260   | 10-14      | 463   | 500   | 510   | 530   |
| 15-19 | 217   | 200   | 230   | 220   | 15-19   | 183   | 190   | 190   | 210   | 15-19      | 400   | 390   | 420   | 430   |
| 20-24 | 187   | 180   | 170   | 200   | 20-24   | 191   | 150   | 150   | 160   | 20-24      | 378   | 330   | 320   | 360   |
| 25-29 | 207   | 220   | 220   | 200   | 25-29   | 223   | 230   | 180   | 180   | 25-29      | 430   | 450   | 400   | 380   |
| 30-34 | 229   | 230   | 240   | 240   | 30-34   | 198   | 250   | 250   | 200   | 30-34      | 427   | 480   | 490   | 440   |
| 35-39 | 264   | 250   | 250   | 260   | 35-39   | 250   | 220   | 270   | 270   | 35-39      | 514   | 470   | 520   | 530   |
| 40-44 | 255   | 260   | 250   | 250   | 40-44   | 261   | 250   | 220   | 270   | 40-44      | 516   | 510   | 470   | 520   |
| 45-49 | 280   | 250   | 260   | 240   | 45-49   | 313   | 260   | 250   | 220   | 45-49      | 593   | 510   | 510   | 460   |
| 50-54 | 284   | 280   | 250   | 250   | 50-54   | 297   | 310   | 260   | 250   | 50-54      | 581   | 590   | 510   | 500   |
| 55-59 | 275   | 280   | 270   | 240   | 55-59   | 284   | 290   | 310   | 250   | 55-59      | 559   | 570   | 580   | 490   |
| 60-64 | 238   | 260   | 260   | 260   | 60-64   | 266   | 280   | 280   | 300   | 60-64      | 504   | 540   | 540   | 560   |
| 65-69 | 179   | 210   | 230   | 240   | 65-69   | 203   | 240   | 250   | 260   | 65-69      | 382   | 450   | 480   | 500   |
| 70-74 | 118   | 150   | 180   | 200   | 70-74   | 134   | 180   | 220   | 230   | 70-74      | 252   | 330   | 400   | 430   |
| 75-79 | 81    | 90    | 110   | 140   | 75-79   | 103   | 110   | 150   | 190   | 75-79      | 183   | 200   | 260   | 330   |
| 80-84 | 55    | 60    | 70    | 90    | 80-84   | 74    | 90    | 90    | 130   | 80-84      | 129   | 150   | 160   | 220   |
| 85+   | 34    | 50    | 60    | 60    | 85+     | 51    | 80    | 100   | 120   | 85+        | 85    | 130   | 160   | 180   |
| Total | 3,637 | 3,730 | 3,800 | 3,820 | Total   | 3,693 | 3,840 | 3,900 | 3,950 | Total      | 7,329 | 7,570 | 7,700 | 7,770 |
|       |       |       |       |       |         |       |       |       |       | Median Age | 41.2  | 41.9  | 42.3  | 42.9  |

|   | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|---|--------------|--------------|--------------|
| Births  | 370          | 350          | 310          |
| Deaths  | 270          | 310          | 350          |
| Natural Increase  | 100          | 40           | -40          |
| Net Migration   | 120          | 120          | 110          |
| Change  | 220          | 160          | 70           |
| Differences between period Totals may not equal Change due to rounding. |              |              |              |



CARLISLE AREA SCHOOL DISTRICT, PA  
DEMOGRAPHIC STUDY



Hamilton Elementary

| Males | 2010  | 2015  | 2020  | 2025  | Females | 2010  | 2015  | 2020  | 2025  | Total      | 2010  | 2015  | 2020  | 2025  |
|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| 0-4   | 221   | 230   | 220   | 210   | 0-4     | 234   | 220   | 210   | 210   | 0-4        | 455   | 450   | 430   | 420   |
| 5-9   | 158   | 160   | 170   | 170   | 5-9     | 182   | 180   | 160   | 160   | 5-9        | 340   | 340   | 330   | 330   |
| 10-14 | 148   | 170   | 170   | 180   | 10-14   | 130   | 190   | 180   | 170   | 10-14      | 277   | 360   | 350   | 350   |
| 15-19 | 139   | 160   | 170   | 180   | 15-19   | 162   | 140   | 200   | 190   | 15-19      | 301   | 300   | 370   | 370   |
| 20-24 | 245   | 300   | 320   | 310   | 20-24   | 307   | 320   | 300   | 340   | 20-24      | 552   | 620   | 620   | 650   |
| 25-29 | 241   | 240   | 290   | 310   | 25-29   | 264   | 270   | 280   | 260   | 25-29      | 505   | 510   | 570   | 570   |
| 30-34 | 179   | 200   | 190   | 250   | 30-34   | 181   | 220   | 230   | 250   | 30-34      | 360   | 420   | 420   | 500   |
| 35-39 | 159   | 170   | 190   | 190   | 35-39   | 177   | 170   | 220   | 220   | 35-39      | 336   | 340   | 410   | 410   |
| 40-44 | 157   | 160   | 170   | 190   | 40-44   | 144   | 180   | 170   | 210   | 40-44      | 301   | 340   | 340   | 400   |
| 45-49 | 203   | 160   | 150   | 170   | 45-49   | 155   | 140   | 180   | 170   | 45-49      | 359   | 300   | 330   | 340   |
| 50-54 | 165   | 200   | 150   | 150   | 50-54   | 167   | 150   | 140   | 170   | 50-54      | 332   | 350   | 290   | 320   |
| 55-59 | 149   | 160   | 190   | 150   | 55-59   | 159   | 160   | 150   | 140   | 55-59      | 307   | 320   | 340   | 290   |
| 60-64 | 129   | 140   | 150   | 190   | 60-64   | 166   | 150   | 160   | 150   | 60-64      | 295   | 290   | 310   | 340   |
| 65-69 | 102   | 110   | 130   | 140   | 65-69   | 121   | 150   | 140   | 150   | 65-69      | 223   | 260   | 270   | 290   |
| 70-74 | 61    | 80    | 90    | 110   | 70-74   | 89    | 110   | 140   | 130   | 70-74      | 150   | 190   | 230   | 240   |
| 75-79 | 61    | 40    | 60    | 70    | 75-79   | 111   | 70    | 90    | 120   | 75-79      | 171   | 110   | 150   | 190   |
| 80-84 | 40    | 50    | 30    | 50    | 80-84   | 103   | 90    | 60    | 80    | 80-84      | 142   | 140   | 90    | 130   |
| 85+   | 46    | 40    | 50    | 40    | 85+     | 177   | 180   | 170   | 150   | 85+        | 223   | 220   | 220   | 190   |
| Total | 2,602 | 2,770 | 2,890 | 3,060 | Total   | 3,027 | 3,090 | 3,180 | 3,270 | Total      | 5,629 | 5,860 | 6,070 | 6,330 |
|       |       |       |       |       |         |       |       |       |       | Median Age | 35.3  | 34.2  | 34.3  | 34.8  |

|                  | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|------------------|--------------|--------------|--------------|
| Births           | 410          | 400          | 390          |
| Deaths           | 260          | 260          | 250          |
| Natural Increase | 150          | 140          | 140          |
| Net Migration    | 80           | 80           | 70           |
| Change           | 230          | 220          | 210          |

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

LeTort Elementary

| Males | 2010  | 2015  | 2020  | 2025  | Females | 2010  | 2015  | 2020  | 2025  | Total      | 2010  | 2015  | 2020  | 2025  |
|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| 0-4   | 178   | 160   | 150   | 140   | 0-4     | 144   | 150   | 150   | 140   | 0-4        | 322   | 310   | 300   | 280   |
| 5-9   | 136   | 170   | 150   | 150   | 5-9     | 137   | 140   | 150   | 140   | 5-9        | 273   | 310   | 300   | 290   |
| 10-14 | 179   | 130   | 170   | 150   | 10-14   | 145   | 130   | 130   | 140   | 10-14      | 324   | 260   | 300   | 290   |
| 15-19 | 129   | 160   | 110   | 150   | 15-19   | 131   | 120   | 110   | 120   | 15-19      | 260   | 280   | 220   | 270   |
| 20-24 | 131   | 140   | 170   | 120   | 20-24   | 155   | 140   | 130   | 120   | 20-24      | 286   | 280   | 300   | 240   |
| 25-29 | 151   | 150   | 150   | 180   | 25-29   | 197   | 170   | 160   | 150   | 25-29      | 348   | 320   | 310   | 330   |
| 30-34 | 137   | 170   | 160   | 160   | 30-34   | 139   | 210   | 180   | 170   | 30-34      | 276   | 380   | 340   | 330   |
| 35-39 | 111   | 150   | 180   | 170   | 35-39   | 123   | 150   | 230   | 200   | 35-39      | 234   | 300   | 410   | 370   |
| 40-44 | 180   | 110   | 150   | 180   | 40-44   | 177   | 120   | 150   | 230   | 40-44      | 357   | 230   | 300   | 410   |
| 45-49 | 204   | 180   | 110   | 150   | 45-49   | 178   | 180   | 120   | 150   | 45-49      | 382   | 360   | 230   | 300   |
| 50-54 | 122   | 200   | 170   | 110   | 50-54   | 118   | 180   | 170   | 120   | 50-54      | 240   | 380   | 340   | 230   |
| 55-59 | 82    | 120   | 190   | 170   | 55-59   | 77    | 120   | 170   | 170   | 55-59      | 159   | 240   | 360   | 340   |
| 60-64 | 73    | 80    | 110   | 190   | 60-64   | 92    | 80    | 110   | 170   | 60-64      | 165   | 160   | 220   | 360   |
| 65-69 | 49    | 60    | 70    | 100   | 65-69   | 56    | 80    | 70    | 100   | 65-69      | 105   | 140   | 140   | 200   |
| 70-74 | 34    | 40    | 50    | 60    | 70-74   | 36    | 50    | 70    | 60    | 70-74      | 70    | 90    | 120   | 120   |
| 75-79 | 22    | 30    | 30    | 40    | 75-79   | 27    | 30    | 40    | 70    | 75-79      | 49    | 60    | 70    | 110   |
| 80-84 | 10    | 20    | 20    | 30    | 80-84   | 18    | 20    | 30    | 40    | 80-84      | 28    | 40    | 50    | 70    |
| 85+   | 16    | 10    | 20    | 20    | 85+     | 35    | 30    | 40    | 40    | 85+        | 51    | 40    | 60    | 60    |
| Total | 1,944 | 2,080 | 2,160 | 2,270 | Total   | 1,985 | 2,100 | 2,210 | 2,330 | Total      | 3,929 | 4,180 | 4,370 | 4,600 |
|       |       |       |       |       |         |       |       |       |       | Median Age | 32.8  | 34.3  | 36.4  | 38.6  |

|                  | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|------------------|--------------|--------------|--------------|
| Births           | 290          | 280          | 260          |
| Deaths           | 90           | 110          | 130          |
| Natural Increase | 200          | 170          | 130          |
| Net Migration    | 50           | 50           | 40           |
| Change           | 250          | 220          | 170          |

Mooreland Elementary

| Males | 2010  | 2015  | 2020  | 2025  | Females | 2010  | 2015  | 2020  | 2025  | Total      | 2010  | 2015  | 2020  | 2025  |
|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| 0-4   | 134   | 160   | 150   | 140   | 0-4     | 126   | 160   | 150   | 140   | 0-4        | 260   | 320   | 300   | 280   |
| 5-9   | 150   | 160   | 170   | 160   | 5-9     | 150   | 160   | 170   | 160   | 5-9        | 300   | 320   | 340   | 320   |
| 10-14 | 150   | 150   | 160   | 170   | 10-14   | 160   | 150   | 160   | 170   | 10-14      | 310   | 300   | 320   | 340   |
| 15-19 | 277   | 300   | 300   | 310   | 15-19   | 410   | 410   | 400   | 410   | 15-19      | 687   | 710   | 700   | 720   |
| 20-24 | 361   | 330   | 350   | 350   | 20-24   | 376   | 360   | 360   | 350   | 20-24      | 737   | 690   | 710   | 700   |
| 25-29 | 207   | 210   | 170   | 200   | 25-29   | 213   | 230   | 210   | 210   | 25-29      | 420   | 440   | 380   | 410   |
| 30-34 | 148   | 160   | 160   | 120   | 30-34   | 154   | 160   | 180   | 160   | 30-34      | 302   | 320   | 340   | 280   |
| 35-39 | 165   | 140   | 140   | 150   | 35-39   | 160   | 140   | 150   | 170   | 35-39      | 325   | 280   | 290   | 320   |
| 40-44 | 153   | 150   | 130   | 130   | 40-44   | 174   | 150   | 130   | 140   | 40-44      | 327   | 300   | 260   | 270   |
| 45-49 | 174   | 150   | 150   | 120   | 45-49   | 182   | 170   | 150   | 130   | 45-49      | 356   | 320   | 300   | 250   |
| 50-54 | 202   | 170   | 150   | 150   | 50-54   | 225   | 180   | 170   | 150   | 50-54      | 427   | 350   | 320   | 300   |
| 55-59 | 190   | 200   | 170   | 140   | 55-59   | 266   | 220   | 180   | 170   | 55-59      | 456   | 420   | 350   | 310   |
| 60-64 | 219   | 180   | 190   | 160   | 60-64   | 227   | 260   | 220   | 170   | 60-64      | 446   | 440   | 410   | 330   |
| 65-69 | 153   | 200   | 170   | 180   | 65-69   | 160   | 220   | 250   | 210   | 65-69      | 313   | 420   | 420   | 390   |
| 70-74 | 115   | 140   | 190   | 150   | 70-74   | 169   | 150   | 210   | 240   | 70-74      | 284   | 290   | 400   | 390   |
| 75-79 | 119   | 100   | 120   | 160   | 75-79   | 167   | 150   | 140   | 190   | 75-79      | 286   | 250   | 260   | 350   |
| 80-84 | 117   | 90    | 80    | 100   | 80-84   | 170   | 140   | 150   | 130   | 80-84      | 287   | 230   | 230   | 230   |
| 85+   | 113   | 120   | 110   | 100   | 85+     | 355   | 340   | 330   | 320   | 85+        | 468   | 460   | 440   | 420   |
| Total | 3,147 | 3,110 | 3,060 | 2,990 | Total   | 3,844 | 3,750 | 3,710 | 3,620 | Total      | 6,991 | 6,860 | 6,770 | 6,610 |
|       |       |       |       |       |         |       |       |       |       | Median Age | 42.4  | 40.8  | 40.1  | 39.0  |

|                  | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|------------------|--------------|--------------|--------------|
| Births           | 300          | 280          | 260          |
| Deaths           | 480          | 450          | 450          |
| Natural Increase | -180         | -170         | -190         |
| Net Migration    | 50           | 50           | 50           |
| Change           | -130         | -120         | -140         |

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

CARLISLE AREA SCHOOL DISTRICT, PA  
DEMOGRAPHIC STUDY



**Mt. Holly Springs Elementary**

| Males        | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 102          | 100          | 100          | 90           |
| 5-9          | 108          | 110          | 100          | 100          |
| 10-14        | 91           | 110          | 110          | 110          |
| 15-19        | 105          | 80           | 100          | 110          |
| 20-24        | 91           | 90           | 70           | 90           |
| 25-29        | 115          | 110          | 100          | 80           |
| 30-34        | 112          | 140          | 130          | 120          |
| 35-39        | 109          | 110          | 140          | 130          |
| 40-44        | 145          | 110          | 110          | 140          |
| 45-49        | 142          | 140          | 110          | 110          |
| 50-54        | 163          | 140          | 140          | 100          |
| 55-59        | 131          | 160          | 140          | 140          |
| 60-64        | 122          | 130          | 150          | 130          |
| 65-69        | 85           | 110          | 110          | 140          |
| 70-74        | 58           | 70           | 100          | 100          |
| 75-79        | 37           | 50           | 60           | 80           |
| 80-84        | 20           | 30           | 40           | 50           |
| 85+          | 13           | 20           | 20           | 30           |
| <b>Total</b> | <b>1,749</b> | <b>1,810</b> | <b>1,830</b> | <b>1,850</b> |

| Females      | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 95           | 90           | 90           | 90           |
| 5-9          | 113          | 100          | 100          | 100          |
| 10-14        | 104          | 120          | 110          | 100          |
| 15-19        | 98           | 100          | 110          | 100          |
| 20-24        | 103          | 80           | 80           | 100          |
| 25-29        | 112          | 120          | 100          | 90           |
| 30-34        | 105          | 140          | 140          | 120          |
| 35-39        | 106          | 100          | 140          | 140          |
| 40-44        | 137          | 110          | 100          | 140          |
| 45-49        | 136          | 140          | 100          | 100          |
| 50-54        | 163          | 130          | 140          | 100          |
| 55-59        | 137          | 160          | 130          | 130          |
| 60-64        | 112          | 130          | 160          | 130          |
| 65-69        | 95           | 100          | 120          | 150          |
| 70-74        | 65           | 90           | 90           | 120          |
| 75-79        | 53           | 60           | 80           | 90           |
| 80-84        | 41           | 50           | 50           | 70           |
| 85+          | 27           | 40           | 50           | 70           |
| <b>Total</b> | <b>1,802</b> | <b>1,860</b> | <b>1,890</b> | <b>1,940</b> |

| Total             | 2010         | 2015         | 2020         | 2025         |
|-------------------|--------------|--------------|--------------|--------------|
| 0-4               | 197          | 190          | 190          | 180          |
| 5-9               | 221          | 210          | 200          | 200          |
| 10-14             | 195          | 230          | 220          | 210          |
| 15-19             | 203          | 180          | 210          | 210          |
| 20-24             | 194          | 170          | 150          | 190          |
| 25-29             | 227          | 230          | 200          | 170          |
| 30-34             | 217          | 280          | 270          | 240          |
| 35-39             | 215          | 210          | 280          | 270          |
| 40-44             | 282          | 220          | 210          | 280          |
| 45-49             | 278          | 280          | 210          | 210          |
| 50-54             | 326          | 270          | 280          | 200          |
| 55-59             | 268          | 320          | 270          | 270          |
| 60-64             | 234          | 260          | 310          | 260          |
| 65-69             | 180          | 210          | 230          | 290          |
| 70-74             | 123          | 160          | 190          | 220          |
| 75-79             | 90           | 110          | 140          | 170          |
| 80-84             | 61           | 80           | 90           | 120          |
| 85+               | 40           | 60           | 70           | 100          |
| <b>Total</b>      | <b>3,551</b> | <b>3,670</b> | <b>3,720</b> | <b>3,790</b> |
| <b>Median Age</b> | <b>41.9</b>  | <b>43.1</b>  | <b>43.3</b>  | <b>44.0</b>  |

|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 190          | 190          | 180          |
| <b>Deaths</b>           | 130          | 150          | 180          |
| <b>Natural Increase</b> | 60           | 40           | 0            |
| <b>Net Migration</b>    | 40           | 40           | 30           |
| <b>Change</b>           | 100          | 80           | 30           |

**North Dickinson Elementary**

| Males        | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 78           | 100          | 100          | 90           |
| 5-9          | 125          | 90           | 120          | 120          |
| 10-14        | 134          | 130          | 100          | 130          |
| 15-19        | 120          | 120          | 120          | 90           |
| 20-24        | 76           | 90           | 90           | 90           |
| 25-29        | 71           | 90           | 110          | 110          |
| 30-34        | 81           | 90           | 110          | 130          |
| 35-39        | 92           | 100          | 110          | 130          |
| 40-44        | 142          | 110          | 120          | 130          |
| 45-49        | 165          | 140          | 110          | 120          |
| 50-54        | 195          | 160          | 140          | 110          |
| 55-59        | 194          | 190          | 160          | 130          |
| 60-64        | 142          | 190          | 180          | 150          |
| 65-69        | 105          | 110          | 150          | 150          |
| 70-74        | 58           | 90           | 90           | 130          |
| 75-79        | 45           | 50           | 70           | 80           |
| 80-84        | 20           | 30           | 40           | 60           |
| 85+          | 16           | 20           | 30           | 30           |
| <b>Total</b> | <b>1,859</b> | <b>1,900</b> | <b>1,950</b> | <b>1,980</b> |

| Females      | 2010         | 2015         | 2020         | 2025         |
|--------------|--------------|--------------|--------------|--------------|
| 0-4          | 98           | 90           | 90           | 90           |
| 5-9          | 107          | 110          | 120          | 110          |
| 10-14        | 138          | 120          | 120          | 130          |
| 15-19        | 119          | 130          | 100          | 110          |
| 20-24        | 67           | 90           | 100          | 70           |
| 25-29        | 53           | 80           | 110          | 120          |
| 30-34        | 81           | 70           | 110          | 130          |
| 35-39        | 90           | 100          | 90           | 130          |
| 40-44        | 167          | 110          | 120          | 110          |
| 45-49        | 158          | 170          | 110          | 120          |
| 50-54        | 196          | 160          | 160          | 110          |
| 55-59        | 176          | 190          | 150          | 160          |
| 60-64        | 155          | 170          | 190          | 150          |
| 65-69        | 91           | 130          | 140          | 160          |
| 70-74        | 57           | 80           | 110          | 130          |
| 75-79        | 42           | 50           | 70           | 100          |
| 80-84        | 27           | 40           | 40           | 60           |
| 85+          | 21           | 30           | 40           | 50           |
| <b>Total</b> | <b>1,843</b> | <b>1,920</b> | <b>1,970</b> | <b>2,040</b> |

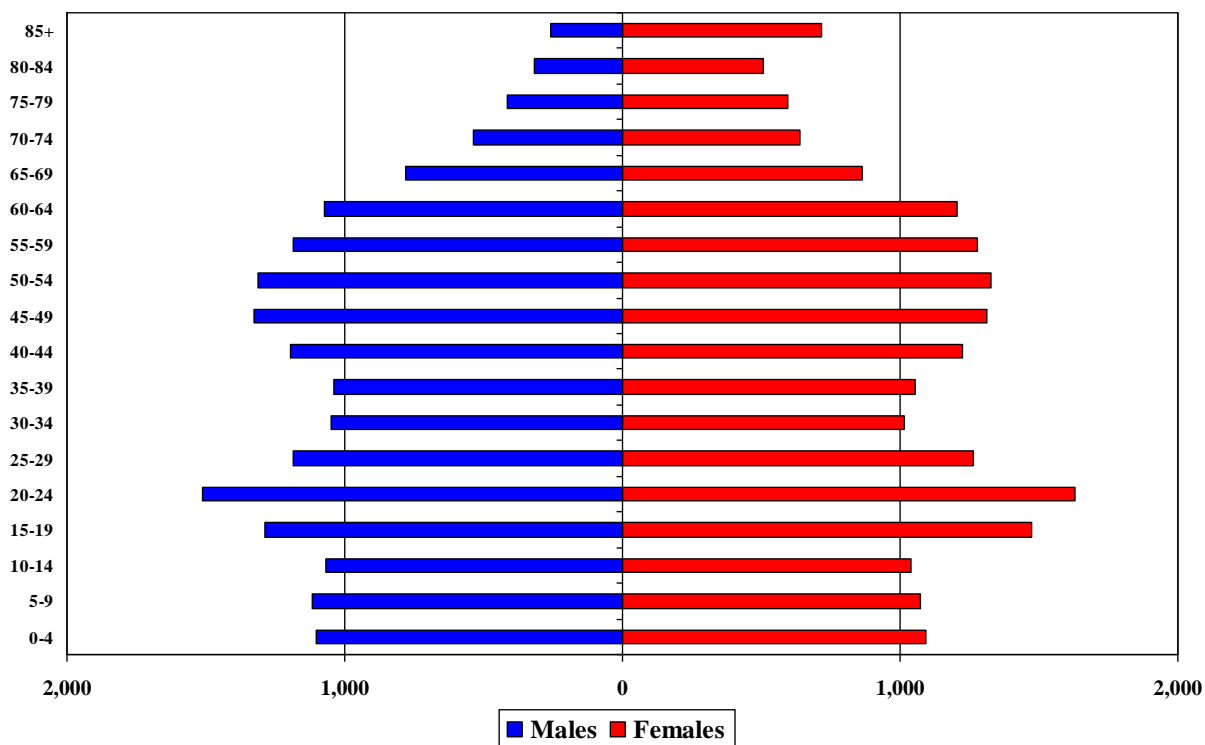
| Total             | 2010         | 2015         | 2020         | 2025         |
|-------------------|--------------|--------------|--------------|--------------|
| 0-4               | 176          | 190          | 190          | 180          |
| 5-9               | 232          | 200          | 240          | 230          |
| 10-14             | 272          | 250          | 220          | 260          |
| 15-19             | 239          | 250          | 220          | 200          |
| 20-24             | 143          | 180          | 190          | 160          |
| 25-29             | 124          | 170          | 220          | 230          |
| 30-34             | 162          | 160          | 220          | 260          |
| 35-39             | 182          | 200          | 200          | 260          |
| 40-44             | 309          | 220          | 240          | 240          |
| 45-49             | 323          | 310          | 220          | 240          |
| 50-54             | 391          | 320          | 300          | 220          |
| 55-59             | 370          | 380          | 310          | 290          |
| 60-64             | 297          | 360          | 370          | 300          |
| 65-69             | 196          | 240          | 290          | 310          |
| 70-74             | 115          | 170          | 200          | 260          |
| 75-79             | 87           | 100          | 140          | 180          |
| 80-84             | 47           | 70           | 80           | 120          |
| 85+               | 37           | 50           | 70           | 80           |
| <b>Total</b>      | <b>3,702</b> | <b>3,820</b> | <b>3,920</b> | <b>4,020</b> |
| <b>Median Age</b> | <b>45.2</b>  | <b>46.5</b>  | <b>45.5</b>  | <b>44.8</b>  |

|                         | 2010 to 2015 | 2015 to 2020 | 2020 to 2025 |
|-------------------------|--------------|--------------|--------------|
| <b>Births</b>           | 160          | 170          | 170          |
| <b>Deaths</b>           | 130          | 160          | 180          |
| <b>Natural Increase</b> | 30           | 10           | -10          |
| <b>Net Migration</b>    | 90           | 110          | 100          |
| <b>Change</b>           | 120          | 120          | 90           |

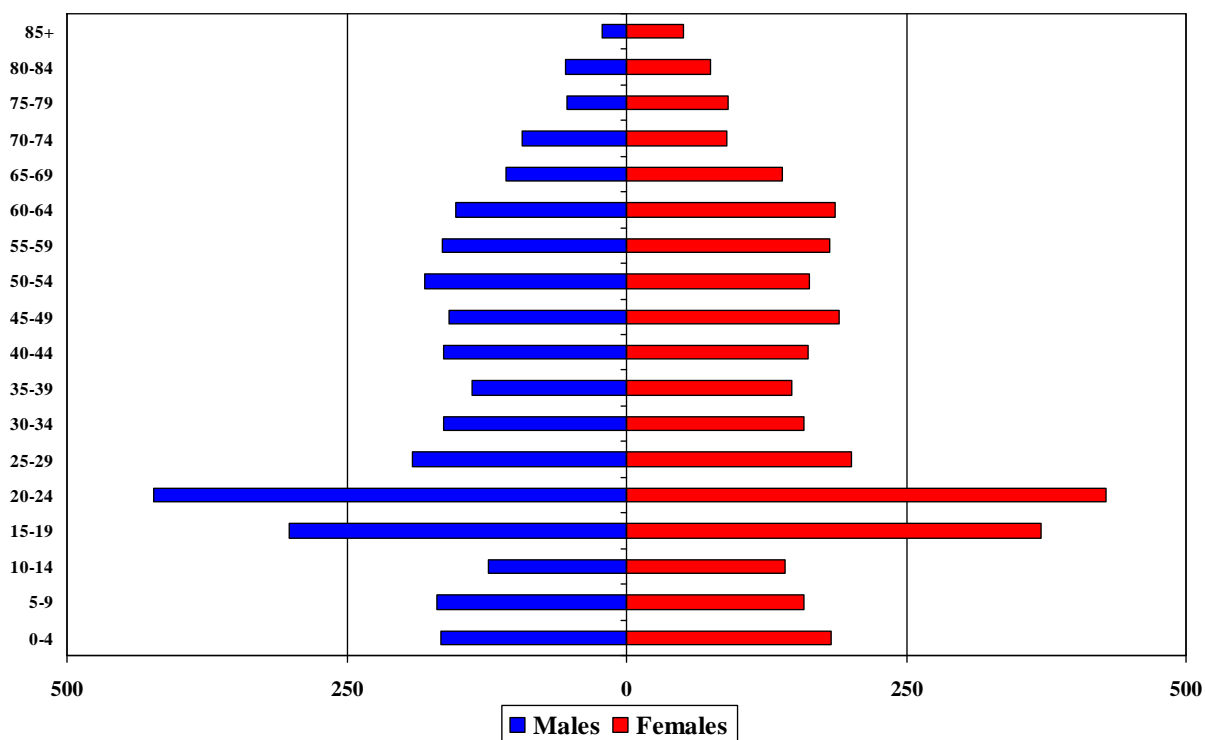


### Appendix C: Population Pyramids

Carlisle Area School District Total Population - 2010 Census



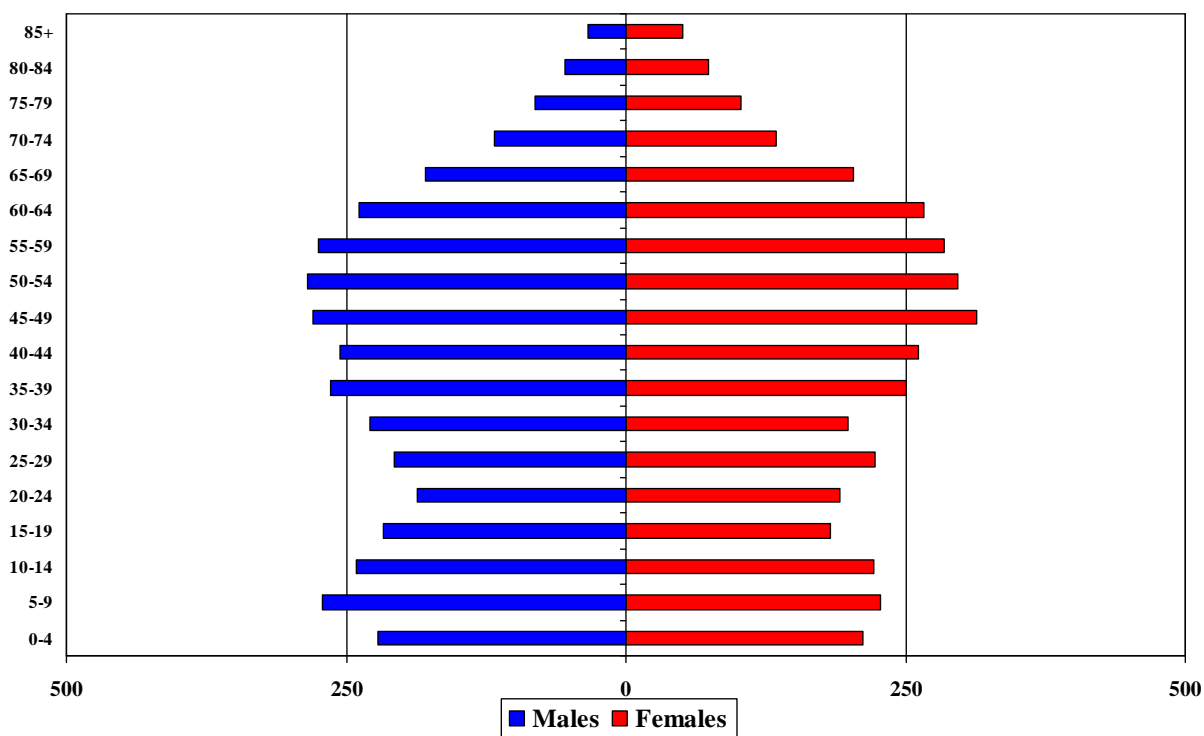
Bellaire Elementary Total Population - 2010 Census



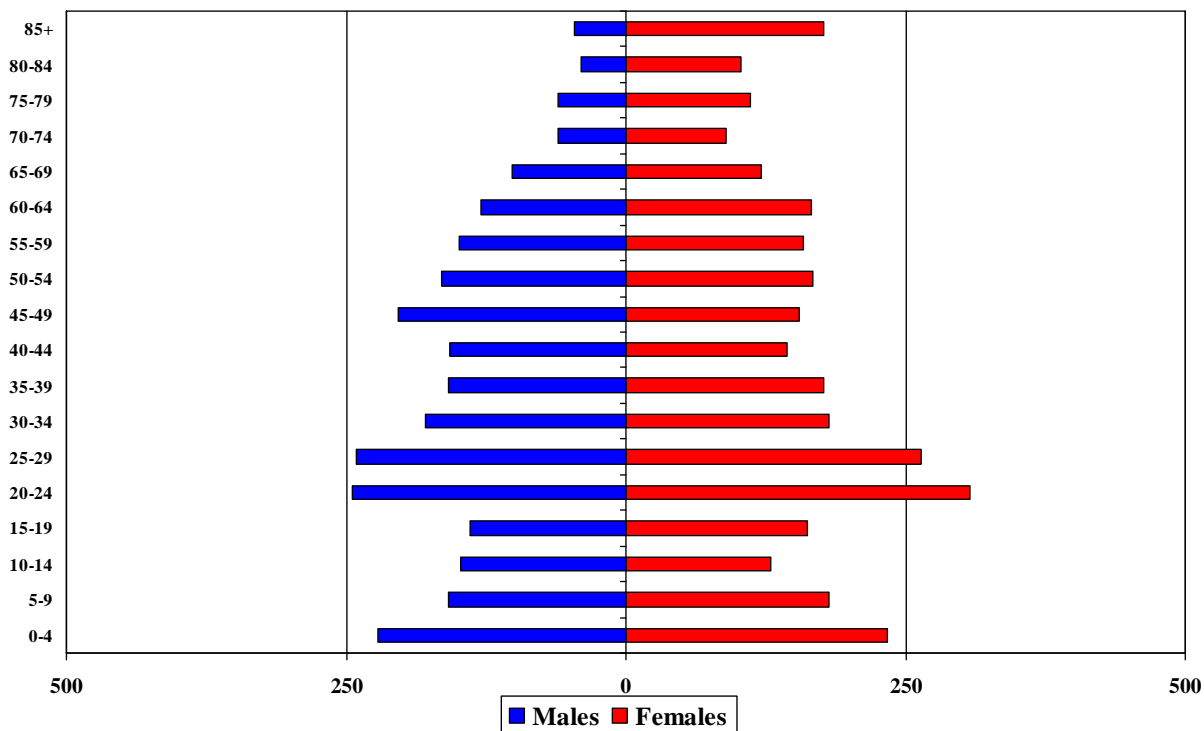




Crestview Elementary Total Population - 2010 Census

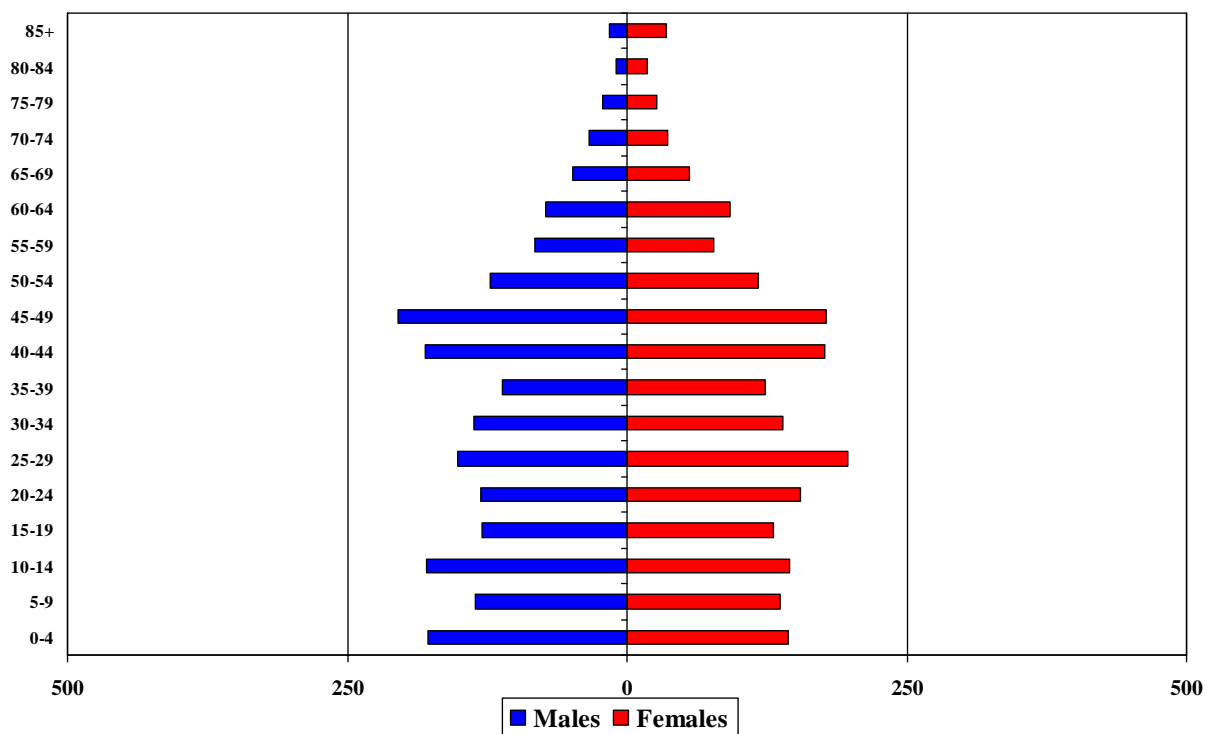


Hamilton Elementary Total Population - 2010 Census

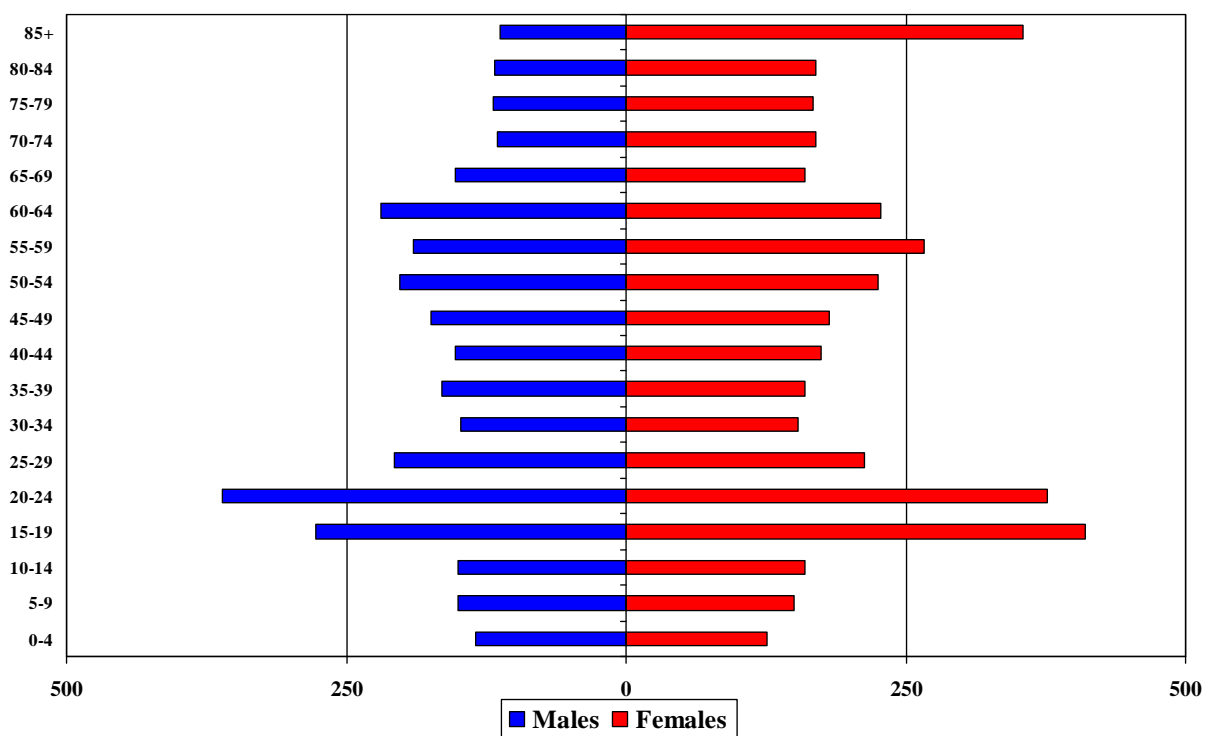




LeTort Elementary Total Population - 2010 Census

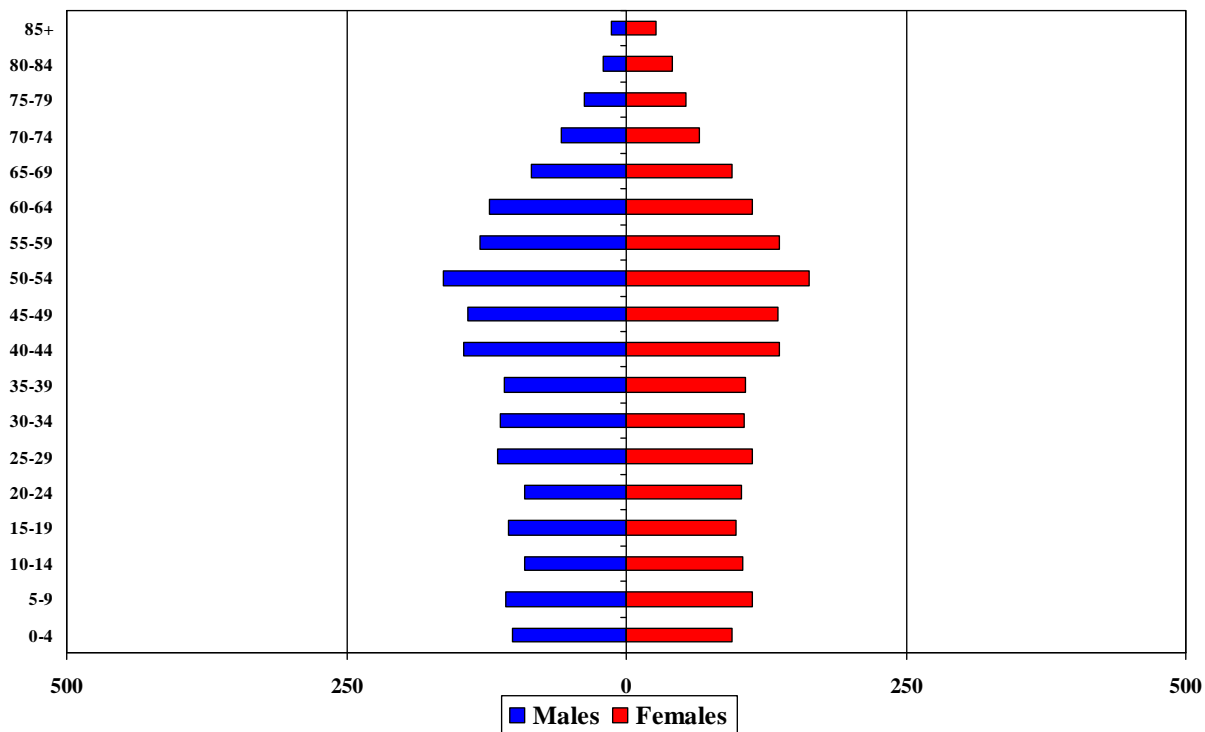


Mooreland Elementary Total Population - 2010 Census

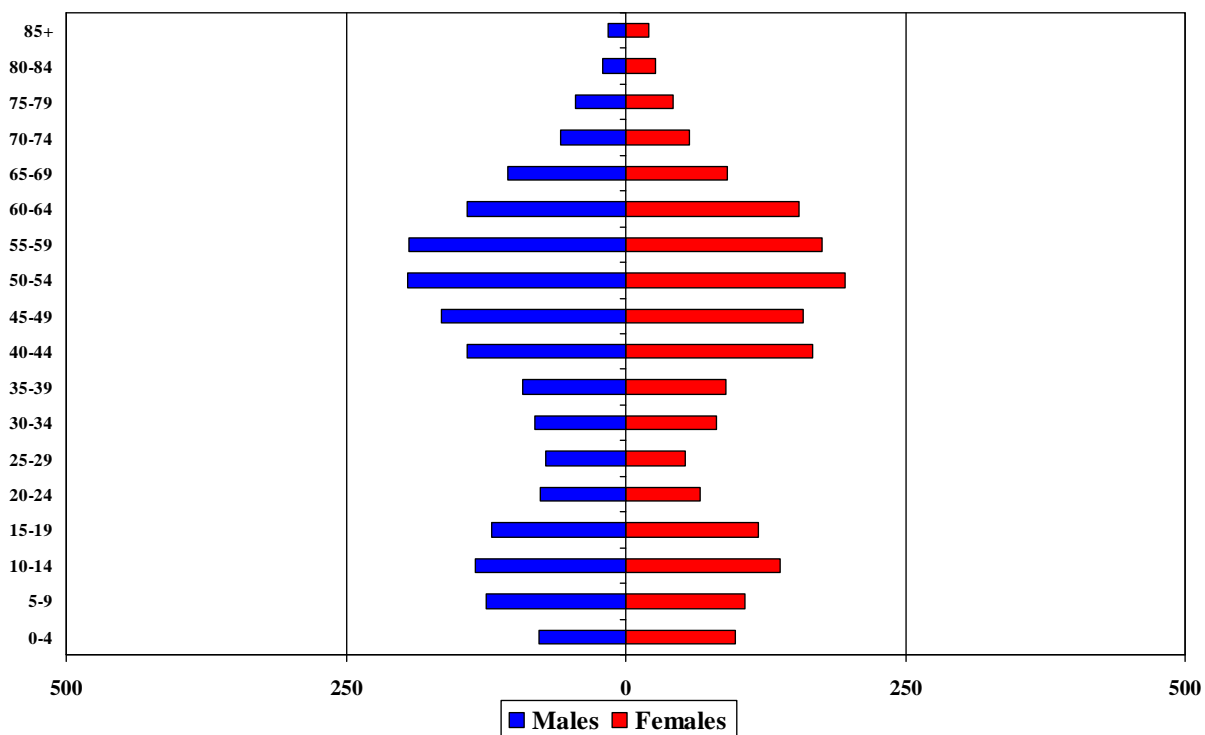




### Mt. Holly Springs Elementary Total Population - 2010 Census



### North Dickinson Elementary Total Population - 2010 Census





Appendix D: Additional Tables

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

|                          | 2010   | 2015   | 2010-<br>2015<br>Change | 2020   | 2015-<br>2020<br>Change | 2010-<br>2020<br>Change |
|--------------------------|--------|--------|-------------------------|--------|-------------------------|-------------------------|
| <b>Bellaire</b>          | 5,943  | 6,160  | 3.5%                    | 6,350  | 3.1%                    | 6.8%                    |
| <b>Crestview</b>         | 7,329  | 7,570  | 3.2%                    | 7,700  | 1.7%                    | 5.1%                    |
| <b>Hamilton</b>          | 5,629  | 5,860  | 3.9%                    | 6,070  | 3.6%                    | 7.8%                    |
| <b>Le Tort</b>           | 3,929  | 4,180  | 6.0%                    | 4,370  | 4.5%                    | 11.2%                   |
| <b>Mooreland</b>         | 6,991  | 6,860  | -1.9%                   | 6,770  | -1.3%                   | -3.2%                   |
| <b>Mt. Holly Springs</b> | 3,551  | 3,670  | 3.2%                    | 3,720  | 1.4%                    | 4.8%                    |
| <b>North Dickinson</b>   | 3,702  | 3,820  | 3.1%                    | 3,920  | 2.6%                    | 5.9%                    |
| <b>Total</b>             | 37,074 | 38,120 | 2.7%                    | 38,900 | 2.0%                    | 4.9%                    |

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

|                          | HH w/ Pop<br>Under 18 | % HH w/<br>Pop Under<br>18 | Total<br>Households | Household<br>Population | Persons<br>Per<br>Household |
|--------------------------|-----------------------|----------------------------|---------------------|-------------------------|-----------------------------|
| <b>Bellaire</b>          | 631                   | 29.30%                     | 2152                | 5068                    | 2.36                        |
| <b>Crestview</b>         | 931                   | 31.40%                     | 2965                | 7325                    | 2.47                        |
| <b>Hamilton</b>          | 674                   | 27.70%                     | 2434                | 5309                    | 2.18                        |
| <b>Le Tort</b>           | 563                   | 33.90%                     | 1660                | 3843                    | 2.32                        |
| <b>Mooreland</b>         | 574                   | 20.20%                     | 2836                | 5848                    | 2.06                        |
| <b>Mt. Holly Springs</b> | 417                   | 28.60%                     | 1460                | 3543                    | 2.43                        |
| <b>North Dickinson</b>   | 450                   | 32.70%                     | 1377                | 3702                    | 2.69                        |
| <b>Total</b>             | 4240                  | 28.50%                     | 14884               | 34638                   | 2.33                        |

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

|                          | Percentage of<br>Householders<br>aged 35-54 | Percentage of<br>Householders<br>aged 65+ | Percentage of<br>Householders<br>Who Own<br>Homes |
|--------------------------|---|---|---|
| <b>Bellaire</b>          | 34.90%                                      | 24.20%                                    | 68.60%  |
| <b>Crestview</b>         | 40.20%                                      | 22.40%                                    | 79.20%  |
| <b>Hamilton</b>          | 33.60%                                      | 23.30%                                    | 45.00%  |
| <b>Le Tort</b>           | 44.00%                                      | 13.60%                                    | 32.10%  |
| <b>Mooreland</b>         | 28.80%                                      | 31.20%                                    | 57.80%  |
| <b>Mt. Holly Springs</b> | 40.20%                                      | 22.50%                                    | 74.90%  |
| <b>North Dickinson</b>   | 44.60%                                      | 21.30%                                    | 90.80%  |
| <b>Total</b>             | 37.00%                                      | 23.40%                                    | 63.40%  |



**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>Bellaire</b>          | 27.80%                                 | 10.90%   |
| <b>Crestview</b>         | 24.00%                                 | 8.20%  |
| <b>Hamilton</b>          | 39.70%                                 | 14.20%   |
| <b>Le Tort</b>           | 37.50%                                 | 7.70%  |
| <b>Mooreland</b>         | 38.60%                                 | 15.40%   |
| <b>Mt. Holly Springs</b> | 24.50%                                 | 8.30%  |
| <b>North Dickinson</b>   | 13.10%                                 | 4.40%  |
| <b>Total</b>             | 30.50%                                 | 10.50%   |

**Table 5: 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 |
|--------------------------|--------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| <b>Bellaire</b>          | 78           | 65     | 63      | 66      | 76      | 74      | 61      | 62      | 67      | 52      | 53       |
| <b>Crestview</b>         | 84           | 83     | 81      | 91      | 115     | 107     | 93      | 91      | 103     | 97      | 108      |
| <b>Hamilton</b>          | 95           | 91     | 98      | 89      | 74      | 65      | 79      | 78      | 54      | 48      | 57       |
| <b>Le Tort</b>           | 62           | 70     | 64      | 72      | 47      | 52      | 60      | 55      | 60      | 53      | 74       |
| <b>Mooreland</b>         | 42           | 47     | 60      | 50      | 57      | 63      | 60      | 49      | 71      | 67      | 53       |
| <b>Mt. Holly Springs</b> | 43           | 39     | 44      | 39      | 47      | 46      | 35      | 46      | 38      | 49      | 42       |
| <b>North Dickinson</b>   | 28           | 39     | 32      | 37      | 42      | 48      | 39      | 48      | 49      | 49      | 59       |
| <b>Total</b>             | 432          | 434    | 442     | 444     | 458     | 454     | 427     | 429     | 442     | 415     | 446      |



**Table 6: Comparison of District Enrollment by Grade with 2010 Census Counts by Age, 2010-2014**

| 2010 census                | Under<br>1 year | 1 year        | 2<br>years    | 3<br>years    | 4<br>years    | 5<br>years    | 6<br>years    | 7<br>years    | 8<br>years    | 9 years        | 10<br>years   | 11<br>years   | 12 years       | 13<br>years   |
|----------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|
| <b>Carlisle<br/>Total</b>  | 432             | 434           | 442           | 444           | 458           | 454           | 427           | 429           | 442           | 415            | 446           | 441           | 376            | 428           |
| <b>2014<br/>Enrollment</b> |                 | 334<br>77.00% | 390<br>88.20% | 376<br>84.70% | 381<br>83.20% | 388<br>85.50% | 397<br>93.00% | 343<br>80.00% | 372<br>84.20% | 367<br>88.40%  | 442<br>99.10% | 357<br>81.00% | 340<br>90.40%  | 334<br>78.00% |
| <b>2013<br/>Enrollment</b> |                 |               | 357<br>80.80% | 384<br>86.50% | 380<br>83.00% | 385<br>84.80% | 391<br>91.60% | 342<br>79.70% | 373<br>84.40% | 362<br>87.20%  | 389<br>87.20% | 381<br>86.40% | 367<br>97.60%  | 355<br>82.90% |
| <b>2012<br/>Enrollment</b> |                 |               |               | 372<br>83.80% | 389<br>84.90% | 383<br>84.40% | 411<br>96.30% | 345<br>80.40% | 376<br>85.10% | 350<br>84.30%  | 426<br>95.50% | 358<br>81.20% | 384<br>102.10% | 371<br>86.70% |
| <b>2011<br/>Enrollment</b> |                 |               |               |               | 359<br>78.40% | 371<br>81.70% | 389<br>91.10% | 352<br>82.10% | 378<br>85.50% | 369<br>88.90%  | 392<br>87.90% | 355<br>80.50% | 335<br>89.10%  | 405<br>94.60% |
| <b>2010<br/>Enrollment</b> |                 |               |               |               |               | 668<br>95.70% | 695<br>92.10% | 668<br>87.30% | 720<br>94.70% | 780<br>101.70% | 662<br>84.40% | 684<br>85.40% | 751<br>102.60% | 647<br>83.20% |





## Appendix E: Army War College Demographic Impact Review

The Army War College (AWC) is located within the Carlisle Area School District, and AWC personnel, including faculty, staff, and AWC students' children are eligible to attend the school district. Some statistics about the AWC include:

### AWC Permanent Party Team

- 510 Assigned Military (439 officers/71 soldiers)
- 1,005 Professional Civilian Workforce
- 188 Contracted Professionals
- 1,703 Total Permanently Assigned to the Barracks

### AWC Students

- 433 US & International Students attend full-time Resident courses each year. Approximately the same number turns over annually.
- 811 US & International Distance Education Course Students (one month in residence)
- ~ 300 Students attend War College courses of less than 4 weeks in length each year
- Total: up to 3247 Students, Faculty, Staff/Workforce at Carlisle at any one time

### AWC Families On and Off Post

- 1,703 Permanent Party Family members (On and Off Post)
- 1,668 Students & Family members make their homes in local Communities
- 739 Students & Family members living on-post
- 103k- 51,000 military retirees and 52,000 retiree Family members rely on Carlisle Barracks for medical, financial, and personnel services.

### AWC Economic Impact

- \$150M in Annual Military and Civilian Payroll and Contracts
- 54% of Carlisle Barracks households earn \$100K+ (Government pay only)

The AWC has indicated that it has no current plans to expand the number of housing units or college enrollment on the base. The AWC is located in the Carlisle Borough, and resides within the LeTort Elementary attendance area. Students attending Carlisle Area School District (CASD) schools have been consistent over the years. The tables below show the number of students living on the AWC base in 2009-10 and in 2014-15. The tables reflect a stable population over the last 5 years. There were 312 students living on base in 2009-10 versus 336 students living on base in 2014-15. Although the number of students living on base has remained stable, the distribution of students by grade level has changed over the past 5 years. In 2009-10, 56% of all students on the AWC were in Middle and High School Grades (grades 6-12). In 2014-15, 62% of all students living on the AWC were grades 6-12. The higher proportion of middle and high school students are expected to continue through the life of the AWC forecast.

| Attending School | Grades |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|------------------|--------|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|                  | KG     | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |       |
| Bellaire ES      | 3      | 4  | 11 | 15 | 12 | 7  |    |    |    |    |    |    |    | 52    |
| Crestview ES     |        | 1  |    |    |    |    |    |    |    |    |    |    |    | 1     |
| Hamilton ES      | 1      | 8  | 3  | 3  | 9  | 9  |    |    |    |    |    |    |    | 33    |
| LeTort ES        | 9      | 8  | 6  | 10 | 8  | 11 |    |    |    |    |    |    |    | 52    |
| Lamberton MS     |        |    |    |    |    |    | 27 | 26 | 21 |    |    |    |    | 74    |
| Wilson MS        |        |    |    |    |    |    | 4  | 2  | 3  |    |    |    |    | 9     |
| Carlisle HS      |        |    |    |    |    |    |    |    |    | 31 | 20 | 27 | 13 | 91    |
| Total            | 13     | 21 | 20 | 28 | 29 | 27 | 31 | 28 | 24 | 31 | 20 | 27 | 13 | 312   |

Source: CASD 2009-10 Student database

| Attending School | Grades |    |    |    |    |    |    |    |    |    |    |    |    | Total |
|------------------|--------|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|                  | KG     | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 |       |
| Bellaire ES      |        | 6  | 6  | 5  | 3  | 10 |    |    |    |    |    |    |    | 30    |
| Crestview ES     |        | 1  |    | 2  | 1  | 1  |    |    |    |    |    |    |    | 5     |
| Hamilton ES      | 6      | 3  | 3  | 2  | 6  | 1  |    |    |    |    |    |    |    | 21    |
| LeTort ES        | 5      | 11 | 10 | 8  | 19 | 16 |    |    |    |    |    |    |    | 69    |
| Mooreland ES     |        |    | 1  |    | 1  |    |    |    |    |    |    |    |    | 2     |
| Lamberton MS     |        |    |    |    |    |    | 23 | 36 | 25 |    |    |    |    | 84    |
| Wilson MS        |        |    |    |    |    |    | 7  | 3  | 3  |    |    |    |    | 13    |
| Carlisle HS      |        |    |    |    |    |    |    |    |    | 38 | 36 | 22 | 16 | 112   |
| Total            | 11     | 21 | 20 | 17 | 30 | 28 | 30 | 39 | 28 | 38 | 36 | 22 | 16 | 336   |

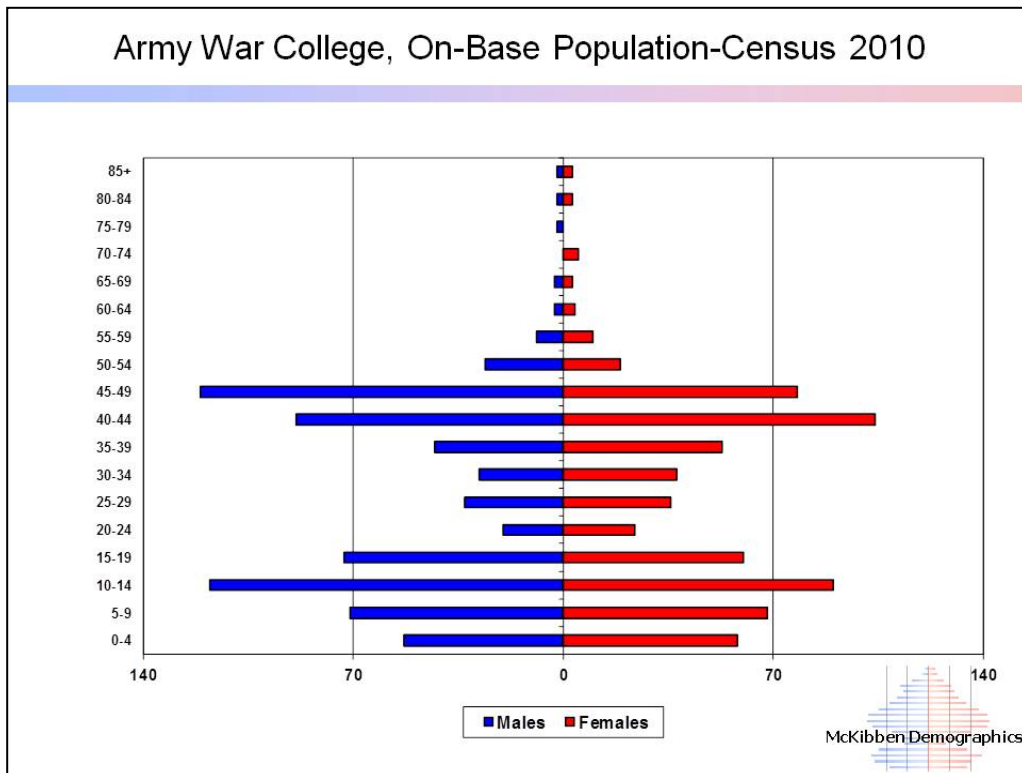
Source: CASD 2014-15 Student database





The population on the Army War College is fairly stable and does not change significantly over time. As with any college environment, those attending the college come to town for school, but most leave back to their home state/city once they are finished with the educational classes they have been assigned.

The AWC has indicated that the average age of their students are 42 years old, where faculty and staff have a median age of 45. These are on the higher side of family formation ages, and populations of this age don't typically yield younger-aged children.



The population pyramid to the right shows the age/sex distribution of the on-base population (Census 2010). Smaller populations of 0-4 and 5-9 year olds can be seen on the pyramid, and the 10-14 year old population is larger. The most dominant age groups are the 40-45 and 45-49 year olds, which is consistent with average and median age figures provided by the AWC staff.

It should be noted that there is a large percentage of AWC students and faculty living off-base. Even though this is the case, the on-base population is a good representative sample of the total population that is served by the AWC. The ultimate goal of the AWC forecast is to determine the long-term impact of the base, and studying the on-base population is the best and most accurate method to do this. The on-base population is used as the sample for the AWC forecast because the exact number of children attending CASD that live off-base is unknown, but the on-base CASD students and Census statistics are known.

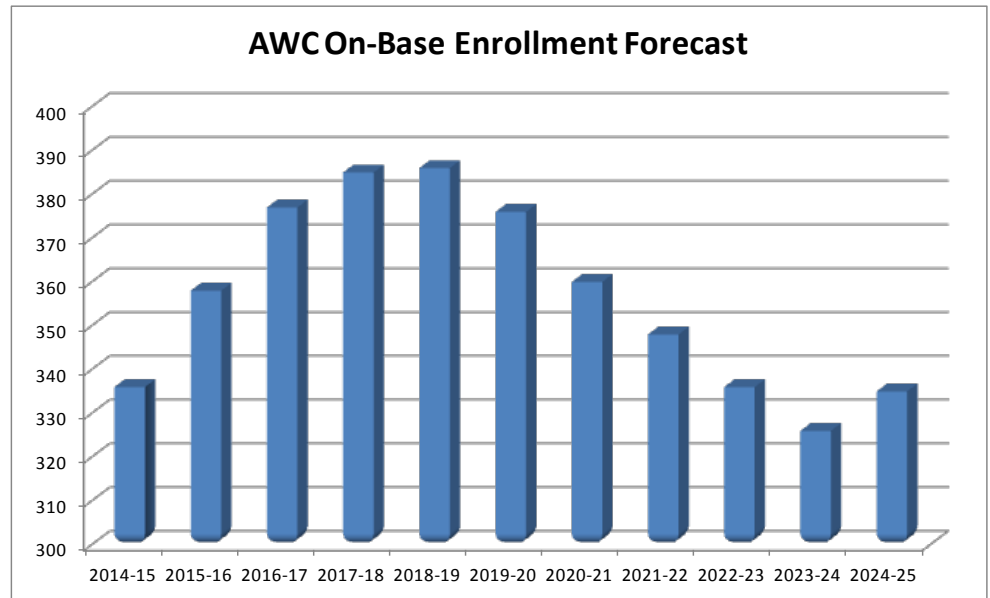
As indicated above, population and enrollment has been forecasted for on-base population, which will help CASD in understanding the long-term impact of the Army War College. The AWC forecasts are designed to be analyzed separately from the CASD enrollment forecast. The main enrollment forecasts created for CASD include students living on and off the AWC, but the AWC forecast identifies if the specific population serving the base will have a changing impact on the school district.

Enrollment forecast results for the AWC can be found on the following page.



The bar graph to the right shows the on-base enrollment forecast for the Army War College. The forecast results show that enrollment growth is fairly stable through the life of the forecast.

There is an expected gain in students living on-base over the next 4 years, primarily because smaller cohorts are leaving the system and are being replaced with larger cohorts. Once this 'bubble' works its way through the system, the enrollment is forecasted to further stabilize and end close to the same number of students as 2014-15.



Although the total number of students remains nearly the same by the end of the forecast, the proportion of students between elementary to middle to high changes. By the end of the forecast, there is expected to be a larger number of high school students than 2014-15, and a smaller number of middle school students. The elementary aged cohorts remain fairly stable through the life of the forecast.

To conclude, the Army War Base on-base population has been studied to assess the impact of the AWC on Carlisle Area School District schools.

Findings show that the AWC does have a substantial impact on the CASD and the jobs and population that the AWC brings into the CASD is critical to vitality of the school system, just as any large employer would.

| War College On-Base Enrollment Forecast             |            |            |            |            |            |            |            |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Grades  | 2014-15    | 2015-16    | 2016-17    | 2017-18    | 2018-19    | 2019-20    | 2020-21    | 2021-22    | 2022-23    | 2023-24    | 2024-25    |
| K   | 11         | 14         | 14         | 14         | 15         | 15         | 14         | 14         | 14         | 14         | 13         |
| 1   | 21         | 22         | 22         | 23         | 23         | 24         | 24         | 23         | 23         | 22         | 22         |
| 2   | 20         | 20         | 21         | 21         | 22         | 22         | 23         | 23         | 22         | 22         | 21         |
| 3   | 17         | 18         | 18         | 19         | 19         | 20         | 21         | 22         | 22         | 21         | 21         |
| 4   | 30         | 18         | 19         | 19         | 20         | 20         | 21         | 22         | 23         | 23         | 22         |
| 5   | 28         | 29         | 17         | 18         | 18         | 19         | 20         | 21         | 22         | 23         | 23         |
| <b>Total: K-5</b>                                   | <b>127</b> | <b>121</b> | <b>111</b> | <b>114</b> | <b>117</b> | <b>120</b> | <b>123</b> | <b>125</b> | <b>126</b> | <b>125</b> | <b>122</b> |
| 6   | 30         | 29         | 30         | 18         | 19         | 19         | 20         | 21         | 22         | 23         | 24         |
| 7   | 39         | 32         | 30         | 32         | 19         | 20         | 21         | 22         | 23         | 24         | 25         |
| 8   | 28         | 40         | 33         | 31         | 33         | 19         | 21         | 22         | 23         | 24         | 25         |
| <b>Total: 6-8</b>                                   | <b>97</b>  | <b>101</b> | <b>93</b>  | <b>81</b>  | <b>71</b>  | <b>58</b>  | <b>62</b>  | <b>65</b>  | <b>68</b>  | <b>71</b>  | <b>74</b>  |
| 9   | 38         | 40         | 57         | 47         | 44         | 47         | 27         | 30         | 32         | 33         | 35         |
| 10  | 36         | 43         | 45         | 64         | 53         | 49         | 54         | 31         | 34         | 36         | 38         |
| 11  | 22         | 39         | 46         | 49         | 69         | 57         | 54         | 59         | 34         | 37         | 40         |
| 12  | 16         | 14         | 25         | 30         | 32         | 45         | 40         | 38         | 42         | 24         | 26         |
| <b>Total: 9-12</b>                                  | <b>112</b> | <b>136</b> | <b>173</b> | <b>190</b> | <b>198</b> | <b>198</b> | <b>175</b> | <b>158</b> | <b>142</b> | <b>130</b> | <b>139</b> |
| <b>Total: K-12</b>                                  | <b>336</b> | <b>358</b> | <b>377</b> | <b>385</b> | <b>386</b> | <b>376</b> | <b>360</b> | <b>348</b> | <b>336</b> | <b>326</b> | <b>335</b> |
| Green cells (2014-15) are historical data           |            |            |            |            |            |            |            |            |            |            |            |
| Blue cells (2015-16 and later) are forecasted years |            |            |            |            |            |            |            |            |            |            |            |

Although the AWC does play a critical role in serving the Carlisle Area Schools and community, the population and students on the AWC base are not forecasted to have substantial changes in students or population.



## Appendix E: Live Attend Analysis

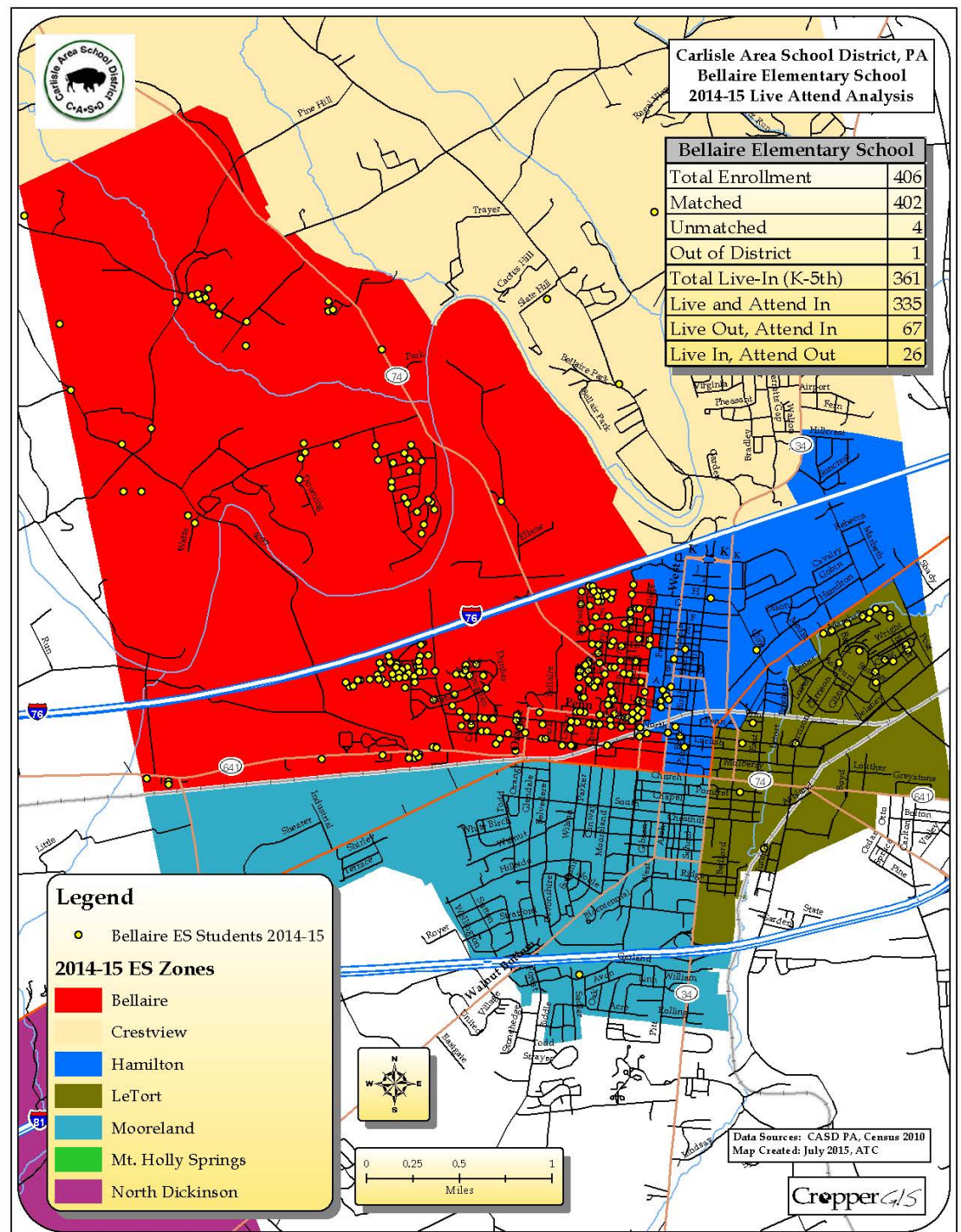
This map series focuses on illustrating the geographic distribution of Carlisle Area School District's 2014-2015 students in relation to school attendance boundaries.

Here is an example of a map from this series.

### Basic Map Elements

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

Please note that each yellow dot represents a student's address, at which, multiple students could reside. Therefore, counting the number of dots shown on the map might not reflect the student population accurately.



*Live-Attend Tables*

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

| <b>Bellaire Elementary School</b> |     |
|-----------------------------------|-----|
| Total Enrollment                  | 406 |
| Matched                           | 402 |
| Unmatched                         | 4   |
| Out of District                   | 1   |
| Total Live-In (K-5th)             | 361 |
| Live and Attend In                | 335 |
| Live Out, Attend In               | 67  |
| Live In, Attend Out               | 26  |

Total Enrollment - number of students attending Bellaire ES.

Matched - number of students attending Bellaire ES whose addresses were located by the GIS, and placed on the map.

Unmatched - number of students whose addresses were not able to be located, and have not been placed on the map.

Out of District - number of students who live outside of the Carlisle Area School District's boundaries, yet attend this school.

Total Live-In - number of students who live within the school's attendance boundary, who are in the K-5th grade cohort. The 'total-live in' statistic here indicates there are 361 K-5th grade students living within the Bellaire ES attendance boundary.

Live and Attend In - number of K-5th students who live within the attendance boundary, and also attend that school. In this example, 335 K-5th grade students who live within the Bellaire ES attendance boundary also attend Bellaire ES.

Live Out, Attend In - number of K-5th students who live outside of the Bellaire ES attendance boundary, but attend Bellaire ES. Any student records that are unmatched are not included in this count, since it is not known whether or not these unmatched students live within or outside the attendance boundary in question. Due to the methods used to calculate the statistics in this table, this is the only circumstance where this is relevant.

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

## LIVE ATTEND MATRIX

The tables below give details on the schools that students attend and the school zones where they live. The schools of attendance are listed on the left while the zones where students live schools of attendance are listed on the top line. The numbers highlighted in green are counts of students who attend the assigned schools for the zones where they live.

### K-5th Matrix Where 2014-15 K-5th Students Live

Where 2014-15 K-5th Students Attend

|                                    |     | Bellaire | Crestview | Hamilton | LeTort | Mooreland | Mt. Holly Springs | North Dickinson | Out of District | Unmatched | Live Out Attend In |
|------------------------------------|-----|----------|-----------|----------|--------|-----------|-------------------|-----------------|-----------------|-----------|--------------------|
|                                    |     | 361      | 528       | 369      | 314    | 304       | 205               | 191             | 41              | 12        |                    |
| Bellaire Elementary School         | 406 | 335      | 9         | 18       | 37     | 1         |                   | 1               | 1               | 4         | 67                 |
| Crestview Elementary School        | 528 | 11       | 485       | 11       | 5      | 2         |                   | 1               | 12              | 1         | 42                 |
| Hamilton Elementary School         | 354 | 4        | 17        | 309      | 12     | 6         |                   |                 | 5               | 1         | 44                 |
| LeTort Elementary School           | 284 | 1        | 5         | 12       | 235    | 22        | 1                 | 3               | 2               | 3         | 46                 |
| Mooreland Elementary School        | 316 | 5        | 3         | 7        | 20     | 269       | 1                 | 5               | 4               | 2         | 45                 |
| Mt Holly Springs Elementary School | 226 | 1        | 3         | 4        | 1      | 1         | 195               | 10              | 10              | 1         | 30                 |
| North Dickinson Elementary School  | 198 | 3        | 4         | 5        | 2      | 3         | 5                 | 169             | 7               |           | 29                 |
| No School Attribute                | 13  | 1        | 2         | 3        | 2      |           | 3                 | 2               |                 |           |                    |
| Live In Attend Out                 |     | 26       | 43        | 60       | 79     | 35        | 10                | 22              |                 |           |                    |

### 6-8th Matrix

### Where 2014-15 6-8th Students Live

Where 2014-15 6-8th Students Attend

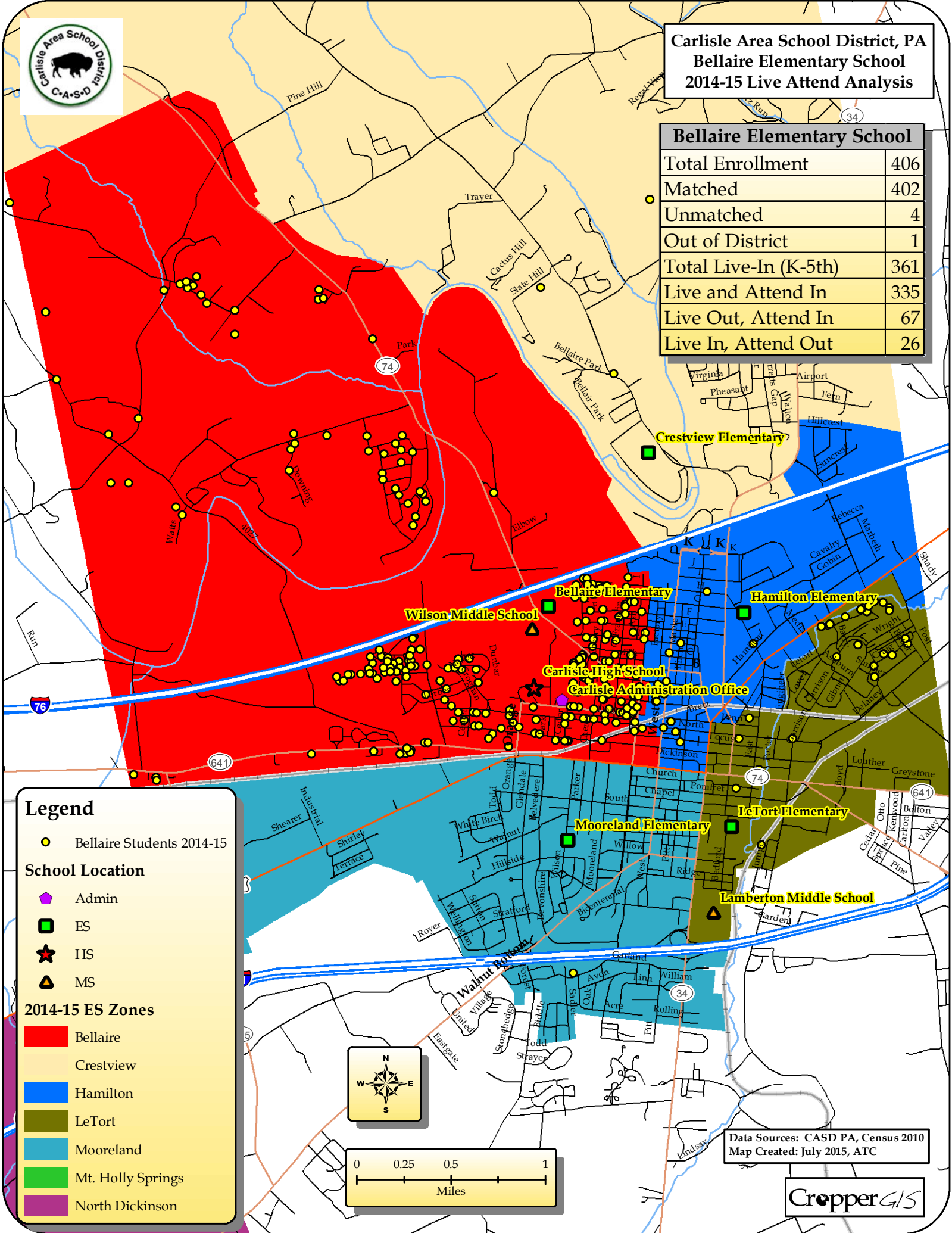
|                         |     | Lamberton | Wilson | Out of District | Unmatched | Live Out Attend In |
|-------------------------|-----|-----------|--------|-----------------|-----------|--------------------|
|                         |     | 560       | 551    | 14              | 5         |                    |
| Lamberton Middle School | 560 | 524       | 29     | 4               | 3         | 33                 |
| Wilson Middle School    | 543 | 26        | 505    | 10              | 2         | 36                 |
| No School Attribute     | 27  | 10        | 17     |                 |           |                    |
| Live In Attend Out      |     | 36        | 46     |                 |           |                    |





**Carlisle Area School District, PA  
Bellaire Elementary School  
2014-15 Live Attend Analysis**

| Bellaire Elementary School |     |
|----------------------------|-----|
| Total Enrollment           | 406 |
| Matched                    | 402 |
| Unmatched                  | 4   |
| Out of District            | 1   |
| Total Live-In (K-5th)      | 361 |
| Live and Attend In         | 335 |
| Live Out, Attend In        | 67  |
| Live In, Attend Out        | 26  |



**Legend**

- Bellaire Students 2014-15

**School Location**

- ◆ Admin
- ES
- ★ HS
- ▲ MS

**2014-15 ES Zones**

- Bellaire
- Crestview
- Hamilton
- LeTort
- Mooreland
- Mt. Holly Springs
- North Dickinson

Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC





Carlisle Area School District, PA  
Crestview Elementary School  
2014-15 Live Attend Analysis

## Legend

● Crestview ES Students 2014-15

### School Location

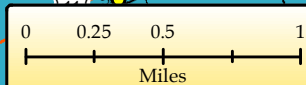
- ◆ Admin
- ES
- ★ HS
- ▲ MS

### 2014-15 ES Zones

- Bellaire
- Crestview
- Hamilton
- LeTort
- Mooreland
- Mt. Holly Springs
- North Dickinson

### Crestview Elementary School

|                       |     |
|-----------------------|-----|
| Total Enrollment      | 528 |
| Matched               | 527 |
| Unmatched             | 1   |
| Out of District       | 12  |
| Total Live-In (K-5th) | 528 |
| Live and Attend In    | 485 |
| Live Out, Attend In   | 42  |
| Live In, Attend Out   | 43  |



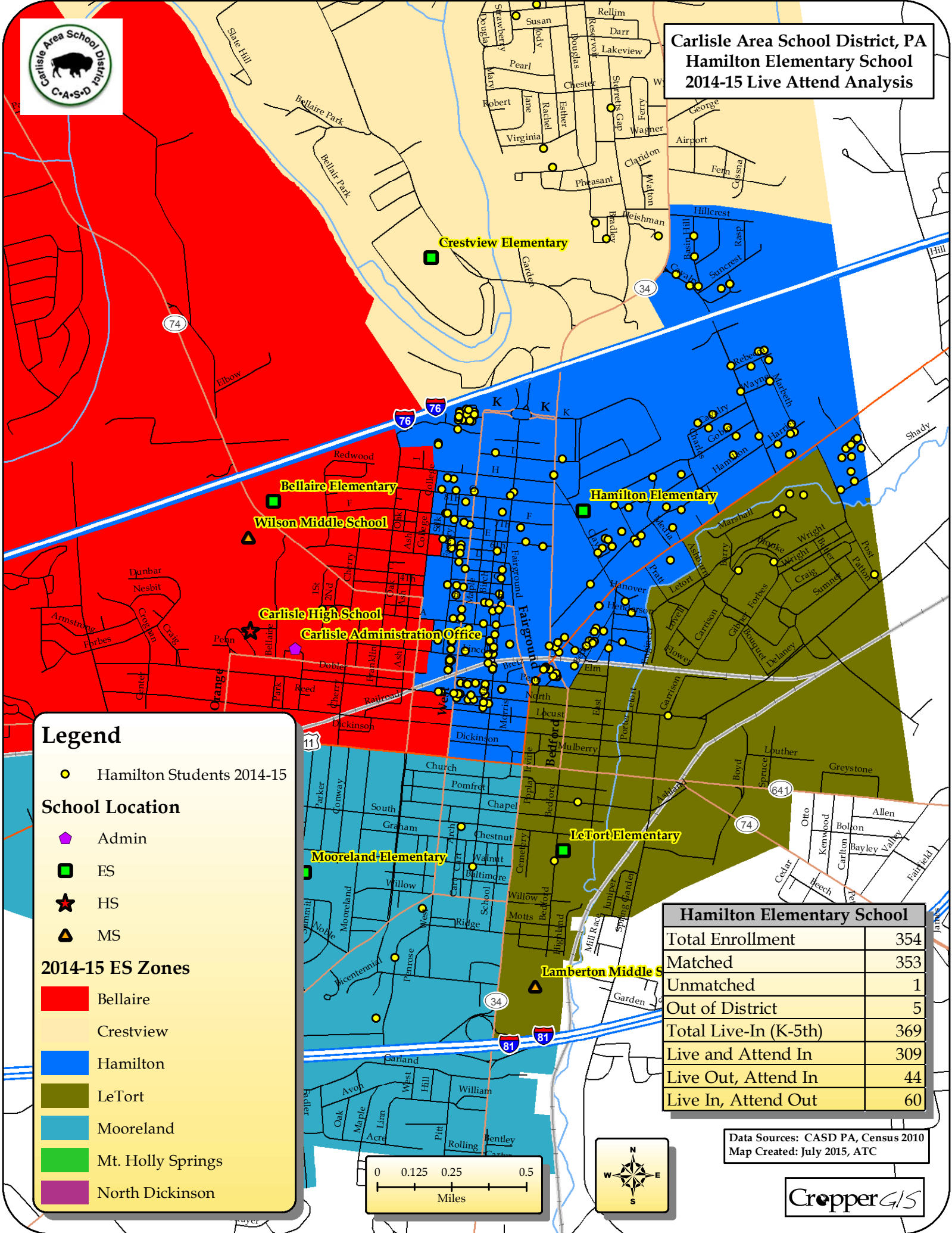
Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

Lami Cropper GIS





# Carlisle Area School District, PA Hamilton Elementary School 2014-15 Live Attend Analysis



## Legend

● Hamilton Students 2014-15

## School Location

- Admin
- ES
- HS
- MS

## 2014-15 ES Zones

- Bellaire
- Crestview
- Hamilton
- LeTort
- Mooreland
- Mt. Holly Springs
- North Dickinson

## Hamilton Elementary School

|                       |     |
|-----------------------|-----|
| Total Enrollment      | 354 |
| Matched               | 353 |
| Unmatched             | 1   |
| Out of District       | 5   |
| Total Live-In (K-5th) | 369 |
| Live and Attend In    | 309 |
| Live Out, Attend In   | 44  |
| Live In, Attend Out   | 60  |

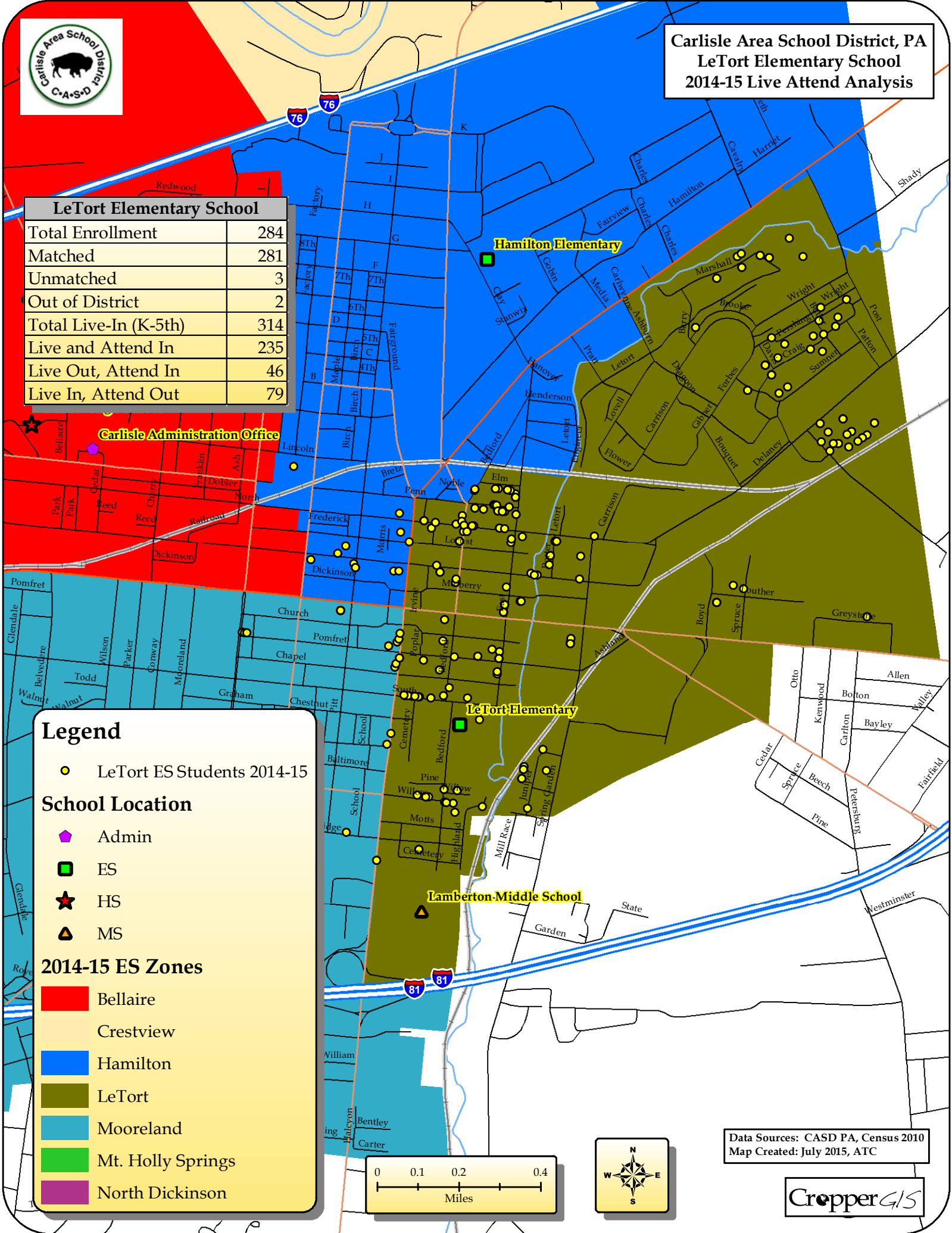
Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

CropperGIS



Carlisle Area School District, PA  
LeTort Elementary School  
2014-15 Live Attend Analysis

| LeTort Elementary School |     |
|--------------------------|-----|
| Total Enrollment         | 284 |
| Matched                  | 281 |
| Unmatched                | 3   |
| Out of District          | 2   |
| Total Live-In (K-5th)    | 314 |
| Live and Attend In       | 235 |
| Live Out, Attend In      | 46  |
| Live In, Attend Out      | 79  |



Legend

- LeTort ES Students 2014-15
- School Location**
  - ◆ Admin
  - ES
  - ★ HS
  - ▲ MS
- 2014-15 ES Zones**
  - Bellaire
  - Crestview
  - Hamilton
  - LeTort
  - Mooreland
  - Mt. Holly Springs
  - North Dickinson

Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC





Carlisle Area School District, PA  
Mooreland Elementary School  
2014-15 Live Attend Analysis

| Mooreland Elementary School |     |
|-----------------------------|-----|
| Total Enrollment            | 316 |
| Matched                     | 314 |
| Unmatched                   | 2   |
| Out of District             | 4   |
| Total Live-In (K-5th)       | 304 |
| Live and Attend In          | 269 |
| Live Out, Attend In         | 45  |
| Live In, Attend Out         | 35  |

## Legend

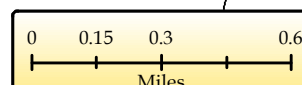
- Mooreland ES Students 2014-15

### School Location

- Admin
- ES
- HS
- MS

### 2014-15 ES Zones

- Bellaire
- Crestview
- Hamilton
- LeTort
- Mooreland
- Mt. Holly Springs
- North Dickinson



Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

CropperGIS



Carlisle Area School District, PA  
Mt Holly Springs Elementary School  
2014-15 Live Attend Analysis

## Legend

- Mt Holly Springs ES Students 2014-15

## School Location

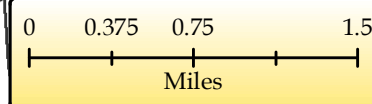
- ◆ Admin
- ES
- ★ HS
- ▲ MS

## 2014-15 ES Zones

- Bellaire
- Crestview
- Hamilton
- LeTort
- Mooreland
- Mt. Holly Springs
- North Dickinson

### Mt Holly Springs Elementary School

|                       |     |
|-----------------------|-----|
| Total Enrollment      | 226 |
| Matched               | 225 |
| Unmatched             | 1   |
| Out of District       | 10  |
| Total Live-In (K-5th) | 205 |
| Live and Attend In    | 195 |
| Live Out, Attend In   | 30  |
| Live In, Attend Out   | 10  |



Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

CropperGIS





Carlisle Area School District, PA  
North Dickinson Elementary School  
2014-15 Live Attend Analysis

### North Dickinson Elementary School

|                       |     |
|-----------------------|-----|
| Total Enrollment      | 198 |
| Matched               | 198 |
| Unmatched             | 0   |
| Out of District       | 7   |
| Total Live-In (K-5th) | 191 |
| Live and Attend In    | 169 |
| Live Out, Attend In   | 29  |
| Live In, Attend Out   | 22  |

### Legend

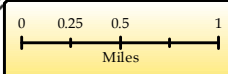
- North Dickinson ES Students 2014-15

### School Location

- Admin
- ES
- HS
- MS

### 2014-15 ES Zones

- Bellaire
- Crestview
- Hamilton
- LeTort
- Mooreland
- Mt. Holly Springs
- North Dickinson



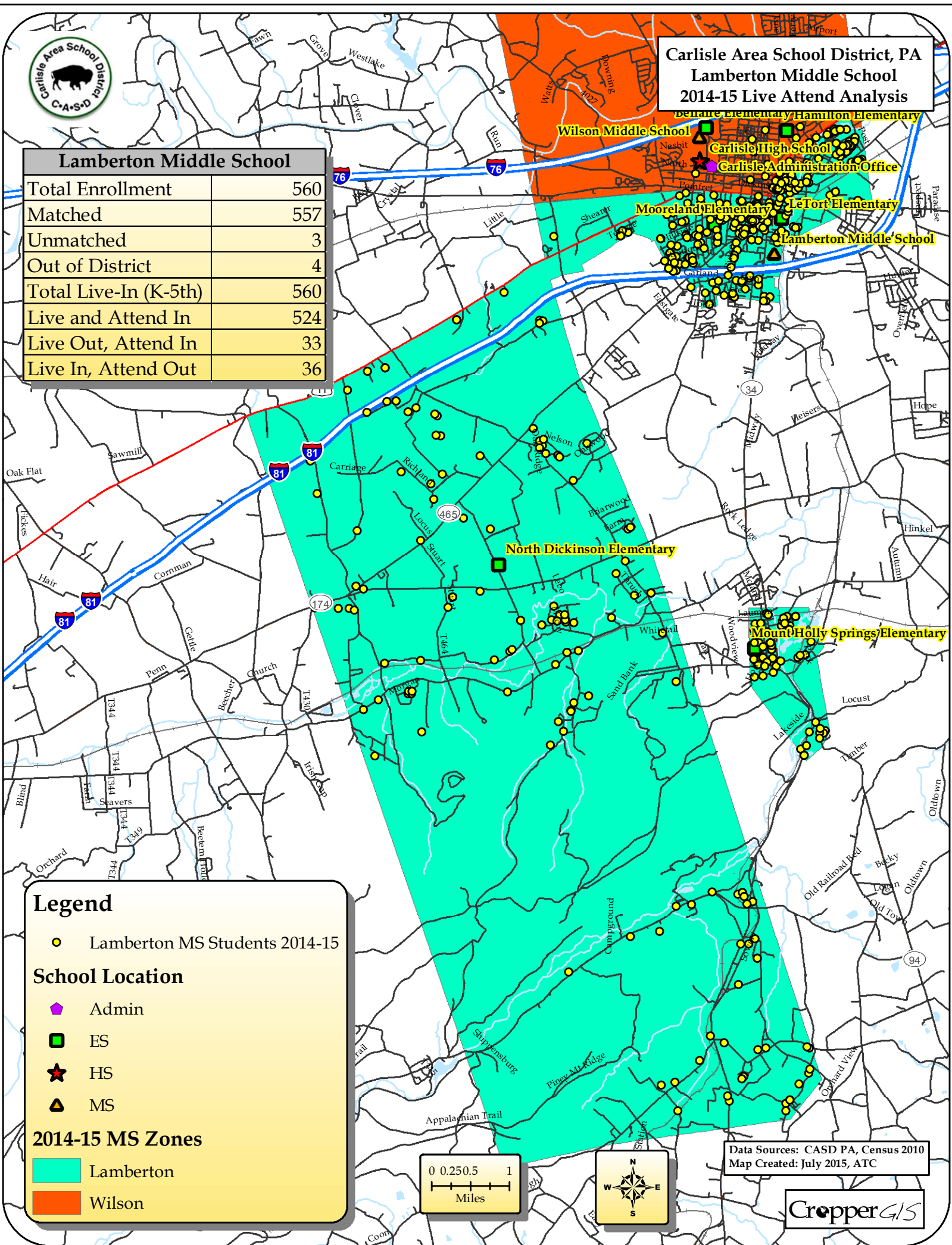
Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

CropperGIS



**Carlisle Area School District, PA  
Lamberton Middle School  
2014-15 Live Attend Analysis**

| Lamberton Middle School |     |
|-------------------------|-----|
| Total Enrollment        | 560 |
| Matched                 | 557 |
| Unmatched               | 3   |
| Out of District         | 4   |
| Total Live-In (K-5th)   | 560 |
| Live and Attend In      | 524 |
| Live Out, Attend In     | 33  |
| Live In, Attend Out     | 36  |



### Legend

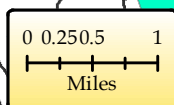
- Lamberton MS Students 2014-15

### School Location

- ◆ Admin
- ES
- ★ HS
- ▲ MS

### 2014-15 MS Zones

- Lamberton
- Wilson



Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

CropperGIS



Carlisle Area School District, PA  
Wilson Middle School  
2014-15 Live Attend Analysis

| Wilson Middle School  |     |
|-----------------------|-----|
| Total Enrollment      | 543 |
| Matched               | 541 |
| Unmatched             | 2   |
| Out of District       | 10  |
| Total Live-In (K-5th) | 551 |
| Live and Attend In    | 505 |
| Live Out, Attend In   | 36  |
| Live In, Attend Out   | 46  |

## Legend

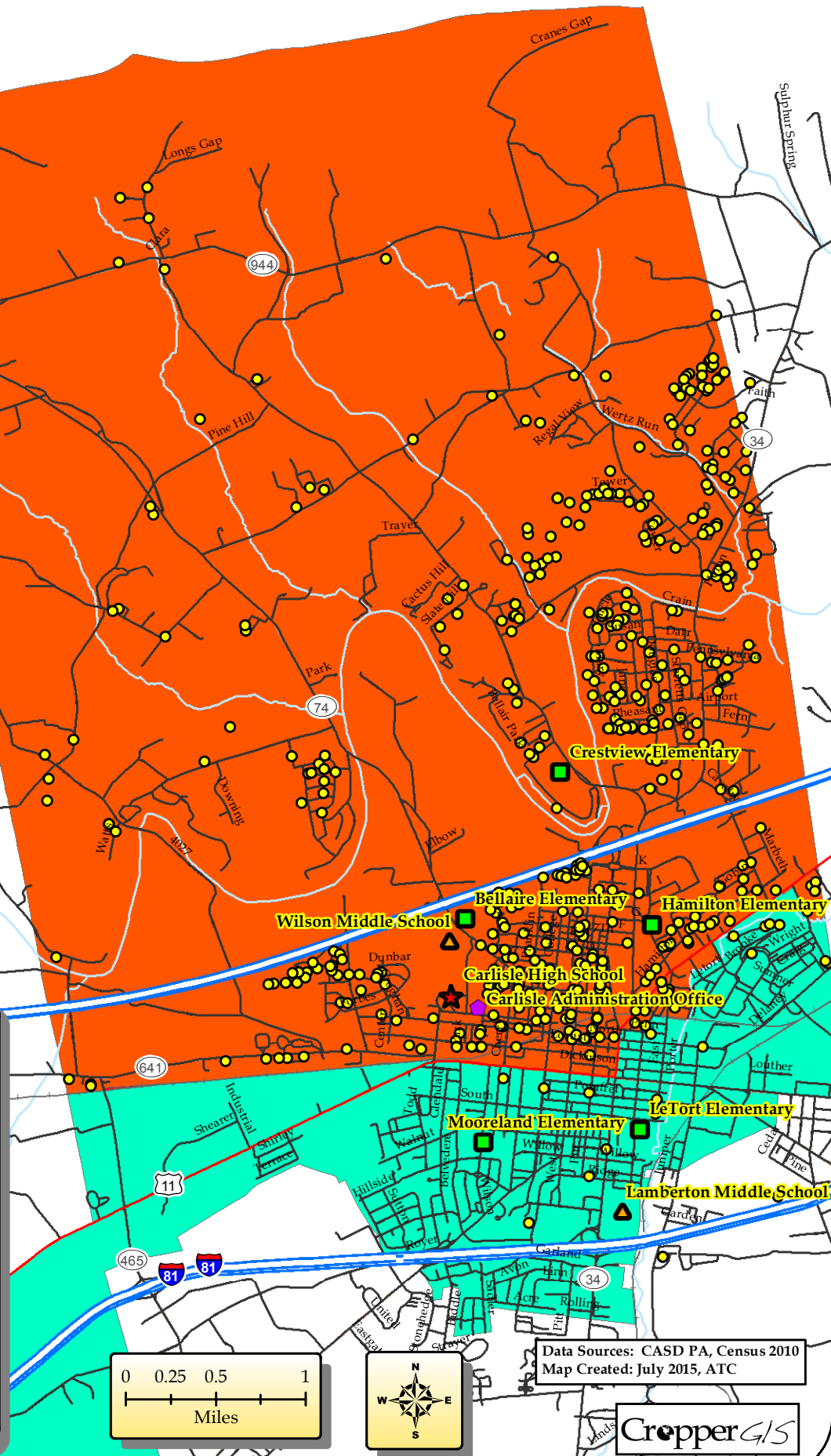
- Wilson MS Students 2014-15

## School Location

- Admin
- ES
- HS
- MS

## 2014-15 MS Zones

- Lamberton
- Wilson



Data Sources: CASD PA, Census 2010  
Map Created: July 2015, ATC

CropperGIS