## SECTION 9 <br> ENROLLMENT PROJECTIONS

The following charts illustrate the student enrollment projections for the Rye Elementary School, Rye Middle School, and those students who will be attending Portsmouth High School from Rye. These charts are created using the Cohort Survival Method, utilizing the concept of the five (5) year weighted average, five (5) year straight average and three (3) year weighted average. Primarily these charts use progression ratios to predict the future student enrollment. These charts should be used to examine enrollment trends and not as exact student numbers.

By computing three (3) averages, instead of only one (1) average, a more accurate range can be done when analyzing future years' student enrollment. It should be noted that the accuracy of the enrollment trends, regardless of the method utilized, should be for the entire school population and not for a specific grade level.

The projection enrollments are created by using a complex formula, which gives statistical weight to prior years' student enrollment data in determining the future student enrollment. Data on resident live births are as recorded and reported by the State of New Hampshire. Actual enrollment data is calculated by using October $1^{\text {st }}$ enrollments.

At the elementary school you will note that the projected student population for the 2015-2016 projects a decrease of sixteen (16) students school wide. Continuing in 2016-2017 and 2017-2018 there is a decrease of projected student enrollment with the aggregate student enrollment being between 250 to 270 students. It is interesting to note that there is a $6 \%$ increase in students between kindergarten and grade one. There is also a rather significant increase in the progression ratio between resident live births and the number of students' actually entering kindergarten. You will note that the progression ratio indicates an approximate increase of more than $30 \%$. For 2014-2015, this same age group had a $48 \%$ increase in students. A possible explanation is that families of child bearing age are still moving into the Town with children of pre-elementary school age but at a slower rate than prior years, or due to the economy, parents are electing to send their child(ren) to public kindergarten rather than remain in a private setting.

At the middle school, the student population decreased by eight (8) students in 2014-2015 when compared to the prior year. It is estimated that there will be an increase in students at the middle school of eleven (11) students for 2015-2016. The student population is projected to decrease in 2016-2017 and future years with the potential number of students in four (4) years being in the 150 range.

Further, you will note that in the 2015-2016 budget, it is projected that six (6) Rye students would not be attending Portsmouth High School, but would be attending a private school. These six (6) students represent approximately $13 \%$ of the current eighth grade student population, less any New Castle students.

In 2015-2016, there is a projected decrease of six (6) students attending Portsmouth High School over the number of students budgeted in 2014-2015, but please remember that these figures are projections only. With the potential decrease of six (6) less students at Portsmouth High School for 2015-2016 the appropriation has still increased due to the projected rise in the tuition rate per student. The appropriation increase for high school tuition is still significant as the budgetary increase is anticipated to be $\$ 108,067$. A consideration why the 2015-2016 appropriation is greater is that the per student tuition cost estimated for 2015-2016 is $\$ 995$ greater than the actual amount budgeted.

Currently there are 204 students attending Portsmouth High School which is one (1) student greater than the number of students appropriated. This higher number of students and the higher than anticipated cost per pupil has created a budgetary deficit of $\$ 48,318$ if the budgetary and actual estimates of students attending Portsmouth High School were in complete agreement. When more students attend Portsmouth High School it is generally due to one (1) of the following reasons:

1) students attending Portsmouth High School who attended a private school the prior year;
2) students who moved into Rye;
3) the total number of high school age students, whether they attend private or public school in the aggregate is greater than the prior year;
4) more current eighth grade students are attended Portsmouth High School than anticipated.

Naturally, there is always the possibility that more students may move into or may move out of the Town, increasing or decreasing the number of students who will or will not attend Portsmouth High School.

Again, the enrollment projections are used as a tool to project enrollment trends, and are not meant to be used as an exact forecast for the number of students. Further exploration and close monitoring of students population will need to be continually undertaken.


## STUDENT ENROLLMENT AT THE RYE ELEMENTARY AND JUNIOR HIGH SCHOOLS

Data based on five (5) year weighted average and General Fall Reports.

| School Year | Junior High | Elementary |  | Totals |
| :--- | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| $2009-10$ | 199 | 317 | 516 |  |
| $2010-11$ | 216 | 329 | 545 |  |
| $2011-12$ | 218 | 327 | 545 |  |
| $2012-13$ | 192 | 316 | 508 |  |
| $2013-14$ | 183 | 311 | 494 |  |
| $2014-15$ | 175 | 287 | 462 |  |
| $2015-16$ | 187 | 276 | 463 |  |
| $2016-17$ | 186 | 290 | 476 |  |
| $2017-18$ | 170 | 274 | 444 |  |
| $2018-19$ | 159 | 270 |  |  |



## New Hampshire Resident Births by County and Town/City, 2003-2013

The data provide in this document include live births to mothers who are New Hampshire residents. Please note: birth data for the year 2012 does not include all NH residents who were born out-of-state, and is therefore considered incomplete at this time.

| TOWN/CITY | $\underline{2003}$ | $\underline{2004}$ | $\underline{2005}$ | $\underline{2006}$ | $\underline{2007}$ | $\underline{2008}$ | $\underline{2009}$ | $\underline{2010}$ | $\underline{2011}$ | $\underline{2012}$ | $\underline{2013}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| GREENLAND | 41 | 38 | 34 | 38 | 35 | 50 | 33 | 47 | 44 | 37 | 52 |
| NEW CASTLE | 7 | 3 | 4 | 6 | 1 | 3 | 5 | 6 | 2 | 4 | 3 |
| NEWINGTON | 2 | 6 | 8 | 9 | 5 | 3 | 3 | 4 | 2 | 7 | 7 |
| RYE | 32 | 30 | 43 | 23 | 35 | 24 | 39 | 30 | 37 | 29 | 28 |

Health Statistics and Data Management Section, NH Dept of Health and Human Service Email: healthstats@dhhs.state.nh.us or call: 603-271-4988.

