# Enrollment Projection/ Demographic Study
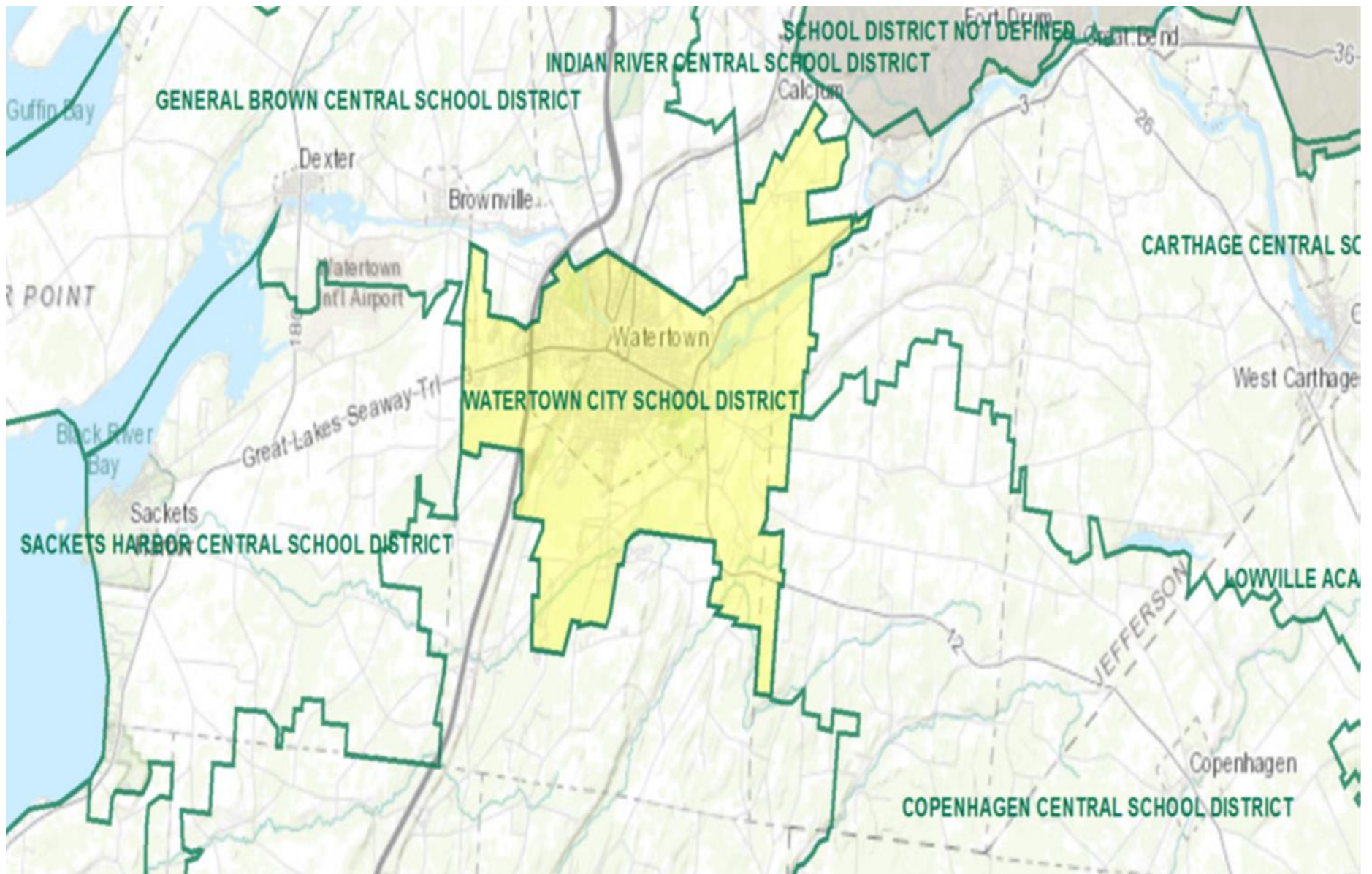
*for the*

## Watertown City School District

### A Tool to Help Plan and Discuss the Future

## March 2020

*"Custom tools and research to aid a school district in defining a vision and decision options for serving students in the future."*

*"Custom tools and research to aid a school district in defining a vision and decision options for serving students in the future."*

# TABLE OF CONTENTS

*"Custom tools and research to aid a school district in defining a vision and decision options for serving students in the future."*

**PURPOSE AND USE OF THE ENROLLMENT PROJECTION STUDY**

This demographic/enrollment projection study provides historical and current Watertown School District enrollment data and suggests enrollment projection scenarios based on the trending of historical data patterns. The Watertown School District has 46 square miles within its enrollment boundaries.

The main purpose of the study is to provide a tool to help school district decision-making. The study provides projected pupil enrollments based on different assumptions about the future. The study is a tool to engage a community in identifying what they believe about the future of the school district and the community it serves. The study also enables the school district to comply with Commissioner's Regulation Section 155.1. The Regulation requires long-range planning of program requirements, future enrollments K-12, pupil capacity of existing facilities, and a plan for repair or modernization of facilities and/or provision for additional facilities to support the delivery of the program Kindergarten through Grade 12. Planning for a Pre-kindergarten program component is a separate element and analysis. Unlike Kindergarten, which has evolved into a *defacto* 'compulsory' enrollment grade for which State attendance aid is given to a district, Pre-kindergarten enrollment rests solely on the availability of such a program at the discretion of a school district and the volition of the parents or guardians.

The enrollment projection study combined with the values, intuition, and vision of school district officials can frame planning discussions as the school district projects its facilities, staffing and program needs into the future.

**VARIABLES THAT INFLUENCE FUTURE SCHOOL DISTRICT ENROLLMENTS**

The six sources of current and projected school district enrollment are:
- live births within the school district and their eventual kindergarten enrollment in the district;
- new household population with children who move to the district;
- new population who move to the district who are at child-bearing age and plan to begin a family;
- enrollment of students from non-public schools or from home-schooling settings;
- school program and academic intervention changes that may increase the success of the school district in keeping existing enrollment as long as possible to culminate in high school graduation;
- a change by other public schools, if any, who tuition students to attend the Watertown School District.

If there are data to suggest that one or more of the variables listed above will not continue into the near future of the next five years in the same historical pattern, then the baseline enrollment projections results

are modified to estimate the potential impact the variable(s) may have on future school district

enrollments. The baseline enrollment projection calculations of the study are based on the following:

- ✓ Historical live birth data and patterns
- ✓ Historical patterns of enrollment at the various grade levels
- ✓ Private school enrollments
- ✓ Historical pattern of other school districts, if any, that tuition students to the district

## METHODOLOGY TO PROJECT BASELINE ENROLLMENT FORECASTS

**Compilation of Data**

The study collects the following data to execute the cohort survival statistic to project *baseline* future

enrollments of the school district:

- Student enrollments of the Watertown School District by grade level from 2014-2015 through 2019-2020 are compiled from data provided by district personnel. All public school enrolled children including special needs students regardless of current school year program location of program, and temporarily home-bound pupils are included in the estimates.
- Annual kindergarten class enrollments are compared to the total school district enrollment area live births five years earlier.
- Live birth numbers in the school district since 2002 as reported by the New York State Department of Health are analyzed.

## Application of the Baseline Cohort Survival Statistic

The cohort survival statistic identifies a 'percentage of survival' ratio that describes the relationship of a

grade level enrollment in a given year compared to the grade enrollment in the next lower grade from the

previous year. If a ratio falls below 1.0, the ratio signifies that the enrollment of students in a grade level

decreased or did not 'survive' enrollment into the next grade level of the next year. If a ratio rises above

1.0, the ratio then signifies that new enrollment has moved to the district or a significant change in grade-

to-grade promotion policy.

Calculating the survival ratios from 2013-2014 through 2018-2019 for each of the grade enrollments

provides the basis for a set of average grade-to-grade survival ratios that can be used to estimate future

*baseline* grade enrollments in the Watertown School District.

## Limitations of the Study

- The future enrollments predicted using the cohort survival statistic should be adjusted if there is evidence that one or more of the study assumptions have changed.

- Enrollment projection totals for K-6 (K-4, 5-6), 7-8 and for 9-12 are more reliable than are those for specific grade levels in specific years. *Primary focus should be given to estimates five years into*

*the future for grades K-6, eight years into the future for grades 7-8, and ten years into the future for grades 9-12.*

- The cohort survival statistic is a linear calculation.  As such, sporadic fluctuations of historical enrollment data from year-to-year could affect the estimated projections of future enrollment

## HISTORICAL PERSPECTIVE OF ANNUAL ENROLLMENTS

Total K-12 enrollment in the six enrollment years since 2014-2015 has changed from 3946 pupils to 4015 in the current school year.  Sixty-nine more pupils equate to a +1.8% change over the past six years.  The six-year average is 3956 pupils and the median is 3942.

## CHART ONE:  WATERTOWN CITY SD
## HISTORICAL K-12 ENROLLMENT
## 2014-2019

$y = 14.743x + 3904.1$

ENROLLMENT

| | | | | | |
|---|---|---|---|---|---|
| 3946 | 3938 | 3915 | 3930 | 3990 | 4015 |

| 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 |
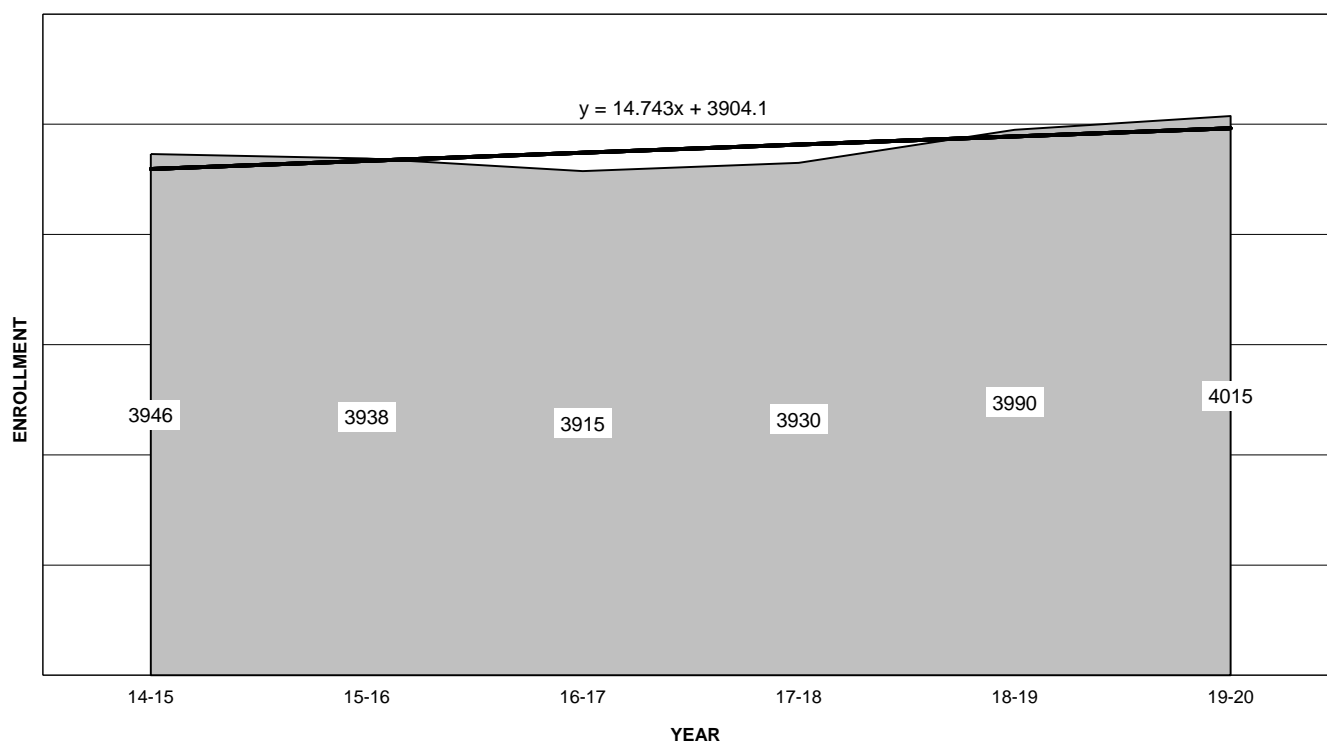
YEAR

*Chart Two* illustrates the historical pattern of K-6, and 7-12 enrollments since 2014.  Note the increasing pattern of elementary enrollments since 2014.  The pattern 7-12 enrollment is slightly negative over the past six years.  However, the six year increasing pattern of K-6 enrollment indicates that 7-12 enrollment will likely increase over at least the next seven years.

*Chart Three* illustrates the historical pattern of K-4, 5-6, 7-8 and 9-12 enrollments since 2014.  Note the *decreasing* pattern of K-4 enrollment and the increasing 5-8 enrollment.  It is likely that 9-12 enrollment may increase over the next five years and then decline.

3

# CHART TWO: WATERTOWN CITY SD
# HISTORICAL K-6, 7-12 ENROLLMENT
# 2014-2019



Chart Two data labels:

ENROLLMENT (y-axis)

K-6 values: 2320, 2314, 2325, 2354, 2396, 2375

7-12 values: 1626, 1624, 1590, 1576, 1594, 1640

$y = 15.714x + 2292.3$

$y = -0.9714x + 1611.7$

Legend: K-6, 7-12

YEAR (x-axis): 14-15, 15-16, 16-17, 17-18, 18-19, 19-20
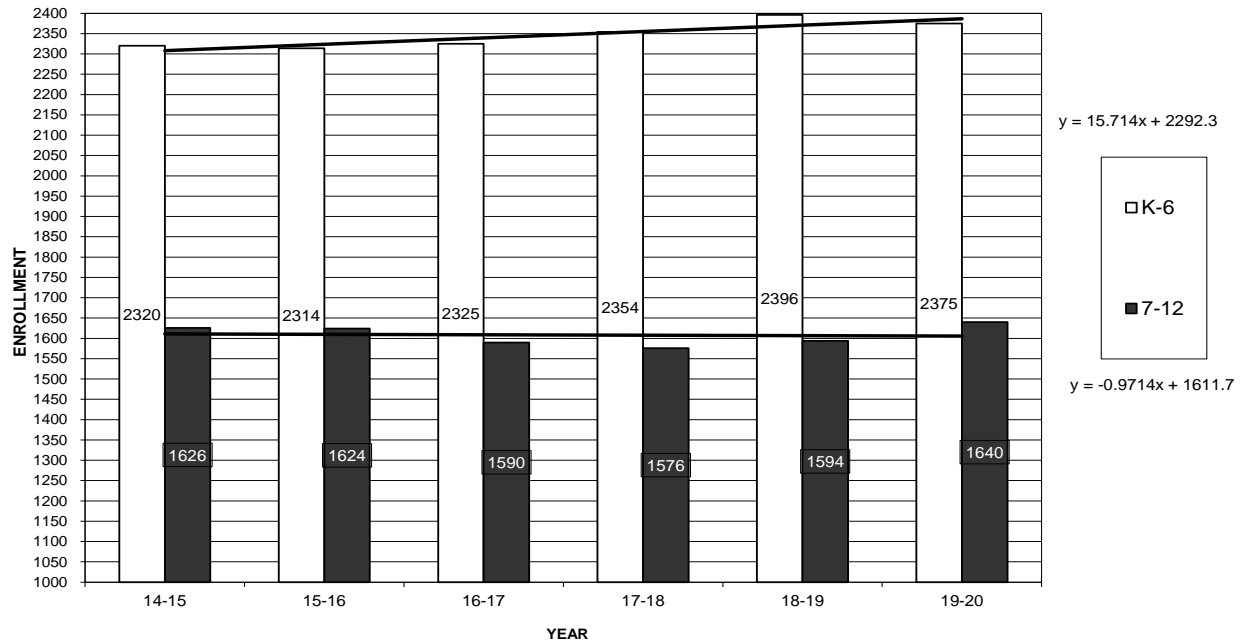
## CHART THREE: WATERTOWN CITY SD
## HISTORICAL K-4, 5-6, 7-8, 9-12 ENROLLMENT
## 2014-2019



PUPILS (y-axis)

K-4  $y = -8.8571x + 1783$

9-12  $y = -10.714x + 1091.3$

5-6  $y = 24.571x + 509.33$

7-8  $y = 9.7429x + 520.4$

YEAR

|  | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 |
|---|---|---|---|---|---|---|
| K-4 | 1760 | 1776 | 1755 | 1756 | 1754 | 1711 |
| 5-6 | 560 | 538 | 570 | 598 | 642 | 664 |
| 7-8 | 535 | 547 | 544 | 532 | 588 | 581 |
| 9-12 | 1091 | 1077 | 1046 | 1044 | 1006 | 1059 |
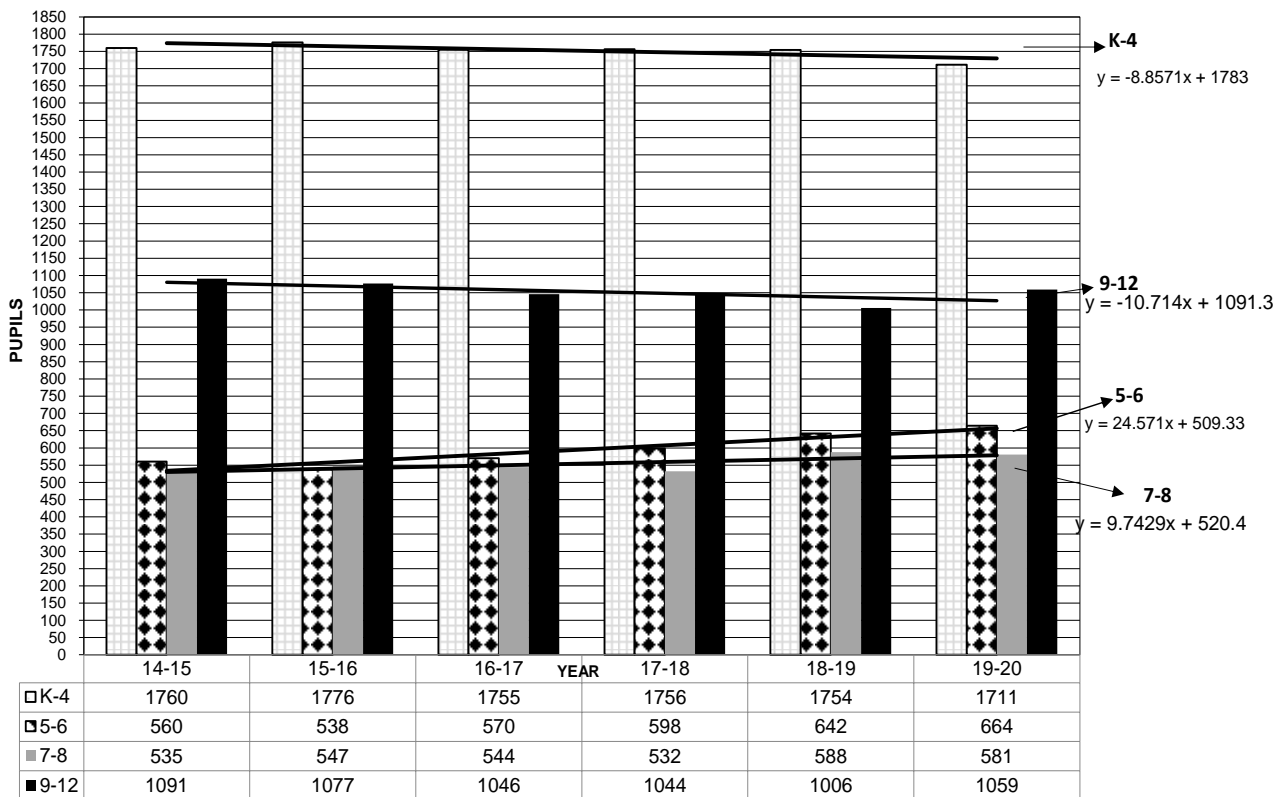
*Charts Four, Five, Six, Seven, Eight, Nine, and Ten* graphically represent the net percentage changes in enrollment from 2014 through 2019 for grades K-12, K-6, 7-12, K-4, 5-6, 7-8 and 9-12 enrollments respectively.

**CHART FOUR: WATERTOWN CITY SD**
**K-12 ENROLLMENT CHANGE 2014-2019**

| | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total K-12 Enrollment | -0.20% | -0.58% | 0.38% | 1.53% | 0.63% |
| Year-to-Year Student Enrollment Change K-12 | -8 | -23 | 15 | 60 | 25 |
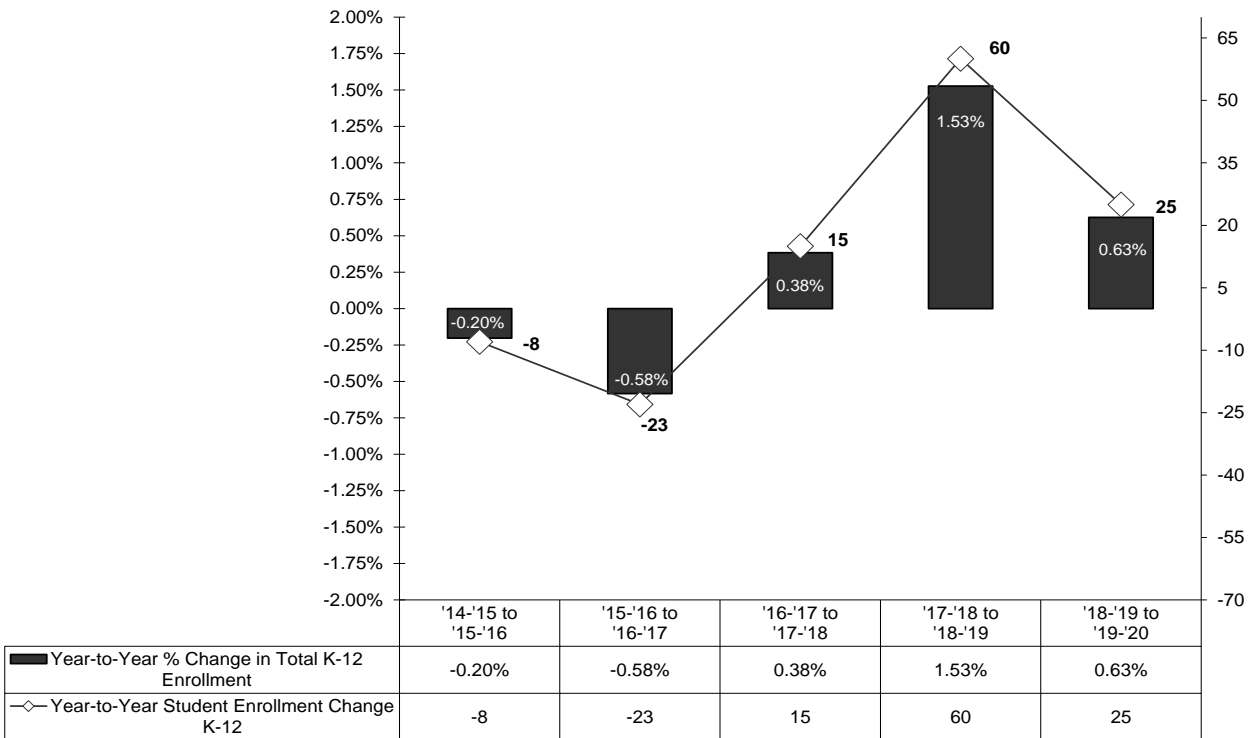
**CHART FIVE: WATERTOWN CITY SD**
**K-6 ENROLLMENT CHANGE 2014-2019**

| | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total K-6 Enrollment | -0.26% | 0.48% | 1.25% | 1.78% | -0.88% |
| Year-to-Year Student Enrollment Change K-6 | -6 | 11 | 29 | 42 | -21 |

5
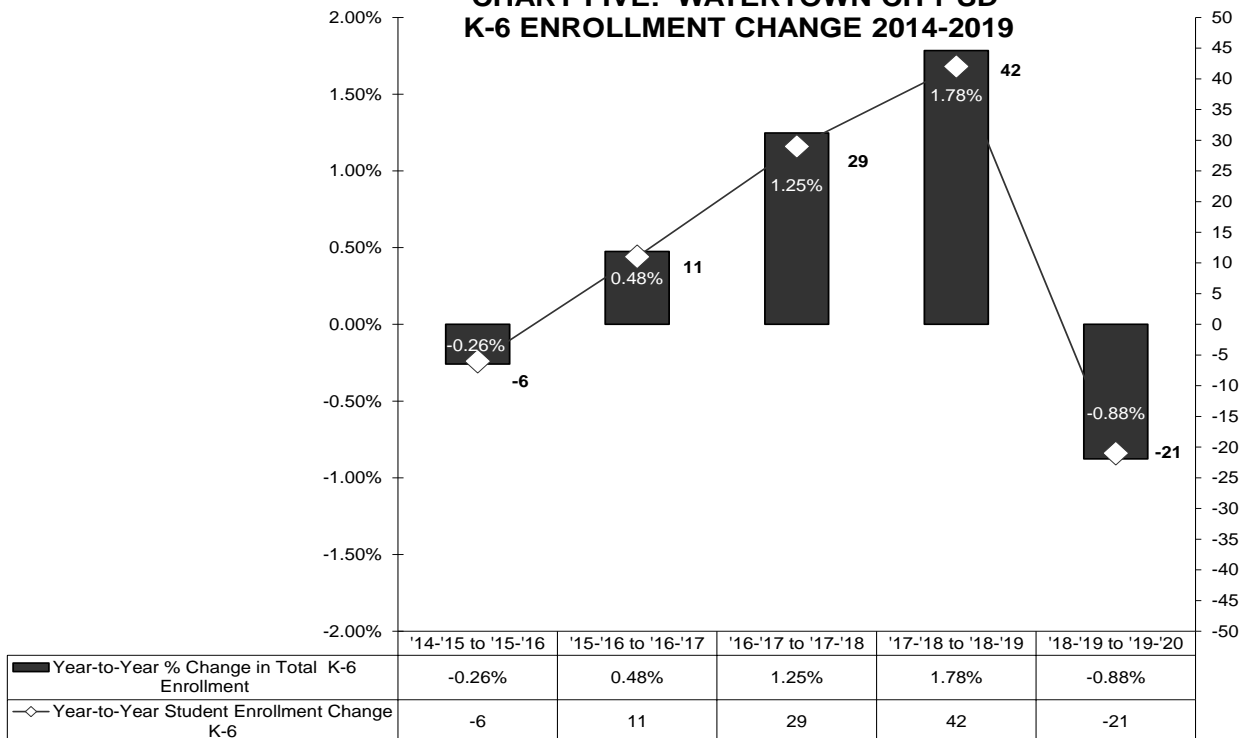
## CHART SIX:  WATERTOWN CITY SD GRADES 7-12 ENROLLMENT CHANGE 2014-2019



| | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total 7-12 Enrollment | -0.12% | -2.09% | -0.88% | 1.14% | 2.89% |
| Year-to-Year Student Enrollment Change 7-12 | -2 | -34 | -14 | 18 | 46 |
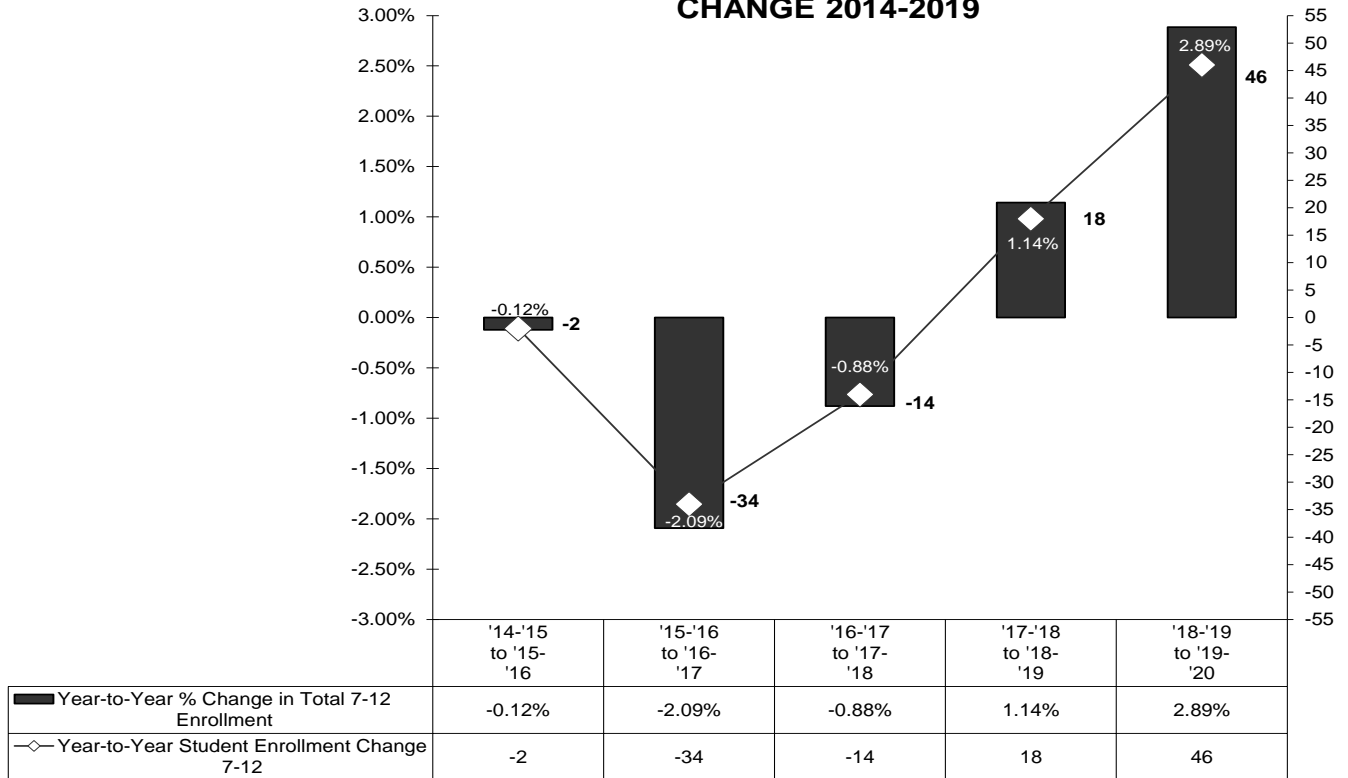
## CHART SEVEN:  WATERTOWN CITY SD GRADES K-4 ENROLLMENT CHANGE 2014-2019



| | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total K-4 Enrollment | 0.91% | -1.18% | 0.06% | -0.11% | -2.45% |
| Year-to-Year Student Enrollment Change K-4 | 16 | -21 | 1 | -2 | -43 |

6
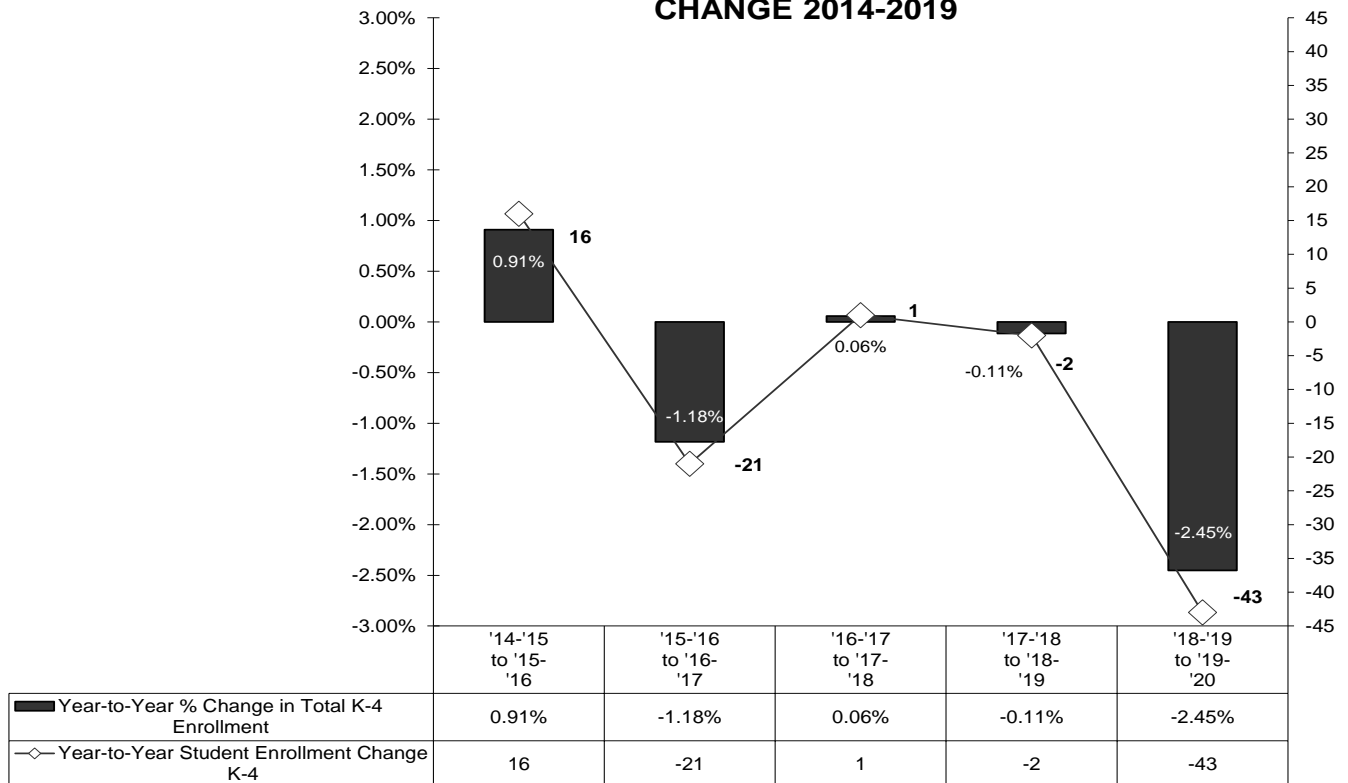
## CHART EIGHT: WATERTOWN CITY SD GRADES 5-6 ENROLLMENT CHANGE 2014-2019

|  | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total 5-6 Enrollment | -3.93% | 5.95% | 4.91% | 7.36% | 3.43% |
| Year-to-Year Student Enrollment Change 5-6 | -22 | 32 | 28 | 44 | 22 |
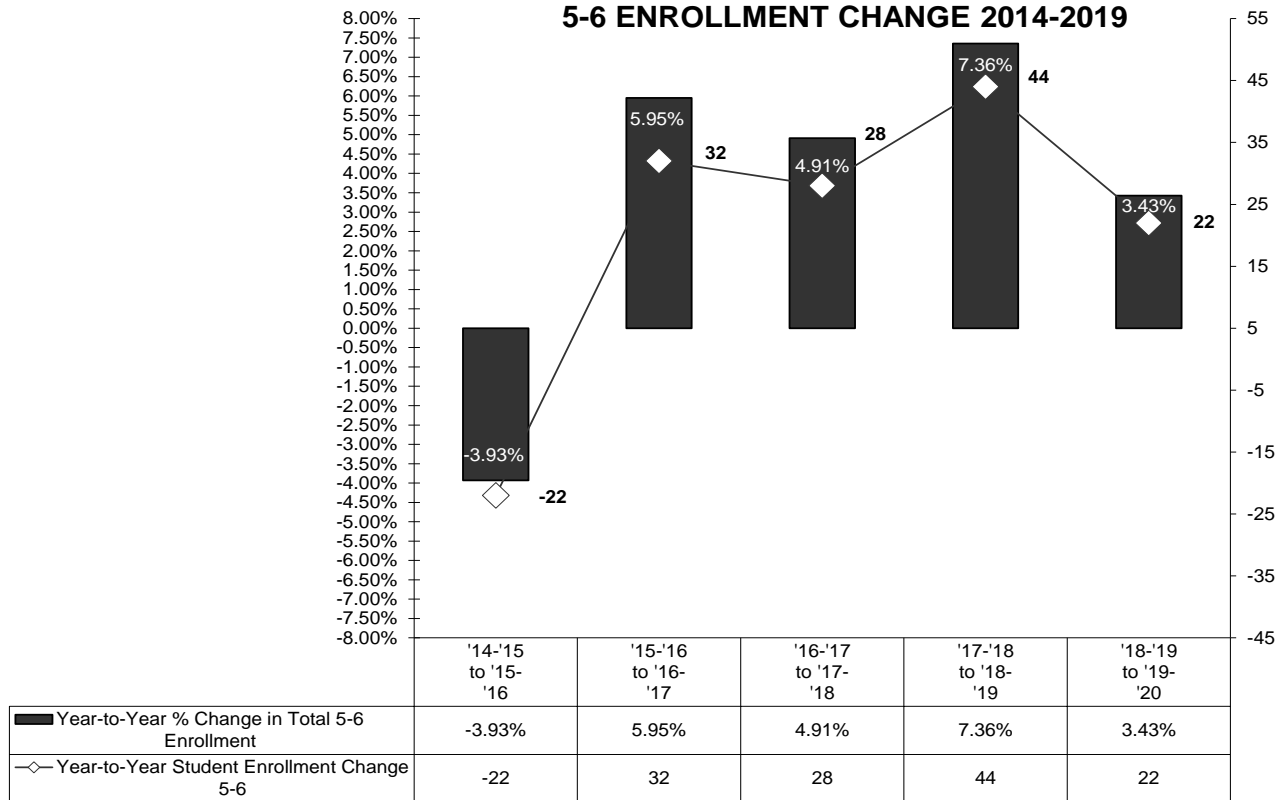
## CHART NINE: WATERTOWN CITY SD GRADES 7-8 ENROLLMENT CHANGE 2014-2019

|  | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total 7-8 Enrollment | 2.24% | -0.55% | -2.21% | 10.53% | -1.19% |
| Year-to-Year Student Enrollment Change 7-8 | 12 | -3 | -12 | 56 | -7 |

7
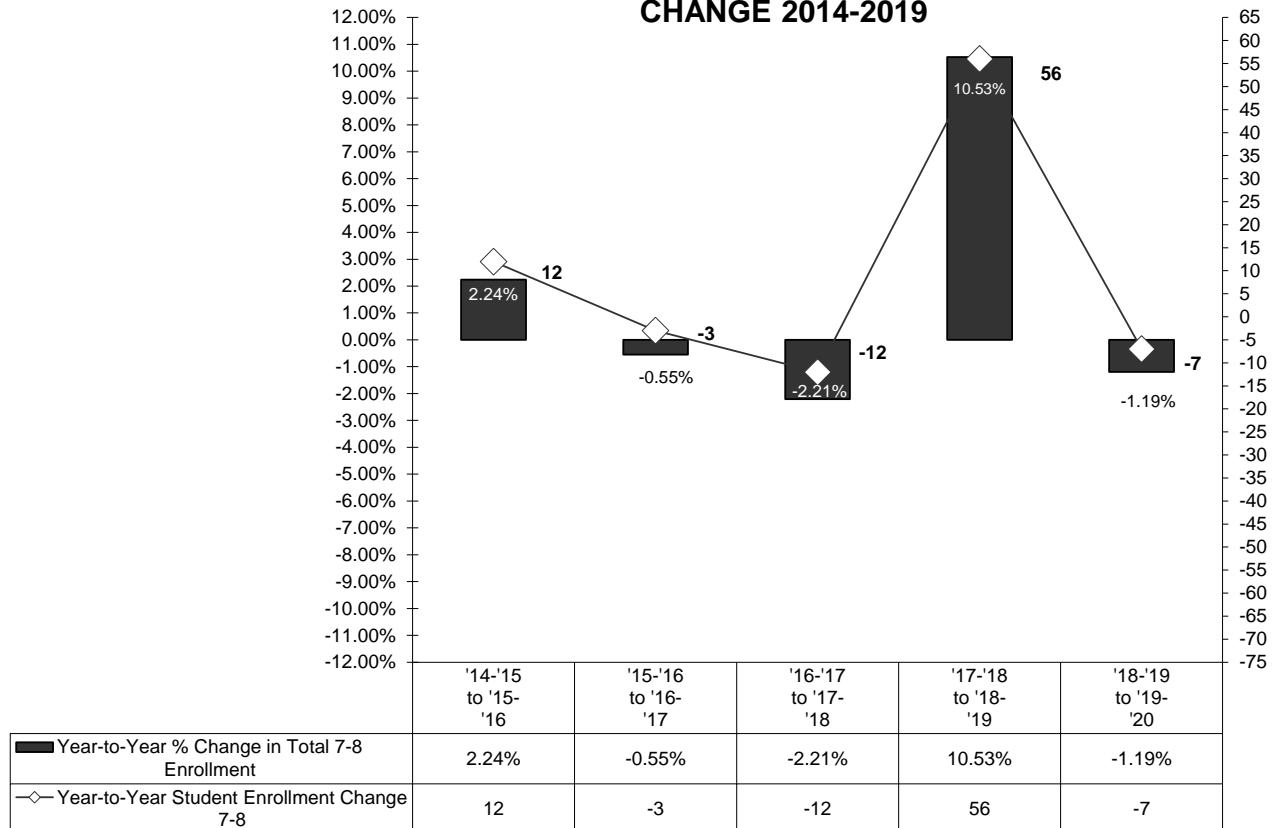
**CHART TEN: WATERTOWN CITY SD GRADES 9-12 ENROLLMENT CHANGE 2014-2019**



| | '14-'15 to '15-'16 | '15-'16 to '16-'17 | '16-'17 to '17-'18 | '17-'18 to '18-'19 | '18-'19 to '19-'20 |
|---|---|---|---|---|---|
| Year-to-Year % Change in Total 9-12 Enrollment | -1.28% | -2.88% | -0.19% | -3.64% | 5.27% |
| Year-to-Year Student Enrollment Change 9-12 | -14 | -31 | -2 | -38 | 53 |
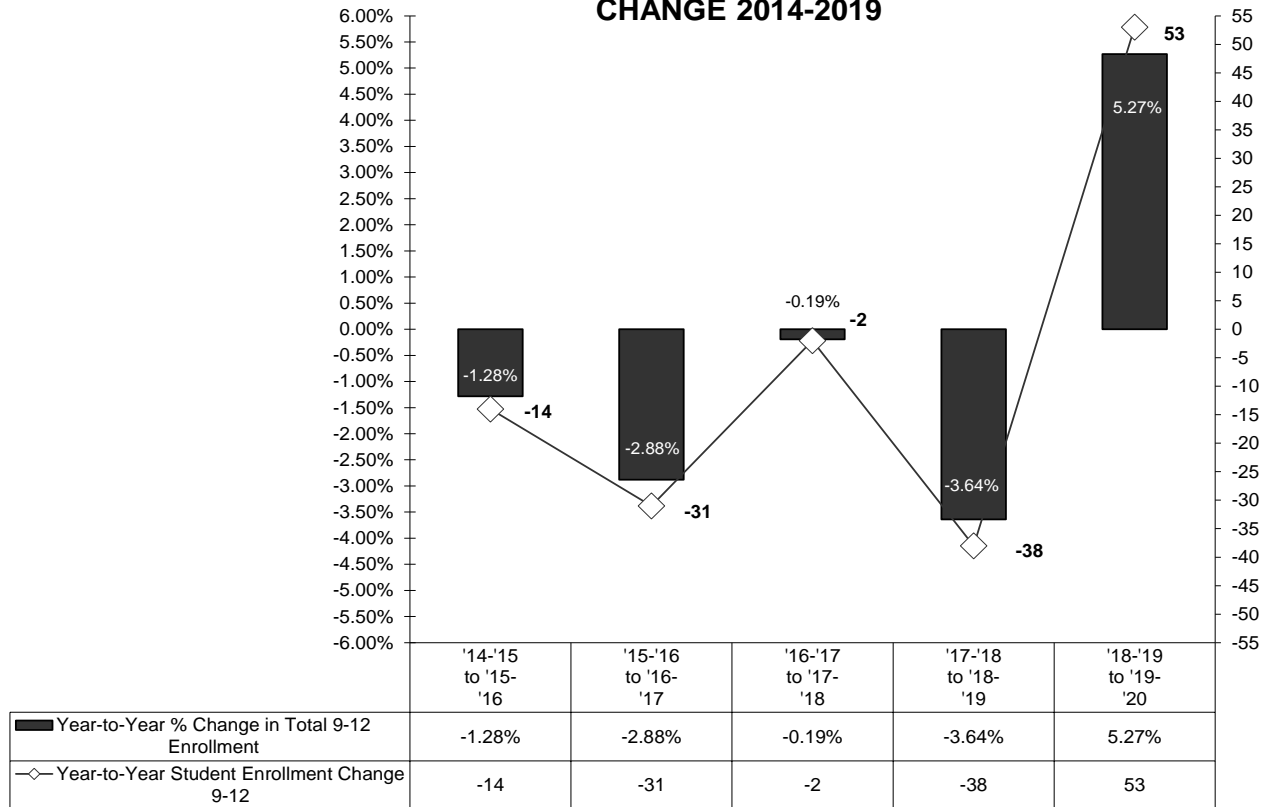
## DISTRICT ENROLLMENT AREA AND DISTRICT LIVE BIRTHS

*Table 1* below lists live birth data from 2002 through 2018 for the geographic area of the Watertown School District; Jefferson County; and of the towns that make up the 'catchment area' of the school district. The NYS Health Department geocodes annual live birth data for the State. The data support a trend analysis of the pattern of the yearly live birth totals attributed to the school district. *Table 2* lists the annual Watertown kindergarten enrollments since 2002.

8

**TABLE 1**
**LIVE BIRTHS IN THE CATCHMENT AREA SERVED BY THE**
**WATERTOWN CITY SCHOOL DISTRICT**
**AS REPORTED BY THE NEW YORK STATE DEPARTMENT OF HEALTH**
**2002-2018**

| TOWN | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | *preliminary* | |
| **BIRTHS IN EACH MUNICIPALITY** | | | | | | | | | | | | | | | | | | |
| Jefferson County | | | | | | | | | | | | | | | | | | |
| LeRay | 419 | 534 | 377 | 525 | 418 | 444 | 656 | 599 | 674 | 727 | 780 | 805 | 721 | 761 | 649 | 737 | | 9826 |
| Pamelia | 31 | 32 | 32 | 41 | 30 | 30 | 46 | 43 | 38 | 40 | 56 | 64 | 58 | 54 | 37 | 49 | | 681 |
| Rutland | 36 | 21 | 27 | 29 | 31 | 38 | 35 | 48 | 41 | 46 | 41 | 48 | 4 | 43 | 27 | 36 | | 551 |
| Watertown | 30 | 33 | 29 | 43 | 44 | 42 | 42 | 27 | 38 | 37 | 54 | 44 | 75 | 80 | 42 | 67 | | 727 |
| Watertown City | 413 | 466 | 390 | 489 | 47 | 513 | 571 | 564 | 568 | 554 | 571 | 543 | 539 | 499 | 512 | 492 | | 7731 |
| **TOTAL BIRTHS IN CATCHMENT AREA** | | | | | | | | | | | | | | | | | | |
| TOWNS | 929 | 1086 | 855 | 1127 | 570 | 1067 | 1350 | 1281 | 1359 | 1404 | 1502 | 1504 | 1397 | 1437 | 1267 | 1381 | | 18135 |
| **NYS HEALTH DEPARTMENT** | | | | | | | | | | | | | | | | | | |
| 'LIVE BIRTHS BY SCHOOL DISTRICT' | 440 | 503 | 417 | 531 | 515 | 551 | 628 | 614 | 608 | 604 | 654 | 603 | 615 | 581 | 556 | 567 | 513 | 9500 |
| **DISTRICT/CATCHMENT AREA TOWNS** | | | | | | | | | | | | | | | | | | |
| LIVE BIRTH RATIO | 47.36% | 46.32% | 48.77% | 47.12% | 90.35% | 51.64% | 46.52% | 47.93% | 44.74% | 43.02% | 43.54% | 40.09% | 44.02% | 40.43% | 43.88% | 41.06% | | |
| | | | | | | | | | | | | | SIX YEAR RATIO: | | | | | 42.13% |
| **JEFFERSON COUNTY** | | | | | | | | | | | | | | | | | | |
| TOTAL BIRTHS | 1,545 | 1,704 | 1,511 | 1,808 | 1,675 | 1,784 | 2,127 | 1,995 | 2,071 | 2,113 | 2,277 | 2,206 | 2,081 | 2,088 | 1,887 | 2,005 | | 30877 |

**TABLE 2**
**KINDERGARTEN ENROLLMENT OF WATERTOWN CITY SCHOOL DISTRICT**
**2002-2019**

| 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 321 | 349 | 339 | 371 | 390 | 406 | 385 | 379 | 345 | 399 | 416 | 400 | 403 | 420 | 375 | 367 | 381 | 363 |

*Figure One* on the next page charts the live birth data for Jefferson County since 2008. The annual total of live births in the County has trended downward from 2008 to 2017. From 2008 through 2017 there were 122 fewer births in Jefferson County or a decrease of -5.7% over ten years.

## FIGURE ONE:  JEFFERSON COUNTY
## LIVE BIRTHS 2008-2017

$y = -11.733x + 2149.5$

| | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---|---|---|---|---|---|---|---|---|---|---|
| JEFFERSON COUNTY | 2,127 | 1,995 | 2,071 | 2,113 | 2,277 | 2,206 | 2,081 | 2,088 | 1,887 | 2,005 |
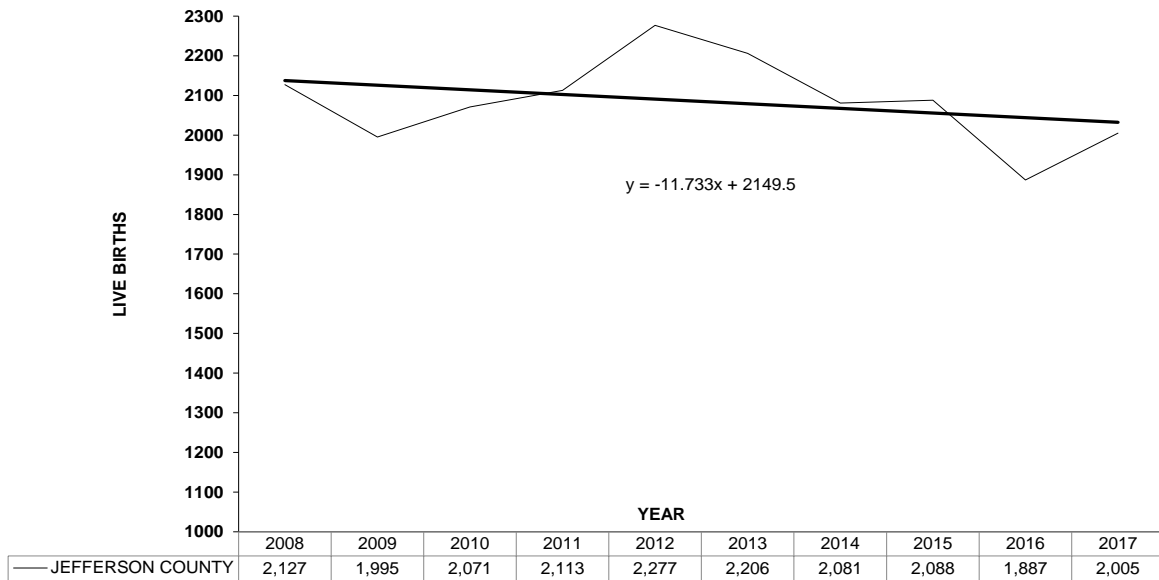
*Figure Two* illustrates the live births of the Watertown School District from 2009-2018.

## FIGURE TWO: LIVE BIRTHS IN THE
## WATERTOWN CITY SCHOOL DISTRICT
## ENROLLMENT AREA
## 2009-2018

$y = -9.9576x + 646.27$

Will the pattern of live births of the district over the past ten years continue in the next five years?

| 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 |
|---|---|---|---|---|---|---|---|---|---|---|
| 614 | 608 | 604 | 654 | 603 | 615 | 581 | 556 | 567 | 513 PRELIMINARY |

10
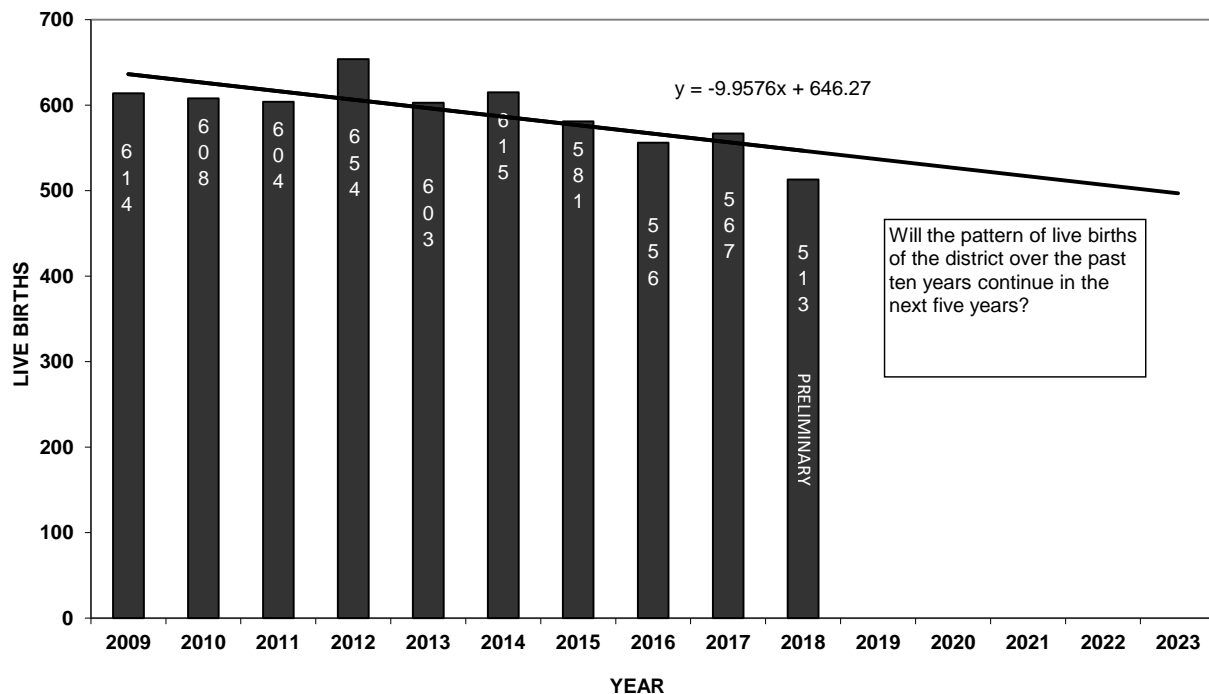
The pattern of live births in the enrollment area of the Watertown School District from 2008 through 2018 is decreasing. The range over ten years is from a high 654 in 2012 to a low of 513 preliminarily in 2018. A comparison of the live births total in 2018 with the total in 2009 shows a change over ten years of -101 or -16.5%. *Will the negative historical pattern of live births in the Watertown School District service area shown in **Figure Two** for the ten years since 2009 continue for the next five years from 2019 through 2023?*

*Figure Two-A* illustrates the pattern of live births in the Watertown School District over the past six years from 2013-2018. Viewing the live birth data over the past six years instead of ten illustrates the most current influence of demographic variables that may affect the annual number of live births in the school district. In 2013 there were 603 live births within the boundaries of the Watertown School District. In 2018, preliminarily, there were 513; a reduction of -14.9%. *Will the negative historical pattern of live births since 2013 in the Watertown School District service area shown in **Figure Two-A** continue for the next five years through 2023?*

## FIGURE TWO-A: LIVE BIRTHS IN THE WATERTOWN CITY SCHOOL DISTRICT ENROLLMENT AREA 2013-2018



y = -17.686x + 634.4

Will the pattern of live births of the district over the past six years continue in the next five years?

11
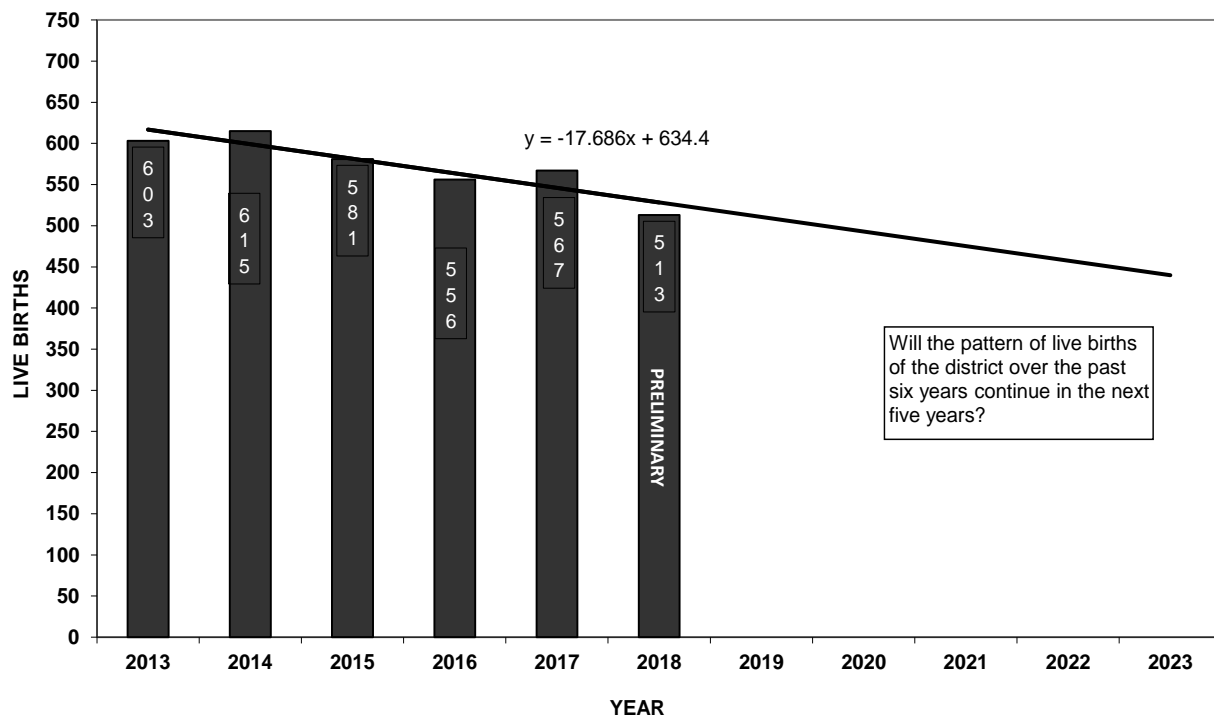
*Figure Three* below charts the pattern of live births over the past six years for Jefferson County, the 'catchment area' towns of the district, and the school district in one illustration.  The trend lines demonstrate the difference in the rates of live birth patterns in the school district, the towns in which the district is located, and the County as a whole.  The three patterns of live births in the three geographic areas are decreasing since 2012.  The pattern of live births since 2012 in the school district *enrollment area* is decreasing at a slower rate compared to the 'catchment towns area' or to the County as a whole.

**FIGURE THREE: WATERTOWN CITY SCHOOL DISTRICT ENROLLMENT AREA, CATCHMENT AREA, and  JEFFERSON COUNTY BIRTH TRENDS 2012-2017**



JEFFERSON COUNTY

$y = -66x + 135048$

CATCHMENT AREA TOWNS

$y = -36.457x + 74858$

WATERTOWN CITY SCHOOL DISTRICT

$y = -17.429x + 35706$
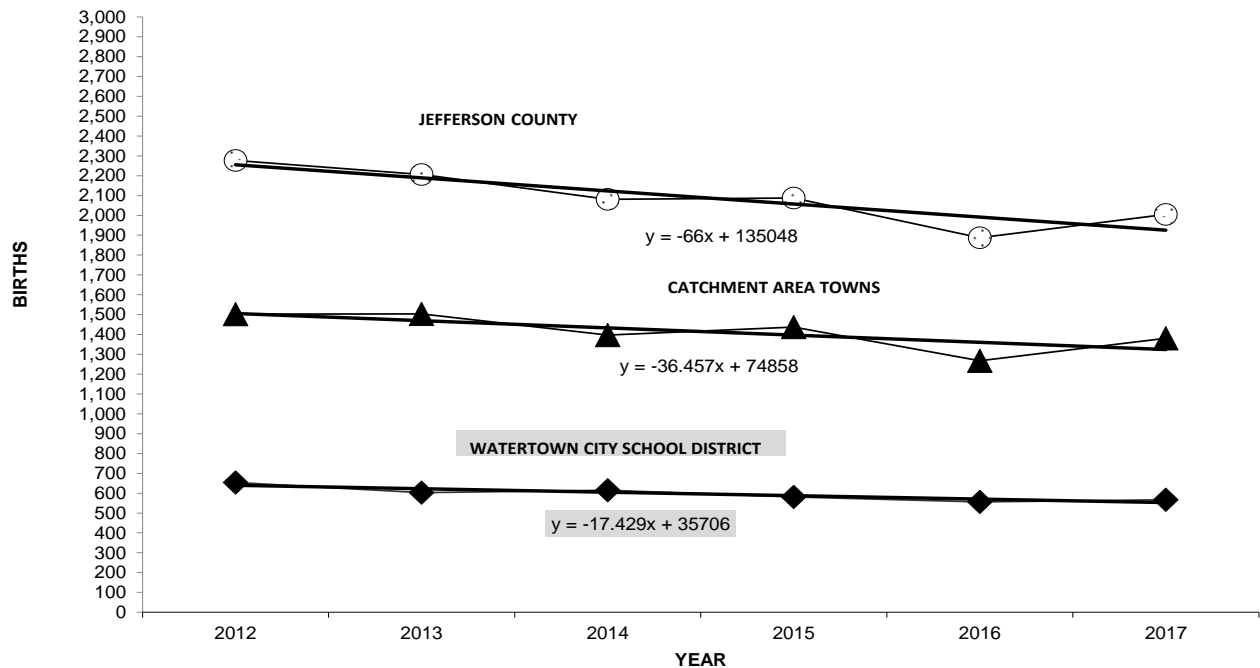
## DISTRICT KINDERGARTEN ENROLLMENTS AND DISTRICT LIVE BIRTHS

*Figure Four* below charts the Watertown School District kindergarten enrollment from 2010 through 2019.  The pattern illustrates a decreasing kindergarten enrollment pattern over 10 years; -1.3455 slope. The range of change over the ten years is from a low of 345 kindergarten enrollments in 2010 to a high of 420 kindergarten enrollments in 2015.  *Will the decreasing pattern of kindergarten enrollment since 2010 in the Watertown School District continue into the future?*

## FIGURE FOUR: WATERTOWN CITY SCHOOL DISTRICT KINDERGARTEN ENROLLMENT 2010-2019



Bar chart of kindergarten enrollment 2010–2019 with values: 2010: 345, 2011: 399, 2012: 416, 2013: 400, 2014: 403, 2015: 420, 2016: 375, 2017: 367, 2018: 381, 2019: 368. Trend line $y = -1.3455x + 394.8$. Text box: "Will the pattern of kindergarten enrollments over the past ten years continue in the next five years?"
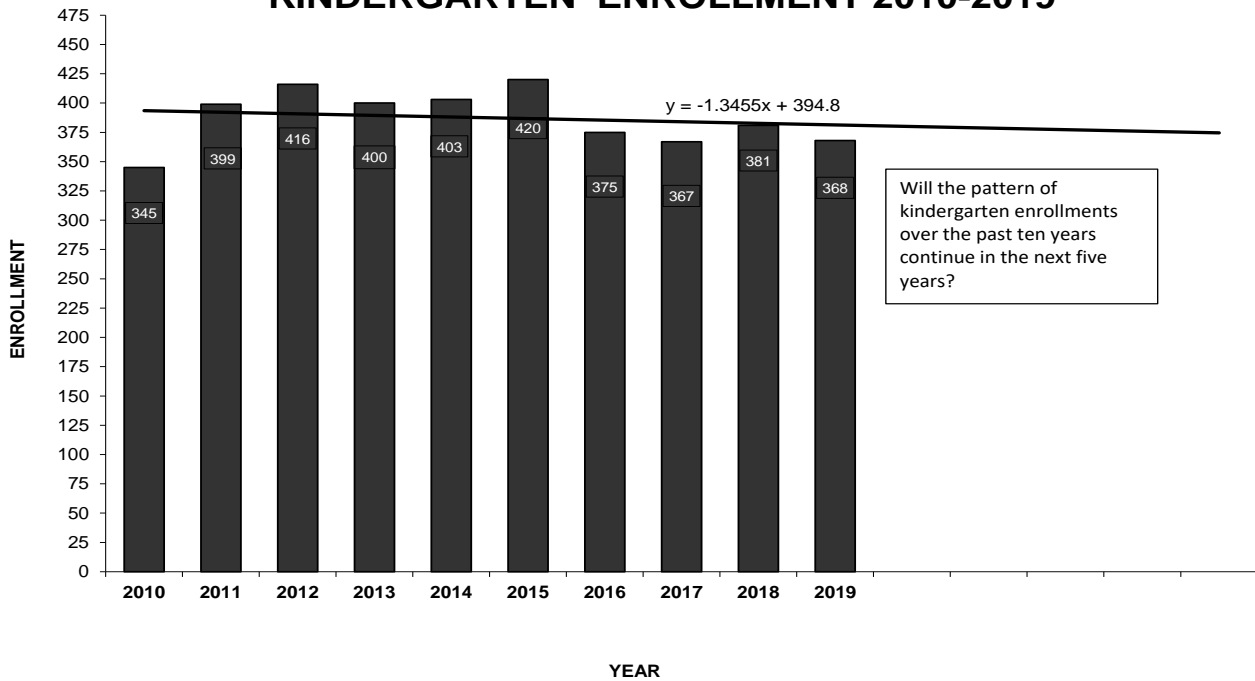
*Figure Five* below charts the Watertown School District kindergarten enrollment for the past six years from 2014 through 2019. There is a sharper decreasing pattern of annual kindergarten enrollments over the past six school years (slope -8.57) compared to viewing enrollment data over the past ten years (slope of -1.3455). *Will the decreasing pattern of kindergarten enrollment over the past six years since 2014 continue into the future?*

## FIGURE FIVE: WATERTOWN CITY SCHOOL DISTRICT KINDERGARTEN ENROLLMENT 2014-2019



Bar chart of kindergarten enrollment 2014–2019 with values: 2014: 403, 2015: 420, 2016: 375, 2017: 367, 2018: 381, 2019: 363. Trend line $y = -9.2857x + 417.33$. Text box: "Will the pattern of kindergarten enrollments over the past six years continue in the next five years?"
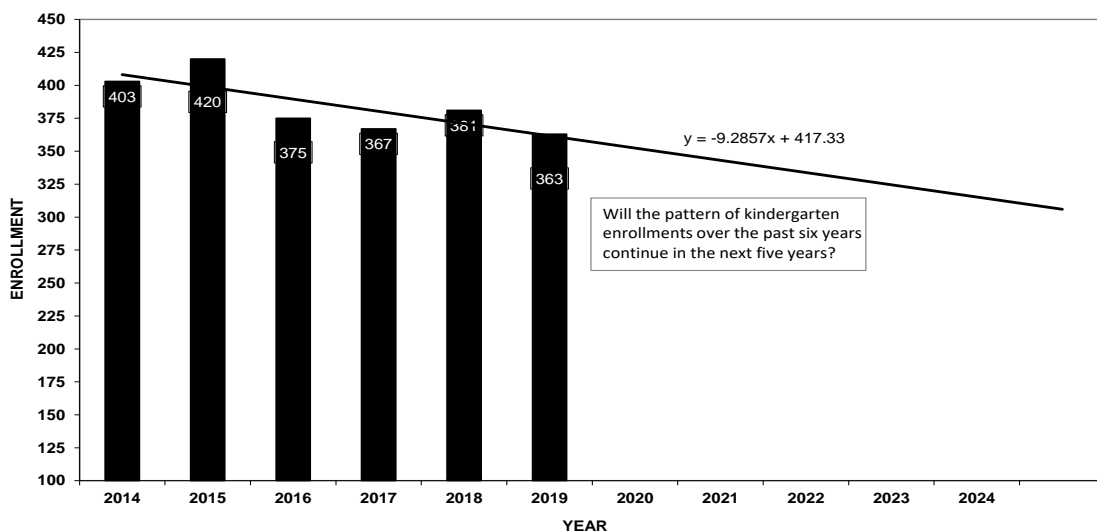
One way to suggest possible answers to the questions is to compare the pattern of kindergarten enrollments of Watertown City with the documented live births recorded for the school district enrollment area five years earlier each kindergarten enrollment year.  Reliable annual live birth data for the school district does not exist before 2002.  Therefore, comparing kindergarten enrollment numbers with births five years earlier in the district can only reliably be done for from 2007-2019.  *Given the annual kindergarten-live-birth ratios from 2007-2019, can the pattern of those ratios suggest what might be the kindergarten enrollments in years 2020 through 2024?*

*Figure Six* illustrates the pattern of kindergarten enrollments and the pattern of live births five years earlier each enrollment year.  Note that historically there have been many more births in the district five years earlier each kindergarten enrollment year.  This can partly be due to households with children who have heads of household who also are Fort Drum military personnel who are relocated before a pre-schooler can enroll as a Watertown kindergartner.  A second factor is the number of households with children who choose a private school or home-schooled setting instead of enrollment in the public school district.   The Watertown resident births and of Watertown kindergarten enrollments both have increasing patterns since 2007.  However, the gap between the number of live births five years earlier and kindergarten enrollments has increased steadily since 2007.  Since 2007, live births have a positive increasing slope of +6.7 and kindergarten enrollments since 2002 have a lower positive increasing slope of +2.2.  *Does the pattern viewed over eighteen years exist if the data from the last ten years is viewed in the same manner?*

**FIGURE SIX: PATTERN OF KINDERGARTEN ENROLLMENT AND THE PATTERN OF LIVE BIRTHS FIVE YEARS EARLIER IN THE WATERTOWN CITY SCHOOL DISTRICT 2002-2019**



WILL THE RATIO BETWEEN K ENROLLMENT AND LIVE BIRTHS FIVE YEARS EARLIER CONTINUE INTO THE FUTURE? WHAT FACTORS MIGHT INFLUENCE THE RATIO?

LIVE BIRTHS
$y = 6.652x + 465.7$

'delta' difference

$y = 2.1579x + 357.78$
K ENROLLMENT

KINDERGARTEN ENROLLMENT
LIVE BIRTHS FIVE YEARS EARLIER

*Figure Six-A* illustrates the pattern of kindergarten enrollments and the pattern of live births five years earlier each enrollment year over ten years from 2010-2019.

**FIGURE SIX-A: PATTERN OF KINDERGARTEN ENROLLMENT AND THE PATTERN OF LIVE BIRTHS FIVE YEARS EARLIER IN THE WATERTOWN CITY SCHOOL DISTRICT 2010-2019**



WILL THE RATIO BETWEEN K ENROLLMENT AND LIVE BIRTHS FIVE YEARS EARLIER CONTINUE INTO THE FUTURE? WHAT FACTORS MIGHT INFLUENCE THE RATIO?

LIVE BIRTHS
$y = 0.2066x + 579.88$

'delta' difference

K ENROLLMENT
$y = -1.6182x + 395.8$

KINDERGARTEN ENROLLMENT
LIVE BIRTHS FIVE YEARS EARLIER

15
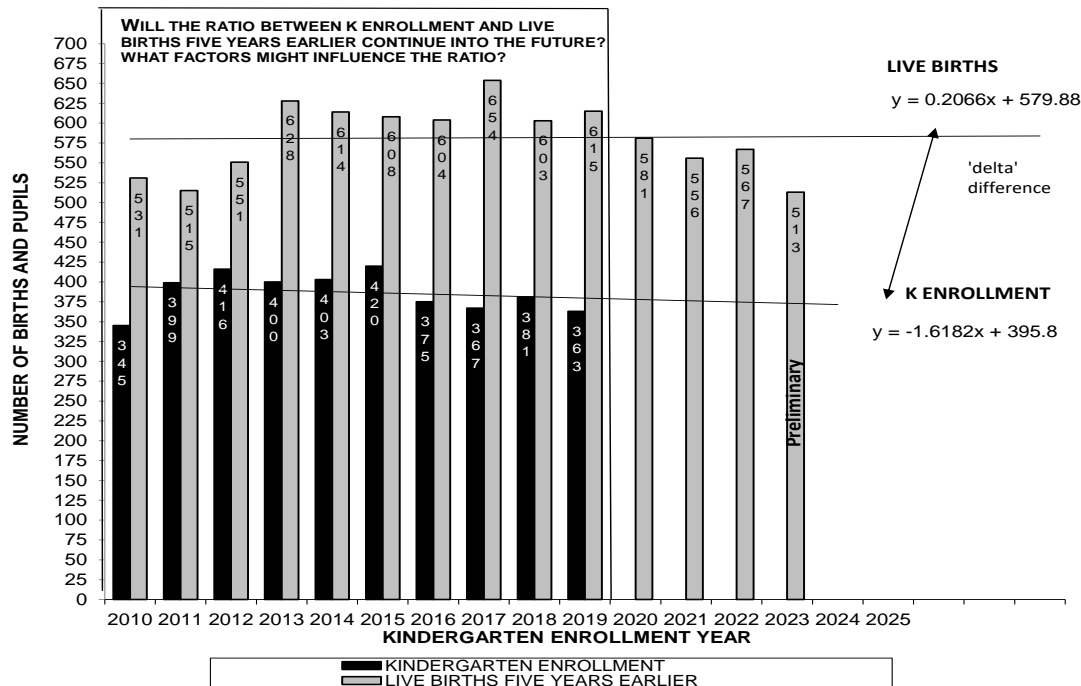
Over the set of years 2010-2019 in *Figure Six-A*, the pattern of annual live births is increasing (slope: +.21).  The live births pattern is at a slower rate than viewing the data over the past eighteen years (slope +6.7) as shown in *Figure Six*.  Even though district *live births* have a slightly *increasing* pattern since 2005-2014, the pattern of *kindergarten enrollments* from 2010 through 2019 is *decreasing* (slope -1.62). *Does the pattern viewed over ten years exist if the data from the most recent set of six years are viewed in the same manner?*

*Figure Six-B* below illustrates the pattern of kindergarten enrollments and the pattern of live births five years earlier each enrollment year over the most recent six years from 2014-2019.



FIGURE SIX-B:  PATTERN OF KINDERGARTEN ENROLLMENT AND THE PATTERN OF LIVE BIRTHS FIVE YEARS EARLIER IN THE WATERTOWN CITY SCHOOL DISTRICT  2014-2019
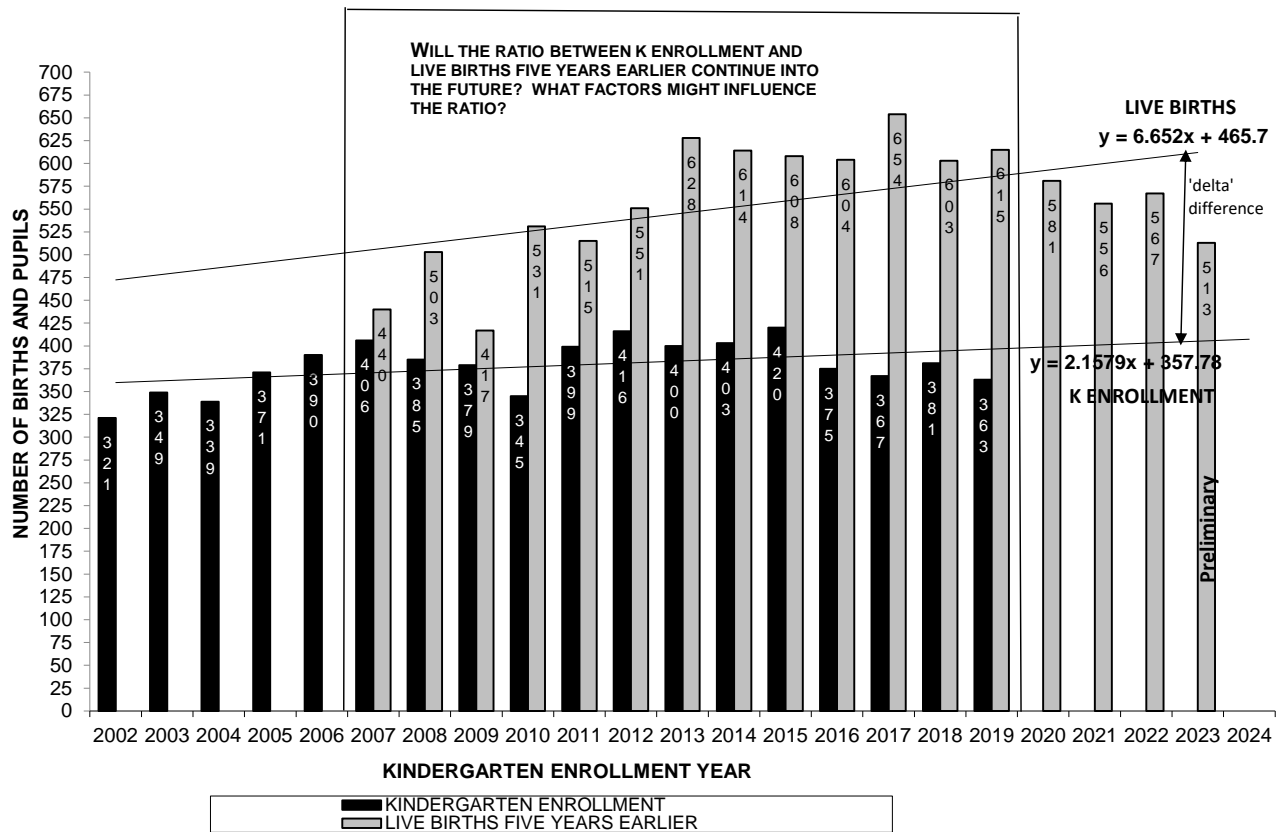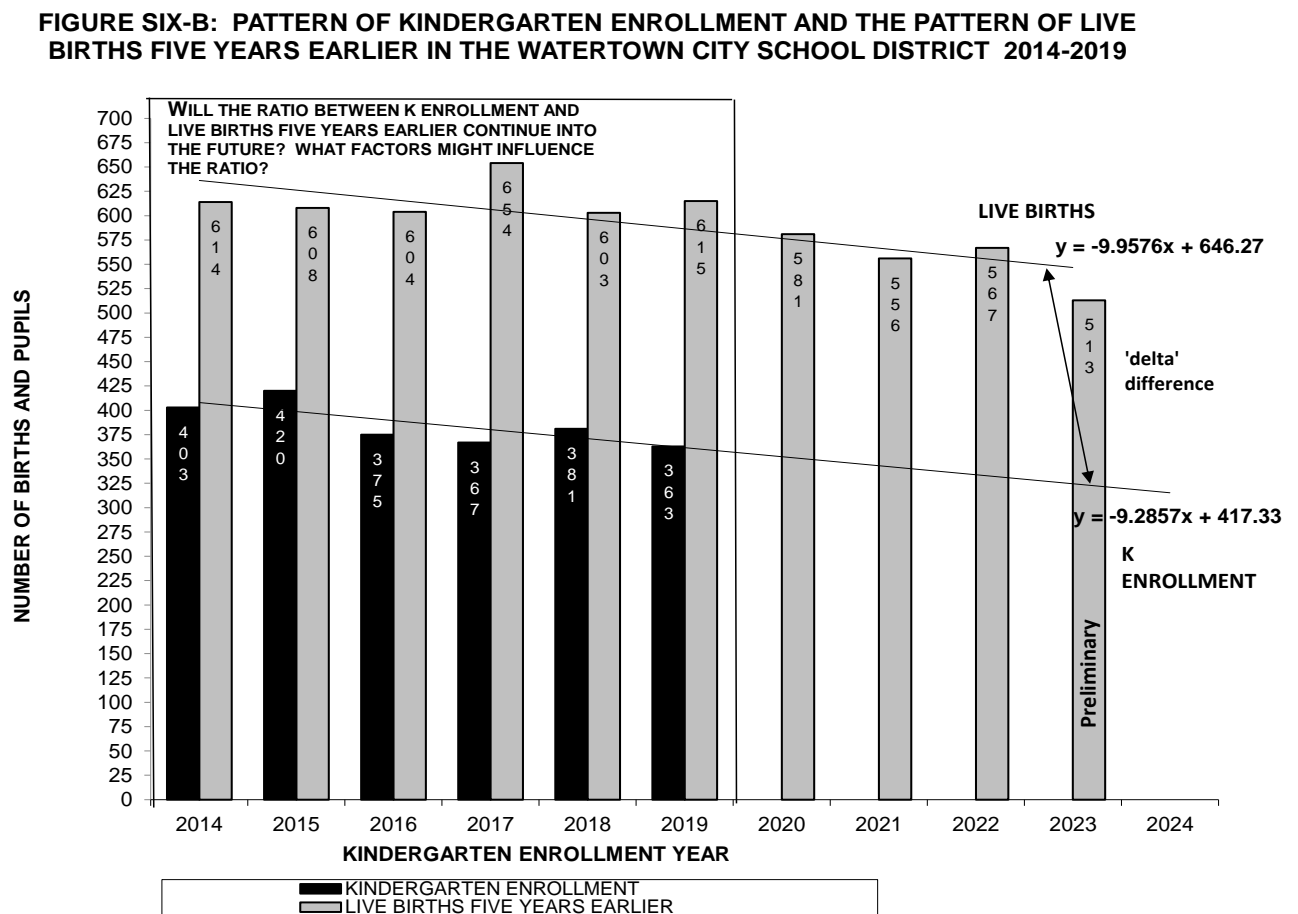
Note that both the pattern of live births in the district and the pattern of kindergarten enrollments five years later are in decline.  Over the past six years the rate of decline of kindergarten enrollments (slope: -9.29) is similar to the rate of decline of live births in the district (slope: -9.95). The district continues to have a large set of households with children born in the district who do not enroll in kindergarten at Watertown because they move from the district or enroll children in a nonpublic setting.  *Figure Six-B*

illustrates the consistent and parallel decline in the number of annual live births and the number of kindergarteners enrolled five years later. This suggests that the residence of pre-school children born elsewhere is not influencing an increase in kindergarten enrollments over the past six years. *Figures Six, Six-A,* and *Six-B* encourage planning discussion of some 'what ifs' and possible future kindergarten enrollments:

1. 'What if' the pattern of live births in the district by households continues to decrease annually, and the number of new households *with pre-school children* born elsewhere move to the district in lower numbers? In higher numbers?
2. 'What if' the historical pattern of live births continues to decrease, and the number of new military households *with children over age five* move to the district in the same pattern since at least 2014? In an increasing pattern? In a decreasing pattern?
3. 'What if' the historical pattern of live births continues to decrease, and the number of new military households with children with *pre-school children* move to the district in the same pattern since at least 2014? In an increasing pattern? In a decreasing pattern?
4. "What if" the number private school or home school enrollments annually increase? Decrease?

The live birth data officially recorded by the NYS Health Department do provide a documented population factor that can be charted and statistically used to forecast estimated future kindergarten enrollments in the school district. There are no data to identify which specific kindergarten enrollments from 2007 through 2019 were of children not born in the enrollment area served by Watertown. Similarly, there are no data to determine specifically how many children born in the school district enrollment area in the years 2002-2014 moved from the area and, therefore, did not enroll in Watertown kindergarten classes for each year from 2007 through 2019. The study initially assumes that the migration of students both into and out of the town and the district will continue in a similar manner as it has during the years since 2002.

The *base cohort* enrollment projection calculations of the study assume the live birth trends and kindergarten trends described above will continue in the same pattern into the future.

## KINDERGARTEN ENROLLMENT FORECASTS

Estimating future kindergarten enrollments is the most speculative aspect of projecting K-12 enrollments. However, analyzing historical annual kindergarten enrollments in concert with historical annual live birth data and patterns do reveal a set of defendable estimates of future kindergarten enrollments. These estimated future kindergarten enrollments can be included in the base cohort survival statistic application to project future K-12 enrollments.

In order to forecast future kindergarten enrollments, *Table 3* on the next page first compares the Watertown kindergarten annual enrollments from 2007 to 2019 to the annual live births in the school district from 2002 to 2014. Ratios are calculated to determine the annual historical pattern of kindergarten enrollment in the Watertown School District compared to all the children born five years earlier in the enrollment area served by the school district. The mathematical comparison of each annual kindergarten enrollment with the total live births five years earlier in the Watertown enrollment area results in a set of ratios. For example, in 2018 there were 361 students enrolled in the kindergarten class. In 2013, there were 603 live births in the enrollment area of the school district. A ratio of .598673 results from comparing the 2018 kindergarten enrollment of 361 students with the 606 total live births five years earlier. That is, about 60% of the year 2013 live births in the Watertown enrollment area became Watertown kindergarten pupils in 2018. From 2005 through 2014, there were 5923 births in the Watertown enrollment area. From 2010 through 2019, there were 3854 kindergarten enrollments. The live-birth-kindergarten ratio for this ten-year period is .650684. That is, about 65% of the children born in the Watertown City School District attendance area from 2005 to 2014 enrolled as kindergarten pupils at Watertown from 2010-2019. The ten year median is .64. The average is .654 The annual live-birth-kindergarten ratios are subject to at least four variables: one, the number of live births resident in the district; two, the number of preschoolers born in the district who move from the district and do not enroll at Watertown; three, the number of preschoolers who move to the district and enroll in the district for kindergarten; and four, the number of preschoolers born in the district or move to the district who do not attend public school for kindergarten.

**TABLE 3**

**RATIOS OF KINDERGARTEN ENROLLMENTS (2007-2019)**
**OF THE WATERTOWN CITY SCHOOL DISTRICT**
**AND LIVE BIRTHS FIVE YEARS EARLIER (2002-2014)**
**IN THE ENROLLMENT AREA**
**OF THE DISTRICT**

| COMPARISON YEARS | K ENROLL | LIVE BIRTHS ENROLLMENT AREA | KIND/ BIRTHS RATIO |
|---|---|---|---|
| 2007 K STUDENTS TO 2002 BIRTHS | 406 | 440 | 0.922727 |
| 2008 K STUDENTS TO 2003 BIRTHS | 385 | 503 | 0.765408 |
| 2009 K STUDENTS TO 2004 BIRTHS | 379 | 417 | 0.908873 |
| 2010 K STUDENTS TO 2005 BIRTHS | 345 | 531 | 0.649718 |
| 2011 K STUDENTS TO 2006 BIRTHS | 399 | 515 | 0.774757 |
| 2012 K STUDENTS TO 2007 BIRTHS | 416 | 551 | 0.754991 |
| 2013 K STUDENTS TO 2008 BIRTHS | 400 | 628 | 0.636943 |
| 2014 K STUDENTS TO 2009 BIRTHS | 403 | 614 | 0.656352 |
| 2015 K STUDENTS TO 2010 BIRTHS | 420 | 608 | 0.690789 |
| 2016 K STUDENTS TO 2011 BIRTHS | 375 | 604 | 0.620861 |
| 2017 K STUDENTS TO 2012 BIRTHS | 367 | 654 | 0.561162 |
| 2018 K STUDENTS TO 2013 BIRTHS | 361 | 603 | 0.598673 |
| 2019 K STUDENTS TO 2014 BIRTHS | 368 | 615 | 0.598374 |

HISTORICAL LIVE BIRTH RATIOS
2010-2019

$y = -0.0162x + 0.7435$



## Low, Mid, and High Kindergarten Enrollment Estimates

The historical kindergarten enrollments of the Watertown School District and historical live birth data are analyzed three ways. The three analyses form the basis for three kindergarten enrollment forecasts. The three kindergarten forecasts are used to develop Low, Mid, and High K-12 enrollment projection calculations. One forecast (*Table 4*) of future kindergarten enrollments assumes that the live births in the school district enrollment area will continue in the same pattern as it has for the past ten years since 2009. It also assumes that the kindergarten-enrollment–to-live-birth ratio for the ten years from 2010-2019 is a historically based ratio that is possible to expect in the future. Forecast scenario one is the basis for the

*high-range* enrollment projection calculations *with a view* of *five years into the future for the elementary grades.*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **TABLE 4** | | | | | | | |
| PROJECTED WATERTOWN CITY SCHOOL DISTRICT 2020-2029 KINDERGARTEN ENROLLMENTS BASED UPON (A) THE EXPONENTIAL TREND ANALYSIS OF THE TEN YEAR HISTORICAL PATTERN OF ENROLLMENT AREA LIVE BIRTHS FROM 2009 THROUGH 2018 AND (B) THE RATIO DERIVED FROM THE TEN YEAR TOTAL ENROLLMENT AREA LIVE BIRTHS ('05'14) AND TOTAL DISTRICT KINDERGARTEN ENROLLMENTS ('10-'19) | | | | | | | |

| YEAR | PROJECTED K-ENROLL. | | YEAR | LIVE BIRTHS ENROLL. AREA | | K-ENROLL TO LIVE BIRTH RATIO '10-'19 | |
|---|---|---|---|---|---|---|---|
| **2020** | 378 | | **2015** | 581 | | 0.650684 | |
| **2021** | 362 | | **2016** | 556 | | 0.650684 | |
| **2022** | 369 | | **2017** | 567 | | 0.650684 | |
| **2023** | 334 | | **2018** | 513 | *preliminary* | 0.650684 | |
| | | | | | | | |
| | | | | **PROJECTED LIVE BIRTHS** | | | |
| | | | | | | | |
| **2024** | 347 | | **2019** | 533 | | 0.650684 | |
| **2025** | 341 | | **2020** | 523 | | 0.650684 | |
| **2026** | 335 | | **2021** | 514 | | 0.650684 | |
| **2027** | 329 | | **2022** | 505 | | 0.650684 | |
| **2028** | 323 | | **2023** | 496 | | 0.650684 | |
| **2029** | 317 | | **2024** | 487 | | 0.650684 | |

**ESTIMATED FUTURE KINDERGARTEN ENROLLMENTS SCENARIO I**

$y = -5.9152x + 402.13$

HISTORICAL

PROJECTED

**PREMISE FOR HIGH RANGE ESTIMATE**

A second forecast of estimated future kindergarten enrollments (***Table 5)*** assumes that the live births in the school district enrollment area will continue in the same pattern as it has for the past six years from 2013-2018. The forecast also assumes that the median kindergarten-enrollment-live-birth ratio derived from 2014 through 2019 is a historically based ratio that is possible to expect in the future. Forecast scenario two is the basis for the *mid-range* enrollment projection calculations *with a view of five years into the future for the elementary grades.*

**TABLE 5**
**PROJECTED WATERTOWN CITY SCHOOL DISTRICT 2020-2029 KINDERGARTEN ENROLLMENTS BASED UPON (A) THE EXPONENTIAL TREND ANALYSIS OF THE SIX YEAR HISTORICAL PATTERN OF ENROLLMENT AREA LIVE BIRTHS FROM 2013 THROUGH 2018, AND (B) THE MEDIAN OF THE SIX YEAR KINDERGARTEN TO LIVE BIRTH RATIOS FROM 2014-2019**

| YEAR | PROJECTED K-ENROLL. | YEAR | LIVE BIRTHS ENROLL. AREA | | K-ENROLL TO LIVE BIRTH EST. RATIO | |
|------|------|------|------|------|------|---|
| 2020 | 354 | 2015 | 581 | | 0.60977 | |
| 2021 | 339 | 2016 | 556 | | 0.60977 | |
| 2022 | 346 | 2017 | 567 | | 0.60977 | |
| 2023 | 313 | 2018 | 513 | preliminary | 0.60977 | |
| | | | **PROJECTED LIVE BIRTHS** | | | |
| 2024 | 312 | 2019 | 511 | | 0.60977 | |
| 2025 | 302 | 2020 | 496 | | 0.60977 | |
| 2026 | 293 | 2021 | 481 | | 0.60977 | |
| 2027 | 284 | 2022 | 467 | | 0.60977 | |
| 2028 | 276 | 2023 | 453 | | 0.60977 | |
| 2029 | 268 | 2024 | 439 | | 0.60977 | |



ESTIMATED FUTURE KINDERGARTEN ENROLLMENTS SCENARIO II

$y = -9.9758x + 411.87$
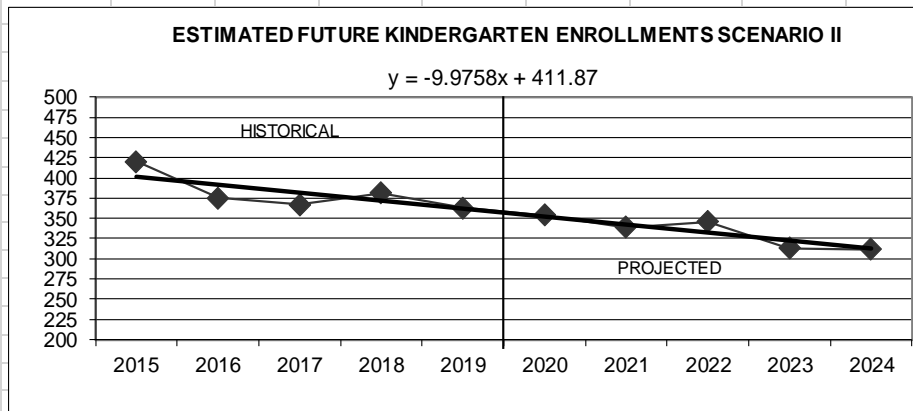
PREMISE FOR MID-RANGE ESTIMATE

A third forecast of kindergarten enrollments assumes that future kindergarten enrollments will follow the historical pattern of kindergarten enrollments from 2014 through 2019 *without* reference to historical live birth trends or kindergarten-to-live-birth ratio patterns (***Table 6***). Forecast scenario three is the basis for the *low range* enrollment projection *calculations with a view of five years into the future for the elementary grades.*

## TABLE 6
### PROJECTED WATERTOWN CITY SCHOOL DISTRICT
### 2020-2029 KINDERGARTEN ENROLLMENTS
### BASED UPON AN EXPONENTIAL TREND ANALYSIS
### OF THE HISTORICAL PATTERN OF KINDERGARTEN ENROLLMENT
### DATA FOR THE PAST SIX YEARS 2014-2019

| YEAR | PROJECTED K-ENROLL. | YEAR | LIVE BIRTHS ENROLL. AREA | EST. K-ENROLL TO ENROLL. AREA LIVE BIRTH RATIO |
|---|---|---|---|---|
| 2020 | 348 | 2015 | 581 | 0.598693 |
| 2021 | 339 | 2016 | 556 | 0.609208 |
| 2022 | 330 | 2017 | 567 | 0.581726 |
| 2023 | 321 | 2018 | 513 preliminary | 0.626101 |
| | | | **PROJECTED LIVE BIRTHS** | |
| 2024 | 313 | 2019 | | |
| 2025 | 305 | 2020 | | |
| 2026 | 297 | 2021 | | |
| 2027 | 289 | 2022 | | |
| 2028 | 281 | 2023 | | |
| 2029 | 274 | 2024 | | |

**ESTIMATED FUTURE KINDERGARTEN ENROLLMENTS SCENARIO III**

$y = -10.103x + 411.27$



PREMISE FOR LOW RANGE ESTIMATE
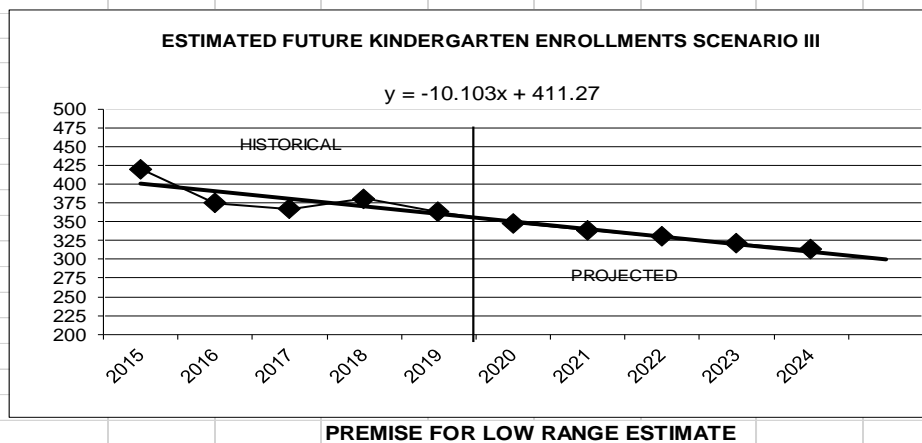
## Summary of the Low, Mid, and High* Kindergarten Enrollment Baseline Estimates

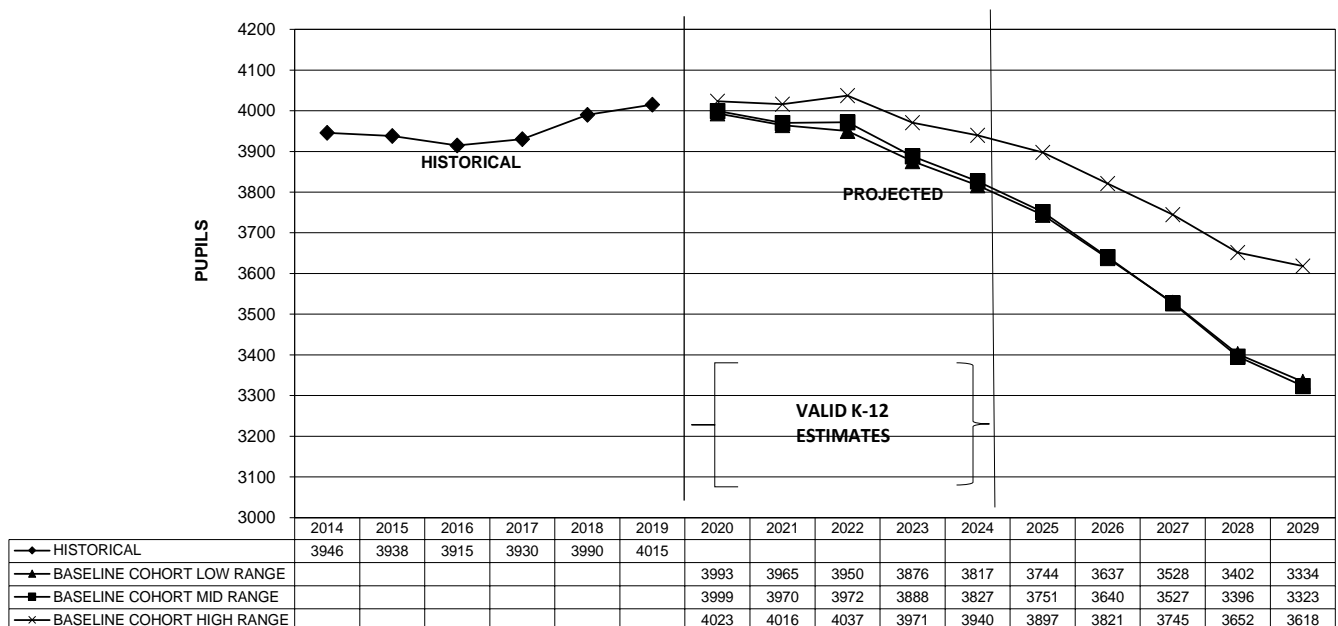| Historical Kindergarten Enrollments | | Estimated Kindergarten Enrollment Estimate Scenarios | | | |
|---|---|---|---|---|---|
| | | School Year | LOW* | MID* | HIGH* |
| **2015** | 403 | **2020** | *348* | *354* | *378* |
| **2016** | 420 | **2021** | *339* | *339* | *362* |
| **2017** | 375 | **2022** | *330* | *346* | *369* |
| **2018** | 367 | **2023** | *321* | *313* | *334* |
| **2019** | 381 | **2024** | *313* | *312* | *347* |
| | | | | | |
| **Five Year Average** | 389 | | 330 | 333 | 358 |
| **Five Year Median** | 381 | | 330 | 339 | 362 |

**\*Note:  Low, Mid, High refers to and are defined by the estimates for <u>total K-6</u> enrollment five years from now; see pages 44 summary.**

## BASELINE K-12 ENROLLMENT PROJECTIONS

*Tables 7A, B,* and *C* in *Appendix B* present Low, Mid, and High range K-12 enrollment projections calculated using the cohort survival statistic. Each calculation is based on historical K-12 enrollments as reported by the school district for each of the school years 2014-2015 through 2018-2019. The historical enrollment data are used to calculate 'percentage of survival' ratios for each grade level K-12. The ratios quantify the rate of change in number of students in a particular grade level compared to the number of students in the next higher grade level in the following year. The 'survival ratios' are averaged for each grade level from 2014-2015 through 2019-2020. The six-year average ratios for each grade level are used to calculate estimated future grade 1-12 enrollments through 2029-30. As noted earlier in the study, the best tools for planning are the enrollment projections for grades K-6 over the next five years; for grades 7-8 over the next eight years; and for grades 9-12 over the next ten years.

The chart below illustrates the low, mid, and high K-12 enrollment projections for the years 2020-2021 through 2029-2030 applying the cohort survival statistic and the three forecast scenarios to estimate future kindergarten enrollments. *Please note that since the validity of kindergarten through grade 6 enrollment estimates extends only to five years into the future, the validity of K-12 estimates for 2025-2029 are not as strong as the K-12 estimates for 2020-2024.*

## GRADES K-12 ESTIMATED BASELINE COHORT ENROLLMENT PROJECTIONS 2020-2029 WATERTOWN CITY SCHOOL DISTRICT



| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HISTORICAL | 3946 | 3938 | 3915 | 3930 | 3990 | 4015 | | | | | | | | | | |
| BASELINE COHORT LOW RANGE | | | | | | | 3993 | 3965 | 3950 | 3876 | 3817 | 3744 | 3637 | 3528 | 3402 | 3334 |
| BASELINE COHORT MID RANGE | | | | | | | 3999 | 3970 | 3972 | 3888 | 3827 | 3751 | 3640 | 3527 | 3396 | 3323 |
| BASELINE COHORT HIGH RANGE | | | | | | | 4023 | 4016 | 4037 | 3971 | 3940 | 3897 | 3821 | 3745 | 3652 | 3618 |

## MIGRATION TO AND OUT OF THE DISTRICT

The historical 'percentage of survival ratios' from grade-to-grade in Tables *7A, B, and C* are reflective of the historical pattern of migration to and out of the school district. Charted below are the school year 'transferred in' and 'transferred out' K-12 pupil enrollment data for the past six years. The enrollment changes due to migration are reflected in the enrollment estimated calculations based on the historical pattern of grade level enrollments since 2014 and the rates of 'survival' of the total number of pupils in one grade level into the next grade level the next school year.

| | Total K-12 Migration | | | K-12 Enrollment | *Rate of Annual Migration* |
|---|---|---|---|---|---|
| | IN | OUT | Net Change | | |
| **2013-2014** | 560 | 1648 | -1088 | 3962 | 55.7% |
| **2014-2015** | 538 | 1501 | -963 | 3946 | 51.7% |
| **2015-2016** | 580 | 1287 | -707 | 3938 | 47.4% |
| **2016-2017** | 679 | 1134 | -455 | 3915 | 46.3% |
| **2017-2018** | 754 | 851 | -97 | 3930 | 40.8% |
| **2018-2019** | 352 | 113 | +239 | 3990 | 11.7% |
| | | | | | |
| **Total over Six School Years** | 3463 | 6534 | -3071 | Average | 42.3% |
| **Annual Average** | 577 | 1089 | -512 | Median | 46.9 % |
| **Annual Median** | 570 | 1211 | -581 | | |

**Observations and possible discussion questions:**

- There is a 'turnover' of about 43 out of 100 pupils annually over the past six years at Watertown K-12. Based on other studies of other districts, the annual Watertown Rates of K-12 Migration are very high. K-12 Rates of Migration are typically in the 8 to 12% range. It is usual to find the rate of annual migration at the elementary level to be on average higher than at other grade configurations.

- What are the resources necessary to achieve the logistics of in-out migration of pupils annually? How does the pupil 'turnover' influence the delivery of the program at the various grade levels particularly at grades K-4? What is the impact on pedagogy and program delivery to serve in-migration pupils after the school year starts?

- The district may want to begin to chart migration data sorted by K-4, 5-6, 7-8 and 9-12. In this way, the instructional team will have finer tuned data to help identify strategies and opportunities and challenges to deal with the high rate of student migration.

# DISTRICT ENROLLMENT AND HOME-SCHOOL/NON-PUBLIC ENROLLMENT

The district reports the following *historical non-public school enrollment data and home schooled data*
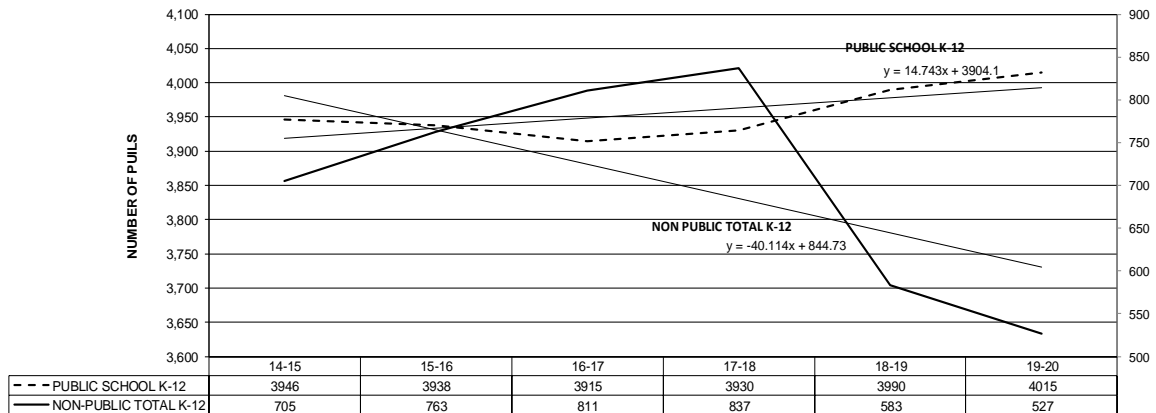for the school years 2014-2015 through 2017-2018.  There are no charter school enrollments.

| SCHOOL YEAR | NON-PUBLIC PRIVATE SCHOOL ENROLLMENT | | |
|---|---|---|---|
| | K-6 | 7-12 | TOTAL ENROLLMENT |
| 2014 | 331 | 288 | 619 |
| 2015 | 359 | 312 | 671 |
| 2016 | 353 | 348 | 701 |
| 2017 | 378 | 331 | 709 |
| 2018 | 263 | 213 | 476 |
| 2019 | 238 | 182 | 420 |
| SCHOOL YEAR | HOME SCHOOLED ENROLLMENT | | |
| | | | K-12 TOTAL ENROLLMENT |
| 2014 | | | 86 |
| 2015 | | | 92 |
| 2016 | | | 110 |
| 2017 | | | 128 |
| 2018 | | | 107 |
| 2019 | | | 107 |

The four year historical set of non-public and home schooled annual data suggests the following pattern.

| | 2014-2015 | | 2015-2016 | | 2016-2017 | | 2017-2018 | | 2018-2019 | | 2019-2020 | | mean | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K-12 Watertown City Public School Enrollment | 3946 | | 3938 | | 3915 | | 3930 | | 3990 | | 4015 | | 3956 | |
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| K-12 Private School | 619 | 15.7 | 671 | 17.1 | 701 | 17.9 | 709 | 18 | 476 | 11.9 | 420 | 10.5 | 599 | 15.2 |
| K-12 Home Schooled | 86 | 2.2 | 92 | 2.3 | 110 | 2.8 | 128 | 3.3 | 107 | 2.7 | 107 | 2.7% | 105 | 2.2 |
| | | | | | | | | | | | | | | |
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| K-12 All Non-public | 705 | 17.9 | 763 | 19.4 | 811 | 20.7 | 837 | 21.3 | 583 | 14.6 | 527 | 13.1 | 704 | 17.8 |

| | 2014-2015 | | 2015-2016 | | 2016-2017 | | 2017-2018 | | 2018-2019 | | 2019-2020 | | mean | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K-6 Watertown City Public School Enrollment | 2320 | | 2314 | | 2325 | | 2354 | | 2396 | | 2375 | | 2347 | |
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| K-6 Private School | 331 | 14.3 | 359 | 15.5 | 353 | 15.2 | 378 | 16.1 | 263 | 11 | 238 | 10 | 320 | 13.7 |

| | 2014-2015 | | 2015-2016 | | 2016-2017 | | 2017-2018 | | 2018-2019 | | 2019-2020 | | mean | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7-12 Watertown City Public School Enrollment | 1626 | | 1624 | | 1590 | | 1576 | | 1594 | | 1640 | | 1608 | |
| | # | % | # | % | # | % | # | % | # | % | # | % | # | % |
| 7-12 Private School | 288 | 17.7 | 312 | 19.2 | 348 | 21.9 | 331 | 21 | 213 | 13.4 | 182 | 11.1 | 279 | 17.4 |

## NON PUBLIC/PUBLIC SCHOOL K-12 ENROLLMENTS
## 2014-2019

PUBLIC SCHOOL K-12
$y = 14.743x + 3904.1$

NON PUBLIC TOTAL K-12
$y = -40.114x + 844.73$

| | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 |
|---|---|---|---|---|---|---|
| PUBLIC SCHOOL K-12 | 3946 | 3938 | 3915 | 3930 | 3990 | 4015 |
| NON-PUBLIC TOTAL K-12 | 705 | 763 | 811 | 837 | 583 | 527 |

## NON PUBLIC/HOME-SCHOOL ENROLLMENTS/PUBLIC SCHOOL
## ENROLLMENTS 2014-2019

PRIVATE SCHOOL K-6
PRIVATE SCHOOL 7-12
HOME SCHOOLED K-12

| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|
| PRIVATE SCHOOL K-6 | 331 | 359 | 353 | 378 | 263 | 238 |
| PRIVATE SCHOOL 7-12 | 288 | 312 | 348 | 331 | 213 | 182 |
| HOME SCHOOLED K-12 | 86 | 92 | 110 | 128 | 107 | 107 |
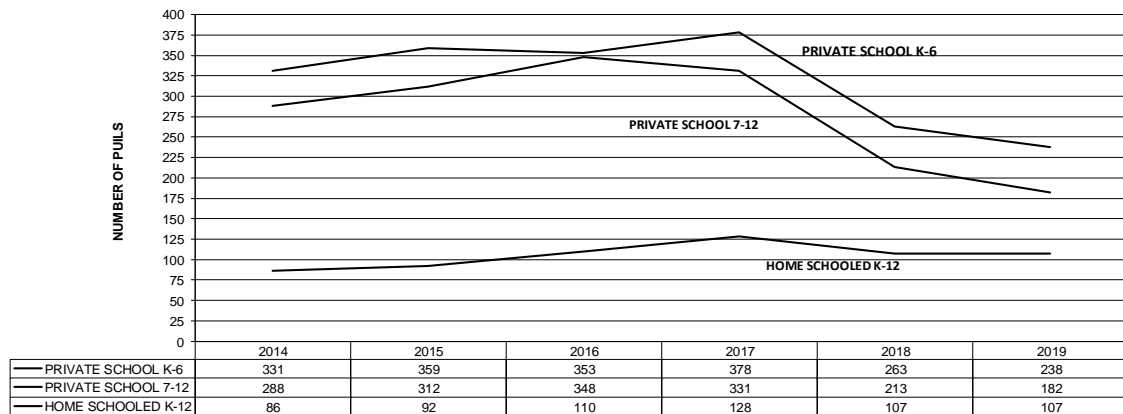
## PRIVATE/HOME-SCHOOL ENROLLNENTS
## AS A PERCENTAGE OF PUBLIC SCHOOL ENROLLMENT
## 2014-2019

TOTAL NON-PUBLIC K-12
PRIVATE SCHOOL 7-12
PRIVATE SCHOOL K-6
HOME SCHOOLED K-12

| | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | 19-20 |
|---|---|---|---|---|---|---|
| PRIVATE SCHOOL K-6 | 14.3% | 15.5% | 15.2% | 16.1% | 11.0% | 10.0% |
| PRIVATE SCHOOL 7-12 | 17.7% | 19.2% | 21.9% | 21.0% | 13.4% | 11.1% |
| HOME SCHOOLED K-12 | 2.2% | 2.3% | 2.8% | 3.3% | 2.7% | 2.7% |
| TOTAL NON-PUBLIC K-12 | 17.9% | 19.4% | 20.7% | 21.3% | 14.6% | 13.1% |

26
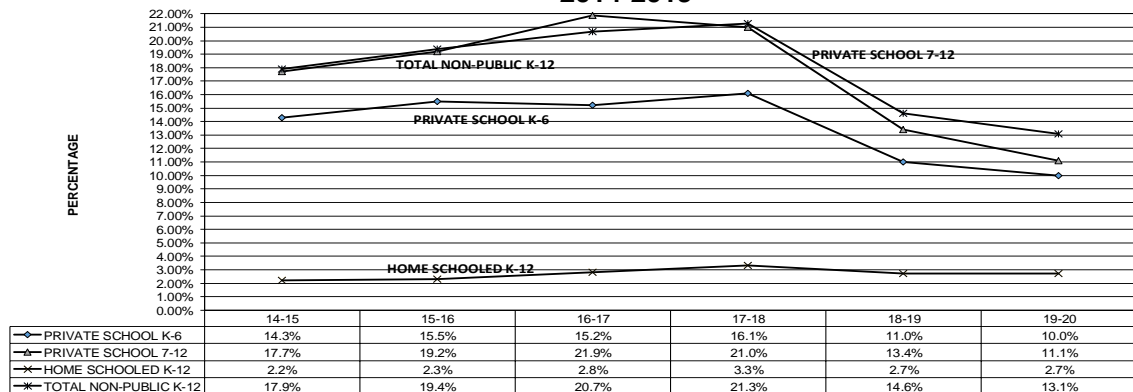
It is assumed that the private school and home-school enrollment data have already been incorporated into the pattern of historical public school enrollments since 2014. Total K-12 private school pupils represent an average of 17.8% of the public school enrollment for the past six school years. Home schooled enrollment averages about 2.2% of the K-12 public school enrollments for the same period. K-12 Non-public school enrollments have decreased while K-12 public school enrollment has increased slightly over the past six years.

No changes, at this time, are made to the baseline enrollment projection calculations because of the pattern of non-public or home schooled enrollments historical pattern since 2014. The district may wish to take a conservative approach in looking at future enrollment of new school-aged population generated by any future estimated influence of the family residence market in the district. A conservative assumption based on the pattern of non-public/home schooled enrollment over the past four years is that about 18% of any new school-aged population expected or estimated to move to the district will attend non-public settings instead of the public school system.

The ongoing attention by the district to track the private school, and home-schooled enrollment data enables the district to analyze the possible influence of non-public enrollments on future enrollment projections. It is suggested that efforts be given to contact families of K-12 pupils who have chosen to enroll their children in other schools or practice home schooling. Learning about the reasons for their non-district enrollment decisions may help the district choose various initiatives, if appropriate. Such information may be an added asset as the district, along with other agencies and businesses of the district, prepare welcoming information for new residents. A communication/information strategy with current non-public school families may encourage public school enrollment and parent comfort about switching children from a private school experience to the opportunities of instruction offered by Watertown as a public school. Such a strategy of communication and information also strengthens relationships with all taxpayers of the district regardless of where their children are enrolled.

## ENROLLED NON-RESIDENT STUDENTS

The Watertown School District allows the children of staff not resident to the school district to attend Watertown without tuition charge. It also allows tuition students on a limited basis. These non-resident enrollees are included in the historical enrollment data analyzed by the study.

## DISTRICT ENROLLMENT AND DROPOUT RATES/NON-COMPLETION RATES

Charted on the below are the non-completion rates/graduation rates from 2013 through 2018. Starting with the 2017-2018 report card, 'non-completion' numbers are not reported as part of the annual school district report card. Only graduation completion rates are reported.

### HIGH SCHOOL GRADUATION RATE FOR ALL WATERTOWN CITY STUDENTS

| YEAR | 4-YEAR COHORT NUMBER OF PUPILS | GRADUATION RATE IN FOUR YEARS | NUMBER NOT GRADUATED IN FOUR YEARS OF HIGH SCHOOL |
|---|---|---|---|
| 17-18 | 293 | 72% | 82 |
| 18-19 | 267 | 70% | 79 |

### HIGH SCHOOL NON-COMPLETION RATES FOR ALL WATERTOWN CITY STUDENTS*

| YEAR | # DROPPED OUT | # ENTERED GED PROGRAM | TOTAL NON-COMPLETERS |
|---|---|---|---|
| 16-17 | 40 | 14 | 54 |
| 15-16 | 43 | 18 | 61 |
| 14-15 | 22 | 31 | 53 |
| 13-14 | 36 | 24 | 60 |
| **Totals over six years** | | | **389** |

*Non-completion and GED rates are also recorded for 'Students with Disabilities' and 'General Education Students' separately by the SED. The rates are combined in this summary chart and are reflective of 'All Students'.

The graduation rate, dropout rate and the 'non-completer' rate protocol are factors to review as part of enrollment projection studies. The factors give insight about how many students leave enrollment before they become high school completers. A source of added school district enrollment is the success of the school district through program and academic intervention efforts in keeping existing enrollment as long as possible to culminate in high school graduation. Enrollment of students in a GED course of study is not viewed by SED as a program and academic intervention to keep enrollees in the 'public school system' since such GED enrollees are identified as 'noncompleters.' The State Education Department graduation data charted above shows that Watertown averages about 65 non-completers per school year. The district provides ongoing coordinated efforts to help all pupils complete graduation requirements.

Watertown has committed program and Academic Intervention curriculum/staff efforts to achieve the New York State academic standards and graduation requirements for all students. Some elements of the comprehensive effort to help ensure the graduation of all students also include:

- The District provides a Math Lab and a learning Center at the high school for pupils in need of extra help and academic support.
- A summer program called 'Bridges' is provided to incoming grade 9 pupils to help them to prepare learning skills and goals for high school. The program began in 2015.
- An interactive computer based system called Plato helps pupils to accrue credits and recover course credits.
- The Massey Learning Center was created for pupils who have a medical leave or have behavior problems hindering their attendance in the traditional program.

No changes, at this time, are made to the baseline enrollment projection calculations because of the potential of decreasing the number of non-completers in the future. The ongoing discussion in the district about how to help all pupils succeed may identify other elements of the Academic Intervention Program K-12 that may reduce the on-average 65 non-completers annually.

## PERSPECTIVE OF THE CURRENT HOUSING MARKET IN THE SCHOOL DISTRICT

A step in preparing this study is to interview one or more realtors referred by the school district as community respected real estate professionals knowledgeable about the housing market in the Watertown School District. Mr. Lance Evans, Executive Officer of the Jefferson-Lewis Board of Realtors, was interviewed to gain insights about the housing market within the school district. The study thanks Mr. Evans for his time and professional perspective.

During the 22 months from 1/1/18-10/31/19 there were 569 sales in the school district. 449 were in the City of Watertown and 120 were in towns outside of the City; 57 in town of Le Ray, 4 in Pamelia, 4 in Rutland, and 55 in the Town of Watertown.

- 25.8% were cash with a median price of $40,000 and a range of $500 to $585,000
- 27.4% were conventional loans with a median price of $135,000 and a range of $8000 to $585,000
- 29.2% were VA loans with a median price of $174,200 and a range of $62,000 to $448,000
- 16.3% were FHA loans with a median price of $116,900 and a range of $34,000 to $259,000

The availability of VA loans used by active duty, reservists/National Guard, and veterans is an asset to the movement of the housing market. Usually such loans make up about 20-22% of the market. In 2019, VA loans are over 29% of the market.

The rental market using the services of a realtor has been consistent over the past four years. Median rent has been about $1000 per month for a three bedroom unit.

| Year | # rented | Median Rent | Average DOM | Median Bedrooms | Median Bathrooms | Price Range |
|-------|---------|-------------|-------------|-----------------|------------------|-------------------|
| 2019* | 142 | $1,000 | 61 | 3 | 1 | $550 - $2,400 |
| 2018 | 160 | $1,000 | 56 | 3 | 2 | $475 - $2,300 |
| 2017 | 139 | $1,146 | 69 | 3 | 1 | $450 - $2,200 |
| 2016 | 137 | $1,100 | 96 | 3 | 1 | $550 - $2,250 |

*1/1-10/31/2019 stats

The cost range and age range of residential properties are wide. For example, in November 2019 the for sale market ranged from a 140 year old home with 5 bedrooms, 2 baths, and 1868 square feet at $10,900 to a new build home with 4 bedrooms, 2 ½ baths, and 3000 square feet at $520,000. An older for sale inventory is a niche that 'does appeal to some, but not all'. Mr. Evans characterizes the sales market as 'fairly steady'.

Charted below is a profile of the housing market from 1/1/16-10/31/19.

| Year | # sold | Median Price | Average DOM | Median Bedrooms | Median Bathrooms | Median Sq. Ft | Price Range | Average Age |
|-------|--------|--------------|-------------|-----------------|------------------|---------------|----------------------|-------------|
| 2019* | 263 | $135,680 | 98 | 3 | 2 | 1,568 | $500 - $585,000 | 87 |
| 2018 | 306 | $116,950 | 100 | 3 | 2 | 1,560 | $4,900 - $545,000 | 90 |
| 2017 | 301 | $113,000 | 122 | 3 | 1 | 1,539 | $1,500 - $460,000 | 92 |
| 2016 | 252 | $120,000 | 118 | 3 | 2 | 1,548 | $7,500 - $480,000 | 86 |

Average days-on-the-market in 2018-2019 was 98-100 days compared to 118-122 in 2016-2017 denoting a more active market. Mr. Evens suggests that the house sales and rentals 'seem to be evenly distributed around the district'. The characteristics of housing are different in the various zones, but the zones are relatively similar in sales/rental activity.

2019 Home Sales and Rentals                    Attendance Zones of the School district
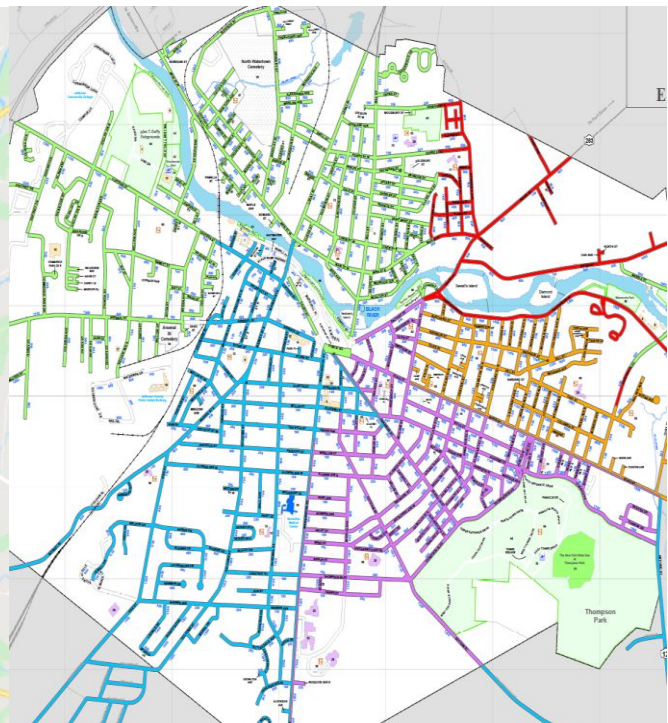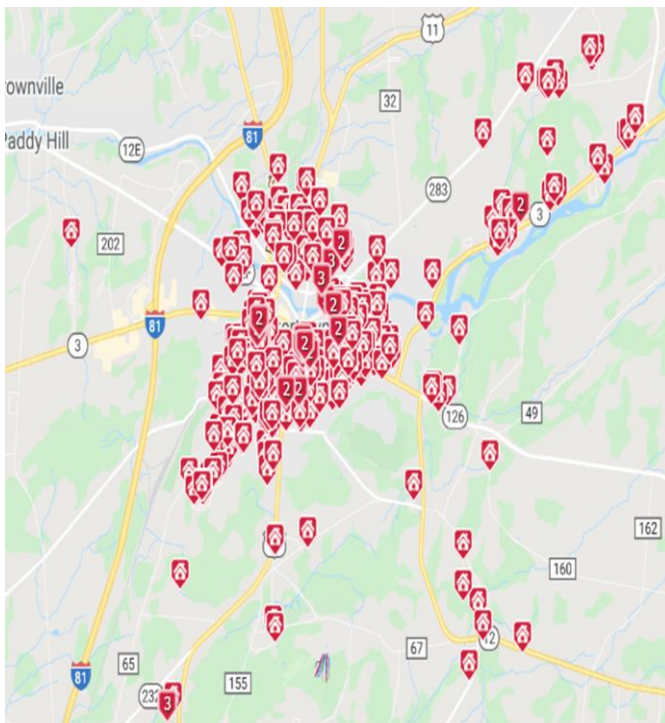
**POTENTIAL IMPACT OF THE EXPECTED NEW UNITS TO THE HOUSING MARKET ON FUTURE SCHOOL DISTRICT ENROLLMENTS**

The planning officials from the Towns of Le Ray, Pamelia, Rutland, Watertown, and the City of Watertown shared the best available information about residential development projects as of September 2019.  The study sincerely thanks the respective Town Planners for their time, accessibility, and information.  In addition, the Director of Planning for Jefferson County was contacted for perspective about endeavors that may influence pupil enrollment in the Watertown City School District.

The Director of the Jefferson Planning Department shared that to the best his knowledge there are not large scale housing developments planned.  He did share that there are initial discussions about the development of an industrial park near the Airport which could add jobs to the market and possible some new population for the County.  All of the Town Planners/Codes Officials report that all is "very quiet" regarding new housing development.  There are no large scale housing projects in progress, at the permit application, or 'being talked about' with their offices.

The study follows the State Education Department guidance in estimating the potential influence of the new residential market on future enrollments in the Watertown School District.  *Long-Range Facilities Plans-Reference Guide #A.6,* published by the State Education Department, counsels that:

> *Any extensive change in new local housing construction within the school district will inevitably influence student enrollment projections.  However, a word of caution is raised here.  Only evidence of sales or contracted construction should modify any basic enrollment projection.*

Therefore, since the Towns and City have no data about new residential development currently, the study cannot suggest added enrollments because of new housing units.

It is suggested that the district have at least a yearly contact with the planners/codes officials of the Towns and the City to learn of any housing projects that might add housing units to the school district attendance area.  If substantial future housing developments are built in a fast paced manner (three years or less), then a case can be made that such new residential unit construction is not 'normal and usual' for the Watertown School District.  If large, fast paced projects become documented, then it is suggested that the Cohort Survival calculations be recalculated to reflect the estimated new school age population influenced by a robust housing market as **'added'** *new school-age population* **above** *the baseline enrollment projection estimates.*

## SNAPSHOT OF SCHOOL DISTRICT DEMOGRAPHICS

The boundaries of the Watertown School District include 46 square miles.  Listed in this section are demographics about the geographic area and 'school district community' served by the school district. The data are from the 2012 and 2017 American Community Survey 5-year estimates specific to the Watertown School District geographic service area.  The demographic data can be helpful in the short-range and long-range planning discussions of the district.  "What if" discussions about patterns of data changing over the next five years can help the district to identify possible demographic variables that may influence the delivery of the K-12 program.  For example, charted on the next page is a comparison of the on-average Census estimates for the Watertown City School District population cohorts over the past ten years and some 'what if' questions for discussion.

**COMPARISON OF WATERTOWN CITY SD ON-AVERAGE POPULATION 2009-2013 ESTIMATES WITH 2014-2018 ESTIMATES**



|  | Under 5 years | 5 to 9 years | 10 to 14 years | 15 to 19 years | 20 to 24 years | 25 to 34 years | 35 to 44 years | 45 to 54 years | 55 to 59 years | 60 to 64 years | 65 to 74 years | 75 to 84 years | 85 years and over |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013 SUMMARY DATA | 9.60% | 5.80% | 6.00% | 4.60% | 10.80% | 17.60% | 11.60% | 11.40% | 5.00% | 5.20% | 6.00% | 4.00% | 2.30% |
| 2018 SUMMARY DATA | 7.60% | 7.60% | 5.40% | 5.50% | 9.00% | 20.60% | 11.30% | 10.60% | 5.20% | 4.80% | 6.40% | 3.70% | 2.20% |

2013 SUMMARY DATA
MEDIAN AGE 31.5

2018 SUMMARY DATA
MEDIAN AGE 31.3

- ✓ "What if" the decrease in the under 5 year old population continues over the next five years and the housing market gets stronger in attracting households with children?  What if the under 5 year old population decreases or stays stable over the next five years and the housing market stays stable compared to 2020?  What if live births increase and the housing market decreases or stays stable?  What if the housing market gets stronger?
- ✓ "What may be" the pattern of school-age population over the next five years as the decreased under 5 years old  population  in 2014-2018 become school age?

- ✓ "What might be" the influence on the under 5 year old population as the 25 to 34 year old child-bearing population increases in age to 30 to 40 years over the next five years? For 2014-2018 the 25 to 34 year old cohort is estimated to be 3% larger than the same cohort in 2009-2013.
- ✓ The median age of the school district has decreased from 31.5 years in 2009-2013 to 31.3 in 2014-2018. What factors may encourage or discourage the high number of child-bearing population to have children?
- ✓ What local factors might have influenced the 55 to 85 and over population to remain stable shares of the Watertown City School District population over the last ten years?

| Demographic Characteristic | Watertown SD (2009-2013)<br><br>ACS 2014 Profile | Watertown SD (2014-2018)<br><br>ACS 2019 Profile | |
|---|---|---|---|
| Total Population | 31,679 | 30,166 | 1140 decrease; -3.6% population decrease |
| Median age | 31.5 | 31.3 | Up to age 44 is considered 'child-bearing years' |
| Under 5 | 9.6% | 7.6% | |
| 5 to 9 | 5.8% | 7.6% | |
| 10 to 14 | 6% | 5.4% | |
| 15 to 19 | 4.6% | 5.5% | |
| 20 to 44 | 40% | 40.9% | Prime childbearing years. |
| 45 to 64 | 21.6% | 20.6% | |
| 65 to 84 | 10% | 10.1% | |
| 85 and over | 2.3% | 2.2% | |
| Total Households | 13,401 | 12,721 | 2014 public school enrollment of 3946; on average .294 public school pupils per household<br>2019 public school enrollment of 4015; on average .316 public school pupils per household |
| Family Households | 7456 | 6857 | 55.6% of all households in 2014; 53.9% in 2019. 2014 public school enrollment of 3946; on average .53 public school pupils per family household<br>2019 public school enrollment of 4015; on average .585 public school pupils per family household |
| Family households with own children under 18 years | 3865 | 3443 | 28.8% of all households in 2014; 27.1% in 2019.<br>2019 public school enrollment of 3946; on average 1.02 public school pupils per family household with own children under 18 years.<br>2019 public school enrollment of 4015; on average 1.17 public school pupils per family household with own children under 18 years. |
| All of households with one or more people under 18 years | 4109 | 3565 | 30.7% of all households in 2014; 28% in 2019. 2014 public school enrollment of 3946; on average .96 public school pupils |

| Demographic Characteristic | Watertown SD (2009-2013) ACS 2014 Profile | Watertown SD (2014-2018) ACS 2019 Profile | |
|---|---|---|---|
| | | | per household with one or more children under 18 years.<br>2019 public school enrollment of 4015; on average 1.13 public school pupils per household with one or more children under 18 years. |
| Non-family households | 5945 | 5864 | 44.4% of the total households in 2014; 46.1% in 2019 |
| Householder living alone | 4858 | 4957 | 36.3% of the total households in 2014; 39% in 2019 |
| Householder living alone 65 years and older | 1410 | 1392 | 10.5% of the total households in 2014; 10.9% in 2019 |
| All of households with one or more people 65 years and older | 2649 | 2696 | 19.8% of the total households in 2014; 21.2% in 2019 |
| Average household size | 2.3 | 2.31 | |
| Average family size | 3.06 | 3.13 | |
| Number of women 15 to 50 years old who had a birth in the past 12 months | 658 | 467 | lower average births a year over the past five years. |
| % high school graduate or higher | 88.4% | 90.6% | |
| % bachelor's degree or higher | 22.2% | 22.4% | |
| Number of grandparents living with own grandchildren under 18 | 532 | 272 | |
| Number of grandparents responsible for grandchildren | 227 | 62 | |
| Place of birth of total population; Foreign Born | 5.4% | 4.6% | |
| Speak English 'less than very well' population 5 years and older | 1.6% | 2.9% | |
| Total housing units | 14,868 | 14,957 | |
| 1 unit attached and detached | 47.7% | 50.6% | |
| 2 units | 11.5% | 11.3% | |
| 3 or 4 units | 14% | 12.6% | |
| 5 to 9 units | 10.6% | 11.8% | |
| 10 to 19 units | 3% | 2.5% | |
| 20 or more units | 10.5% | 9.4% | |
| Mobile home | 2.7% | 1.8% | |
| Housing units with 3 or more bedrooms | 49.8% | 49.9% | |
| Owner occupied | 43.6% | 43.2% | |

| Demographic Characteristic | Watertown SD (2009-2013) ACS 2014 Profile | Watertown SD (2014-2018) ACS 2019 Profile | |
|---|---|---|---|
| Housing Units with a mortgage | 63.1% | 59.7% | |
| Housing Units without a mortgage | 36.9% | 40.3% | |
| Renter occupied | 56.4% | 56.8% | |
| Average size of owner occupied units | 2.51 | 2.47 | |
| Average size of renter occupied units | 2.13 | 2.19 | Increase in rental unity housing population |
| Percentage of owner occupied units with a value of $500,000 to $149,999 | 49.9% | 49.6% | |
| **Demographic Characteristic** | **Watertown SD (2009-2013) ACS 2014 Profile** | **Watertown SD (2014-2018) ACS 2019 Profile** | |
| Residence 1 year ago same house | 71.1% | 76.6% | Less migration rate of population |

| Occupation: Management, business, science, and arts occupations 33.5% Sales and office occupations 25.4% Service occupations 23.9% Industry: Educational services, and health care and social assistance 24.5% Retail Trade 14.5% Arts, entertainment, and recreation and accommodation and food services 12.9% | | Occupation: Management, business, science, and arts occupations 32.3% Sales and office occupations 23.8% Service occupations 25.9% Industry: Educational services, and health care and social assistance 27.4% Retail Trade 15.4% Arts, entertainment, and recreation and accommodation and food services 12.4% | |
|---|---|---|---|
| Median household income | $42,542 | $43,883 | |
| Mean household income | $53,354 | $57,958 | |
| Median family income | $55,924 | $52,472 | Decreased in 2014-2018; 'poorer number of families' |
| Mean family income | $65,847 | $70,496 | Wider disparity between lower income families and higher income families |
| Median non-family income | $28,830 | $31,234 | |
| Mean non-family income | $35,289 | $40,951 | |
| Population with health insurance | 90.6% | 93.8% | |
| Population Employed with health insurance | 86.9% | 92.1% | Improvement. |
| Population unemployed no health insurance | 33.8% | 20.2% | Major improvement |

| Demographic Characteristic | Watertown SD (2009-2013) ACS 2014 Profile | Watertown SD (2014-2018) ACS 2019 Profile | |
|---|---|---|---|
| PERCENTAGE OF FAMILIES AND PEOPLE WHOSE INCOME IN THE PAST 12 MONTHS IS BELOW THE POVERTY LEVEL | | | |
| All families | 16% | 17.5% | Noticeable in family poverty.

Poverty factors for Watertown have on-average increased from 2009-2013 to 2014-2018. |
| With related children under 18 years | 24.9% | 30.3% | |
| Families with female householder, no husband present | 47.7% | 41.5% | |
| With related children under 18 years | 24.9% | 30.3% | |
| All people | 18% | 21.9% | |
| Under 18 years | 28.6% | 37.9 | |

Listed below are *example* discussion questions based on the Census data that Watertown City School District might include in its deliberations as it plans for the future.

- About 41% of the school district population is at prime childbearing age. In 2014 about 40% of the population was at prime childbearing age. What are some possible impacts on the school district if the population transitions to include a smaller child-bearing aged cohort? A larger child-bearing cohort? Short Term? Long term? What changes in the housing market might influence the child-bearing age cohort in the school district?

- The estimated median age of the district is 31.3 years, which is well below what is considered the end of prime childbearing years (44 years of age). In 2014, the median age was 31.5 years. About 49.9% of all housing units in Watertown CSD have at least 3 bedrooms. In 2014 about 49.8% of all housing units in Watertown CSD had at least 3 bedrooms. What are the possible impacts on the school district if *existing* family-sized homes and/or rental units now occupied by households without children under 18 turnover at a slow rate? At a fast rate? What are the possible consequences of an increase of population having children and the availability of family sized housing is low?

- What are some possible impacts on the school district if the housing market does not encourage residents in their prime child-bearing years to remain residents of the district? What are some possible impacts on the school district if the median age of residents increases? Decreases?

- In 2019, 21.2% total households in Watertown CSD have one or more persons 65 years or older. In 2019, 28% of total households in Watertown CSD have one or more persons under 18 years of age. What do these data suggest about community programs offered and communication efforts with these sets of households in the school district?

- Are there any noticeable dichotomies of opinions about the school district by the 28 out of 100 households with children under 18 and the 72 out of 100 households with no children under 18?

- The median household income is about 20% lower than the median family income in the Watertown School District. The average household income is about 22% lower than the average family income in the Watertown School District. The average non-family income is about 72% lower than the average family income. Has this disparity in family and non-family incomes caused a noticeable difference in expectations for education by segments of the community? If not, what communication or program efforts by the district have proven successful in nurturing support by stakeholders across the economic spectrum?

- The median family income declined in 2019 compared to 2014. What factors in the local economy influenced the increase in the number of family households earning less in 2019 than in 2014? (2014 median is $55,924; 2019 median is $52,472

- Poverty among under 18 years old residents has increased from 2009-2013 to 2014-2018. It is estimated that about 38 out of every hundred under 18 year old residents have lived in poverty over the past 12 months. The previous five year estimate was about 29 out of every hundred. What might be some school program/service impacts given that about 38% of the school age population experienced poverty in the past 12 months?

- How might the following demographic differences between 2014 and 2019 influence such school district topics as: general public communication about programs/goals of the district? Programs and projects for non-school age residents? Information and outreach to all taxpayers, especially to households without a direct service connection with the school district?

  - ✓ The 2019 data have the percentage of family households decreasing (53.9%) compared to the 2014 data (55.6%).
  - ✓ The 2019 data have the percentage of family households with own children under 18 years of age decreasing (27.1%) compared to the 2014 data (28.8%)
  - ✓ The 2019 data have the percentage of nonfamily households increasing by about 2% compared to the 2014 data.
  - ✓ The 2019 data have the percentage of householders living alone increasing by about 3% compared to the 2014 data.
  - ✓ The 2019 data have the percentage of all households with or more people 65 years and older increasing by about 2.4% compared to 2015 data.
  - ✓ Renter occupied (about 56%) households and owner occupied (about 44%) housing stayed the same between 2014 and 2019.
  - ✓ In 2014 65% of all parents in families with children 6 to 17 were in the workforce. In 2019 73% are in the workforce. These demographics may suggest a discussion/review of such items as: transportation policy for day care; when teacher conferences are scheduled or available; school emergency closings; different opportunities for parents to volunteer/participate in school functions for their children.

**FORT DRUM DEMOGRAPHICS AND THE WATERTOWN CITY SCHOOL DISTRICT**

The influence of Fort Drum on Jefferson County and the Watertown City School District is important and an asset. An interview with the Fort Drum Education Liaison Office and the Plans and Integration Office provided the following data. The best estimate is that the current data patterns regarding the Base will remain similar through the near future. Representatives of the base do not expect 'large fluctuations in military of civilian personnel. Watertown City offers a housing market of older homes that do attract military personnel. The newer residential developments nearer the Base have attracted more residents because of the characteristics of the housing and the shorter commute time to the Base.

| | Number of Pupils in Fort Drum Area | Number of Military Connected Pupils | Percentage of Military Connected Pupils | Number of Military Connected Pupils Served by the Watertown School District | Percentage of Total Military Connected Pupils Served by the Watertown School District |
|---|---|---|---|---|---|
| January 2018 | 25,087 | 6235 | 24.85% | 590 | 9.46% |
| January 2019 | 24,974 | 5634 | 22.56% | 450 | 7.99% |

| | Enrollment | Number of Military Connected Pupils | School Enrollment Percentage of Military Connected Pupils |
|---|---|---|---|
| **January 2018** | | | |
| Knickerbocker Elementary | 371 | 77 | 20.75% |
| North Elementary | 492 | 79 | 16.06% |
| Ohio Elementary | 329 | 51 | 15.50% |
| Sherman Elementary | 320 | 54 | 16.88% |
| Starbuck Elementary | 201 | 48 | 23.88% |
| Wiley Intermediate | 593 | 92 | 15.51% |
| Case Middle | 532 | 63 | 11.84% |
| High School | 997 | 126 | 12.64% |
| | | | |
| **Watertown CSD Total** | 3835 | **590** | **15.38%** |
| **Grades K-4** | | 309 | 18.04% |
| **Grades 5-6** | | 92 | 15.51% |
| **Grades 7-8** | | 63 | 11.84% |
| **Grades 9-12** | | 126 | 12.64% |
| | | | |
| **January 2019** | | | |
| Knickerbocker Elementary | 376 | 70 | 18.62% |
| North Elementary | 495 | 56 | 11.31% |
| Ohio Elementary | 367 | 35 | 9.54% |
| Sherman Elementary | 318 | 50 | 15.72% |
| Starbuck Elementary | 198 | 32 | 16.16% |
| Wiley Intermediate | 642 | 67 | 10.44% |
| Case Middle | 588 | 57 | 9.69% |
| High School | 1016 | 83 | 8.17% |
| | | | |
| **Watertown CSD Total** | **4000** | **450** | **11.25%** |
| **Grades K-4** | | 243 | 13.85% |
| **Grades 5-6** | | 67 | 10.44% |
| **Grades 7-8** | | 57 | 9.69% |
| **Grades 9-12** | | 83 | 8.17% |

| January 2018 | Rank Order Military Connected Pupils Served | | January 2019 | Rank Order Military Connected Pupils Served | |
|---|---|---|---|---|---|
| | Case | 11.84% | | High School | 8.17% |
| | High School | 12.64% | | Ohio | 9.54% |
| | Ohio | 15.50% | | Case | 9.69% |
| | Wiley | 15.51% | | Wiley | 10.44% |
| | North | 16.06% | | North | 11.31% |
| | Sherman | 16.88% | | Sherman | 15.72% |
| | Knickerbocker | 20.75% | | Starbuck | 16.16% |
| | Starbuck | 23.88% | | Knickerbocker | 18.62% |

- The Fort Drum personnel database (October 2019) lists 579 or 3.9% who live in the school district zip code of 13601
  - ✓ 59.8% (346) have no children
  - ✓ 17.3% (100) have one child
  - ✓ 14.9% (86) have two children
  - ✓ 8% (47) have three to five children

## FORT DRUM SOLDIER POPULATION AND FAMILY MEMBERS POPULATION 2010-2019

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| SOLDIER POPULATION | 19,091 | 19,940 | 19,302 | 18,127 | 17,742 | 15,553 | 15,069 | 15,041 | 14,937 | 15,093 |
| SOLDIER FAMILY POPULATION | 19,016 | 19,958 | 20,594 | 19,561 | 18,733 | 17,089 | 15,164 | 15,426 | 15,302 | 17,461 |
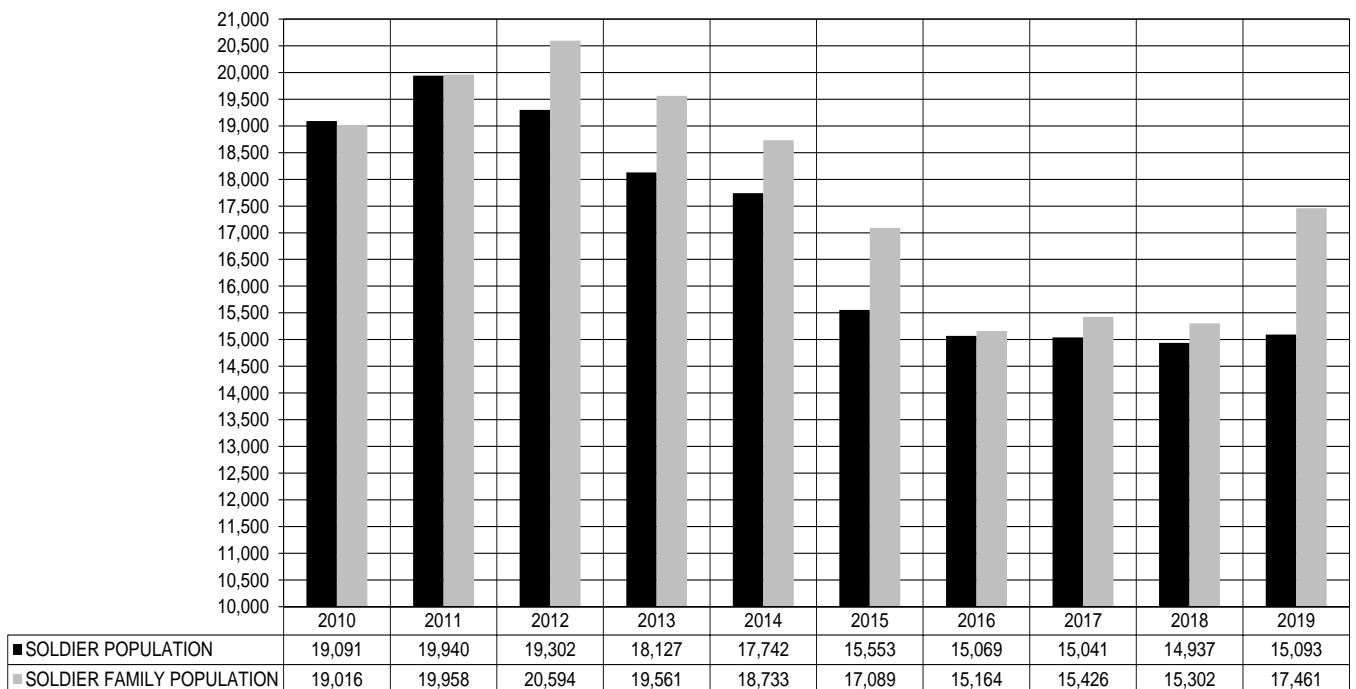
## CIVILIANS WORKING ON FORT DRUM
## 2010-2019



Chart showing civilians working at Fort Drum with trend line $y = -133.22x + 4814.2$

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|---|---|---|---|
| ■ CIVILIANS WORKING AT FORT DRUM | 4876 | 4671 | 4487 | 4277 | 3902 | 3846 | 3830 | 3010 | 3931 | 3985 |
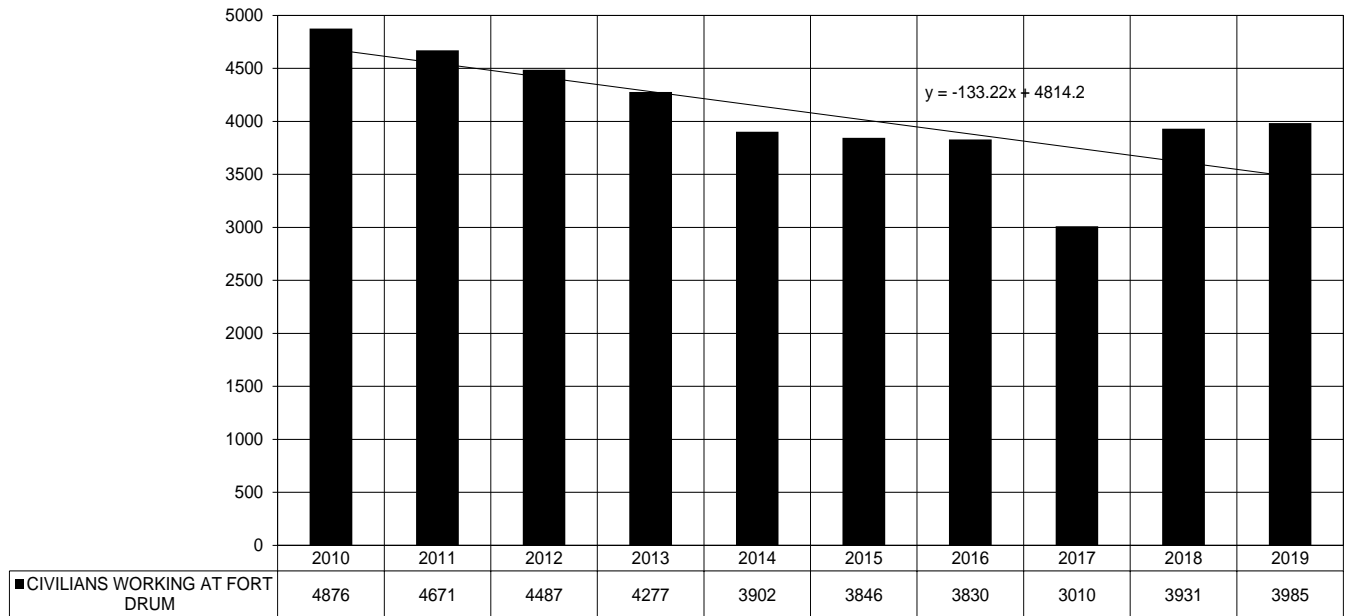
Some observations about the Fort Drum data

- The Watertown City School District serves only 8% of the school age children of the military assigned to Fort Drum in 2019. In 2018, about 9.5% were served.
- In 2018, Watertown served 590 K-12 pupils of military families. In 2019, 450 K-12 pupils were served.
- The Elementary K-4 program served 309 (60.7%) pupils of the 590 from military families in 2018. The Elementary K-4 program served 243 (54%) pupils of the 450 from military families in 2019. The majority of pupils from military families are served in grades K-4.
- In 2018, between 16 and 24% of the enrollments of North, Sherman, Knickerbocker and Starbuck were children of military families. In 2019, between 11.31 and 18.62% were served in these schools.
- 233 (40.2%) of the 579 Fort Drum military personnel who live in the Watertown School District have school-age children. We do not know how many military personnel residents send their children to private or home-school settings. We do know that there are 450 pupils from military families enrolled in Watertown City Schools in 2019.
- In 2019, the population of fort Drum soldier family population increased by 2368 over the soldier family population in 2018 region-wide. How might the increase in soldier family population influence potential school enrollment in the Watertown City School District?

**SUMMARY OF K-12 ENROLLMENT PROJECTION DATA CALCULATIONS**

The charts that follow summarize the enrollment projection calculations through 2028-2029 undertaken in this study. The estimates are based on the application of the cohort survival statistic and annual total live birth analysis to project potential kindergarten enrollments in the future. The enrollment estimates are projections and not predictions. Projections for the immediate future are more reliable than those for years further in the future. Enrollment projection totals for K-6 and for 7-12 are more reliable than are those for specific grade levels in specific years. Primary focus should be given to estimates five years into the future for grades K-6, and ten years into the future for grades 7-12. The projections do offer a starting point for analyzing and understanding the elements of future school district demographic change.

## GRADES K-4 ESTIMATED ENROLLMENT SCENARIOS 2020-2024

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|---|
| ■BASE COHORT LOW RANGE | | 1626 | 1608 | 1571 | 1508 | 1460 |
| □BASE COHORT MID RANGE | | 1632 | 1614 | 1592 | 1520 | 1470 |
| ▨BASE COHORT HIGH RANGE | | 1656 | 1660 | 1658 | 1602 | 1583 |
| ▨CURRENT 2019-2020 ENROLLMENT | 1711 | | | | | |



41
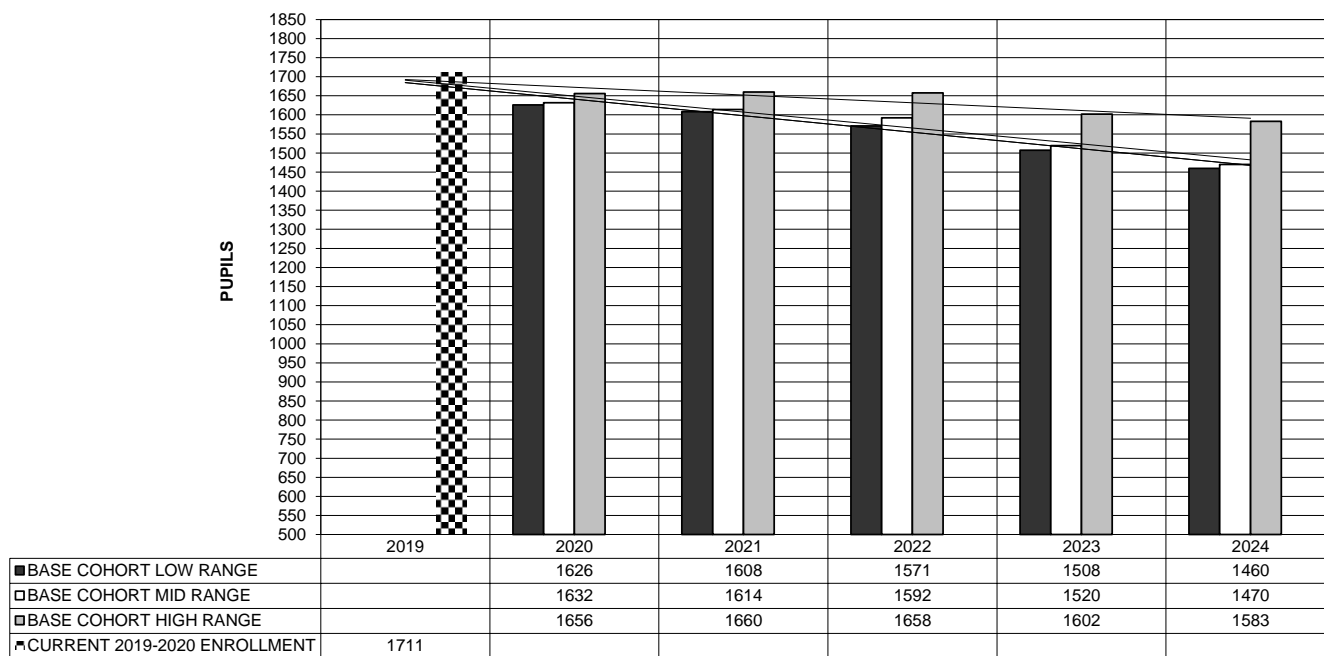
## GRADES 5-6 ESTIMATED ENROLLMENT
## SCENARIOS 2020-2024



| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---|---|---|---|---|---|---|
| ■BASE COHORT LOW RANGE | | 676 | 615 | 556 | 588 | 586 |
| □BASE COHORT MID RANGE | | 676 | 615 | 556 | 588 | 586 |
| ▨BASE COHORT HIGH RANGE | | 676 | 615 | 556 | 588 | 586 |
| ▨CURRENT 2019-2020 ENROLLMENT | 664 | | | | | |
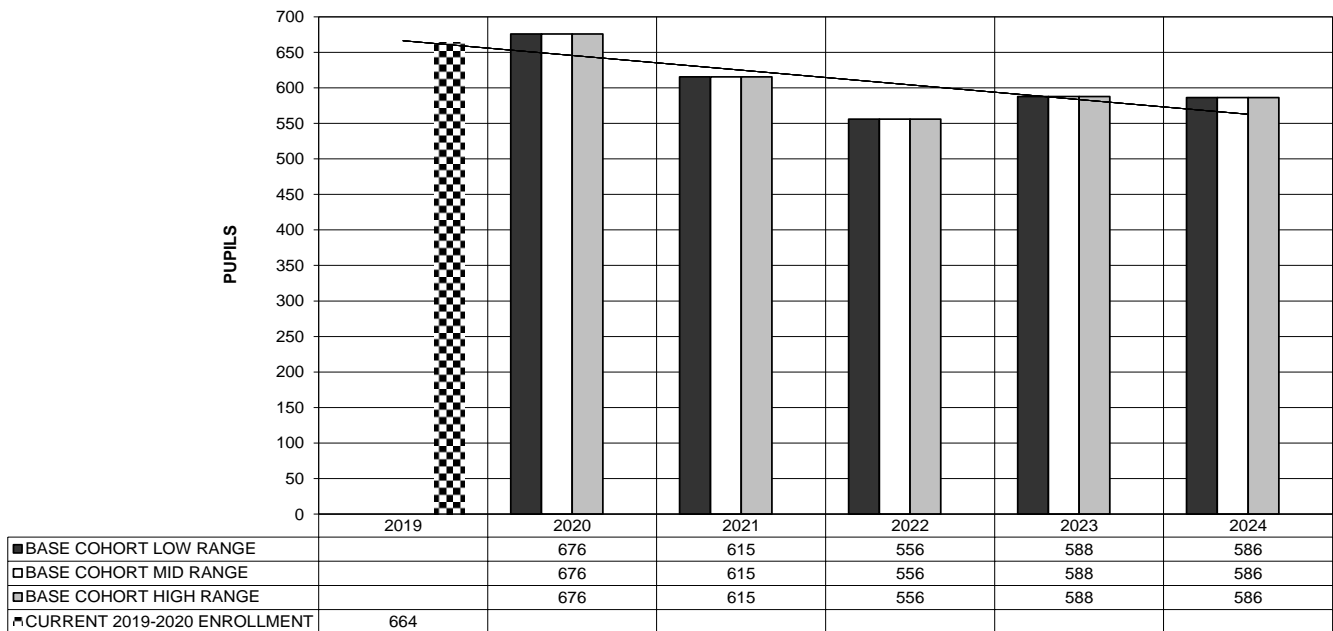
## GRADES 7-8 ESTIMATED ENROLLMENT
## SCENARIOS 2020-2027



| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 |
|---|---|---|---|---|---|---|---|---|---|
| ■BASE COHORT LOW RANGE | | 622 | 656 | 668 | 608 | 549 | 581 | 579 | 544 |
| □BASE COHORT MID RANGE | | 622 | 656 | 668 | 608 | 549 | 581 | 579 | 548 |
| ▨BASE COHORT HIGH RANGE | | 622 | 656 | 668 | 608 | 549 | 581 | 579 | 566 |
| CURRENT 2019-2020 ENROLLMENT | 581 | | | | | | | | |
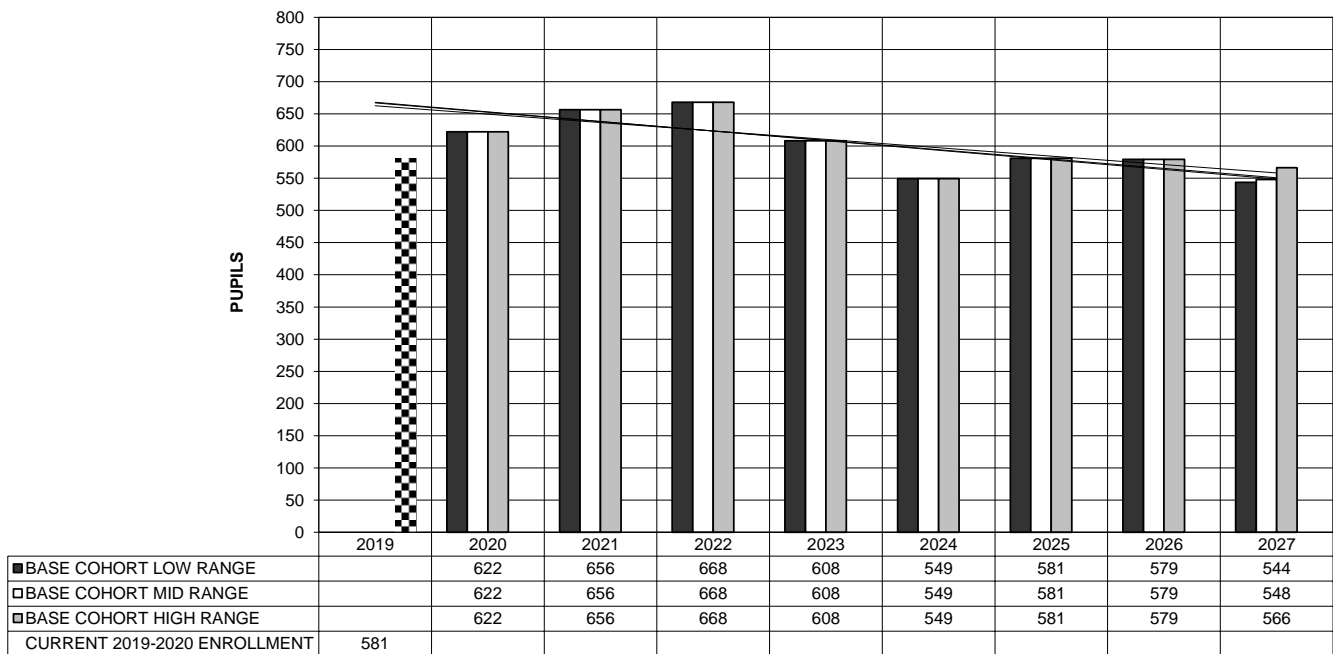
## GRADES 9-12 ESTIMATED ENROLLMENT
## SCENARIOS 2020-2029

| | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BASE COHORT LOW RANGE | | 1070 | 1085 | 1155 | 1172 | 1221 | 1191 | 1146 | 1123 | 1068 | 1061 |
| BASE COHORT MID RANGE | | 1070 | 1085 | 1155 | 1172 | 1221 | 1191 | 1146 | 1123 | 1068 | 1065 |
| BASE COHORT HIGH RANGE | | 1070 | 1085 | 1155 | 1172 | 1221 | 1191 | 1146 | 1123 | 1068 | 1084 |
| CURRENT 2019-2020 ENROLLMENT | 1059 | | | | | | | | | | |
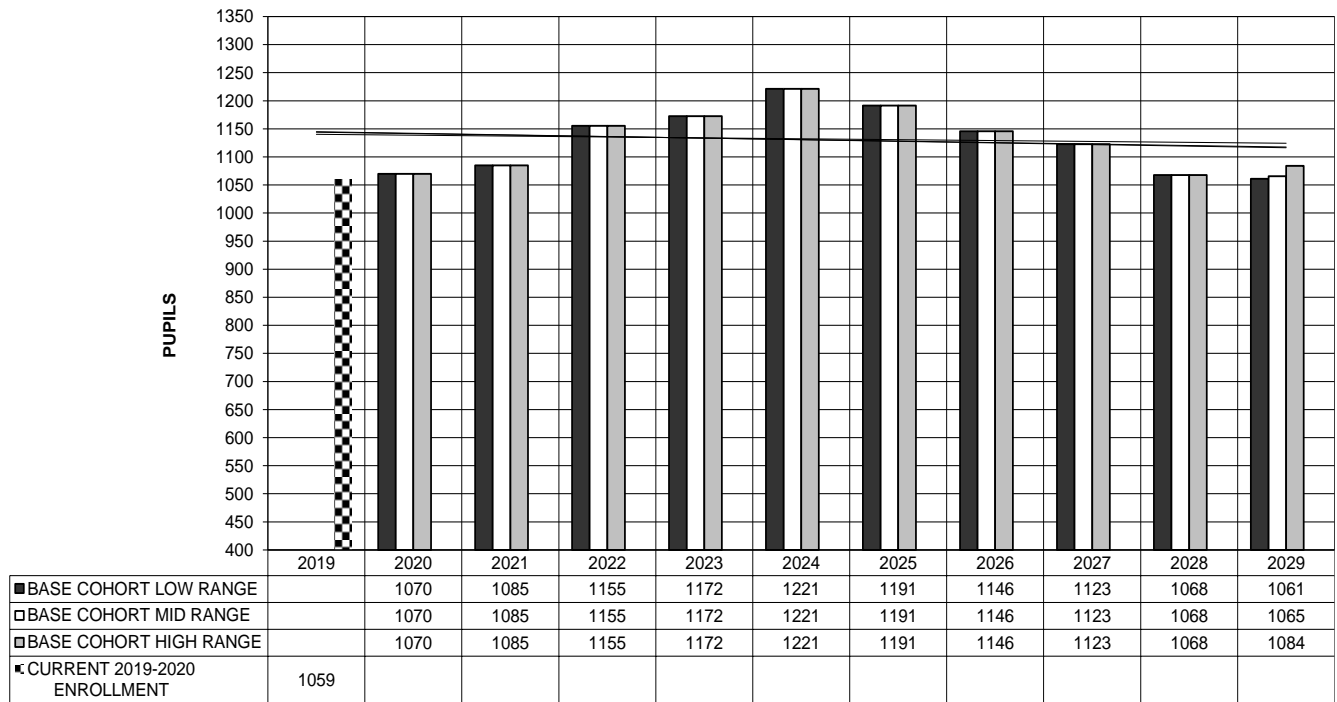
## BASELINE COHORT ENROLLMENT ESTIMATES

The tables on the following pages are a helpful resource as the district undertakes its ongoing short and long-range planning efforts regarding its vision for the educational program to be delivered and the use of the school building assets of the district. **'*Low, Mid, and High*' are defined by the enrollment projections for grades K-6 five years from now in 2024-2025**. The highlighted estimates follow SED planning guidelines with regard to applying enrollment projections to anticipated space needs in the future. **Commissioner's Regulation 155.1 requires districts to match facility planning with the estimated grades K-6 enrollment five years into the future; grades 7-8 enrollment eight years into the future; and estimated grades 9-12 enrollment ten years into the future.** Building Aid Units for State building aid on approved capital projects are based on the enrollment estimates outlined in the Regulations. It is suggested that the high range projections be used to base pupil capacity need in the future with facility planning. The low enrollment projection estimates can be a tool to estimate conservatively potential impact on existing staff and program offerings in the short term if enrollments decrease. The mid-range projection (with an eye on the high range projection) often can be a good tool to project potential impacts on district financials. In summary, the projections suggest that:

| | BASE COHORT ENROLLMENT PROJECTIONS |
|---|---|
| **Grades K-4** | o **Grades K-4 enrollment** may decrease by about 128 pupils over **the next 5 years** per the most optimistic estimate. The most conservative estimate suggests enrollment may decrease by about 251 pupils in five years compared to 2019-2020. |
| **Grades 5-6** | o **Grades 5-6 total enrollment** may decrease by about 78 pupils over **the next 5 years** compared to 2019-2020. |
| **Grades 7-8** | o **Grades 7-8 enrollment** may decrease by about 15 pupils over **the next 8 years** per the most optimistic estimate. The most conservative estimate suggests enrollment may decrease by about 37 pupils in eight years compared to 2019-2020. |
| **Grades 9-12** | o **Grades 9-12 enrollment** may increase by about 25 pupils over **the next 10 years** per the most optimistic estimate. The most conservative estimate suggests enrollment may remain stable (increase by about 2 pupils) in ten years compared to 2019-2020. |

| Calculation | Year | Grades K-4 | Grades 5-6 | Grades 7-8 | Grades 9-12 |
|---|---|---|---|---|---|
| **CURRENT ENROLLMENT** | **2019-2020** | **1711** | **664** | **581** | **1059** |
| | | | | | |
| **Baseline Cohort Low Range*** | **2022-2023** | 1571 | 556 | 668 | 1155 |
| | **2024-2025** | 1460 | 586 | 549 | 1221 |
| | **2027-2028** | | | 544 | 1123 |
| | **2029-2030** | | | | 1061 |
| Calculation | Year | Grades K-4 | Grades 5-6 | Grades 7-8 | Grades 9-12 |
| **CURRENT ENROLLMENT** | **2019-2020** | **1711** | **664** | **581** | **1059** |
| | | | | | |
| **Baseline Cohort Mid-Range*** | **2022-2023** | 1592 | 556 | 668 | 1155 |
| | **2024-2025** | 1470 | 586 | 549 | 1221 |
| | **2027-2028** | | | 548 | 1123 |
| | **2029-2030** | | | | 1065 |
| | | | | | |
| **Baseline Cohort High Range*** | **2022-2023** | 1658 | 556 | 668 | 1155 |
| | **2024-2025** | 1583 | 586 | 549 | 1221 |
| | **2027-2028** | | | 566 | 1123 |
| | **2029-2030** | | | | 1084 |

Highlighted estimates follow SED planning guidelines with regard to applying enrollment projections to plan anticipated space needs in the future and the estimated Building Aid Units that may be applied to calculate State Building Aid to help financially support a capital project.

## Pre-Kindergarten Enrollment

Unlike Kindergarten, which has evolved into a defacto 'compulsory' enrollment grade for which State attendance aid is given to a district, Pre-kindergarten program enrollment rests solely on the availability of such a program at the discretion of a school district and the volition of the parents or guardians to have their four-year old children attend.

The number of Pre-Kindergarten classrooms needed for delivery of the program now and in the future is dependent upon: if the program is full or half day; 18 pupils per class section; the total possible number of four year-olds who are resident in the district; and how many class sections the school district wishes to offer and fund. Pre-Kindergarten classrooms qualify for building aid equivalent to how grades K-6 classrooms qualify for building aid.

Charted on the below is the number of children born in the district compared with the number of four year-olds who enrolled in the Watertown City Pre-Kindergarten program offerings since 2008. For the past two years, Watertown City has also offered a three year-old Pre-K program with 144 possible enrollments. All 144 seats available each year have been filled.

| Enrollment Year | Pre-K Enrollment 4-year olds | Birth Year | Number of district Births Four Years Earlier Pre-K Enrollment | % of Resident District Births Served in Watertown City Pre-K Four Years Later |
|---|---|---|---|---|
| 2008 | 135 | 2004 | 417 | 32.4% |
| 2009 | 135 | 2005 | 531 | 25.4% |
| 2010 | 136 | 2006 | 515 | 26.4% |
| 2011 | 136 | 2007 | 551 | 24.7% |
| 2012 | 136 | 2008 | 628 | 21.7% |
| 2013 | 134 | 2009 | 614 | 21.8% |
| 2014 | 134 | 2010 | 608 | 22% |
| 2015 | 194 | 2011 | 604 | 32.1% |
| 2016 | 229 | 2012 | 654 | 35% |
| 2017 | | 2013 | 603 | |
| 2018 | | 2014 | 615 | |
| 2019 | | 2015 | 581 | |
| 2020 | | 2016 | 556 | |
| 2021 | | 2017 | 567 | |
| 2022 | | 2018 | 513 (Preliminary) | |

The number of children served by the Pre-Kindergarten program offered by Watertown has increased from 135 in 2008 to 229 in 2016. There remains a substantial population set of four-year olds not enrolled in the Watertown Pre-Kindergarten program.

**ESTIMATED FUTURE ENROLLMENTS COMPARED TO EXISTING PUPIL CAPACITY OF THE SCHOOL BUILDINGS**

The enrollment projection estimates suggest the ranges of pupil capacity that may likely be needed into the future. Pupil capacity is benchmarked to how the Watertown program is implemented in 2019-2020 (see the *Watertown City School District Pupil Capacity Analysis Study, March 2020).* The tables below estimate the potential impact on current pupil capacity using the *baseline* enrollment projections for grades K-6 five years into the future; for grades 7-8 eight years into the future; and for grades 9-12 ten years into the future.

**WORKING SUMMARY OF ENROLLMENT PROJECTION ESTIMATES**
**COMPARED TO EXISTING PUPIL CAPACITY**

| Estimated K-4 Enrollments and Pupil Capacity in 2024-2025 five years from now | | | |
|---|---|---|---|
| **Grades K-4** *(September 2019 enrollment)* | **Functional Operating Capacity Given how the Program is Implemented/Deployed Guided by the Local District Class Size Goals** | **Estimated Enrollment in 2024-2025** **(low to high projections):** | **Estimated Unused Pupil Capacity in five years in 2024-2025 with the <u>current</u> grade level and school building configurations:** **(Does not factor unassigned pupil capacity to address flexibility of program delivery or any changes of classrooms to instructional support non-capacity spaces.)** |
| **North Elementary** *(477)* | 529-575 | | |
| **Starbuck Elementary** *(190)* | 224-244 | | |
| **Sherman Elementary** *(303)* | 338-370 | | |
| **Knickerbocker Elementary** *(377)* | 436-476 | | |
| **Ohio Elementary** *(364)* | 398-436 | | |
| **TOTAL GRADES K - 4** *(1711)* | **1925-2101** | **1460-1583** | **<u>Under</u> available operating pupil capacity <u>by 342 to 641 or by 17.8% to 30.5%</u>** |

| Estimated 5-6 Enrollments and Pupil Capacity in 2024-2025; five years from now | | | |
|---|---|---|---|
| **Grades 5 - 6** *(September 2019 enrollment)* | **Functional Operating Capacity Given how the Program is Implemented/Deployed Guided by the Local District Class Size Goals** | **Estimated Enrollment In 2024-2025** **(low to high projections):** | **Estimated Unused Pupil Capacity in eight years in 2024-2025 with the <u>current</u> grade level and school building configurations:** **(Does not factor unassigned pupil capacity to address flexibility of program delivery or any changes of classrooms to instructional support non-capacity spaces.)** |
| **H.T. Wiley Intermediate School** *(664)* | **698-754** | **586** | **<u>Under</u> available operating pupil capacity <u>by 112 to 168 or by 16.1% to 22.3%</u>** |

| Estimated 7-8 Enrollments and Pupil Capacity in 2027-2028; eight years from now | | | |
|---|---|---|---|
| **Grades 7 - 8** *(September 2019 enrollment)* | **Functional Operating Capacity Given how the Program is Implemented/Deployed Guided by the Local District Class Size Goals** | **Estimated Enrollment In 2027-2028 (low to high projections):** | **Estimated Unused Pupil Capacity in eight years in 2027-2028 with the current grade level and school building configurations:**<br><br>**(Does not factor unassigned pupil capacity to address flexibility of program delivery or any changes of classrooms to instructional support non-capacity spaces.)** |
| **Case Middle School** *(581)* | **756-811** | **544-566** | **Under available operating pupil capacity by 190 to 267 or by 25.1% to 32.9%** |

| Estimated 9-12 Enrollments and Pupil Capacity in 2029-2030; ten years from now | | | |
|---|---|---|---|
| **Grades 9-12** *(September 2019 enrollment)* | **Functional Operating Capacity Given how the Program is Implemented/Deployed Guided by the Local District Class Size Goals** | **Estimated Enrollment In 2029-2030 (low to high projections):** | **Estimated Unused Pupil Capacity in ten years in 2029-2030 with the current grade level and school building configurations:**<br><br>**(Does not factor unassigned pupil capacity to address flexibility of program delivery or any changes of classrooms to instructional support non-capacity spaces.)** |
| **High School** *(1086)* | **1109-1196** | **1061-1084** | **Under available operating pupil capacity by 25 to 135 or by 2.3% to 11.3%** |

## CAUTIONS CONCERNING ENROLLMENT PROJECTION ESTIMATES

All enrollment projections for more than five years into the future have inherent uncertainties because the assumptions on which they are based can be affected by changes in human behavior, by the economy, or by other events. Elementary age enrollment estimates *more than five years* into the future, in particular, have lower reliability than estimates for grades 7-12. Key factors of population change relating to school enrollments are often interrelated and can multiply as one or more factors unexpectedly change or change significantly from their status at the time of this study. Future enrollments are positively affected by:

- Added births in the district and the resulting added kindergarten enrollments.
- The reductions or increases in private school/home-school/charter school enrollments.
- The increase in the enrollment retention of students through grade 12 as completers of a diploma program.

- A robust employment market that can attract new residents with children and/or who are at childbearing age.
- A robust housing market that can attract new residents with children and/or who are at childbearing age.
- Increased enrollment of tuition students from other school districts.

Similarly, future enrollment projections can be negatively affected by the antitheses of the same variables. Therefore, the enrollment projection estimates should be revisited and updated yearly if there are any major changes in: the assumptions that base the methodology of this study; the annual live birth data for the district; major shifts in the housing market and employment market opportunities from what has been expected; changes in the educational program offered; and/or changes in the non-public school, charter school, or out of school district enrollments by Watertown School District residents; or major immediate changes to the numbers of pupils tuition from other school districts.

## USE OF THE ENROLLMENT PROJECTION DATA FOR PLANNING

The *Enrollment Projection/Demographic Study* provides sets of estimates about future K-12 enrollments ranging from 'low' to 'high' based on defined assumptions and historical patterns of population and enrollment data. It is suggested that the Board of Education and the school district leadership team discuss the projection scenarios and come to consensus with the community about what the *school district and the community* believe about the local future—will the "glass be filled, half-filled or half empty?" with regard to such items as increased numbers of tuition pupils, new residential construction, new population to the district, and increased jobs within commuting distance of the district.

Most critical to successful long range school program and facility planning is defining the vision of the program the Board and community expect to provide to the students of the district. Facility form follows program function. A successful long-range facility plan occurs when the planning is viewed as a 'curriculum project' that defines and plans the program vision for delivery to all pupils regardless of the total enrollment size of the district. Once the curriculum vision is defined, a facility plan is only then a 'brick and mortar' plan to support the implementation of the curriculum/program. What are the implications of the Board and community's pupil program vision on the current facilities of the school district? With stable future student enrollments? With decreasing student enrollments at some sets of grades?

Is there a gap between the current pupil capacities of the school buildings and the estimated enrollments to be served five, eight and ten years into the future?  Is there a gap between the Board's future vision for the pupil program, the pupil capacity of the facilities, and the values that guide how the program is implemented currently?

# Appendix A:


# DEMOGRAPHIC-ECONOMIC CHARACTERISTICS PROFILE BASED ON CENSUS BUREAU DATA:
## *A TOOL TO HELP PLAN AND DISCUSS THE FUTURE*


## *for the*


## WATERTOWN CITY SCHOOL DISTRICT


*Prepared by: Dr. Paul M. Seversky*

*"Custom tools and research to aid a school district in defining a vision and decision options for serving students in the future."*

**Introduction and Overview**

This report provides a summary of demographic-economic characteristics for Watertown School District.

Demographic-economic data in this report provide insights into "where we are now." The selection, scope, organization, and content of these data provide a basis for examining challenges and opportunities that lie ahead. The data provide information for decision-makers and stakeholders to determine how they might benefit from plans and actions implemented now or scheduled for the future. The data provide a basis for collaborative planning among community/business stakeholders and leaders. These data can provide measures of how things have changed since an earlier point in time. Assessing this change, and considering current and prospective change, provide insights into the future – how much might things change, at what time, by how much and where – and how might this change impact us?

The demographic-economic behavior of an area does not happen in a vacuum. It is important to understand the make-up and dynamics of the area around us. What is similar or dissimilar in the broader or adjacent area? Which of these patterns or characteristics might impose challenges or limitations on reaching goals? What are reasonable goals, suggested by analyzing these data that might be achieved? In what time frame?

Data presented in this report are based on the most recent demographic-economic data released in December 2018 for all U.S. political/statistical geographic areas. The report provides data on more than 600 demographic-economic subject matter items, a comprehensive overview, for the area organized into four structured Demographic-Economic Profiles (DP). Selected highlights from each of these four profiles are presented.

**Using this Report**. This comparative analysis report is provided to facilitate strategic planning and comparison of school district demographics over time.

**Sources**. This report is based on data from the Census Bureau American Community Survey (ACS) 2014 five-year (2009-2013) estimates published in December 2014 and the American Community Survey (ACS) 2019 five-year (2014-2018) estimates published in December 2019. The estimates are subject to sampling and other errors of estimation. The ACS estimates are period estimates that describe the average characteristics of population and housing over a period of data collection.

# APPENDIX A:  TABLE OF CONTENTS

*The demographic estimates are reported to encourage community discussion about the demographic characteristics of the Watertown School District.  The compilation of the Census data is a tool to help the community and school leaders discuss and suggest insights about the school district community as long-range plans are developed.  Census data for the Watertown School District are charted from two Census documents profiling the demographics of the school district from 2009-2018.  In this way, comparative discussion/analysis is supported to identify similar and dissimilar demographic characteristics of the Watertown School District over time.*

**SOURCE OF DATA:**
**Federal Census Bureau 2009-2013 American Community Survey**
**5- Year Estimates (public release December 2014)**
**Federal Census Bureau 2014-2018 American Community Survey**
**5-Year Estimates (public release December 2019)**

To maintain confidentiality, the Census Bureau applies statistical procedures that introduce some uncertainty into data for geographic areas with small population groups.  The data in these tables contain sampling error and nonsampling error.  Data are based on a sample and are subject to sampling variability.  The degree of uncertainty for an estimate arising from sampling variability is represented with a margin of error.  The value shown here is the 90 percent margin of error.  The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value.  In addition to sampling variability, the ACS estimates are subject to nonsampling error).  The effect of nonsampling error is not represented in these tables.  Additional information on the design and methodology of the American Community Survey, including data collection and processing, can be found at http://www.census.gov/acs/www/methodology/methodology main/

**The shaded demographic characteristics in the charts that follow suggest data that are often reviewed and discussed by school districts as part of long-range planning effort.**

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **DEMOGRAPHIC CHARACTERISTICS** | **Estimate** | **Percent** | **DEMOGRAPHIC CHARACTERISTICS** | **Estimate** | **Percent** |
| SEX AND AGE | | | SEX AND AGE | | |
| Total population | 31,679 | 31,679 | Total population | 30,166 | 30,166 |
| Male | 15,431 | 48.7% | Male | 15,231 | 50.5% |
| Female | 16,248 | 51.3% | Female | 14,935 | 49.5% |
| | | | Sex ratio (males per 100 females) | 102.0 | (X) |
| Under 5 years | 3,031 | 9.6% | Under 5 years | 2,283 | 7.6% |
| 5 to 9 years | 1,838 | 5.8% | 5 to 9 years | 2,300 | 7.6% |
| 10 to 14 years | 1,915 | 6.0% | 10 to 14 years | 1,631 | 5.4% |
| 15 to 19 years | 1,470 | 4.6% | 15 to 19 years | 1,673 | 5.5% |
| 20 to 24 years | 3,418 | 10.8% | 20 to 24 years | 2,729 | 9.0% |
| 25 to 34 years | 5,580 | 17.6% | 25 to 34 years | 6,225 | 20.6% |
| 35 to 44 years | 3,665 | 11.6% | 35 to 44 years | 3,419 | 11.3% |
| 45 to 54 years | 3,608 | 11.4% | 45 to 54 years | 3,210 | 10.6% |
| 55 to 59 years | 1,595 | 5.0% | 55 to 59 years | 1,561 | 5.2% |
| 60 to 64 years | 1,654 | 5.2% | 60 to 64 years | 1,436 | 4.8% |
| 65 to 74 years | 1,911 | 6.0% | 65 to 74 years | 1,916 | 6.4% |
| 75 to 84 years | 1,254 | 4.0% | 75 to 84 years | 1,125 | 3.7% |
| 85 years and over | 740 | 2.3% | 85 years and over | 658 | 2.2% |
| Median age (years) | 31.5 | (X) | Median age (years) | 31.3 | (X) |
| | | | Under 18 years | 7,225 | 24.0% |
| | | | 16 years and over | 23,686 | 78.5% |
| 18 years and over | 23,983 | 75.7% | 18 years and over | 22,941 | 76.0% |
| 21 years and over | 22,857 | 72.2% | 21 years and over | 21,903 | 72.6% |
| 62 years and over | 4,799 | 15.1% | 62 years and over | 4,591 | 15.2% |
| 65 years and over | 3,905 | 12.3% | 65 years and over | 3,699 | 12.3% |
| 18 years and over | 23,983 | 23,983 | 18 years and over | 22,941 | 22,941 |
| Male | 11,733 | 48.9% | Male | 11,452 | 49.9% |
| Female | 12,250 | 51.1% | Female | 11,489 | 50.1% |
| | | | Sex ratio (males per 100 females) | 99.7 | (X) |
| 65 years and over | 3,905 | 3,905 | 65 years and over | 3,699 | 3,699 |
| Male | 1,408 | 36.1% | Male | 1,540 | 41.6% |
| Female | 2,497 | 63.9% | Female | 2,159 | 58.4% |
| | | | Sex ratio (males per 100 females) | 71.3 | (X) |
| RACE | | | RACE | | |
| Total population | 31,679 | 31,679 | Total population | 30,166 | 30,166 |
| One race | 30,304 | 95.7% | One race | 28,769 | 95.4% |
| Two or more races | 1,375 | 4.3% | Two or more races | 1,397 | 4.6% |
| One race | 30,304 | 95.7% | One race | 28,769 | 95.4% |
| White | 26,740 | 84.4% | White | 25,354 | 84.0% |
| Black or African American | 1,995 | 6.3% | Black or African American | 2,325 | 7.7% |
| American Indian and Alaska Native | 66 | 0.2% | American Indian and Alaska Native | 262 | 0.9% |
| Cherokee tribal grouping | 20 | 0.1% | Cherokee tribal grouping | 0 | 0.0% |
| Chippewa tribal grouping | 0 | 0.0% | Chippewa tribal grouping | 115 | 0.4% |
| Navajo tribal grouping | 0 | 0.0% | Navajo tribal grouping | 0 | 0.0% |
| Sioux tribal grouping | 0 | 0.0% | Sioux tribal grouping | 0 | 0.0% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **DEMOGRAPHIC CHARACTERISTICS** | **Estimate** | **Percent** | **DEMOGRAPHIC CHARACTERISTICS** | **Estimate** | **Percent** |
| Asian | 741 | 2.3% | Asian | 474 | 1.6% |
| Asian Indian | 157 | 0.5% | Asian Indian | 152 | 0.5% |
| Chinese | 14 | 0.0% | Chinese | 10 | 0.0% |
| Filipino | 225 | 0.7% | Filipino | 142 | 0.5% |
| Japanese | 17 | 0.1% | Japanese | 8 | 0.0% |
| Korean | 89 | 0.3% | Korean | 40 | 0.1% |
| Vietnamese | 33 | 0.1% | Vietnamese | 38 | 0.1% |
| Other Asian | 206 | 0.7% | Other Asian | 84 | 0.3% |
| Native Hawaiian and Other Pacific Islander | 117 | 0.4% | Native Hawaiian and Other Pacific Islander | 53 | 0.2% |
| Native Hawaiian | 8 | 0.0% | Native Hawaiian | 0 | 0.0% |
| Guamanian or Chamorro | 13 | 0.0% | Guamanian or Chamorro | 0 | 0.0% |
| Samoan | 96 | 0.3% | Samoan | 0 | 0.0% |
| Other Pacific Islander | 0 | 0.0% | Other Pacific Islander | 53 | 0.2% |
| Some other race | 645 | 2.0% | Some other race | 301 | 1.0% |
| Two or more races | 1,375 | 4.3% | Two or more races | 1,397 | 4.6% |
| White and Black or African American | 683 | 2.2% | White and Black or African American | 887 | 2.9% |
| White and American Indian and Alaska Native | 215 | 0.7% | White and American Indian and Alaska Native | 110 | 0.4% |
| White and Asian | 173 | 0.5% | White and Asian | 130 | 0.4% |
| Black or African American and American Indian and Alaska Native | 25 | 0.1% | Black or African American and American Indian and Alaska Native | 86 | 0.3% |
| Race alone or in combination with one or more other races | | | Race alone or in combination with one or more other races | | |
| Total population | 31,679 | 31,679 | Total population | 30,166 | 30,166 |
| White | 28,004 | 88.4% | White | 26,575 | 88.1% |
| Black or African American | 2,776 | 8.8% | Black or African American | 3,432 | 11.4% |
| American Indian and Alaska Native | 389 | 1.2% | American Indian and Alaska Native | 460 | 1.5% |
| Asian | 996 | 3.1% | Asian | 667 | 2.2% |
| Native Hawaiian and Other Pacific Islander | 176 | 0.6% | Native Hawaiian and Other Pacific Islander | 113 | 0.4% |
| Some other race | 793 | 2.5% | Some other race | 388 | 1.3% |
| HISPANIC OR LATINO AND RACE | | | HISPANIC OR LATINO AND RACE | | |
| Total population | 31,679 | 31,679 | Total population | 30,166 | 30,166 |
| Hispanic or Latino (of any race) | 1,811 | 5.7% | Hispanic or Latino (of any race) | 2,261 | 7.5% |
| Mexican | 462 | 1.5% | Mexican | 362 | 1.2% |
| Puerto Rican | 765 | 2.4% | Puerto Rican | 1,384 | 4.6% |
| Cuban | 54 | 0.2% | Cuban | 11 | 0.0% |
| Other Hispanic or Latino | 530 | 1.7% | Other Hispanic or Latino | 504 | 1.7% |
| Not Hispanic or Latino | 29,868 | 94.3% | Not Hispanic or Latino | 27,905 | 92.5% |
| White alone | 26,069 | 82.3% | White alone | 23,967 | 79.5% |
| Black or African American alone | 1,821 | 5.7% | Black or African American alone | 2,179 | 7.2% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| DEMOGRAPHIC CHARACTERISTICS | Estimate | Percent | DEMOGRAPHIC CHARACTERISTICS | Estimate | Percent |
| American Indian and Alaska Native alone | 66 | 0.2% | American Indian and Alaska Native alone | 221 | 0.7% |
| Asian alone | 734 | 2.3% | Asian alone | 459 | 1.5% |
| Native Hawaiian and Other Pacific Islander alone | 117 | 0.4% | Native Hawaiian and Other Pacific Islander alone | 46 | 0.2% |
| Some other race alone | 80 | 0.3% | Some other race alone | 29 | 0.1% |
| Two or more races | 981 | 3.1% | Two or more races | 1,004 | 3.3% |
| Two races including Some other race | 19 | 0.1% | Two races including Some other race | 0 | 0.0% |
| Two races excluding Some other race, and Three or more races | 962 | 3.0% | Two races excluding Some other race, and Three or more races | 1,004 | 3.3% |
| Total housing units | 14,868 | (X) | Total housing units | 14,957 | (X) |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| SOCIAL CHARACTERISTICS | Estimate | Percent | SOCIAL CHARACTERISTICS | Estimate | Percent |
| HOUSEHOLDS BY TYPE | | | HOUSEHOLDS BY TYPE | | |
| Total households | 13,401 | 13,401 | Total households | 12,721 | 12,721 |
| Family households (families) | 7,456 | 55.6% | Family households (families) | 6,857 | 53.9% |
| With own children under 18 years | 3,865 | 28.8% | With own children of the householder under 18 years | 3,443 | 27.1% |
| Married-couple family | 5,210 | 38.9% | Married-couple family | 4,607 | 36.2% |
| With own children under 18 years | 2,257 | 16.8% | With own children of the householder under 18 years | 1,850 | 14.5% |
| Male householder, no wife present, family | 540 | 4.0% | Male householder, no wife present, family | 640 | 5.0% |
| With own children under 18 years | 376 | 2.8% | With own children of the householder under 18 years | 434 | 3.4% |
| Female householder, no husband present, family | 1,706 | 12.7% | Female householder, no husband present, family | 1,610 | 12.7% |
| With own children under 18 years | 1,232 | 9.2% | With own children of the householder under 18 years | 1,159 | 9.1% |
| Nonfamily households | 5,945 | 44.4% | Nonfamily households | 5,864 | 46.1% |
| Householder living alone | 4,858 | 36.3% | Householder living alone | 4,957 | 39.0% |
| 65 years and over | 1,410 | 10.5% | 65 years and over | 1,392 | 10.9% |
| Households with one or more people under 18 years | 4,109 | 30.7% | Households with one or more people under 18 years | 3,565 | 28.0% |
| Households with one or more people 65 years and over | 2,649 | 19.8% | Households with one or more people 65 years and over | 2,696 | 21.2% |
| Average household size | 2.3 | (X) | Average household size | 2.31 | (X) |
| Average family size | 3.06 | (X) | Average family size | 3.13 | (X) |
| RELATIONSHIP | | | RELATIONSHIP | | |
| Population in households | 30,797 | 30,797 | Population in households | 29,418 | 29,418 |
| Householder | 13,401 | 43.5% | Householder | 12,721 | 43.2% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **SOCIAL CHARACTERISTICS** | **Estimate** | **Percent** | **SOCIAL CHARACTERISTICS** | **Estimate** | **Percent** |
| Spouse | 5,263 | 17.1% | Spouse | 4,751 | 16.1% |
| Child | 8,655 | 28.1% | Child | 8,795 | 29.9% |
| Other relatives | 1,457 | 4.7% | Other relatives | 1,064 | 3.6% |
| Nonrelatives | 2,021 | 6.6% | Nonrelatives | 2,087 | 7.1% |
| Unmarried partner | 1,180 | 3.8% | Unmarried partner | 866 | 2.9% |
| MARITAL STATUS | | | MARITAL STATUS | | |
| Males 15 years and over | 12,088 | 12,088 | Males 15 years and over | 11,958 | 11,958 |
| Never married | 4,037 | 33.4% | Never married | 4,665 | 39.0% |
| Now married, except separated | 5,813 | 48.1% | Now married, except separated | 5,471 | 45.8% |
| Separated | 545 | 4.5% | Separated | 197 | 1.6% |
| Widowed | 392 | 3.2% | Widowed | 332 | 2.8% |
| Divorced | 1,301 | 10.8% | Divorced | 1,293 | 10.8% |
| Females 15 years and over | 12,807 | 12,807 | Females 15 years and over | 11,994 | 11,994 |
| Never married | 3,552 | 27.7% | Never married | 3,671 | 30.6% |
| Now married, except separated | 5,538 | 43.2% | Now married, except separated | 4,898 | 40.8% |
| Separated | 714 | 5.6% | Separated | 447 | 3.7% |
| Widowed | 1,351 | 10.5% | Widowed | 1,196 | 10.0% |
| Divorced | 1,652 | 12.9% | Divorced | 1,782 | 14.9% |
| FERTILITY | | | FERTILITY | | |
| Number of women 15 to 50 years old who had a birth in the past 12 months | 658 | 658 | Number of women 15 to 50 years old who had a birth in the past 12 months | 467 | 467 |
| Unmarried women (widowed, divorced, and never married) | 212 | 32.2% | Unmarried women (widowed, divorced, and never married) | 152 | 32.5% |
| Per 1,000 unmarried women | 56 | (X) | Per 1,000 unmarried women | 38 | (X) |
| Per 1,000 women 15 to 50 years old | 83 | (X) | Per 1,000 women 15 to 50 years old | 62 | (X) |
| Per 1,000 women 15 to 19 years old | 36 | (X) | Per 1,000 women 15 to 19 years old | 16 | (X) |
| Per 1,000 women 20 to 34 years old | 137 | (X) | Per 1,000 women 20 to 34 years old | 100 | (X) |
| Per 1,000 women 35 to 50 years old | 18 | (X) | Per 1,000 women 35 to 50 years old | 21 | (X) |
| GRANDPARENTS | | | GRANDPARENTS | | |
| Number of grandparents living with own grandchildren under 18 years | 532 | 532 | Number of grandparents living with own grandchildren under 18 years | 272 | 272 |
| Responsible for grandchildren | 227 | 42.7% | Grandparents responsible for grandchildren | 62 | 22.8% |
| Years responsible for grandchildren | | | Years responsible for grandchildren | | |
| Less than 1 year | 69 | 13.0% | Less than 1 year | 9 | 3.3% |
| 1 or 2 years | 20 | 3.8% | 1 or 2 years | 17 | 6.3% |
| 3 or 4 years | 54 | 10.2% | 3 or 4 years | 8 | 2.9% |
| 5 or more years | 84 | 15.8% | 5 or more years | 28 | 10.3% |
| Number of grandparents responsible for own grandchildren under 18 years | 227 | 227 | Number of grandparents responsible for own grandchildren under 18 years | 62 | 62 |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| SOCIAL CHARACTERISTICS | Estimate | Percent | SOCIAL CHARACTERISTICS | Estimate | Percent |
| Who are female | 152 | 67.0% | Who are female | 23 | 37.1% |
| Who are married | 177 | 78.0% | Who are married | 46 | 74.2% |
| EDUCATIONAL ATTAINMENT | | | EDUCATIONAL ATTAINMENT | | |
| Population 25 years and over | 20,007 | 20,007 | Population 25 years and over | 19,550 | 19,550 |
| Less than 9th grade | 709 | 3.5% | Less than 9th grade | 523 | 2.7% |
| 9th to 12th grade, no diploma | 1,616 | 8.1% | 9th to 12th grade, no diploma | 1,307 | 6.7% |
| High school graduate (includes equivalency) | 6,231 | 31.1% | High school graduate (includes equivalency) | 6,461 | 33.0% |
| Some college, no degree | 4,569 | 22.8% | Some college, no degree | 4,773 | 24.4% |
| Associate's degree | 2,432 | 12.2% | Associate's degree | 2,113 | 10.8% |
| Bachelor's degree | 2,667 | 13.3% | Bachelor's degree | 2,522 | 12.9% |
| Graduate or professional degree | 1,783 | 8.9% | Graduate or professional degree | 1,851 | 9.5% |
| Percent high school graduate or higher | (X) | 88.4% | High school graduate or higher | 17,720 | 90.6% |
| Percent bachelor's degree or higher | (X) | 22.2% | Bachelor's degree or higher | 4,373 | 22.4% |
| VETERAN STATUS | | | VETERAN STATUS | | |
| Civilian population 18 years and over | 22,454 | 22,454 | Civilian population 18 years and over | 21,677 | 21,677 |
| Civilian veterans | 2,841 | 12.7% | Civilian veterans | 2,851 | 13.2% |
| DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION | | | DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION | | |
| Total Civilian Noninstitutionalized Population | 29,547 | 29,547 | Total Civilian Noninstitutionalized Population | 28,432 | 28,432 |
| With a disability | 4,261 | 14.4% | With a disability | 4,694 | 16.5% |
| Under 18 years | 7,668 | 7,668 | Under 18 years | 7,202 | 7,202 |
| With a disability | 269 | 3.5% | With a disability | 389 | 5.4% |
| 18 to 64 years | 18,308 | 18,308 | 18 to 64 years | 17,746 | 17,746 |
| With a disability | 2,546 | 13.9% | With a disability | 2,914 | 16.4% |
| 65 years and over | 3,571 | 3,571 | 65 years and over | 3,484 | 3,484 |
| With a disability | 1,446 | 40.5% | With a disability | 1,391 | 39.9% |
| RESIDENCE 1 YEAR AGO | | | RESIDENCE 1 YEAR AGO | | |
| Population 1 year and over | 31,121 | 31,121 | Population 1 year and over | 29,642 | 29,642 |
| Same house | 22,119 | 71.1% | Same house | 22,697 | 76.6% |
| Different house in the U.S. | 8,213 | 26.4% | Different house in the U.S. | 6,516 | 22.0% |
| Same county | 5,036 | 16.2% | Same county | 4,074 | 13.7% |
| Different county | 3,177 | 10.2% | | | |
| Same state | 954 | 3.1% | Same state | 918 | 3.0% |
| Different state | 2,223 | 7.1% | Different state | 1,534 | 5.1% |
| Abroad | 789 | 2.5% | Abroad | 429 | 1.4% |
| PLACE OF BIRTH | | | PLACE OF BIRTH | | |
| Total population | 31,679 | 31,679 | Total population | 30,166 | 30,166 |
| Native | 29,967 | 94.6% | Native | 28,786 | 95.4% |
| Born in United States | 29,336 | 92.6% | Born in United States | 27,960 | 92.7% |
| State of residence | 21,711 | 68.5% | State of residence | 21,195 | 70.3% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| SOCIAL CHARACTERISTICS | Estimate | Percent | SOCIAL CHARACTERISTICS | Estimate | Percent |
| Different state | 7,625 | 24.1% | Different state | 6,765 | 22.4% |
| Born in Puerto Rico, U.S. Island areas, or born abroad to American parent(s) | 631 | 2.0% | Born in Puerto Rico, U.S. Island areas, or born abroad to American parent(s) | 826 | 2.7% |
| Foreign born | 1,712 | 5.4% | Foreign born | 1,380 | 4.6% |
| U.S. CITIZENSHIP STATUS | | | U.S. CITIZENSHIP STATUS | | |
| Foreign-born population | 1,712 | 1,712 | Foreign-born population | 1,380 | 1,380 |
| Naturalized U.S. citizen | 684 | 40.0% | Naturalized U.S. citizen | 671 | 48.6% |
| Not a U.S. citizen | 1,028 | 60.0% | Not a U.S. citizen | 709 | 51.4% |
| YEAR OF ENTRY | | | YEAR OF ENTRY | | |
| Population born outside the United States | 2,343 | 2,343 | Population born outside the United States | 2,206 | 2,206 |
| Native | 631 | 631 | Native | 826 | 826 |
| Entered 2010 or later | 0 | 0.0% | Entered 2010 or later | 46 | 5.6% |
| Entered before 2010 | 631 | 100.0% | Entered before 2010 | 780 | 94.4% |
| Foreign born | 1,712 | 1,712 | Foreign born | 1,380 | 1,380 |
| Entered 2010 or later | 165 | 9.6% | Entered 2010 or later | 290 | 21.0% |
| Entered before 2010 | 1,547 | 90.4% | Entered before 2010 | 1,090 | 79.0% |
| WORLD REGION OF BIRTH OF FOREIGN BORN | | | WORLD REGION OF BIRTH OF FOREIGN BORN | | |
| Foreign-born population, excluding population born at sea | 1,712 | 1,712 | Foreign-born population, excluding population born at sea | 1,380 | 1,380 |
| Europe | 492 | 28.7% | Europe | 264 | 19.1% |
| Asia | 515 | 30.1% | Asia | 398 | 28.8% |
| Africa | 97 | 5.7% | Africa | 21 | 1.5% |
| Oceania | 10 | 0.6% | Oceania | 46 | 3.3% |
| Latin America | 472 | 27.6% | Latin America | 416 | 30.1% |
| Northern America | 126 | 7.4% | Northern America | 235 | 17.0% |
| LANGUAGE SPOKEN AT HOME | | | LANGUAGE SPOKEN AT HOME | | |
| Population 5 years and over | 28,648 | 28,648 | Population 5 years and over | 27,883 | 27,883 |
| English only | 26,210 | 91.5% | English only | 25,849 | 92.7% |
| Language other than English | 2,438 | 8.5% | Language other than English | 2,034 | 7.3% |
| Speak English less than "very well" | 451 | 1.6% | Speak English less than "very well" | 797 | 2.9% |
| Spanish | 1,070 | 3.7% | Spanish | 1,354 | 4.9% |
| Speak English less than "very well" | 248 | 0.9% | Speak English less than "very well" | 601 | 2.2% |
| Other Indo-European languages | 868 | 3.0% | Other Indo-European languages | 436 | 1.6% |
| Speak English less than "very well" | 129 | 0.5% | Speak English less than "very well" | 62 | 0.2% |
| Asian and Pacific Islander languages | 421 | 1.5% | Asian and Pacific Islander languages | 168 | 0.6% |
| Speak English less than "very well" | 74 | 0.3% | Speak English less than "very well" | 97 | 0.3% |
| Other languages | 79 | 0.3% | Other languages | 76 | 0.3% |
| Speak English less than "very well" | 0 | 0.0% | Speak English less than "very well" | 37 | 0.1% |
| ANCESTRY | | | ANCESTRY | | |
| Total population | 31,679 | 31,679 | Total population | 30,166 | 30,166 |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| SOCIAL CHARACTERISTICS | Estimate | Percent | SOCIAL CHARACTERISTICS | Estimate | Percent |
| American | 1,485 | 4.7% | American | 1,297 | 4.3% |
| Arab | 142 | 0.4% | Arab | 102 | 0.3% |
| Czech | 46 | 0.1% | Czech | 30 | 0.1% |
| Danish | 29 | 0.1% | Danish | 36 | 0.1% |
| Dutch | 511 | 1.6% | Dutch | 464 | 1.5% |
| English | 2,876 | 9.1% | English | 2,130 | 7.1% |
| French (except Basque) | 2,824 | 8.9% | French (except Basque) | 2,907 | 9.6% |
| French Canadian | 915 | 2.9% | French Canadian | 729 | 2.4% |
| German | 4,496 | 14.2% | German | 3,877 | 12.9% |
| Greek | 59 | 0.2% | Greek | 219 | 0.7% |
| Hungarian | 137 | 0.4% | Hungarian | 175 | 0.6% |
| Irish | 6,978 | 22.0% | Irish | 5,813 | 19.3% |
| Italian | 4,647 | 14.7% | Italian | 3,679 | 12.2% |
| Lithuanian | 44 | 0.1% | Lithuanian | 23 | 0.1% |
| Norwegian | 75 | 0.2% | Norwegian | 81 | 0.3% |
| Polish | 1,162 | 3.7% | Polish | 745 | 2.5% |
| Portuguese | 13 | 0.0% | Portuguese | 4 | 0.0% |
| Russian | 324 | 1.0% | Russian | 67 | 0.2% |
| Scotch-Irish | 102 | 0.3% | Scotch-Irish | 72 | 0.2% |
| Scottish | 888 | 2.8% | Scottish | 478 | 1.6% |
| Slovak | 0 | 0.0% | Slovak | 52 | 0.2% |
| Subsaharan African | 190 | 0.6% | Subsaharan African | 144 | 0.5% |
| Swedish | 130 | 0.4% | Swedish | 146 | 0.5% |
| Swiss | 103 | 0.3% | Swiss | 133 | 0.4% |
| Ukrainian | 92 | 0.3% | Ukrainian | 75 | 0.2% |
| Welsh | 306 | 1.0% | Welsh | 244 | 0.8% |
| West Indian (excluding Hispanic origin groups) | 452 | 1.4% | West Indian (excluding Hispanic origin groups) | 327 | 1.1% |
| COMPUTERS AND INTERNET USE | | | COMPUTERS AND INTERNET USE | | |
| Total Households | (X) | (X) | Total households | 12,721 | 12,721 |
| With a computer | (X) | (X) | With a computer | 11,250 | 88.4% |
| With a broadband Internet subscription | (X) | (X) | With a broadband Internet subscription | 10,005 | 78.6% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| ECONOMIC CHARACTERISTICS | Estimate | Percent | ECONOMIC CHARACTERISTICS | Estimate | Percent |
| EMPLOYMENT STATUS | | | EMPLOYMENT STATUS | | |
| Population 16 years and over | 24,673 | 24,673 | Population 16 years and over | 23,686 | 23,686 |
| In labor force | 16,080 | 65.2% | In labor force | 15,117 | 63.8% |
| Civilian labor force | 14,551 | 59.0% | Civilian labor force | 13,853 | 58.5% |
| Employed | 12,989 | 52.6% | Employed | 13,050 | 55.1% |
| Unemployed | 1,562 | 6.3% | Unemployed | 803 | 3.4% |
| Armed Forces | 1,529 | 6.2% | Armed Forces | 1,264 | 5.3% |
| Not in labor force | 8,593 | 34.8% | Not in labor force | 8,569 | 36.2% |
| Civilian labor force | 14,551 | 14,551 | Civilian labor force | 13,853 | 13,853 |
| Percent Unemployed | (X) | 10.7% | Unemployment Rate | (X) | 5.8% |
| Females 16 years and over | 12,701 | 12,701 | Females 16 years and over | 11,866 | 11,866 |
| In labor force | 7,517 | 59.2% | In labor force | 7,039 | 59.3% |
| Civilian labor force | 7,325 | 57.7% | Civilian labor force | 6,873 | 57.9% |
| Employed | 6,555 | 51.6% | Employed | 6,365 | 53.6% |
| Own children under 6 years | 3,157 | 3,157 | Own children of the householder under 6 years | 2,770 | 2,770 |
| All parents in family in labor force | 2,293 | 72.6% | All parents in family in labor force | 1,526 | 55.1% |
| Own children 6 to 17 years | 4,100 | 4,100 | Own children of the householder 6 to 17 years | 4,251 | 4,251 |
| All parents in family in labor force | 2,673 | 65.2% | All parents in family in labor force | 3,085 | 72.6% |
| COMMUTING TO WORK | | | COMMUTING TO WORK | | |
| Workers 16 years and over | 14,201 | 14,201 | Workers 16 years and over | 13,959 | 13,959 |
| Car, truck, or van -- drove alone | 10,745 | 75.7% | Car, truck, or van -- drove alone | 10,817 | 77.5% |
| Car, truck, or van -- carpooled | 1,796 | 12.6% | Car, truck, or van -- carpooled | 1,743 | 12.5% |
| Public transportation (excluding taxicab) | 170 | 1.2% | Public transportation (excluding taxicab) | 146 | 1.0% |
| Walked | 791 | 5.6% | Walked | 472 | 3.4% |
| Other means | 262 | 1.8% | Other means | 435 | 3.1% |
| Worked at home | 437 | 3.1% | Worked at home | 346 | 2.5% |
| Mean travel time to work (minutes) | 15.9 | (X) | Mean travel time to work (minutes) | 14.7 | (X) |
| OCCUPATION | | | OCCUPATION | | |
| Civilian employed population 16 years and over | 12,989 | 12,989 | Civilian employed population 16 years and over | 13,050 | 13,050 |
| Management, business, science, and arts occupations | 4,348 | 33.5% | Management, business, science, and arts occupations | 4,217 | 32.3% |
| Service occupations | 3,110 | 23.9% | Service occupations | 3,374 | 25.9% |
| Sales and office occupations | 3,305 | 25.4% | Sales and office occupations | 3,106 | 23.8% |
| Natural resources, construction, and maintenance occupations | 1,025 | 7.9% | Natural resources, construction, and maintenance occupations | 1,041 | 8.0% |
| Production, transportation, and material moving occupations | 1,201 | 9.2% | Production, transportation, and material moving occupations | 1,312 | 10.1% |
| INDUSTRY | | | INDUSTRY | | |
| Civilian employed population 16 years and over | 12,989 | 12,989 | Civilian employed population 16 years and over | 13,050 | 13,050 |
| Agriculture, forestry, fishing and hunting, and mining | 62 | 0.5% | Agriculture, forestry, fishing and hunting, and mining | 71 | 0.5% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **ECONOMIC CHARACTERISTICS** | **Estimate** | **Percent** | **ECONOMIC CHARACTERISTICS** | **Estimate** | **Percent** |
| Construction | 570 | 4.4% | Construction | 363 | 2.8% |
| Manufacturing | 739 | 5.7% | Manufacturing | 765 | 5.9% |
| Wholesale trade | 280 | 2.2% | Wholesale trade | 164 | 1.3% |
| Retail trade | 1,889 | 14.5% | Retail trade | 2,012 | 15.4% |
| Transportation and warehousing, and utilities | 365 | 2.8% | Transportation and warehousing, and utilities | 373 | 2.9% |
| Information | 307 | 2.4% | Information | 165 | 1.3% |
| Finance and insurance, and real estate and rental and leasing | 700 | 5.4% | Finance and insurance, and real estate and rental and leasing | 696 | 5.3% |
| Professional, scientific, and management, and administrative and waste management services | 1,145 | 8.8% | Professional, scientific, and management, and administrative and waste management services | 1,137 | 8.7% |
| Educational services, and health care and social assistance | 3,176 | 24.5% | Educational services, and health care and social assistance | 3,570 | 27.4% |
| Arts, entertainment, and recreation, and accommodation and food services | 1,675 | 12.9% | Arts, entertainment, and recreation, and accommodation and food services | 1,612 | 12.4% |
| Other services, except public administration | 597 | 4.6% | Other services, except public administration | 791 | 6.1% |
| Public administration | 1,484 | 11.4% | Public administration | 1,331 | 10.2% |
| CLASS OF WORKER | | | CLASS OF WORKER | | |
| Civilian employed population 16 years and over | 12,989 | 12,989 | Civilian employed population 16 years and over | 13,050 | 13,050 |
| Private wage and salary workers | 9,508 | 73.2% | Private wage and salary workers | 9,702 | 74.3% |
| Government workers | 2,698 | 20.8% | Government workers | 2,736 | 21.0% |
| Self-employed in own not incorporated business workers | 771 | 5.9% | Self-employed in own not incorporated business workers | 595 | 4.6% |
| Unpaid family workers | 12 | 0.1% | Unpaid family workers | 17 | 0.1% |
| INCOME AND BENEFITS (IN 2014 INFLATION-ADJUSTED DOLLARS) | | | INCOME AND BENEFITS (IN 2018 INFLATION-ADJUSTED DOLLARS) | | |
| Total households | 13,401 | 13,401 | Total households | 12,721 | 12,721 |
| Less than $10,000 | 1,303 | 9.7% | Less than $10,000 | 1,193 | 9.4% |
| $10,000 to $14,999 | 1,145 | 8.5% | $10,000 to $14,999 | 825 | 6.5% |
| $15,000 to $24,999 | 1,589 | 11.9% | $15,000 to $24,999 | 1,624 | 12.8% |
| $25,000 to $34,999 | 1,514 | 11.3% | $25,000 to $34,999 | 1,490 | 11.7% |
| $35,000 to $49,999 | 2,167 | 16.2% | $35,000 to $49,999 | 2,132 | 16.8% |
| $50,000 to $74,999 | 3,083 | 23.0% | $50,000 to $74,999 | 2,355 | 18.5% |
| $75,000 to $99,999 | 1,107 | 8.3% | $75,000 to $99,999 | 1,474 | 11.6% |
| $100,000 to $149,999 | 1,028 | 7.7% | $100,000 to $149,999 | 1,109 | 8.7% |
| $150,000 to $199,999 | 231 | 1.7% | $150,000 to $199,999 | 244 | 1.9% |
| $200,000 or more | 234 | 1.7% | $200,000 or more | 275 | 2.2% |
| Median household income (dollars) | 42,542 | (X) | Median household income (dollars) | 43,883 | (X) |
| Mean household income (dollars) | 53,354 | (X) | Mean household income (dollars) | 57,958 | (X) |
| With earnings | 10,141 | 75.7% | With earnings | 9,531 | 74.9% |
| Mean earnings (dollars) | 55,206 | (X) | Mean earnings (dollars) | 59,060 | (X) |
| With Social Security | 3,720 | 27.8% | With Social Security | 3,461 | 27.2% |
| Mean Social Security income (dollars) | 15,215 | (X) | Mean Social Security income (dollars) | 16,953 | (X) |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| ECONOMIC CHARACTERISTICS | Estimate | Percent | ECONOMIC CHARACTERISTICS | Estimate | Percent |
| With retirement income | 2,274 | 17.0% | With retirement income | 2,386 | 18.8% |
| Mean retirement income (dollars) | 19,385 | (X) | Mean retirement income (dollars) | 20,952 | (X) |
| With Supplemental Security Income | 1,281 | 9.6% | With Supplemental Security Income | 1,053 | 8.3% |
| Mean Supplemental Security Income (dollars) | 9,230 | (X) | Mean Supplemental Security Income (dollars) | 8,303 | (X) |
| With cash public assistance income | 498 | 3.7% | With cash public assistance income | 571 | 4.5% |
| Mean cash public assistance income (dollars) | 3,665 | (X) | Mean cash public assistance income (dollars) | 3,205 | (X) |
| With Food Stamp/SNAP benefits in the past 12 months | 3,326 | 24.8% | With Food Stamp/SNAP benefits in the past 12 months | 3,215 | 25.3% |
| Families | 7,456 | 7,456 | Families | 6,857 | 6,857 |
| Less than $10,000 | 529 | 7.1% | Less than $10,000 | 419 | 6.1% |
| $10,000 to $14,999 | 331 | 4.4% | $10,000 to $14,999 | 232 | 3.4% |
| $15,000 to $24,999 | 723 | 9.7% | $15,000 to $24,999 | 705 | 10.3% |
| $25,000 to $34,999 | 665 | 8.9% | $25,000 to $34,999 | 779 | 11.4% |
| $35,000 to $49,999 | 1,103 | 14.8% | $35,000 to $49,999 | 1,162 | 16.9% |
| $50,000 to $74,999 | 2,014 | 27.0% | $50,000 to $74,999 | 1,330 | 19.4% |
| $75,000 to $99,999 | 856 | 11.5% | $75,000 to $99,999 | 919 | 13.4% |
| $100,000 to $149,999 | 814 | 10.9% | $100,000 to $149,999 | 880 | 12.8% |
| $150,000 to $199,999 | 201 | 2.7% | $150,000 to $199,999 | 204 | 3.0% |
| $200,000 or more | 220 | 3.0% | $200,000 or more | 227 | 3.3% |
| Median family income (dollars) | 55,924 | (X) | Median family income (dollars) | 52,472 | (X) |
| Mean family income (dollars) | 66,284 | (X) | Mean family income (dollars) | 70,496 | (X) |
| Per capita income (dollars) | 23,197 | (X) | Per capita income (dollars) | 25,131 | (X) |
| Nonfamily households | 5,945 | 5,945 | Nonfamily households | 5,864 | 5,864 |
| Median nonfamily income (dollars) | 28,830 | (X) | Median nonfamily income (dollars) | 31,234 | (X) |
| Mean nonfamily income (dollars) | 35,289 | (X) | Mean nonfamily income (dollars) | 40,951 | (X) |
| Median earnings for workers (dollars) | 26,872 | (X) | Median earnings for workers (dollars) | 26,462 | (X) |
| Median earnings for male full-time, year-round workers (dollars) | 41,878 | (X) | Median earnings for male full-time, year-round workers (dollars) | 40,030 | (X) |
| Median earnings for female full-time, year-round workers (dollars) | 33,197 | (X) | Median earnings for female full-time, year-round workers (dollars) | 31,550 | (X) |
| HEALTH INSURANCE COVERAGE | | | HEALTH INSURANCE COVERAGE | | |
| Civilian noninstitutionalized population | 29,547 | 29,547 | Civilian noninstitutionalized population | 28,432 | 28,432 |
| With health insurance coverage | 26,776 | 90.6% | With health insurance coverage | 26,681 | 93.8% |
| With private health insurance | 18,805 | 63.6% | With private health insurance | 17,061 | 60.0% |
| With public coverage | 12,479 | 42.2% | With public coverage | 13,442 | 47.3% |
| No health insurance coverage | 2,771 | 9.4% | No health insurance coverage | 1,751 | 6.2% |
| Civilian noninstitutionalized population under 18 years | 7,668 | 7,668 | Civilian noninstitutionalized population under 19 years | 7,574 | 7,574 |
| No health insurance coverage | 363 | 4.7% | No health insurance coverage | 250 | 3.3% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **ECONOMIC CHARACTERISTICS** | **Estimate** | **Percent** | **ECONOMIC CHARACTERISTICS** | **Estimate** | **Percent** |
| Civilian noninstitutionalized population 18 to 64 years | 18,308 | 18,308 | Civilian noninstitutionalized population 19 to 64 years | 17,374 | 17,374 |
| In labor force: | 13,860 | 13,860 | In labor force: | 12,932 | 12,932 |
| Employed: | 12,327 | 12,327 | Employed: | 12,324 | 12,324 |
| With health insurance coverage | 10,712 | 86.9% | With health insurance coverage | 11,347 | 92.1% |
| With private health insurance | 9,191 | 74.6% | With private health insurance | 8,969 | 72.8% |
| With public coverage | 2,128 | 17.3% | With public coverage | 3,017 | 24.5% |
| No health insurance coverage | 1,615 | 13.1% | No health insurance coverage | 977 | 7.9% |
| Unemployed: | 1,533 | 1,533 | Unemployed: | 608 | 608 |
| With health insurance coverage | 1,015 | 66.2% | With health insurance coverage | 485 | 79.8% |
| With private health insurance | 376 | 24.5% | With private health insurance | 113 | 18.6% |
| With public coverage | 639 | 41.7% | With public coverage | 401 | 66.0% |
| No health insurance coverage | 518 | 33.8% | No health insurance coverage | 123 | 20.2% |
| Not in labor force: | 4,448 | 4,448 | Not in labor force: | 4,442 | 4,442 |
| With health insurance coverage | 4,173 | 93.8% | With health insurance coverage | 4,041 | 91.0% |
| With private health insurance | 2,108 | 47.4% | With private health insurance | 1,708 | 38.5% |
| With public coverage | 2,536 | 57.0% | With public coverage | 2,717 | 61.2% |
| No health insurance coverage | 275 | 6.2% | No health insurance coverage | 401 | 9.0% |
| PERCENTAGE OF FAMILIES AND PEOPLE WHOSE INCOME IN THE PAST 12 MONTHS IS BELOW THE POVERTY LEVEL | | | | | |
| All families | (X) | 16.0% | All families | (X) | 17.5% |
| With related children under 18 years | (X) | 24.9% | With related children of the householder under 18 years | (X) | 30.3% |
| With related children under 5 years only | (X) | 28.5% | With related children of the householder under 5 years only | (X) | 27.9% |
| Married couple families | (X) | 5.3% | Married couple families | (X) | 7.8% |
| With related children under 18 years | (X) | 6.9% | With related children of the householder under 18 years | (X) | 14.4% |
| With related children under 5 years only | (X) | 5.8% | With related children of the householder under 5 years only | (X) | 14.0% |
| Families with female householder, no husband present | (X) | 47.7% | Families with female householder, no husband present | (X) | 41.5% |
| With related children under 18 years | (X) | 57.7% | With related children of the householder under 18 years | (X) | 52.9% |
| With related children under 5 years only | (X) | 69.3% | With related children of the householder under 5 years only | (X) | 67.7% |
| All people | (X) | 20.4% | All people | (X) | 22.8% |
| Under 18 years | (X) | 28.6% | Under 18 years | (X) | 37.9% |
| Related children under 18 years | (X) | 28.6% | Related children of the householder under 18 years | (X) | 37.9% |
| Related children under 5 years | (X) | 32.8% | Related children of the householder under 5 years | (X) | 41.7% |
| Related children 5 to 17 years | (X) | 25.9% | Related children of the householder 5 to 17 years | (X) | 36.1% |
| 18 years and over | (X) | 17.7% | 18 years and over | (X) | 18.0% |
| 18 to 64 years | (X) | 19.6% | 18 to 64 years | (X) | 19.7% |
| 65 years and over | (X) | 7.6% | 65 years and over | (X) | 9.2% |
| People in families | (X) | 17.3% | People in families | (X) | 20.9% |
| Unrelated individuals 15 years and over | (X) | 28.9% | Unrelated individuals 15 years and over | (X) | 27.7% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **HOUSING CHARACTERISTICS** | **Estimate** | **Percent** | **HOUSING CHARACTERISTICS** | **Estimate** | **Percent** |
| HOUSING OCCUPANCY | | | HOUSING OCCUPANCY | | |
| Total housing units | 14,868 | 14,868 | Total housing units | 14,957 | 14,957 |
| Occupied housing units | 13,401 | 90.1% | Occupied housing units | 12,721 | 85.1% |
| Vacant housing units | 1,467 | 9.9% | Vacant housing units | 2,236 | 14.9% |
| Homeowner vacancy rate | 3.4 | (X) | Homeowner vacancy rate | 3.8 | (X) |
| Rental vacancy rate | 6.4 | (X) | Rental vacancy rate | 10.7 | (X) |
| UNITS IN STRUCTURE | | | UNITS IN STRUCTURE | | |
| Total housing units | 14,868 | 14,868 | Total housing units | 14,957 | 14,957 |
| 1-unit, detached | 6,424 | 43.2% | 1-unit, detached | 6,549 | 43.8% |
| 1-unit, attached | 666 | 4.5% | 1-unit, attached | 1,019 | 6.8% |
| 2 units | 1,713 | 11.5% | 2 units | 1,694 | 11.3% |
| 3 or 4 units | 2,084 | 14.0% | 3 or 4 units | 1,880 | 12.6% |
| 5 to 9 units | 1,578 | 10.6% | 5 to 9 units | 1,768 | 11.8% |
| 10 to 19 units | 445 | 3.0% | 10 to 19 units | 378 | 2.5% |
| 20 or more units | 1,557 | 10.5% | 20 or more units | 1,407 | 9.4% |
| Mobile home | 401 | 2.7% | Mobile home | 262 | 1.8% |
| Boat, RV, van, etc. | 0 | 0.0% | Boat, RV, van, etc. | 0 | 0.0% |
| YEAR STRUCTURE BUILT | | | YEAR STRUCTURE BUILT | | |
| Total housing units | 14,868 | 14,868 | Total housing units | 14,957 | 14,957 |
| | | | Built 2014 or later | 216 | 1.4% |
| Built 2010 or later | 58 | 0.4% | Built 2010 to 2013 | 189 | 1.3% |
| Built 2000 to 2009 | 538 | 3.6% | Built 2000 to 2009 | 364 | 2.4% |
| Built 1990 to 1999 | 665 | 4.5% | Built 1990 to 1999 | 722 | 4.8% |
| Built 1980 to 1989 | 1,217 | 8.2% | Built 1980 to 1989 | 1,538 | 10.3% |
| Built 1970 to 1979 | 1,223 | 8.2% | Built 1970 to 1979 | 1,286 | 8.6% |
| Built 1960 to 1969 | 1,001 | 6.7% | Built 1960 to 1969 | 1,126 | 7.5% |
| Built 1950 to 1959 | 1,382 | 9.3% | Built 1950 to 1959 | 1,461 | 9.8% |
| Built 1940 to 1949 | 901 | 6.1% | Built 1940 to 1949 | 750 | 5.0% |
| Built 1939 or earlier | 7,883 | 53.0% | Built 1939 or earlier | 7,305 | 48.8% |
| ROOMS | | | ROOMS | | |
| Total housing units | 14,868 | 14,868 | Total housing units | 14,957 | 14,957 |
| 1 room | 211 | 1.4% | 1 room | 587 | 3.9% |
| 2 rooms | 307 | 2.1% | 2 rooms | 496 | 3.3% |
| 3 rooms | 1,920 | 12.9% | 3 rooms | 1,527 | 10.2% |
| 4 rooms | 2,770 | 18.6% | 4 rooms | 2,516 | 16.8% |
| 5 rooms | 2,416 | 16.2% | 5 rooms | 2,676 | 17.9% |
| 6 rooms | 2,360 | 15.9% | 6 rooms | 2,414 | 16.1% |
| 7 rooms | 2,086 | 14.0% | 7 rooms | 1,661 | 11.1% |
| 8 rooms | 1,105 | 7.4% | 8 rooms | 1,307 | 8.7% |
| 9 rooms or more | 1,693 | 11.4% | 9 rooms or more | 1,773 | 11.9% |
| Median rooms | 5.4 | (X) | Median rooms | 5.4 | (X) |
| BEDROOMS | | | BEDROOMS | | |
| Total housing units | 14,868 | 14,868 | Total housing units | 14,957 | 14,957 |
| No bedroom | 253 | 1.7% | No bedroom | 613 | 4.1% |
| 1 bedroom | 2,808 | 18.9% | 1 bedroom | 2,284 | 15.3% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| HOUSING CHARACTERISTICS | Estimate | Percent | HOUSING CHARACTERISTICS | Estimate | Percent |
| 2 bedrooms | 4,403 | 29.6% | 2 bedrooms | 4,596 | 30.7% |
| 3 bedrooms | 4,878 | 32.8% | 3 bedrooms | 4,874 | 32.6% |
| 4 bedrooms | 2,084 | 14.0% | 4 bedrooms | 2,017 | 13.5% |
| 5 or more bedrooms | 442 | 3.0% | 5 or more bedrooms | 573 | 3.8% |
| HOUSING TENURE | | | HOUSING TENURE | | |
| Occupied housing units | 13,401 | 13,401 | Occupied housing units | 12,721 | 12,721 |
| Owner-occupied | 5,838 | 43.6% | Owner-occupied | 5,493 | 43.2% |
| Renter-occupied | 7,563 | 56.4% | Renter-occupied | 7,228 | 56.8% |
| Average household size of owner-occupied unit | 2.51 | (X) | Average household size of owner-occupied unit | 2.47 | (X) |
| Average household size of renter-occupied unit | 2.13 | (X) | Average household size of renter-occupied unit | 2.19 | (X) |
| YEAR HOUSEHOLDER MOVED INTO UNIT | | | YEAR HOUSEHOLDER MOVED INTO UNIT | | |
| Occupied housing units | 13,401 | 13,401 | Occupied housing units | 12,721 | 12,721 |
| Moved in 2010 or later | 5,016 | 37.4% | Moved in 2017 or later | 916 | 7.2% |
| Moved in 2000 to 2009 | 4,723 | 35.2% | Moved in 2015 to 2016 | 2,222 | 17.5% |
| Moved in 1990 to 1999 | 1,553 | 11.6% | Moved in 2010 to 2014 | 4,254 | 33.4% |
| Moved in 1980 to 1989 | 856 | 6.4% | Moved in 2000 to 2009 | 2,531 | 19.9% |
| Moved in 1970 to 1979 | 643 | 4.8% | Moved in 1990 to 1999 | 1,258 | 9.9% |
| Moved in 1969 or earlier | 610 | 4.6% | Moved in 1989 and earlier | 1,540 | 12.1% |
| VEHICLES AVAILABLE | | | VEHICLES AVAILABLE | | |
| Occupied housing units | 13,401 | 13,401 | Occupied housing units | 12,721 | 12,721 |
| No vehicles available | 2,259 | 16.9% | No vehicles available | 2,163 | 17.0% |
| 1 vehicle available | 5,468 | 40.8% | 1 vehicle available | 5,564 | 43.7% |
| 2 vehicles available | 4,354 | 32.5% | 2 vehicles available | 3,965 | 31.2% |
| 3 or more vehicles available | 1,320 | 9.9% | 3 or more vehicles available | 1,029 | 8.1% |
| HOUSE HEATING FUEL | | | HOUSE HEATING FUEL | | |
| Occupied housing units | 13,401 | 13,401 | Occupied housing units | 12,721 | 12,721 |
| Utility gas | 8,805 | 65.7% | Utility gas | 8,385 | 65.9% |
| Bottled, tank, or LP gas | 247 | 1.8% | Bottled, tank, or LP gas | 298 | 2.3% |
| Electricity | 3,021 | 22.5% | Electricity | 3,281 | 25.8% |
| Fuel oil, kerosene, etc. | 861 | 6.4% | Fuel oil, kerosene, etc. | 410 | 3.2% |
| Coal or coke | 0 | 0.0% | Coal or coke | 0 | 0.0% |
| Wood | 188 | 1.4% | Wood | 108 | 0.8% |
| Solar energy | 0 | 0.0% | Solar energy | 0 | 0.0% |
| Other fuel | 178 | 1.3% | Other fuel | 171 | 1.3% |
| No fuel used | 101 | 0.8% | No fuel used | 68 | 0.5% |
| SELECTED CHARACTERISTICS | | | SELECTED CHARACTERISTICS | | |
| Occupied housing units | 13,401 | 13,401 | Occupied housing units | 12,721 | 12,721 |
| Lacking complete plumbing facilities | 11 | 0.1% | Lacking complete plumbing facilities | 7 | 0.1% |
| Lacking complete kitchen facilities | 71 | 0.5% | | | |
| No telephone service available | 480 | 3.6% | No telephone service available | 358 | 2.8% |
| OCCUPANTS PER ROOM | | | OCCUPANTS PER ROOM | | |
| Occupied housing units | 13,401 | 13,401 | Occupied housing units | 12,721 | 12,721 |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| **HOUSING CHARACTERISTICS** | Estimate | Percent | **HOUSING CHARACTERISTICS** | Estimate | Percent |
| 1.00 or less | 13,168 | 98.3% | 1.00 or less | 12,472 | 98.0% |
| 1.01 to 1.50 | 221 | 1.6% | 1.01 to 1.50 | 194 | 1.5% |
| 1.51 or more | 12 | 0.1% | 1.51 or more | 55 | 0.4% |
| VALUE | | | VALUE | | |
| Owner-occupied units | 5,838 | 5,838 | Owner-occupied units | 5,493 | 5,493 |
| Less than $50,000 | 602 | 10.3% | Less than $50,000 | 433 | 7.9% |
| $50,000 to $99,999 | 1,339 | 22.9% | $50,000 to $99,999 | 1,113 | 20.3% |
| $100,000 to $149,999 | 1,574 | 27.0% | $100,000 to $149,999 | 1,612 | 29.3% |
| $150,000 to $199,999 | 1,180 | 20.2% | $150,000 to $199,999 | 1,150 | 20.9% |
| $200,000 to $299,999 | 785 | 13.4% | $200,000 to $299,999 | 795 | 14.5% |
| $300,000 to $499,999 | 289 | 5.0% | $300,000 to $499,999 | 256 | 4.7% |
| $500,000 to $999,999 | 58 | 1.0% | $500,000 to $999,999 | 64 | 1.2% |
| $1,000,000 or more | 11 | 0.2% | $1,000,000 or more | 70 | 1.3% |
| Median (dollars) | 123,800 | (X) | Median (dollars) | 132,500 | (X) |
| MORTGAGE STATUS | | | MORTGAGE STATUS | | |
| Owner-occupied units | 5,838 | 5,838 | Owner-occupied units | 5,493 | 5,493 |
| Housing units with a mortgage | 3,682 | 63.1% | Housing units with a mortgage | 3,280 | 59.7% |
| Housing units without a mortgage | 2,156 | 36.9% | Housing units without a mortgage | 2,213 | 40.3% |
| SELECTED MONTHLY OWNER COSTS (SMOC) | | | SELECTED MONTHLY OWNER COSTS (SMOC) | | |
| Housing units with a mortgage | 3,682 | 3,682 | Housing units with a mortgage | 3,280 | 3,280 |
| Less than $300 | 17 | 0.5% | Less than $500 | 63 | 1.9% |
| $300 to $499 | 56 | 1.5% | $500 to $999 | 955 | 29.1% |
| $500 to $699 | 293 | 8.0% | $1,000 to $1,499 | 1,439 | 43.9% |
| $700 to $999 | 1,011 | 27.5% | $1,500 to $1,999 | 458 | 14.0% |
| $1,000 to $1,499 | 1,326 | 36.0% | $2,000 to $2,499 | 247 | 7.5% |
| $1,500 to $1,999 | 526 | 14.3% | $2,500 to $2,999 | 52 | 1.6% |
| $2,000 or more | 453 | 12.3% | $3,000 or more | 66 | 2.0% |
| Median (dollars) | 1,153 | (X) | Median (dollars) | 1,171 | (X) |
| Housing units without a mortgage | 2,156 | 2,156 | Housing units without a mortgage | 2,213 | 2,213 |
| Less than $100 | 19 | 0.9% | Less than $250 | 305 | 13.8% |
| $100 to $199 | 143 | 6.6% | $250 to $399 | 544 | 24.6% |
| $200 to $299 | 170 | 7.9% | $400 to $599 | 800 | 36.2% |
| $300 to $399 | 380 | 17.6% | $600 to $799 | 355 | 16.0% |
| $400 or more | 1,444 | 67.0% | $1,000 or more | 78 | 3.5% |
| Median (dollars) | 477 | (X) | Median (dollars) | 447 | (X) |
| | | | Not computed | 43 | (X) |
| SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME (SMOCAPI) | | | SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME (SMOCAPI) | | |
| Housing units with a mortgage (excluding units where SMOCAPI cannot be computed) | 3,633 | 3,633 | Housing units with a mortgage (excluding units where SMOCAPI cannot be computed) | 3,237 | 3,237 |
| Less than 20.0 percent | 1,747 | 48.1% | Less than 20.0 percent | 1,697 | 52.4% |
| 20.0 to 24.9 percent | 555 | 15.3% | 20.0 to 24.9 percent | 561 | 17.3% |

| 2009-2013 American Community Survey 5-Year Estimates | Watertown School District | | 2014-2018 American Community Survey 5-Year Estimates | Watertown School District | |
|---|---|---|---|---|---|
| HOUSING CHARACTERISTICS | Estimate | Percent | HOUSING CHARACTERISTICS | Estimate | Percent |
| 25.0 to 29.9 percent | 358 | 9.9% | 25.0 to 29.9 percent | 281 | 8.7% |
| 30.0 to 34.9 percent | 264 | 7.3% | 30.0 to 34.9 percent | 231 | 7.1% |
| 35.0 percent or more | 709 | 19.5% | 35.0 percent or more | 467 | 14.4% |
| Not computed | 49 | (X) | Not computed | 43 | (X) |
| Housing unit without a mortgage (excluding units where SMOCAPI cannot be computed) | 2,128 | 2,128 | Housing unit without a mortgage (excluding units where SMOCAPI cannot be computed) | 2,168 | 2,168 |
| Less than 10.0 percent | 764 | 35.9% | Less than 10.0 percent | 888 | 41.0% |
| 10.0 to 14.9 percent | 457 | 21.5% | 10.0 to 14.9 percent | 485 | 22.4% |
| 15.0 to 19.9 percent | 305 | 14.3% | 15.0 to 19.9 percent | 238 | 11.0% |
| 20.0 to 24.9 percent | 123 | 5.8% | 20.0 to 24.9 percent | 168 | 7.7% |
| 25.0 to 29.9 percent | 98 | 4.6% | 25.0 to 29.9 percent | 120 | 5.5% |
| 30.0 to 34.9 percent | 14 | 0.7% | 30.0 to 34.9 percent | 57 | 2.6% |
| 35.0 percent or more | 367 | 17.2% | 35.0 percent or more | 212 | 9.8% |
| Not computed | 28 | (X) | Not computed | 45 | (X) |
| GROSS RENT | | | GROSS RENT | | |
| Occupied units paying rent | 7,319 | 7,319 | Occupied units paying rent | 6,907 | 6,907 |
| Less than $200 | 282 | 3.9% | Less than $500 | 1,360 | 19.7% |
| $200 to $299 | 497 | 6.8% | $500 to $999 | 3,353 | 48.5% |
| $300 to $499 | 594 | 8.1% | $1,000 to $1,499 | 1,834 | 26.6% |
| $500 to $749 | 1,779 | 24.3% | $1,500 to $1,999 | 284 | 4.1% |
| $750 to $999 | 2,031 | 27.7% | $2,000 to $2,499 | 33 | 0.5% |
| $1,000 to $1,499 | 1,890 | 25.8% | $2,500 to $2,999 | 43 | 0.6% |
| $1,500 or more | 246 | 3.4% | $3,000 or more | 0 | 0.0% |
| Median (dollars) | 800 | (X) | Median (dollars) | 822 | (X) |
| No rent paid | 244 | (X) | No rent paid | 321 | (X) |
| GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME (GRAPI) | | | GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME (GRAPI) | | |
| Occupied units paying rent (excluding units where GRAPI cannot be computed) | 7,198 | 7,198 | Occupied units paying rent (excluding units where GRAPI cannot be computed) | 6,823 | 6,823 |
| Less than 15.0 percent | 724 | 10.1% | Less than 15.0 percent | 802 | 11.8% |
| 15.0 to 19.9 percent | 1,093 | 15.2% | 15.0 to 19.9 percent | 1,001 | 14.7% |
| 20.0 to 24.9 percent | 1,098 | 15.3% | 20.0 to 24.9 percent | 899 | 13.2% |
| 25.0 to 29.9 percent | 1,119 | 15.5% | 25.0 to 29.9 percent | 1,335 | 19.6% |
| 30.0 to 34.9 percent | 728 | 10.1% | 30.0 to 34.9 percent | 688 | 10.1% |
| 35.0 percent or more | 2,436 | 33.8% | 35.0 percent or more | 2,098 | 30.7% |
| Not computed | 365 | (X) | Not computed | 405 | (X) |

# Definition of Demographic Terms

**Housing Unit**.  A housing unit may be a house, an apartment, a mobile home, a group of rooms or a single room that is occupied (or, if vacant, intended for occupancy) as separate living quarters.  Separate living quarters are those in which the occupants live separately from any other individuals in the building and which have direct access from outside the building or through a common hall.  For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible.  If that information cannot be obtained, the criteria are applied to the previous occupants.

**Occupied Housing Unit**.  A housing unit is classified as occupied if it is the current place of residence of the person or group of people living in it at the time of interview, or if the occupants are only temporarily absent from the residence for two months or less, that is, away on vacation or a business trip.  If all the people staying in the unit at the time of the interview are staying there for two months or less, the unit is considered to be temporarily occupied and classified as "vacant".  The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated people who share living quarters.  The living quarters occupied by staff personnel within any group quarters are separate housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

**Group Quarters (GQs)**.  GQs are places where people live or stay, in a group living arrangement that is owned or managed by an entity or organization providing housing and/or services for the residents.  These services may include custodial or medical care, as well as other types of assistance, and residency is commonly restricted to those receiving these services.  People living in GQs usually are not related to each other.  GQs include such places as college residence halls, residential treatment centers, skilled nursing facilities, group homes, military barracks, correctional facilities, workers' dormitories, and facilities for people experiencing homelessness.  GQs are defined according to the housing and/or services provided to residents, and are identified by census GQ type codes.

**Vacant Housing Unit**.  A housing unit is vacant if no one is living in it at the time of interview.  Units occupied at the time of interview entirely by persons who are staying two months or less and who have a more permanent residence elsewhere are considered to be temporarily occupied, and are classified as "vacant."

**Vacancy Status**.  Vacancy status is a housing market indicator and provides information on the stability and quality of housing for certain areas.  The data are used to assess the demand for housing, to identify housing turnover within areas, and to understand better the population within the housing market over time.  These data also serve to aid in the development of housing programs to meet the needs of persons at different economic levels.

**Homeowner Vacancy Rate** The homeowner vacancy rate is the proportion of the homeowner inventory that is vacant "for sale".  It is computed by dividing the number of vacant units "for sale only" by the sum of the owner-occupied units, vacant units that are "for sale only," and vacant units that have been sold but not yet occupied, and then multiplying by 100.

**Rental Vacancy Rate** The rental vacancy rate is the proportion of the rental inventory that is vacant "for rent".  It is computed by dividing the number of vacant units "for rent" by the sum of the renter-occupied units, vacant units that are "for rent", and vacant units that have been rented but not yet occupied, and then multiplying by 100.

**Tenure**.  Tenure provides a measurement of home ownership, which has served as an indicator of the nation's economy for decades.  These data are used to aid in the distribution of funds for programs such as those involving mortgage insurance, rental housing, and national defense housing.  Data on tenure allows planners to evaluate the overall viability of housing markets and to assess the stability of neighborhoods.  The data also serve in understanding the characteristics of owner occupied and renter occupied units to aid builders, mortgage lenders, planning officials, government agencies, etc., in the planning of housing programs and services.

**Owner Occupied**.  A housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for.  The owner or co-owner must live in the unit and usually is Person 1 on the questionnaire.  The unit is "Owned by you or someone in this household with a mortgage or loan" if it is being purchased with a mortgage or some other debt arrangement such as a deed of trust, trust deed, contract to purchase, land contract, or purchase agreement.  The unit also is considered owned with a mortgage if it is built on leased land and there is a mortgage on the unit.  Mobile homes occupied by owners with installment loan balances also are included in this category.

**Renter Occupied**.  All occupied housing units which are not owner occupied, whether they are rented or occupied without payment of rent, are classified as renter occupied.  "No rent paid" units are separately identified in the rent tabulations.  Such units are generally provided free by friends or relatives or in exchange for services such as resident manager, caretaker, minister, or tenant farmer.  Housing units on military bases also are classified in the "No rent paid" category. "Rented" includes units in continuing care, sometimes called life care arrangements.  These arrangements usually involve a contract between one or more individuals and a health services provider guaranteeing

the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation.

**Value** Value is the respondent estimate of how much the property (house and lot, mobile home and lot, or condominium unit) would sell for if it were for sale. If the house or mobile home was owned or being bought, but the land on which it sits was not, the respondent was asked to estimate the combined value of the house or mobile home and the land. For vacant units, value was the price asked for the property. Value was tabulated separately for all owner-occupied and vacant-for-sale housing units, as well as owner-occupied and vacant-for-sale mobile homes. The value of a home provides information on neighborhood quality, housing affordability, and wealth. These data provide socioeconomic information not captured by household income and comparative information on the state of local housing markets. The data also serve to aid in the development of housing programs designed to meet the housing needs of persons at different economic levels.

**Ancestry**. Ancestry refers to a person's ethnic origin, heritage, descent, or roots, which may reflect their place of birth or that of previous generations of their family. Some ethnic identities, such as "Egyptian" or "Polish" can be traced to geographic areas outside the United States, while other ethnicities such as "Pennsylvania German" or "Cajun" evolved in the United States. The intent of the ancestry question was not to measure the degree of attachment the respondent had to a particular ethnicity, but simply to establish that the respondent had a connection to and self-identified with a particular ethnic group.

**Educational Attainment**. Educational attainment data are used to assess the socioeconomic condition of the U.S. population. Some government agencies require these data for funding allocations and program planning and implementation. These data are needed to determine the extent of illiteracy rates of citizens in language minorities in order to meet statutory requirements under the Voting Rights Act. Based on data about educational attainment, school districts are allocated funds to provide classes in basic skills to adults who have not completed high school. Educational attainment data are tabulated for people 18 years old and over.

**Employment Status**. Employment status is key to understanding work and unemployment patterns and the availability of workers. Based on labor market areas and unemployment levels, the U.S. Department of Labor identifies service delivery areas and determines amounts to be allocated to each for job training. The impact of immigration on the economy and job markets is determined partially by labor force data, and this information is included in required reports to Congress. OMB uses data about employed workers as part of the criteria for defining metropolitan areas. The Bureau of Economic Analysis uses these data to develop its state per capita income estimates used in the allocation formulas and eligibility criteria for many federal programs such as Medicaid.

**Employed**. The employed population includes all civilians 16 years old and over who either (1) were "at work," that is, those who did any work at all during the reference week as paid employees, worked in their own business or profession, worked on their own farm, or worked 15 hours or more as unpaid workers on a family farm or in a family business; or (2) were "with a job but not at work," that is, those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are people whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are all institutionalized people and people on active duty in the United States Armed Forces. Employed and Civilian Employed are synonymous.

**Unemployed.** The employed population includes all civilians 16 years old and over are classified as unemployed if they (1) were neither "at work" nor "with a job but not at work" during the reference week, and (2) were actively looking for work during the last 4 weeks, and (3) were available to start a job. Also included as unemployed are civilians who did not work at all during the reference week, were waiting to be called back to a job from which they had been laid off, and were available for work except for temporary illness.

**Civilian Labor Force**. The sum of people employed or unemployed in accordance with the criteria described above.

**Unemployment Rate**. The unemployment rate is the number of unemployed people as a percentage of the civilian labor force. For example, if the civilian labor force equals 100 people and seven people are unemployed, then the unemployment rate would be 7 percent.

**Labor Force** The labor force is the sum of the civilian labor force plus members of the U.S. Armed Forces (people on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

**Labor Force Participation Rate**. The labor force participation rate is the proportion of the population that is in the labor force. For example, if there are 100 people in the population 16 years and over, and 64 of them are in the labor force, then the labor force participation rate for the population 16 years and over would be 64 percent.

**Not in Labor Force**.  All people 16 years old and over who are not classified as members of the labor force.  This category consists mainly of students, homemakers, retired workers, seasonal workers interviewed in an off-season who were not looking for work, institutionalized people, and people doing only incidental unpaid family work (less than 15 hours during the reference week).

**Worker**.  Workers appear in connection with several subjects: employment status, journey-to-work questions, class of worker, weeks worked in the past 12 months, and number of workers in family in the past 12 months.  The meaning varies and, therefore, should be determined in each case by referring to the definition of the subject in which it appears.  When used in the concepts "workers in family" and "full-time, year-round workers", the term "worker" relates to the meaning of work defined for the "work experience" subject.

**Fertility**.  Fertility measures are useful to determine geographies with high numbers of women with births and the characteristics of these women, such as age and marital status.  When fertility was not reported, it was imputed according to the woman's age and marital status and the possibility there was an infant in the household.  Data are most frequently presented in terms of the aggregate number of women who had a birth in the past 12 months in the specified category, and in terms of the rate per 1,000 women.

**Total Fertility Rate**.  This measure estimates the number of children a group of 1,000 women would have by the end of their childbearing years if they all experienced the same-age specific birth rates between ages 15-50 in a given year.  This rate is used for comparisons among different population groups--for example, women in different geographical areas--as the rate accounts for differences in the age distribution in those areas.  It is calculated by summing the age-specific birth rates for women in 5-year age groups between ages 15-19 and 40-44 and ages 45-50 and multiplying these rates by 5--or by 6 for the final age group--representing the number of years in each age group.  The sum of these individual rates is then multiplied by 1,000 to represent the numbers of births per 1,000 women.

**Hispanic or Latino Origin**.  The data on the Hispanic or Latino population were derived from answers to a question that was asked of all people.  The terms "Hispanic", "Latino", and "Spanish" are used interchangeably.  Origin can be viewed as the heritage, nationality group, lineage, or country of birth of the person or the person's parents or ancestors before their arrival in the United States.  People who identify their origin as Hispanic, Latino, or Spanish may be of any race.

**Household Type and Relationship**.  The data on relationship to householder are tabulated for all people in housing units.  Relationship data are essential for classifying the population info families and other groups.  Information about changes in the composition of the American family, from the number of people living alone to the number of children living with only one parent, is essential for planning and carrying out a number of federal programs, such as families in poverty.

**Household**.  A household includes all the people who occupy a housing unit.  People not living in households are classified as living in group quarters.  A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters.  Separate living quarters are those in which the occupants live separately from any other people in the building and which have direct access from the outside of the building or through a common hall.  The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated people who share living arrangements.

# Appendix B: Tables Illustrating the Baseline Enrollment Projection Estimates

## TABLE 7-A: LOW RANGE BASELINE COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
### WATERTOWN CITY SCHOOL DISTRICT

| YEAR | KNDG | R | 1ST | R | 2ND | R | 3RD | R | 4TH | R | 5TH | R | 6TH | R | 7TH | R | 8TH | R | 9TH | R | 10TH | R | 11TH | R | 12TH | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14-15 | 403 | | 379 | | 352 | | 331 | | 295 | | 265 | | 295 | | 273 | | 262 | | 306 | | 272 | | 252 | | 261 | 3946 |
| 15-16 | 420 | 0.96 | 385 | 0.87 | 331 | 0.94 | 331 | 0.93 | 309 | 0.96 | 283 | 0.96 | 255 | 0.98 | 289 | 0.95 | 258 | 1.01 | 264 | 0.96 | 294 | 0.98 | 267 | 1.00 | 252 | 3938 |
| 16-17 | 375 | 0.93 | 389 | 0.93 | 358 | 0.98 | 323 | 0.94 | 310 | 0.94 | 289 | 0.99 | 281 | 1.02 | 261 | 0.98 | 283 | 1.03 | 267 | 0.92 | 242 | 0.94 | 277 | 0.97 | 260 | 3915 |
| 17-18 | 367 | 0.94 | 352 | 0.95 | 369 | 0.98 | 351 | 0.98 | 317 | 1.03 | 320 | 0.96 | 278 | 0.98 | 275 | 0.98 | 257 | 1.01 | 285 | 0.94 | 252 | 0.95 | 231 | 1.00 | 276 | 3930 |
| 18-19 | 381 | 0.94 | 344 | 0.91 | 321 | 1.00 | 369 | 0.97 | 339 | 1.01 | 319 | 1.01 | 323 | 1.02 | 284 | 1.11 | 304 | 1.00 | 256 | 1.00 | 284 | 0.94 | 238 | 0.99 | 228 | 3990 |
| 19-20 | 368 | 0.98 | 372 | 0.93 | 320 | 0.92 | 295 | 0.96 | 356 | 0.99 | 334 | 1.03 | 330 | 0.91 | 295 | 1.01 | 286 | 1.04 | 316 | 0.95 | 244 | 0.89 | 253 | 1.03 | 246 | 4015 |
| Average Ratio | | 0.941 | | 0.919 | | 0.964 | | 0.953 | | 0.973 | | 0.986 | | 1.001 | | 0.988 | | 1.020 | | 0.948 | | 0.951 | | 0.975 | | |
| 20-21 | 348 | | 346 | | 342 | | 308 | | 281 | | 346 | | 329 | | 330 | | 291 | | 292 | | 300 | | 232 | | 247 | 3993 |
| 21-22 | 339 | | 327 | | 318 | | 330 | | 294 | | 274 | | 342 | | 330 | | 327 | | 297 | | 277 | | 285 | | 226 | 3965 |
| 22-23 | 330 | | 319 | | 301 | | 307 | | 314 | | 286 | | 270 | | 342 | | 326 | | 333 | | 282 | | 263 | | 278 | 3950 |
| 23-24 | 321 | | 311 | | 293 | | 290 | | 292 | | 306 | | 282 | | 270 | | 338 | | 332 | | 316 | | 268 | | 256 | 3876 |
| 24-25 | 313 | | 302 | | 286 | | 283 | | 277 | | 285 | | 302 | | 282 | | 267 | | 345 | | 315 | | 300 | | 261 | 3817 |
| 25-26 | 305 | | 295 | | 278 | | 275 | | 269 | | 269 | | 281 | | 302 | | 279 | | 272 | | 327 | | 300 | | 293 | 3744 |
| 26-27 | 297 | | 287 | | 271 | | 268 | | 262 | | 262 | | 265 | | 281 | | 298 | | 285 | | 258 | | 311 | | 292 | 3637 |
| 27-28 | 289 | | 279 | | 264 | | 261 | | 255 | | 255 | | 259 | | 266 | | 278 | | 304 | | 270 | | 245 | | 303 | 3528 |
| 28-29 | 281 | | 272 | | 257 | | 254 | | 249 | | 248 | | 252 | | 259 | | 263 | | 283 | | 289 | | 257 | | 239 | 3402 |
| 29-30 | 274 | | 264 | | 250 | | 248 | | 242 | | 242 | | 245 | | 252 | | 256 | | 268 | | 269 | | 274 | | 250 | 3334 |

## TABLE 7-B: MID RANGE BASELINE COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
### WATERTOWN CITY SCHOOL DISTRICT

| YEAR | KNDG | R | 1ST | R | 2ND | R | 3RD | R | 4TH | R | 5TH | R | 6TH | R | 7TH | R | 8TH | R | 9TH | R | 10TH | R | 11TH | R | 12TH | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14-15 | 403 | | 379 | | 352 | | 331 | | 295 | | 265 | | 295 | | 273 | | 262 | | 306 | | 272 | | 252 | | 261 | 3946 |
| 15-16 | 420 | 0.96 | 385 | 0.87 | 331 | 0.94 | 331 | 0.93 | 309 | 0.96 | 283 | 0.96 | 255 | 0.98 | 289 | 0.95 | 258 | 1.01 | 264 | 0.96 | 294 | 0.98 | 267 | 1.00 | 252 | 3938 |
| 16-17 | 375 | 0.93 | 389 | 0.93 | 358 | 0.98 | 323 | 0.94 | 310 | 0.94 | 289 | 0.99 | 281 | 1.02 | 261 | 0.98 | 283 | 1.03 | 267 | 0.92 | 242 | 0.94 | 277 | 0.97 | 260 | 3915 |
| 17-18 | 367 | 0.94 | 352 | 0.95 | 369 | 0.98 | 351 | 0.98 | 317 | 1.03 | 320 | 0.96 | 278 | 0.98 | 275 | 0.98 | 257 | 1.01 | 285 | 0.94 | 252 | 0.95 | 231 | 1.00 | 276 | 3930 |
| 18-19 | 381 | 0.94 | 344 | 0.91 | 321 | 1.00 | 369 | 0.97 | 339 | 1.01 | 319 | 1.01 | 323 | 1.02 | 284 | 1.11 | 304 | 1.00 | 256 | 1.00 | 284 | 0.94 | 238 | 0.99 | 228 | 3990 |
| 19-20 | 368 | 0.98 | 372 | 0.93 | 320 | 0.92 | 295 | 0.96 | 356 | 0.99 | 334 | 1.03 | 330 | 0.91 | 295 | 1.01 | 286 | 1.04 | 316 | 0.95 | 244 | 0.89 | 253 | 1.03 | 246 | 4015 |
| Average Ratio | | 0.941 | | 0.919 | | 0.964 | | 0.953 | | 0.973 | | 0.986 | | 1.001 | | 0.988 | | 1.020 | | 0.948 | | 0.951 | | 0.975 | | |
| 20-21 | 354 | | 346 | | 342 | | 308 | | 281 | | 346 | | 329 | | 330 | | 291 | | 292 | | 300 | | 232 | | 247 | 3999 |
| 21-22 | 339 | | 333 | | 318 | | 330 | | 294 | | 274 | | 342 | | 330 | | 327 | | 297 | | 277 | | 285 | | 226 | 3970 |
| 22-23 | 346 | | 319 | | 306 | | 307 | | 314 | | 286 | | 270 | | 342 | | 326 | | 333 | | 282 | | 263 | | 278 | 3972 |
| 23-24 | 313 | | 326 | | 293 | | 295 | | 292 | | 306 | | 282 | | 270 | | 338 | | 332 | | 316 | | 268 | | 256 | 3888 |
| 24-25 | 312 | | 295 | | 299 | | 283 | | 281 | | 285 | | 302 | | 282 | | 267 | | 345 | | 315 | | 300 | | 261 | 3827 |
| 25-26 | 302 | | 294 | | 271 | | 289 | | 269 | | 274 | | 281 | | 302 | | 279 | | 272 | | 327 | | 300 | | 293 | 3751 |
| 26-27 | 293 | | 284 | | 270 | | 261 | | 275 | | 262 | | 270 | | 281 | | 298 | | 285 | | 258 | | 311 | | 292 | 3640 |
| 27-28 | 284 | | 276 | | 261 | | 260 | | 249 | | 268 | | 259 | | 270 | | 278 | | 304 | | 270 | | 245 | | 303 | 3527 |
| 28-29 | 276 | | 267 | | 254 | | 252 | | 248 | | 242 | | 264 | | 259 | | 267 | | 283 | | 289 | | 257 | | 239 | 3396 |
| 29-30 | 268 | | 260 | | 246 | | 244 | | 240 | | 241 | | 239 | | 264 | | 256 | | 273 | | 269 | | 274 | | 250 | 3323 |

## TABLE 7-C:  HIGH RANGE BASELINE COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
## WATERTOWN CITY SCHOOL DISTRICT

| YEAR | KNDG | R | 1ST | R | 2ND | R | 3RD | R | 4TH | R | 5TH | R | 6TH | R | 7TH | R | 8TH | R | 9TH | R | 10TH | R | 11TH | R | 12TH | TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14-15 | 403 | | 379 | | 352 | | 331 | | 295 | | 265 | | 295 | | 273 | | 262 | | 306 | | 272 | | 252 | | 261 | 3946 |
| 15-16 | 420 | 0.96 | 385 | 0.87 | 331 | 0.94 | 331 | 0.93 | 309 | 0.96 | 283 | 0.96 | 255 | 0.98 | 289 | 0.95 | 258 | 1.01 | 264 | 0.96 | 294 | 0.98 | 267 | 1.00 | 252 | 3938 |
| 16-17 | 375 | 0.93 | 389 | 0.93 | 358 | 0.98 | 323 | 0.94 | 310 | 0.94 | 289 | 0.99 | 281 | 1.02 | 261 | 0.98 | 283 | 1.03 | 267 | 0.92 | 242 | 0.94 | 277 | 0.97 | 260 | 3915 |
| 17-18 | 367 | 0.94 | 352 | 0.95 | 369 | 0.98 | 351 | 0.98 | 317 | 1.03 | 320 | 0.96 | 278 | 0.98 | 275 | 0.98 | 257 | 1.01 | 285 | 0.94 | 252 | 0.95 | 231 | 1.00 | 276 | 3930 |
| 18-19 | 381 | 0.94 | 344 | 0.91 | 321 | 1.00 | 369 | 0.97 | 339 | 1.01 | 319 | 1.01 | 323 | 1.02 | 284 | 1.11 | 304 | 1.00 | 256 | 1.00 | 284 | 0.94 | 238 | 0.99 | 228 | 3990 |
| 19-20 | 368 | 0.98 | 372 | 0.93 | 320 | 0.92 | 295 | 0.96 | 356 | 0.99 | 334 | 1.03 | 330 | 0.91 | 295 | 1.01 | 286 | 1.04 | 316 | 0.95 | 244 | 0.89 | 253 | 1.03 | 246 | 4015 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Average Ratio | | 0.941 | | 0.919 | | 0.964 | | 0.953 | | 0.973 | | 0.986 | | 1.001 | | 0.988 | | 1.020 | | 0.948 | | 0.951 | | 0.975 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-21 | 378 | | 346 | | 342 | | 308 | | 281 | | 346 | | 329 | | 330 | | 291 | | 292 | | 300 | | 232 | | 247 | 4023 |
| 21-22 | 362 | | 356 | | 318 | | 330 | | 294 | | 274 | | 342 | | 330 | | 327 | | 297 | | 277 | | 285 | | 226 | 4016 |
| 22-23 | 369 | | 341 | | 327 | | 307 | | 314 | | 286 | | 270 | | 342 | | 326 | | 333 | | 282 | | 263 | | 278 | 4037 |
| 23-24 | 334 | | 347 | | 313 | | 315 | | 292 | | 306 | | 282 | | 270 | | 338 | | 332 | | 316 | | 268 | | 256 | 3971 |
| 24-25 | 347 | | 314 | | 319 | | 302 | | 300 | | 285 | | 302 | | 282 | | 267 | | 345 | | 315 | | 300 | | 261 | 3940 |
| 25-26 | 341 | | 327 | | 289 | | 308 | | 288 | | 292 | | 281 | | 302 | | 279 | | 272 | | 327 | | 300 | | 293 | 3897 |
| 26-27 | 335 | | 321 | | 300 | | 279 | | 293 | | 280 | | 288 | | 281 | | 298 | | 285 | | 258 | | 311 | | 292 | 3821 |
| 27-28 | 329 | | 315 | | 295 | | 289 | | 265 | | 285 | | 276 | | 289 | | 278 | | 304 | | 270 | | 245 | | 303 | 3745 |
| 28-29 | 323 | | 310 | | 290 | | 284 | | 276 | | 258 | | 281 | | 276 | | 285 | | 283 | | 289 | | 257 | | 239 | 3652 |
| 29-30 | 317 | | 304 | | 285 | | 279 | | 271 | | 268 | | 255 | | 282 | | 273 | | 291 | | 269 | | 274 | | 250 | 3618 |

# BASE COHORT ENROLLMENT PROJECTIONS SUMMARY FOR WATERTOWN CITY SCHOOL DISTRICT MARCH 2020

| | LOW RANGE PROJECTION | | | | | MID RANGE PROJECTION | | | | | HIGH RANGE PROJECTION | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | K-4 | 5-6 | 7-8 | 9-12 | K-12 | K-4 | 5-6 | 7-8 | 9-12 | K-12 | K-4 | 5-6 | 7-8 | 9-12 | K-12 |
| 2020 | 1626 | 676 | 622 | 1070 | 3993 | 1632 | 676 | 622 | 1070 | 3999 | 1656 | 676 | 622 | 1070 | 4023 |
| 2021 | 1608 | 615 | 656 | 1085 | 3965 | 1614 | 615 | 656 | 1085 | 3970 | 1660 | 615 | 656 | 1085 | 4016 |
| 2022 | 1571 | 556 | 668 | 1155 | 3950 | 1592 | 556 | 668 | 1155 | 3972 | 1658 | 556 | 668 | 1155 | 4037 |
| 2023 | 1508 | 588 | 608 | 1172 | 3876 | 1520 | 588 | 608 | 1172 | 3888 | 1602 | 588 | 608 | 1172 | 3971 |
| 2024 | 1460 | 586 | 549 | 1221 | 3817 | 1470 | 586 | 549 | 1221 | 3827 | 1583 | 586 | 549 | 1221 | 3940 |
| 2025 | 1422 | 550 | 581 | 1191 | 3744 | 1424 | 555 | 581 | 1191 | 3751 | 1552 | 573 | 581 | 1191 | 3897 |
| 2026 | 1385 | 528 | 579 | 1146 | 3637 | 1383 | 532 | 579 | 1146 | 3640 | 1528 | 568 | 579 | 1146 | 3821 |
| 2027 | 1349 | 514 | 544 | 1123 | 3528 | 1330 | 526 | 548 | 1123 | 3527 | 1494 | 562 | 566 | 1123 | 3745 |
| 2028 | 1313 | 500 | 522 | 1068 | 3402 | 1297 | 506 | 526 | 1068 | 3396 | 1483 | 540 | 562 | 1068 | 3652 |
| 2029 | 1279 | 487 | 508 | 1061 | 3334 | 1258 | 480 | 520 | 1065 | 3323 | 1456 | 523 | 555 | 1084 | 3618 |

| | LOW RANGE PROJECTION | | | MID RANGE PROJECTION | | | HIGH RANGE PROJECTION | | |
|---|---|---|---|---|---|---|---|---|---|
| YEAR | K-6 | 7-12 | TOTAL K-12 | K-6 | 7-12 | TOTAL K-12 | K-6 | 7-12 | TOTAL K-12 |
| 2020 | 2302 | 1692 | 3993 | 2308 | 1692 | 3999 | 2332 | 1692 | 4023 |
| 2021 | 2224 | 1741 | 3965 | 2229 | 1741 | 3970 | 2275 | 1741 | 4016 |
| 2022 | 2127 | 1823 | 3950 | 2148 | 1823 | 3972 | 2214 | 1823 | 4037 |
| 2023 | 2095 | 1781 | 3876 | 2107 | 1781 | 3888 | 2190 | 1781 | 3971 |
| 2024 | 2046 | 1771 | 3817 | 2056 | 1771 | 3827 | 2169 | 1771 | 3940 |
| 2025 | 1972 | 1772 | 3744 | 1979 | 1772 | 3751 | 2125 | 1772 | 3897 |
| 2026 | 1912 | 1725 | 3637 | 1915 | 1725 | 3640 | 2096 | 1725 | 3821 |
| 2027 | 1862 | 1666 | 3528 | 1856 | 1671 | 3527 | 2056 | 1689 | 3745 |
| 2028 | 1813 | 1589 | 3402 | 1803 | 1594 | 3396 | 2022 | 1629 | 3652 |
| 2029 | 1765 | 1569 | 3334 | 1738 | 1585 | 3323 | 1979 | 1639 | 3618 |

| | LOW RANGE PROJECTION | | | | | | MID RANGE PROJECTION | | | | | | HIGH RANGE PROJECTION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YEAR | K-2 | K-3 | K-1 | 2-3 | 3-5 | 3-4 | K-2 | K-3 | K-1 | 2-3 | 3-5 | 3-4 | K-2 | K-3 | K-1 | 2-3 | 3-5 | 3-4 |
| 2020 | 1036 | 1345 | 694 | 650 | 936 | 590 | 1042 | 1351 | 700 | 650 | 936 | 590 | 1066 | 1375 | 724 | 650 | 936 | 590 |
| 2021 | 985 | 1315 | 666 | 648 | 897 | 624 | 991 | 1320 | 672 | 648 | 897 | 624 | 1036 | 1366 | 718 | 648 | 897 | 624 |
| 2022 | 950 | 1257 | 649 | 608 | 907 | 621 | 971 | 1278 | 665 | 613 | 907 | 621 | 1037 | 1344 | 710 | 634 | 907 | 621 |
| 2023 | 925 | 1215 | 632 | 583 | 888 | 583 | 932 | 1227 | 639 | 589 | 893 | 588 | 994 | 1310 | 681 | 628 | 913 | 608 |
| 2024 | 901 | 1183 | 615 | 568 | 844 | 559 | 906 | 1189 | 607 | 582 | 849 | 564 | 981 | 1282 | 661 | 621 | 887 | 602 |
| | 4-6 | 6-8 | | | | | 4-6 | 6-8 | | | | | 4-6 | 6-8 | | | | |
| 2020 | 957 | 951 | | | | | 957 | 951 | | | | | 957 | 951 | | | | |
| 2021 | 909 | 998 | | | | | 909 | 998 | | | | | 909 | 998 | | | | |
| 2022 | 870 | 938 | | | | | 870 | 938 | | | | | 870 | 938 | | | | |
| 2023 | 880 | 890 | | | | | 880 | 890 | | | | | 880 | 890 | | | | |
| 2024 | 863 | 851 | | | | | 868 | 851 | | | | | 887 | 851 | | | | |
| 2025 | | 862 | | | | | | 862 | | | | | | 862 | | | | |
| 2026 | | 845 | | | | | | 849 | | | | | | 868 | | | | |
| 2027 | | 802 | | | | | | 807 | | | | | | 843 | | | | |

# Watertown City School District

## Elementary School Areas

### Elementary School Areas

- North Elementary School
- Sherman Elementary
- Knickerbocker Elementary
- Ohio Elementary School
- Starbuck Elementary School
- Government Buildings
- Hospital
- Schools
- Cemeteries
- Parks
- Zoo
- Playgrounds
- Swimming Pools

CITY OF WATERTOWN GIS DEPARTMENT

INDEX

Thompson Park