

Enrollment Projection/ Demographic Study

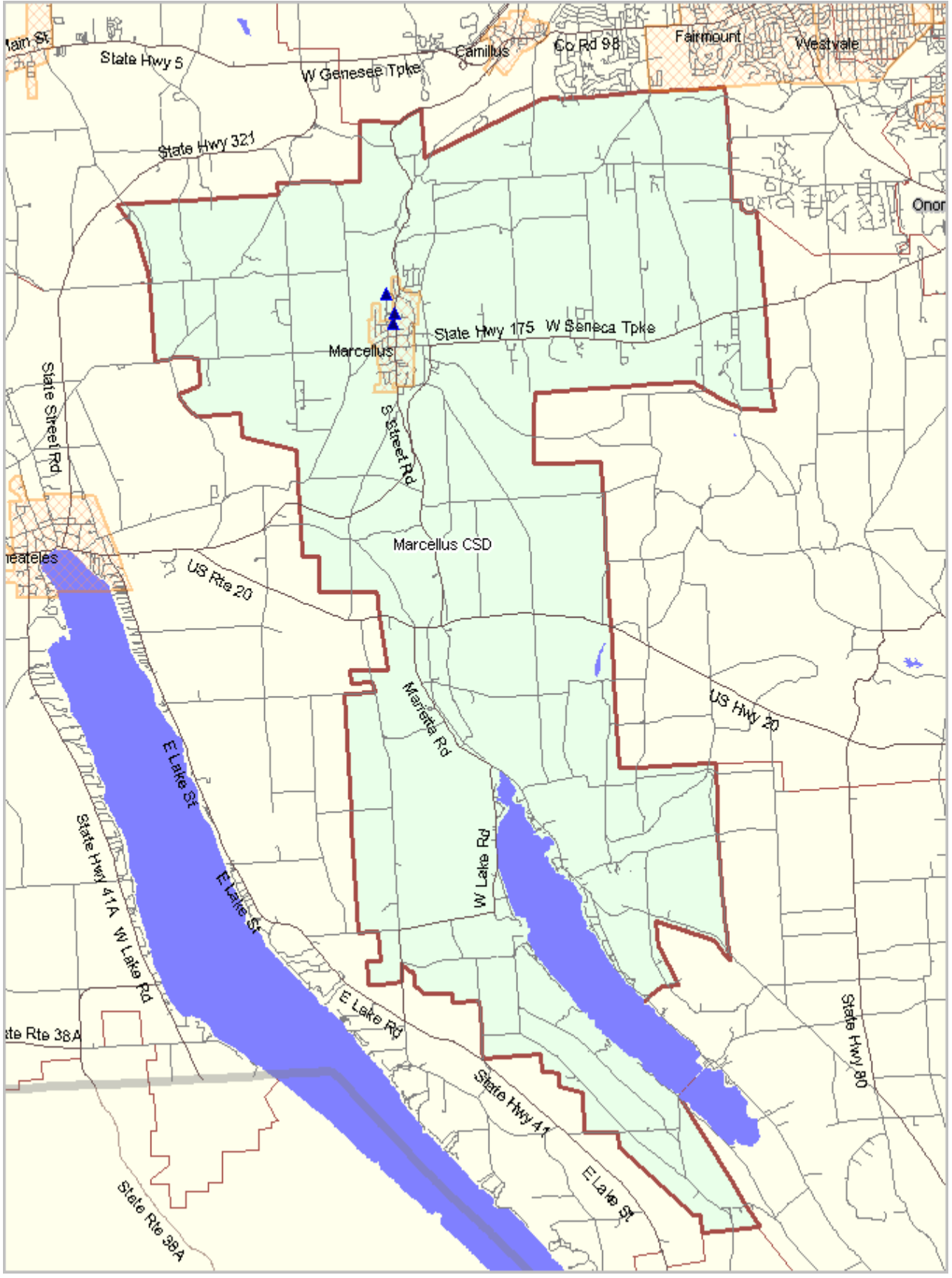
for the

**MARCELLUS
CENTRAL SCHOOL DISTRICT**

**MARCELLUS,
NEW YORK**

MARCH, 2012

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



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

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PURPOSE AND USE OF THE ENROLLMENT PROJECTION CALCULATIONS STUDY

This demographic/enrollment projection calculations study provides historical and current Marcellus Central School District enrollment data and suggests enrollment projection scenarios based on the trending of patterns of historical data. In addition, the impact of the housing market on future enrollments is estimated. 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, 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 program. 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 Marcellus 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.

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 Marcellus School District by grade level from 2006-2007 through 2011-2012 are compiled from data provided by district personnel. *All* enrolled children including special needs students, temporarily home-bound pupils, and non-resident tuitioned pupils regardless of instructional program placement are included in the calculations.
- 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 NYS Department of Health are analyzed.
- Information about the residential housing market as of March 2012.

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 new enrollment has moved to the district or a significant change in grade-to-grade promotion policy.

Calculating the survival ratios from 2006-2007 through 2011-2012 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 Marcellus 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.
- 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. Focus should be given to estimates five years into the future for grades K-6; eight years into the future for grades 7 and 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 enrollments.

HISTORICAL PERSPECTIVE OF ANNUAL ENROLLMENTS

Total K-12 enrollment in the five enrollment years since 2006-2007 has changed from 2080 pupils to 1883 in the current school year. There are 197 fewer pupils which equates to a -9.47% change over the past six years. The six year average enrollment is 1997 pupils and the median is 2006. The kindergarten through grade 3 enrollment since 2006-2007 has changed from 565 pupils to 505 pupils in the current school year. There are 60 fewer pupils in grade kindergarten through grade 3 which equates to a -10.62% change over the past six years. The grade 4 through grade 8 enrollment since 2006-2007 has changed from 823 pupils to 752 pupils in the current school year. There are 71 fewer pupils in grade 4 through grade 8 which equates to a -8.63% change over the past six years. The grade 9 through grade 12 enrollment since 2006-2007 has changed from 692 pupils to

626 pupils in the current school year. There are 66 fewer pupils in grade 9 through grade 12 which equates to a -9.54% change over the past six years.

Chart One illustrates the historical patter of K-12 enrollments since 2006.

**CHART ONE: MARCELLUS CSD
HISTORICAL K-12 ENROLLMENT
2006-2011**

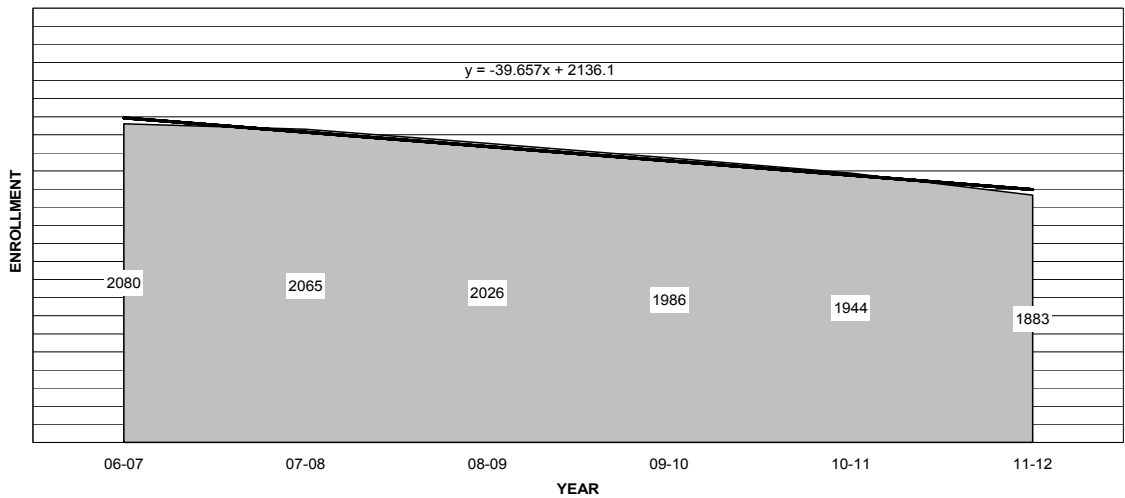
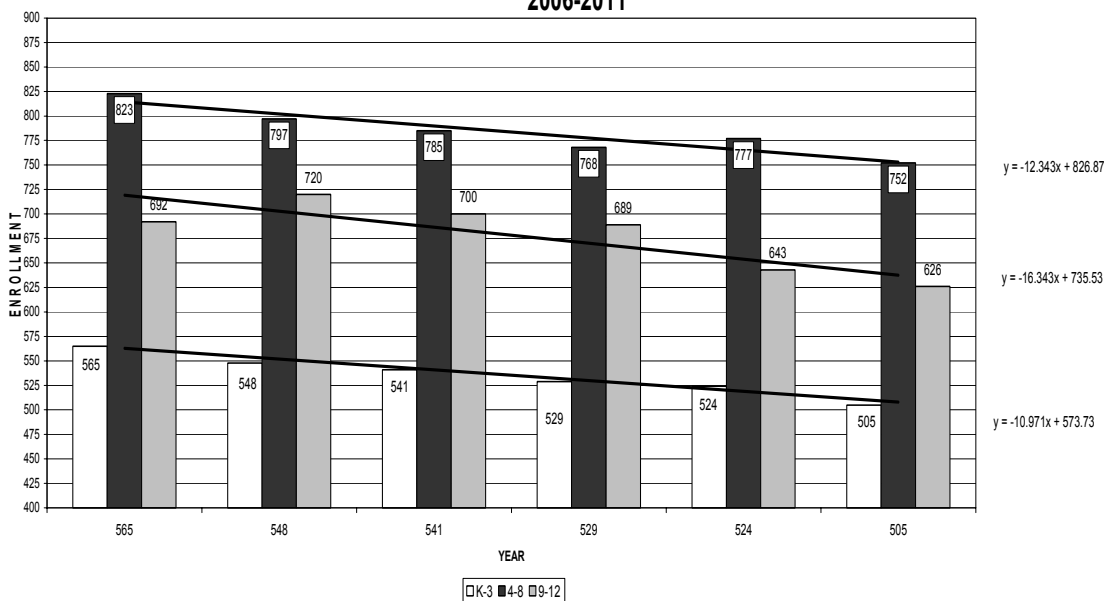


Chart Two-B illustrates the historical pattern of K-3, 4-8, and 9-12 enrollments since 2006.

**CHART TWO-B: MARCELLUS CSD
HISTORICAL K-3, 4-8, 9-12 ENROLLMENT
2006-2011**



Charts Three, Four, Five, and Six graphically represent the net percentage changes in enrollment from 2006 through 2011 for grades K-12, K-3, 4-8 and 9-12 respectively.

CHART THREE: MARCELLUS CSD K-12 ENROLLMENT CHANGE 2006-2011

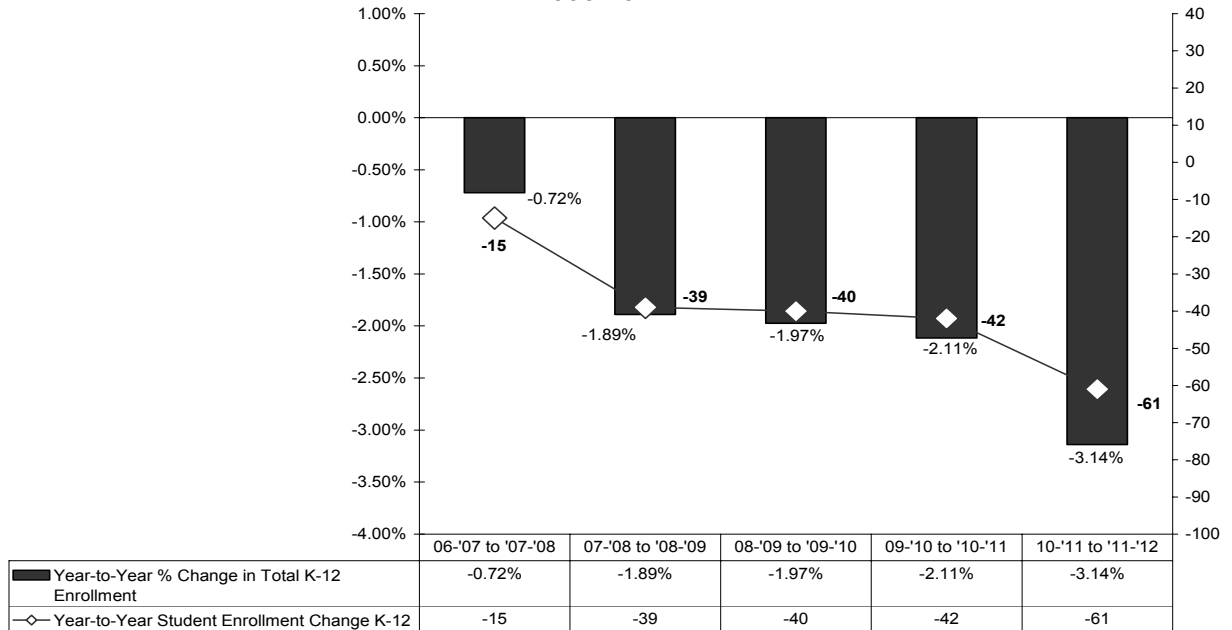
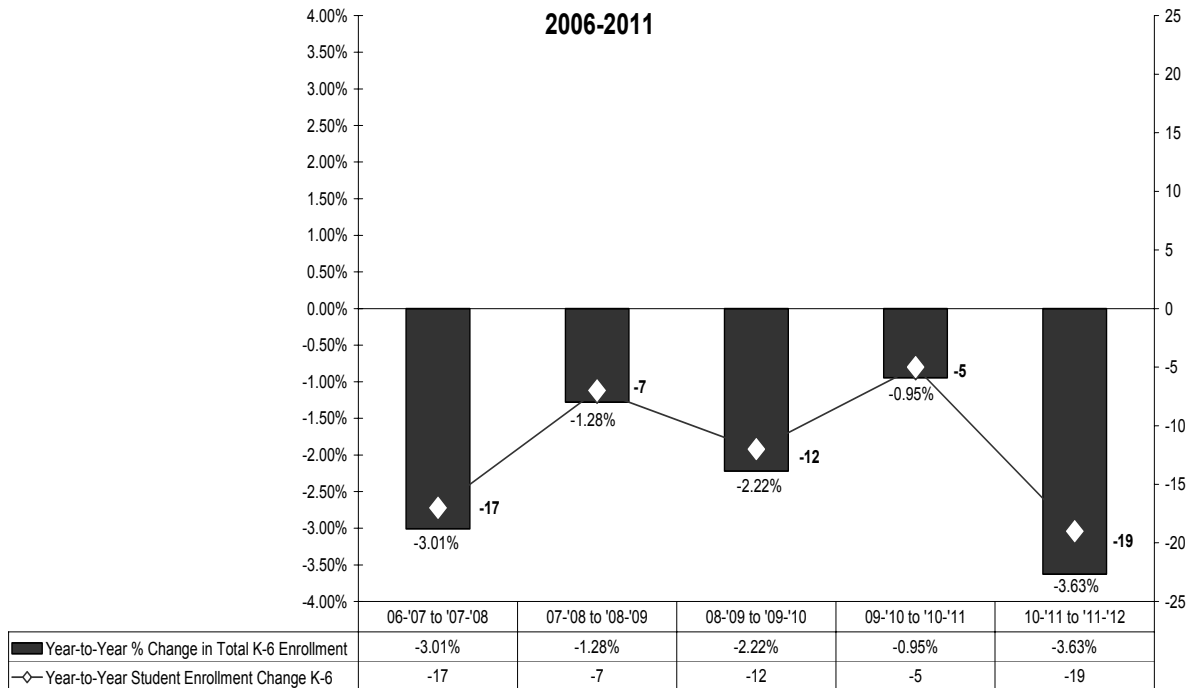
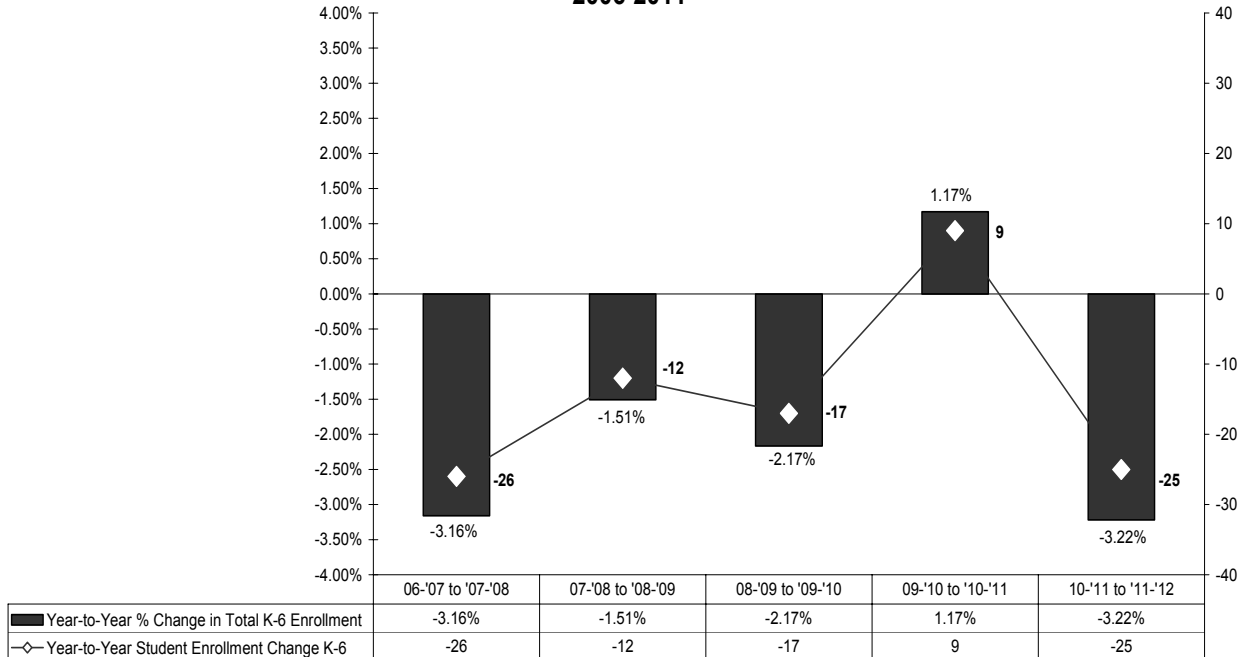


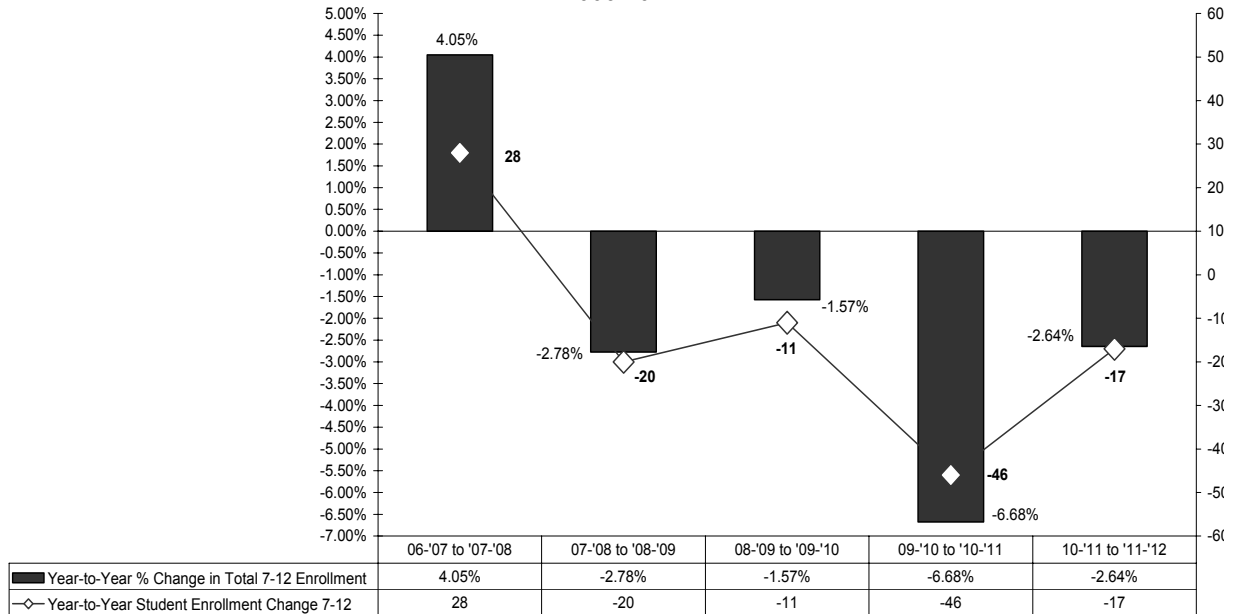
CHART FOUR: MARCELLUS CSD K-3 ENROLLMENT CHANGE 2006-2011



**CHART FIVE: MARCELLUS CSD 4-8 ENROLLMENT CHANGE
2006-2011**



**CHART SIX: MARCELLUS CSD 9-12 ENROLLMENT CHANGE
2006-2011**



DISTRICT ENROLLMENT AREA AND DISTRICT LIVE BIRTHS

Table 1 lists live birth data from 2002 through 2010 for the geographic area of the Marcellus School District; Onondaga County; and all of the towns and villages that make up the ‘catchment area’ of the Marcellus School District.

Table 2 lists the annual Marcellus kindergarten enrollments since 2001.

TABLE 1
LIVE BIRTHS IN THE CATCHMENT AREA SERVED BY THE
MARCELLUS CENTRAL SCHOOL DISTRICT
AS REPORTED BY THE NEW YORK STATE DEPARTMENT OF HEALTH
2002-2010

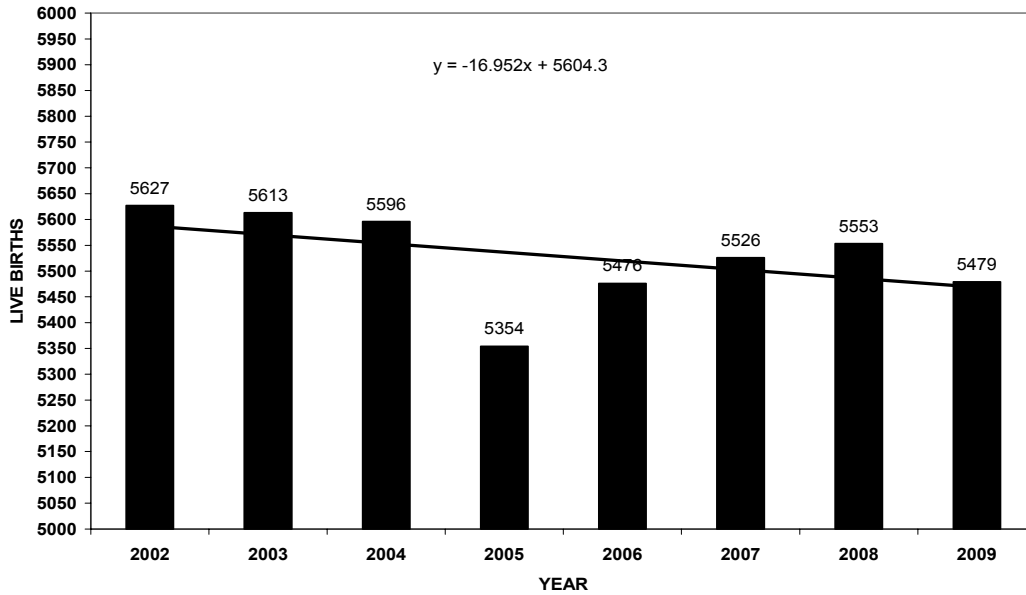
TOWN	2002	2003	2004	2005	2006	2007	2008	2009	2010	TOTAL
BIRTHS IN EACH MUNICIPALITY										
ONONDAGA COUNTY										
Marcellus 96.40%	64	61	59	65	47	62	47	47	na	452
Camillus 14.90%	233	239	216	208	218	245	215	253	na	1827
Onondaga 14.60%	233	221	227	227	201	198	216	192	na	1715
Skaneateles 7.30%	50	59	66	56	56	53	50	54	na	444
Spafford 26.90%	20	13	21	18	16	13	12	16	na	129
Otisco 36.80%	25	30	20	24	22	26	23	19	na	189
Marcellus Village 100.00%	24	22	25	25	14	21	19	16	na	166
<i>Percentages refer to the share of residential parcels that are in the Marcellus School District</i>										
TOTAL BIRTHS IN CATCHMENT AREA	649	645	634	623	574	618	582	597	na	4922
NYS HEALTH DEPARTMENT 'LIVE BIRTHS BY SCHOOL DISTRICT'	107	98	88	105	74	91	75	80	75	793
DISTRICT/CATCHMENT AREA LIVE BIRTH RATIO	16.49%	15.19%	13.88%	16.85%	12.89%	14.72%	12.89%	13.40%	na	14.140%
										6 YEAR RATIO
ONONDAGA COUNTY TOTAL BIRTHS	5627	5613	5596	5354	5476	5526	5553	5479	na	38,745
DISTRICT/ONEIDA COUNTY LIVE BIRTH RATIO	1.90%	1.77%	1.59%	1.99%	1.36%	1.67%	1.36%	1.47%		0.185%
										6 YEAR RATIO

TABLE 2
KINDERGARTEN ENROLLMENT OF THE MARCELLUS SCHOOL DISTRICT
2001-2011

2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
158	138	141	124	121	112	120	116	105	117	119

Figure One charts the live birth data for Onondaga County since 2002. The annual totals of live births in Onondaga County have trended downward from 2002 to 2010; slope of -16.9.

**FIGURE ONE: ONONDAGA COUNTY
LIVE BIRTHS 2002-2009**



The illustration in **Figure Two** below of the pattern of live births in the enrollment area of the Marcellus School District from 2002 through 2010 has decreased, but at a significantly slower rate than the decrease in the county as a whole (slope of -3.7). Will the historical pattern of live births in the Marcellus School District service area for the nine years since 2002 continue for the next five years through 2016?

**FIGURE TWO: LIVE BIRTHS IN THE
MARCELLUS CENTRAL SCHOOL DISTRICT
ENROLLMENT AREA
2002-2010**

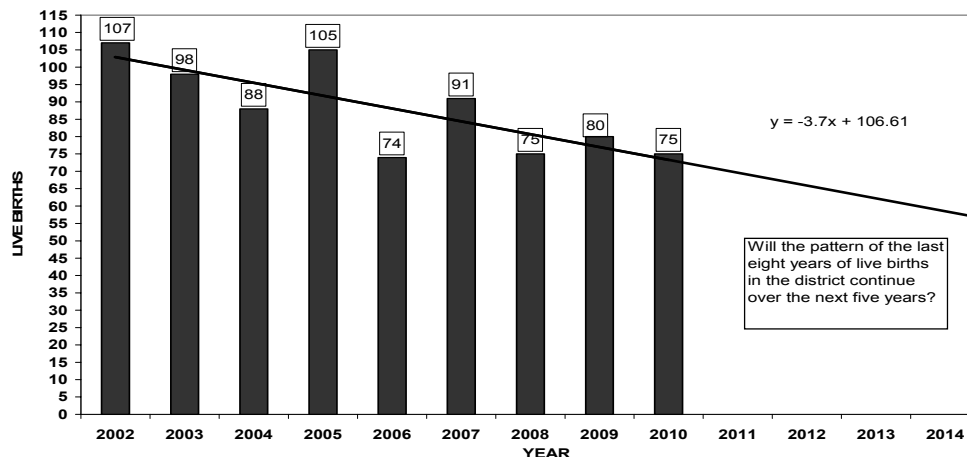
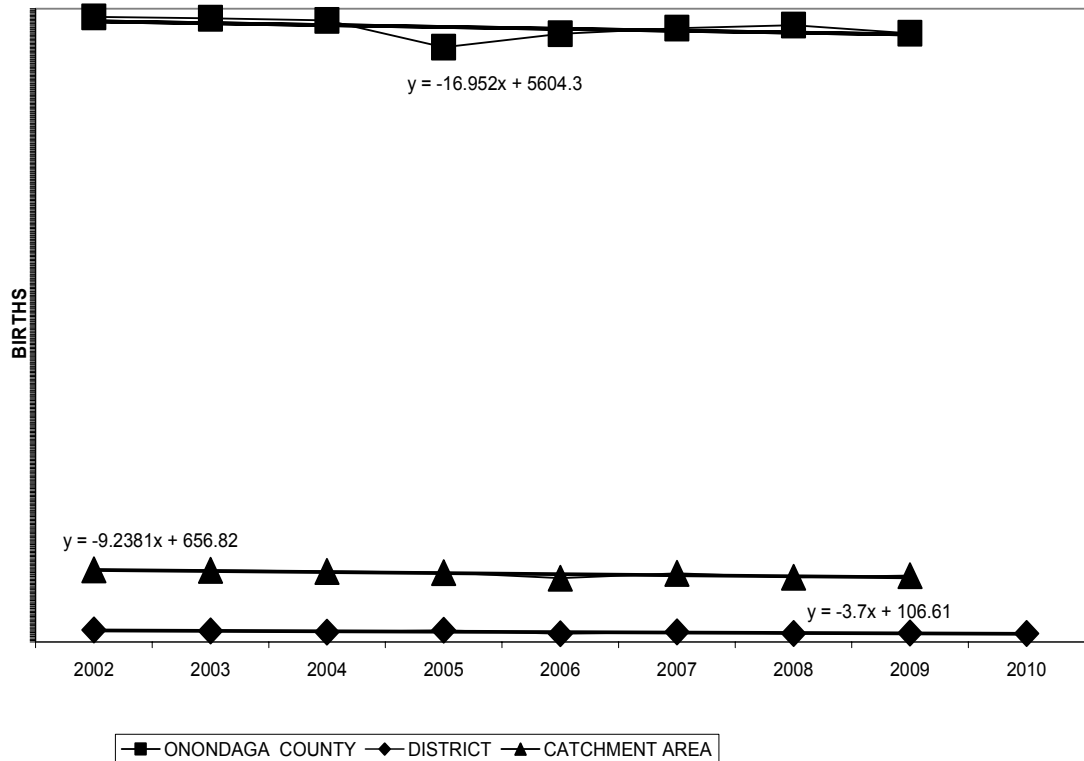


Figure Three charts the live births in Onondaga County, the 'catchment area' of the district, and for the enrollment area of the district. Note the slower rate of live births decrease in the enrollment area of the district (slope -3.7) compared to the county as a whole (slope -16.9) as well as with the towns that make up the 'catchment area' of the school district (slope -9.2). Decreasing live births are the norm for the region. However, the area served within the boundaries of the school district is attracting a larger proportional share of the child-bearing population compared to the county as a whole and the towns that make up the Marcellus school district.

FIGURE THREE: MARCELLUS CENTRAL SCHOOL DISTRICT ENROLLMENT AREA (2002-2010), CATCHMENT AREA, AND ONONDAGA COUNTY BIRTH TRENDS (2002-2009)



DISTRICT KINDERGARTEN ENROLLMENTS AND DISTRICT LIVE BIRTHS

Figure Four charts the Marcellus School District kindergarten enrollment from 2002 through 2011. There is a decreasing pattern of enrollments over the past ten years (slope -2.67).

FIGURE FOUR: MARCELLUS CSD KINDERGARTEN ENROLLMENT 2002-2011

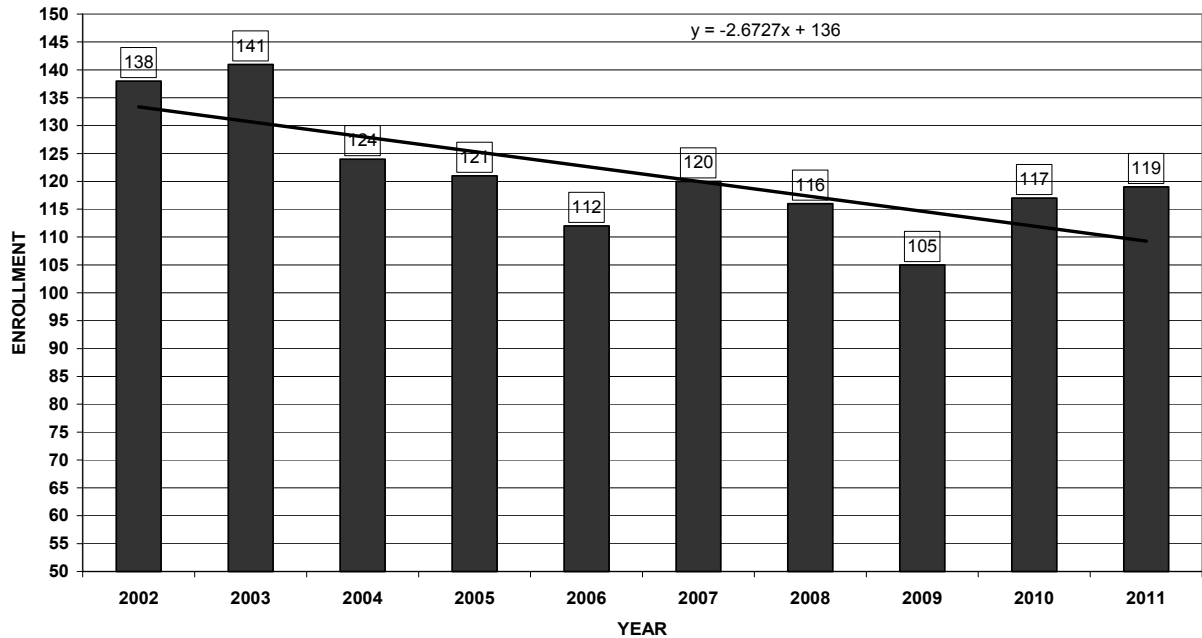
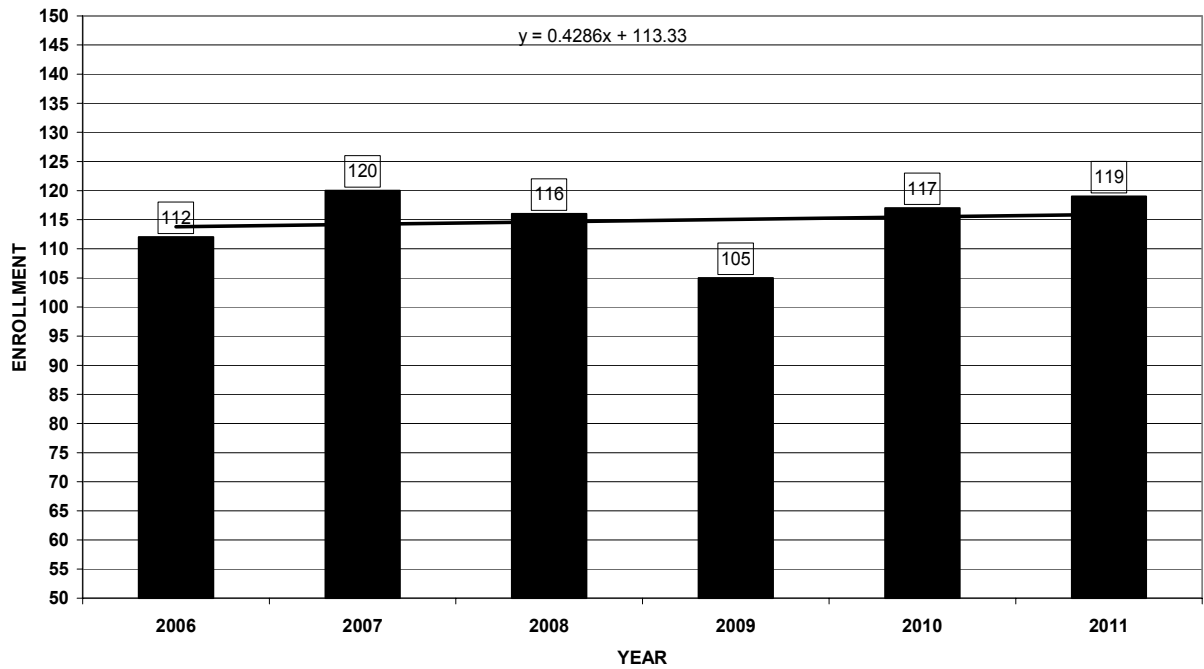


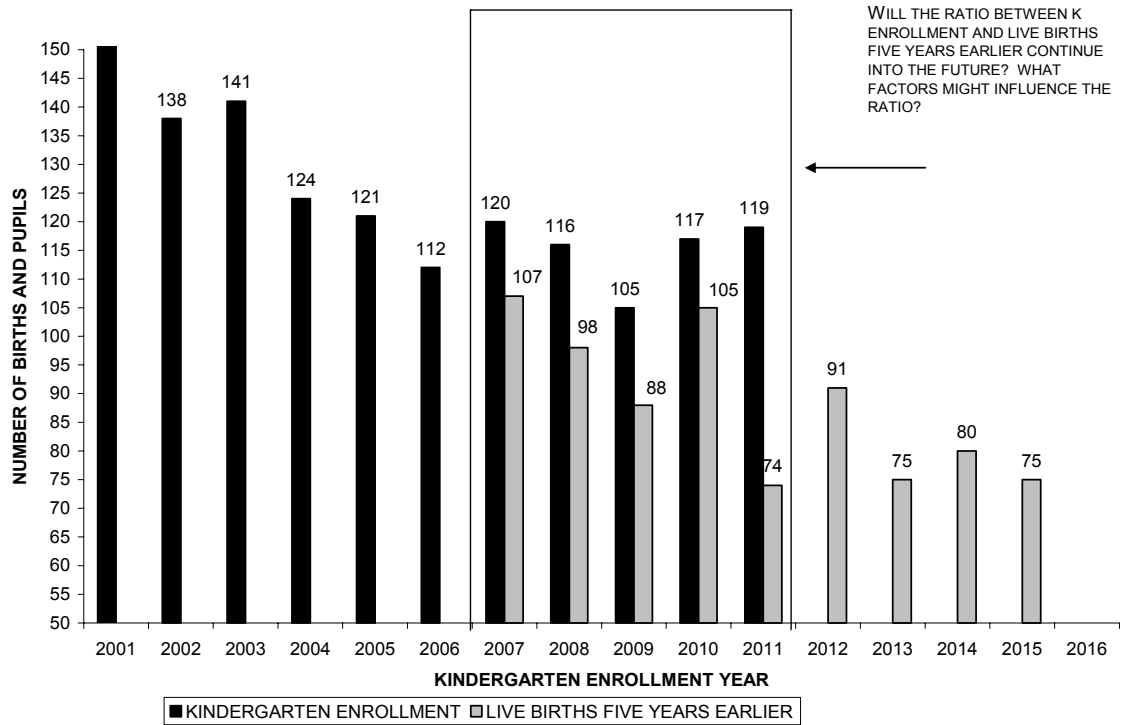
Figure Five charts the Marcellus School District kindergarten enrollment from 2006 through 2011. The pattern of enrollments is slightly positive over the past six school years (slope +.42) compared to the past ten school years (slope -2.67). Will the pattern of ten years of slowly decreasing kindergarten enrollment in the Marcellus continue into the future? Will the slightly increasing pattern of kindergarten enrollment since 2006 continue into the future?

FIGURE FIVE: MARCELLUS CSD KINDERGARTEN ENROLLMENT 2006-2011



One way to suggest possible answers to the questions is to compare the pattern of kindergarten enrollments at Marcellus with the documented live births recorded for the Marcellus School District enrollment area five years earlier each kindergarten enrollment year. **Figure Six** below illustrates the pattern of kindergarten enrollments and the pattern of live births five years earlier.

FIGURE SIX: PATTERN OF KINDERGARTEN ENROLLMENT AND THE PATTERN OF LIVE BIRTHS FIVE YEARS EARLIER IN THE MARCELLUS SCHOOL DISTRICT



In 2007 there were 120 Marcellus kindergarten enrollees. Five years earlier in 2002 there were 102 live births recorded for the school district enrollment area. About 12% more kindergarteners enrolled at Marcellus in 2007 compared to the number of live births in the school district five years earlier in 2002. A limitation to the analysis is that accurate, geocoded, annual live birth data for the school does not exist before 2002. Therefore, comparing kindergarten enrollment numbers with births five years earlier in the district can only reliably be done for five years; 2007, 2008, 2009, 2010 and 2011. Given the kindergarten-live-birth ratios for 2007 through 2011, can the pattern of those ratios suggest what might be the kindergarten enrollments in years 2012 through 2015?

The live birth data officially recorded by the NYS Health Department for Onondaga County, the towns that make up the Marcellus School District, and for the school district enrollment area 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 specific

kindergarten enrollments from 2006 through 2011 of children not born in the enrollment area served by Marcellus and are from families who moved to the school district. Similarly, there are no data to determine specifically how many children born in the school district enrollment area in the years 2001-2006 moved from the area and, therefore, did not enroll in Marcellus kindergarten classes for each year from 2006 through 2011. The study initially assumes that the migration of students both into and out of the towns and the district will continue in a similar manner as it has during the years since 2001.

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 defensible estimates of future kindergarten enrollments. These estimated future kindergarten enrollments then 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** of the study first compares the Marcellus kindergarten annual enrollments from 2007 to 2011 to the annual live births in the school district from 2002 to 2006. Ratios are calculated to determine the annual historical pattern of kindergarten enrollment in the Marcellus School District compared to all the children born five years earlier in the catchment area served by the school district. The mathematical comparison of each annual kindergarten enrollment with the total live births five years earlier in the Marcellus enrollment area results in a set of ratios. For example, in 2009 there were 105 students enrolled in the kindergarten class. In 2004, there were 88 live births in the enrollment area of the school district. A ratio of 1.193182 results from comparing the 2009 kindergarten enrollment of 105 students with the

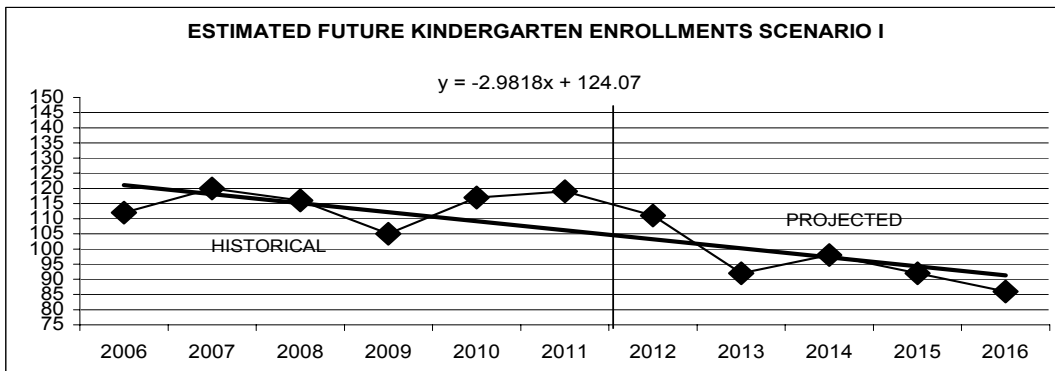
88 total live births five years earlier. That is, about 119% of the year 2004 live births in the Marcellus enrollment area became Marcellus kindergartners in 2009. From 2002 through 2006 there were 472 births in the Marcellus enrollment area. From 2007 through 2011 there were 577 kindergarten enrollments. The live-birth-kindergarten ratio for this five year period is 1.222458 (122%). The median is 1.183673 (118%). The average is 1.244149 (124%). 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 Marcellus; three, the number of pre-schoolers 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. The Marcellus total five-year live-birth-kindergarten ratio pattern suggests that the geographic area served by the school district has retained families with preschoolers *and* the school district likely has attracted families to move to the district who have preschoolers born elsewhere.

The historical kindergarten enrollments of the Marcellus 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 a 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 six years since 2005. It also assumes that the overall kindergarten enrollment to live birth ratio for the years 2007 through 2011 (1.222458) is an historically based ratio that is possible to expect in the future. Forecast scenario one is the basis for the low range enrollment projection calculations with a view of five years into the future.

TABLE 4

PROJECTED MARCELLUS 2012-2021 KINDERGARTEN ENROLLMENTS BASED UPON (A) THE EXPONENTIAL TREND ANALYSIS OF THE SIX YEAR HISTORICAL PATTERN OF ENROLLMENT AREA LIVE BIRTHS FROM 2005 THROUGH 2010, AND (B) THE RATIO DERIVED FROM TOTAL ENROLLMENT AREA LIVE BIRTHS ('02-'06) AND TOTAL DISTRICT KINDERGARTEN ENROLLMENT ('07-'11)

YEAR	PROJECTED K-ENROLL.	YEAR	LIVE BIRTHS ENROLL. AREA	K-ENROLL TO LIVE BIRTH RATIO '07-'11
2012	111	2007	91	1.222458
2013	92	2008	75	1.222458
2014	98	2009	80	1.222458
2015	92	2010	75	1.222458
PROJECTED LIVE BIRTHS				
2016	86	2011	70	1.222458
2017	82	2012	67	1.222458
2018	78	2013	64	1.222458
2019	74	2014	61	1.222458
2020	71	2015	58	1.222458
2021	68	2016	55	1.222458



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 since 2005. It also assumes that the pattern of the live-birth-to-kindergarten ratios for the years 2007-2011 will continue into the future. Forecast scenario two is the basis for the high range enrollment projection calculations with a view of five years into the future.

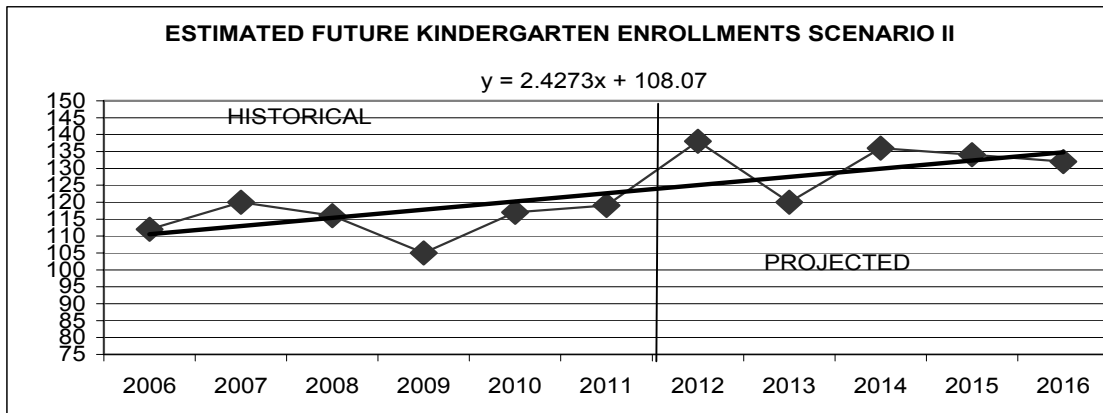
TABLE 5

PROJECTED MARCELLUS 2012-2021 KINDERGARTEN ENROLLMENTS BASED UPON (A) THE EXPONENTIAL TREND ANALYSIS OF THE SIX YEAR HISTORICAL PATTERN OF ENROLLMENT AREA LIVE BIRTHS FROM 2005 THROUGH 2010, AND (B) THE EXPONENTIAL TREND ANALYSIS OF THE KINDERGARTEN-TO-LIVE-BIRTH RATIOS FOR THE SCHOOL YEARS 2007-2011

YEAR	PROJECTED K-ENROLL.	YEAR	LIVE BIRTHS ENROLL. AREA	EST. K-ENROLL TO LIVE BIRTH RATIO
2012	138	2007	91	1.515300
2013	120	2008	75	1.605684
2014	136	2009	80	1.696068
2015	134	2010	75	1.786452

PROJECTED LIVE BIRTHS

2016	132	2011	70	1.876835
2017	132	2012	67	1.967219
2018	131	2013	64	2.057603
2019	131	2014	61	2.147987
2020	130	2015	58	2.238370
2021	134	2016	55	2.419138



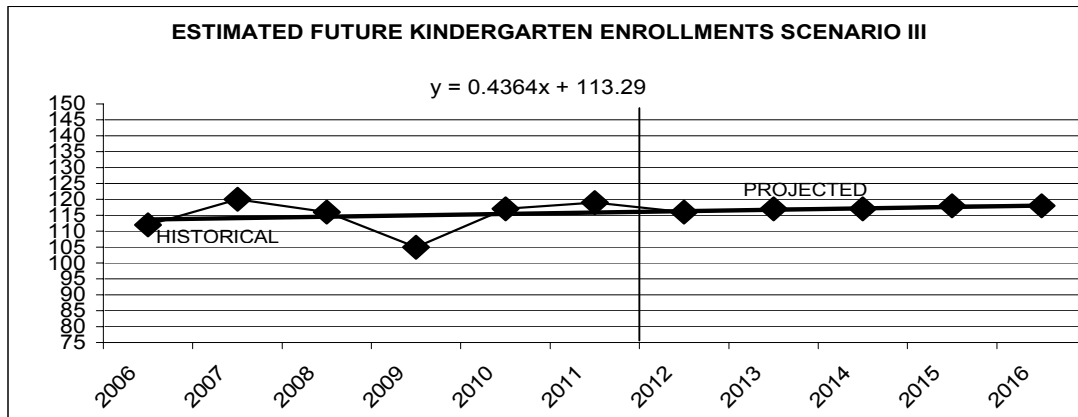
A third forecast of kindergarten enrollments assumes that future kindergarten enrollments will follow the pattern of kindergarten enrollments from 2006 through 2011 without reference to live birth trends or kindergarten-to-live-birth ratio patterns (**Table 6**). Forecast scenario three is the basis for the mid range enrollment projection calculations with a view of five years into the future.

TABLE 6
PROJECTED MARCELLUS SCHOOL DISTRICT
2012-2021 KINDERGARTEN ENROLLMENTS
BASED UPON AN EXPONENTIAL TREND ANALYSIS
OF THE HISTORICAL PATTERN OF KINDERGARTEN ENROLLMENT
DATA FOR THE PAST SIX YEARS 2006-2011

YEAR	PROJECTED K-ENROLL.	YEAR	LIVE BIRTHS ENROLL. AREA	EST. K-ENROLL TO ENROLL. AREA LIVE BIRTH RATIO
2012	116	2007	91	1.278388
2013	117	2008	75	1.556825
2014	117	2009	80	1.464881
2015	118	2010	75	1.568254

PROJECTED LIVE BIRTHS

2016	118	2011
2017	118	2012
2018	119	2013
2019	119	2014
2020	120	2015
2021	120	2016



BASELINE K-12 ENROLLMENT PROJECTIONS

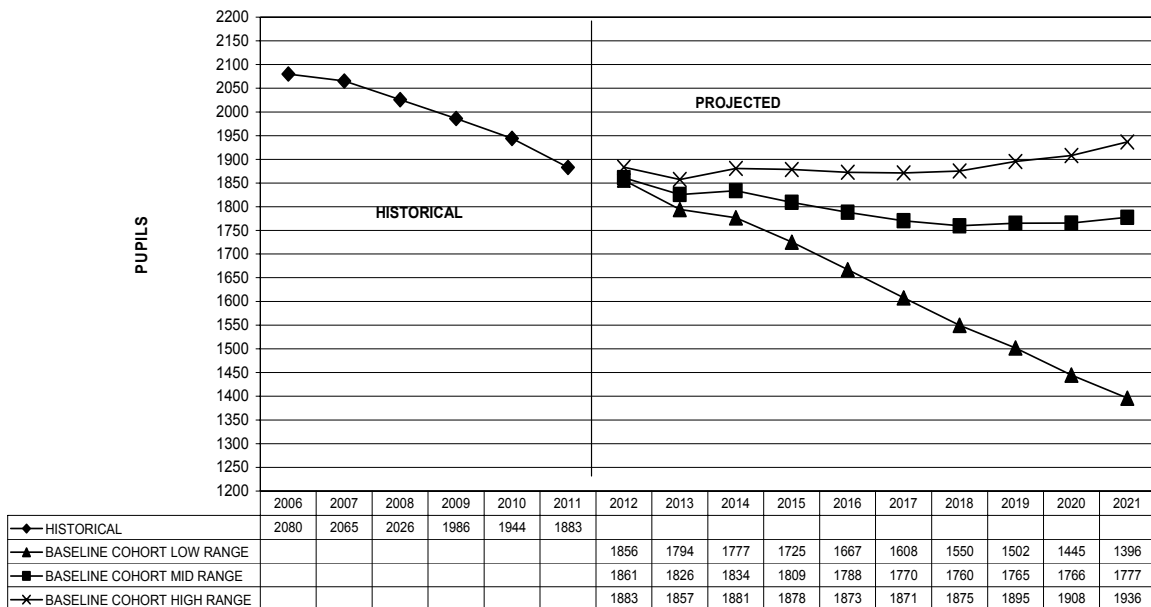
Tables 7A, B, and C in the **Appendix** present Low, Mid, and High range K-12 enrollment projections calculated using the cohort survival statistic. Each calculation is based on historical K-12 enrollments as reported by the school district for each of the school years 2006-2007 through 2011-2012. The 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 2006-2007 through 2011-2012. The six-year average ratios for each grade level are used to calculate estimated future grade 1-12 enrollments through 2021-22.

The Base Cohort Enrollment Projections Summary in the **Appendix** lists the K-3, 4-8, and 9-12 base cohort enrollment projections for the years 2012-2013 through 2021-2022 applying the cohort survival statistic and the three forecast scenarios to estimate future kindergarten enrollments.

The chart below illustrates the K-12 enrollment projections resulting from the assumptions that underlie the baseline cohort low, mid, and high scenarios.

GRADES K-12 ESTIMATED BASELINE COHORT ENROLLMENT PROJECTIONS 2012-2021



DISTRICT ENROLLMENT AND HOME-SCHOOL/NON-PUBLIC ENROLLMENT

There are no reports of private schools opening or closing within the Marcellus School District. The district reports the following historical total private school and home-school enrollment data for the school years 2006-2007 through 2011-2012. The table compares annual private school enrollments and home school enrollments with the total K-12 enrollment in the Marcellus Central School District.

	2006- 2007	2007- 2008	2008- 2009	2009- 2010	2010- 2011	2011- 2012
Private and Charter School Enrollment K-12	68	72	66	68	64	62
K-12 Enrollment Marcellus	2080	2065	2026	1985	1944	1883
<i>Private School Enrollment as a Percentage of Public School Enrollment</i>	3.3%	3.5%	3.3%	3.4%	3.3%	3.3%
Home School Enrollment K-12	33	31	32	31	20	28
K-12 Enrollment Marcellus	2080	2065	2026	1985	1944	1883
<i>Home School Enrollment as a Percentage of Public School Enrollment</i>	1.6%	1.5%	1.6%	1.6%	1.0%	1.5%
Total Non-public/home school/charter school Enrollment K-12	101	103	98	99	84	90
K-12 Enrollment Marcellus	2080	2065	2026	1985	1944	1883
<i>Total Non-public/home school/charter school Enrollment as a Percentage of Public School Enrollment</i>	4.9%	5.0%	4.8%	5.0%	4.3%	4.8%

It is assumed that the private school and home school enrollment data listed above are consistent variables and have already been incorporated into the pattern of historical public school enrollments since 2006. There are no significant changes in the number or percentage of pupils who do not attend a public school setting at the Marcellus school district over the past six years. No changes, at this time, are made to the baseline enrollment projection calculations because of the pattern of private school enrollments projected for the future. The district reports that the district and community are in preliminary discussion about the value of offering a full-day kindergarten program. A full-day kindergarten program, if implemented in the future, may influence the decisions of some parents who now choose non-public settings that do offer a full-day program.

The ongoing attention by the district to track the private school, home school, and charter school enrollment data enables the district to analyze the possible influence of non-public enrollments on future enrollment projections. The total public school enrollment from 2006-2007 through 2011-2012 decreased by 9.75%. It is noteworthy that the annual shares of home school and private school enrollments compared to the annual public school enrollments have *remained constant*. Over the past six years, private school enrollment annually has equaled about at 3.3% of the public enrollment; and the home-schooled has equaled about 1.5% of the public enrollment for a total non-public share of 4.8% of the public enrollment. This suggests that the cultural value decisions of the community regarding a non-public education have remained consistent even though there has been a reduction in the population number of school aged pupils to be served over the past six years in the geographic region of the school district.

It is also suggested that efforts be given to contact families of 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 Marcellus 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 TUITION STUDENTS

Other school districts do not tuition students to the Marcellus Central School District.

DISTRICT ENROLLMENT AND DROPOUT RATES/NONCOMPLETION RATES

High school graduation cohort results since 2001 and the noncompletion rates since 2005-2006 for the Marcellus Central School District are charted below as published by the Sate Education Department.

MARCELLUS CENTRAL SCHOOL DISTRICT HIGH SCHOOL GRADUATION RESULTS OF ALL STUDENTS OF GRADE 9 COHORTS FOUR YEARS LATER

COHORT YEAR	STUDENT COUNT	% GRADUATED	% IEP DIPLOMA	% STILL ENROLLED	% TRANS. TO GED	% DROPPED OUT
2001	173	87	2	4	2	5
2002	175	89	1	3	1	5
2003	168	88	na	5	3	4
2004	188	89	1	1	4	5
2005	180	91	1	2	1	6
2006	179	89	1	5	3	4

HIGH SCHOOL NONCOMPLETION RATES FOR ALL MARCELLUS STUDENTS*

YEAR	# DROPPED OUT	% OF ENROLL	# ENTERED GED PROGRAM	% OF ENROLL	TOTAL NON-COMPLETERS	% OF ENROLL
05-06	7	1	7	1	14	2
06-07	8	1	0	0	9	1
07-08	5	1	4	1	9	1
08-09	9	1	9	1	18	3
09-10	7	1	1	0	8	1

*Noncompletion 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 dropout rate and the 'noncompleter' 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 now identified as 'noncompleters.'

The Marcellus grade-to-grade average survival ratios for grades 9 through grade 12 since 2006-2007 range from .954 to 1.01. The ratios reflect the retention rate of students who stay and complete high school from one year to the next and/or that students are moving into the school district and enrolling at Marcellus at a lower rate to the number of students who move out of the district or leave to enroll in a non-public school.

The survival ratio for grade 1 to grade over six years is .842 which is significantly low compared to other elementary grade levels. Marcellus provides a 'pre-first' grade level offering to aid pupils requiring more time before entering second grade. The pre-first enrollment is included in the grade 1 enrollment total which mathematically skews the survival ratio from grade 1 to grade 2.

Marcellus has committed program and curriculum efforts to achieve the New York State academic standards and graduation requirements for all students. The study assumes in the AIS projection scenario that the average survival ratio for the following grade will increase over the next ten years because of the sustained, systemic implementation of comprehensive academic intervention and instructional support services.

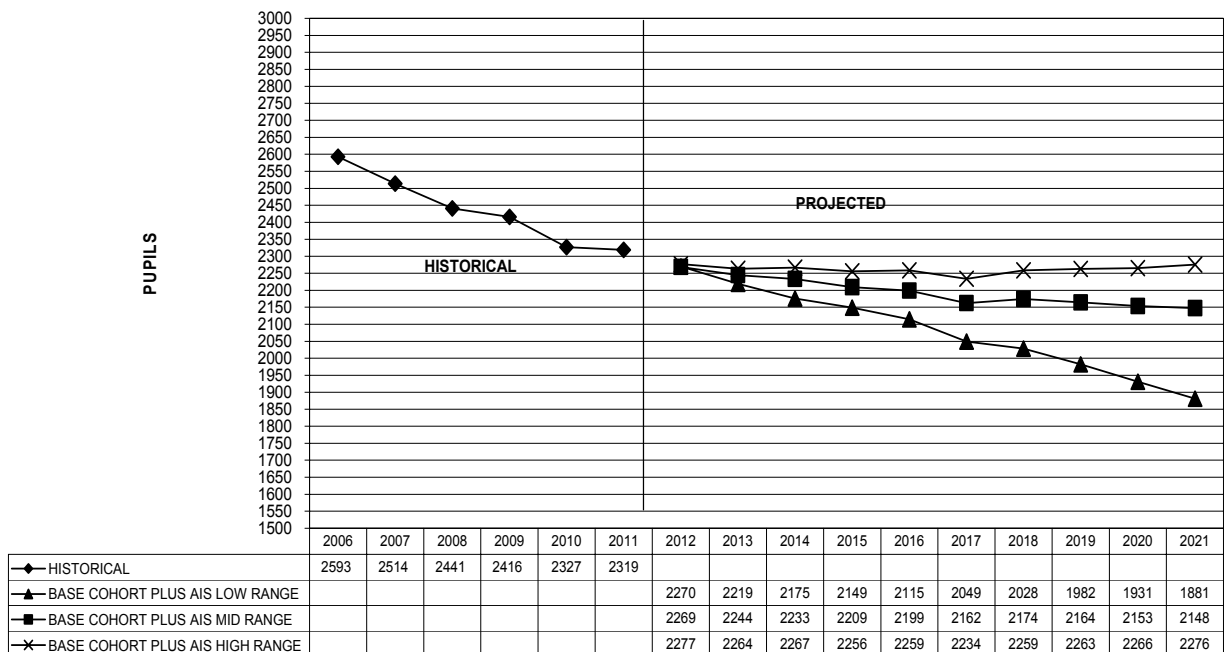
- Grade 11 to grade 12; an increased survival ratio from .954 to 1.000

Tables 8A, B, and C in the **Appendix** recalculate the baseline high range, mid range, and low range cohort survival calculations assuming a continued increase through 2020-2021 in the grades 9 through 12 survival ratios because of focused AIS efforts in helping all students achieve high school completion.

The Summary: Estimated Cohort Enrollment Projections Influenced by AIS in the **Appendix** lists the adjusted low, mid, and high enrollment projections taking into account the expected positive influence of the Academic Intervention Services program (AIS) and the Response to Intervention programs over the next ten years.

The chart below illustrates the K-12 enrollment projections resulting from the assumptions that underlie the baseline cohort low, mid, and high scenarios adjusted by the expected influence of the success of a systemic implementation of all services to help all pupils graduate over the next ten years.

GRADES K-12 ESTIMATED BASE COHORT ENROLLMENT PROJECTIONS INFLUENCED BY SUSTAINED AIS EFFORTS 2012-2021



THE HOUSING MARKET AND POTENTIAL HOUSING DEVELOPMENTS

The boundaries of the Marcellus School District include a portion of the Towns of Marcellus, Camillus, Onondaga, Skaneateles, Spafford, Otisco as well as the Village of Marcellus. The offices of the codes enforcement officers/development planners for the towns and the village were contacted and interviewed. The officials reported that no short-term or long-term inquiries or applications have been received regarding residential construction that would add significantly to the residential unit marketplace.

Mr. Bill Lang of Realty USA was interviewed to understand the current residential market in the school district. The time and willingness of the codes/planning officials, and Mr. Lang to share their expertise, information, and local market knowledge are appreciated and are valuable assets to the study and to the Marcellus School District.

Mr. Lang explained how the Marcellus market up to 2005 was 'booming'. The local market has been affected by the overall national economic downturn with the housing market. Unlike the national market, the Marcellus housing market has been modestly steady since 2005. Homes under \$200,000 have been selling consistently. The Marcellus housing market has been focused on existing housing. In the past, it was not unusual to sell 25 or more building lots a year. The recent past has reflected the sale of about 5 to 6 building lots a year. For example, the Sage Meadows development began about three years ago with 25 lots. In three years, six homes have been built and sold. There are fewer builder-developers and those that are still in business are not buying more lots. Few, if any, homes are built on speculation.

Mr. Lang pointed out that even in a much slower market since 2005, the reputation of the Marcellus School District has been a major asset in helping to sell homes that do come onto the market. He notes from his experience that "Marcellus School District homes always sell better." His clients often point out that the Marcellus district is a major consideration of where they eventually

purchase. In addition, he finds most households that do wish to down-size from a family-sized home to an 'empty-nester' sized home, wish to do so within in Marcellus. The small town atmosphere is often shared as the desirable reason for staying within the community.

Charted below is a snapshot of the current residential market in the Marcellus Central School District as of March 29/2012.

Current Residential Market Inventory	Average Price	Median Price	Average Days on Market To Date	Median Days on Market to Date
78	\$245,5118	\$234,030	184	159
High: \$729,900		Low: \$52,000		
Average # of bedrooms: 3		Median # of bedrooms: 3		
DAYS ON MARKET				
0-30	31-60	61-90	91-120	120+
18	9	7	1	43

Price Range	Quantity
\$99,999 or under	5
\$100,000-\$139,999	9
\$140,000-\$179,000	9
\$180,000-\$239,999	23
\$240,000-\$299,999	19
\$300,000-399,999	8
400,000-\$499,999	3
\$500,000 and over	4

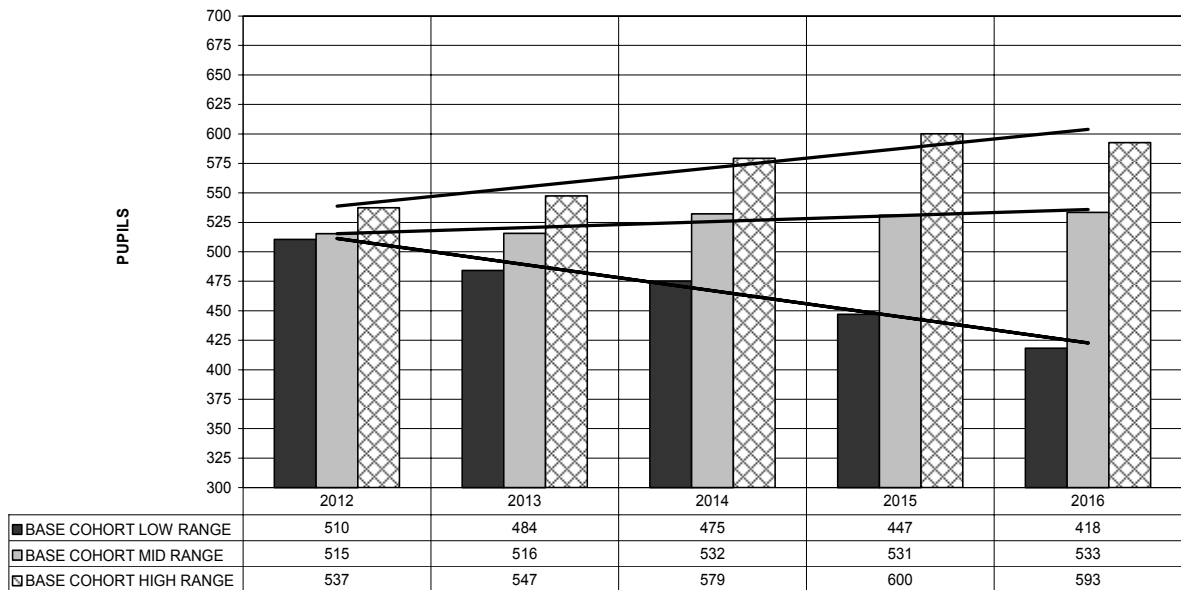
The current residential market is 'slow' as suggested by the average of 184 days on market. Out of the 78 residential properties 65.4% or 51 homes are in the 'typical' family price range of \$140,000 to \$299,999.

Since there are no data to suggest major new residential development will occur within the next five years in the school district, the study does not adjust the baseline cohort enrollment projections based on potential influence of *new* residential construction within the school district. The study assumes the market of existing residential homes will continue in a similar pattern to that of the last three years.

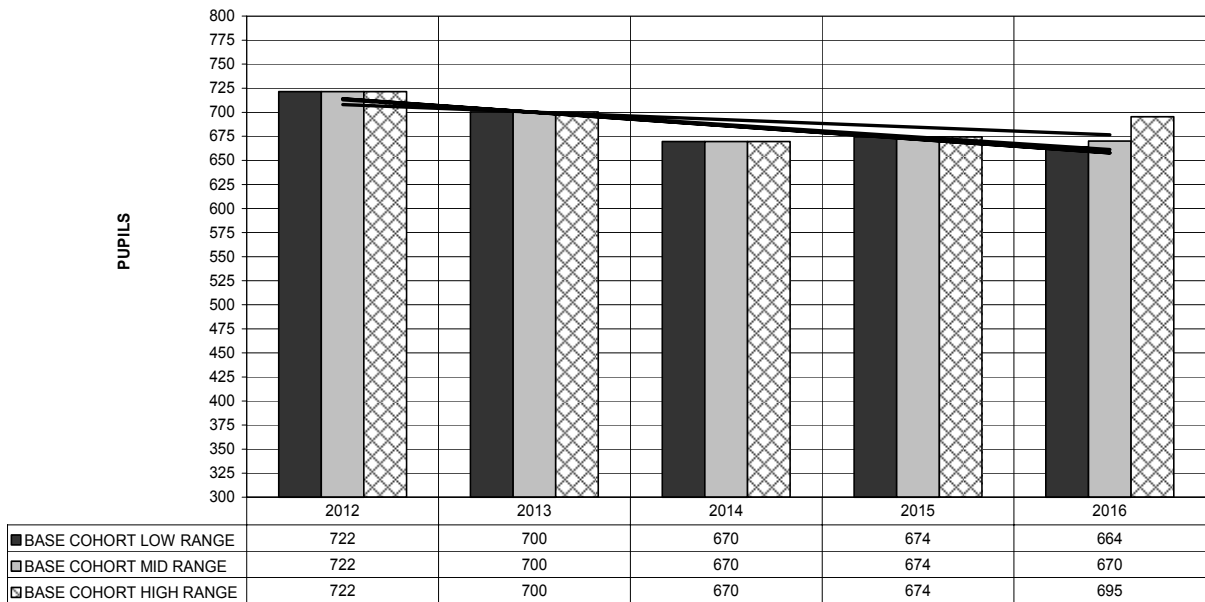
SUMMARY OF K-12 ENROLLMENT PROJECTION DATA CALCULATIONS

The charts that follow summarize the enrollment projection calculations through 2021-2022 undertaken in this study. The estimates are based on the application of the cohort survival statistic; annual total live birth analysis to project potential kindergarten enrollments in the future; assumptions about retaining all pupils through high school completion; and assumptions based on current estimates of new housing units expected in the district. The enrollment estimates are projections and not predictions. All enrollment projections for years further in the future (plus five years) 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. The projections do offer a starting point for analyzing and understanding the elements of future school district demographic change.

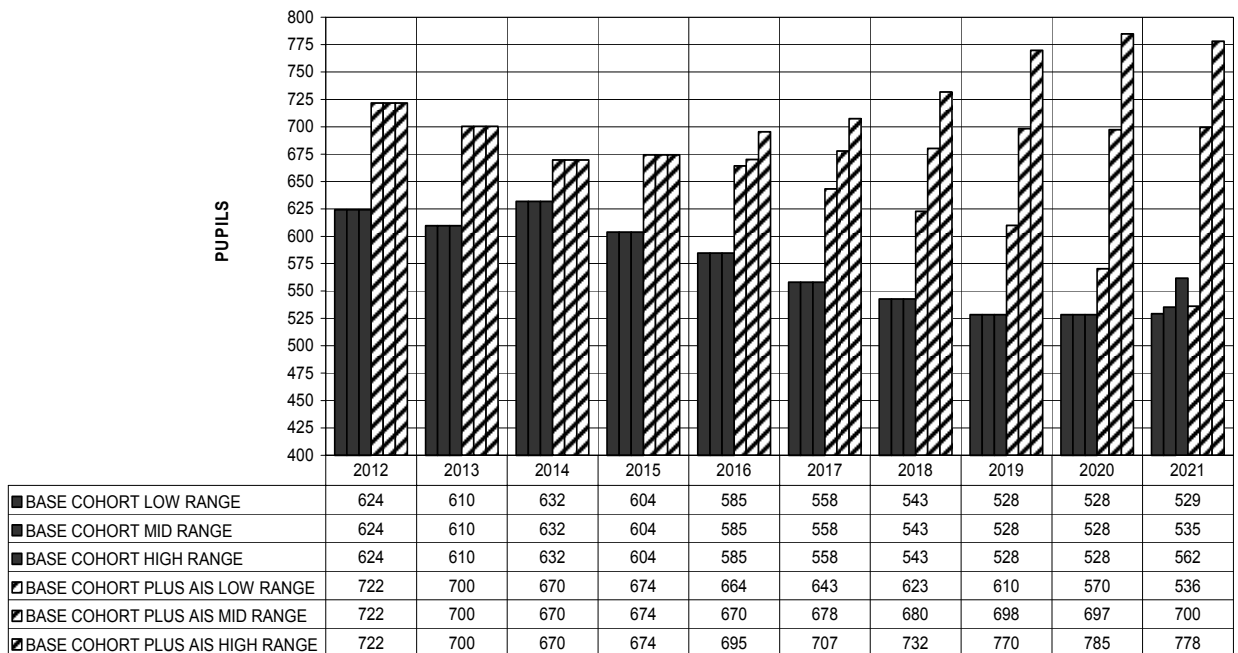
GRADES K-3 ESTIMATED ENROLLMENT SCENARIOS 2012-2016



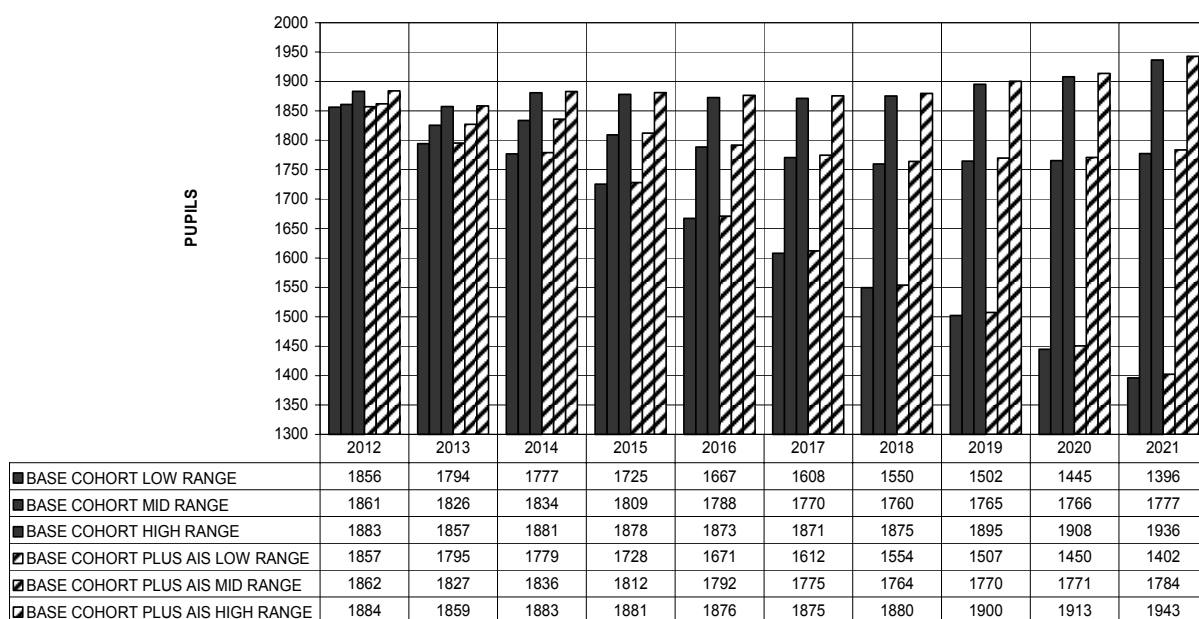
GRADES 4-8 ESTIMATED ENROLLMENT SCENARIOS 2012-2016



GRADES 9-12 ESTIMATED ENROLLMENT SCENARIOS 2012-2021



GRADES K-12 ESTIMATED ENROLLMENT SCENARIOS 2012-2021



The table below is 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. 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. In summary, the three projections suggest that:

Base Cohort Projections

- **Grades K-3 enrollment** may decline by about 85 pupils as per the most conservative projection model over the next five years. The other two models suggest an increase of about 25 to 90 pupils over the next five years.
- **Grades 4-8 enrollment** may likely decline by about 55 to 85 pupils over the next five years; decline by up to 132 pupils over the next eight years
- **Grades 9-12 enrollment** may likely decline by about 55 to 100 pupils over the next 10 years.

Calculation	Year	Grades K-3	Grades 4-8	Grades 9-12
CURRENT ENROLLMENT	2011-2012	505	752	627
Baseline Cohort Low Range				
	2016-2017	418	664	
	2019-2020		610	
	2021-2022			529
Baseline Cohort Mid Range				
	2016-2017	533	670	
	2019-2020		698	
	2021-2022			535
Baseline Cohort High Range				
	2016-2017	593	695	
	2019-2020		770	
	2021-2022			562
Baseline Plus AIS Influence Low Range				
	2021-2022			536
Baseline Plus AIS Influence Mid Range				
	2021-2022			542
Baseline Plus AIS Influence High Range				
	2021-2022			568

CAUTIONS CONCERNING ENROLLMENT PROJECTION ESTIMATES

All enrollment projections for years further in the future (plus five years) 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. 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 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 tuitioned 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 Marcellus School District residents; or major immediate changes to the numbers of pupils tuitioned from other school districts.

The *Enrollment Projection Calculations* provide 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 pupils completing graduation, new residential construction, new population to the district, and increased jobs within commuting distance of the district.

FEDERAL CENSUS DEMOGRAPHIC DATA

A valuable tool to use as the Board and district make value judgments about future enrollments and the outlook for the Marcellus School District as a whole is Federal Census data. Within 18 months, it is expected that the 2010 Census data will begin to be available for small geographical locations like school districts. The most current Census data for school districts was published in 2011. The data represent the average demographic characteristics over the 5-year period from 2006-2010.

Below is a chart that lists some of the most salient demographic characteristics reported by the 5 year Census estimate released in 2011. The Census data included in this report include data about Onondaga County and the Marcellus School District. The data may provide insights into: how potential new population who buy existing residential housing and new employment opportunities may or may not affect the enrollment of the school district in the future. In addition, a review of the Census data variables can provide insights into: community education program opportunities; school program variables that may be related or influenced by the community demographic profiles; public relations and communication strategies with various subsets of the population in the district; and other school district issues and roles as the school district plans for the future. Discussing the similarities and dissimilarities of the characteristics of the Marcellus School District compared to Onondaga County as a whole can be valuable as the Board, senior leadership, and the community define short range and long-range plans for the district program, its facilities, and the role of the school district in serving the community. Some example discussion questions for Marcellus based on the Census data might include:

- What challenges and/or opportunities do the following demographic characteristics between the Marcellus School District and Onondaga County as a whole present to the mission of providing public education in the Marcellus school district?
 - 26.9% of the population of the school district is 15 years and older and married compared to 34.5% in all of Onondaga County
 - 4% of the school district population is under five years old compared to 5.9% in the County
 - the median age of the school district is 43.3 years compared to 38.3 years County-wide
 - 14.8% of the school district population is 65 years or over compared to 13.8% in the County
 - 20.5% of households in the school district are nonfamily households compared to 37.9% County-wide
 - 98.3% of school district population and 82.4% of the County population are Caucasian
 - 93% of the population in the school district were in the same residence one year ago; 84.1% County-wide
 - the average household size in the district is 2.52 people; 2.85 County-wide.

- the average family size in the district is 2.72 people; 2.45 County-wide.
 - 27.5% of the school district households (1 out of 4) include one or more persons 65 years and older compared to 24.8% of such households (1 out of 4) County-wide.
 - 35.7% of the school district households include one or more persons under 18 compared to 31.4% of such households County-wide.
 - 89.3% of the County population is a high school graduate or higher compared to 95.1% of the school district population
 - median household income in the district is \$63,597 and is \$50,676 County-wide.
 - median non-family income in the district is \$37,857 and is \$29,804 County-wide.
 - the median family income in the district is \$73,036 in the district and is \$65,929 County-wide.
 - 6.5% of the total Marcellus population had income in the past twelve months below the poverty level; 10.9% of all of those under 18 years of age; 5.3% of all families; 9.7% of all families with children under 18 years of age. 26.1% of all families with a female householder, no husband present and with related children under 18 had income in the past 12 months below the poverty level. What are the programs and services that the district provides to help the children who live below the poverty level? Are there other programs and services that should be considered?
 - 10.1% of those under 18 in the school district lived in poverty in the past 12 months compared to 19.2% in the County.
 - 2.0% of those 65 years and over in the school district lived in poverty in the past 12 months compared to 7.7% County-wide
 - 84.9% of the housing units are owned in the school district compared to 15.1% that are rented.
 - About one-fifth of the population in the district moved into the district since 2005 compared to about one-third of the population who moved into the County since 2005.
 - 54.5% of the household units in the school district have three bedrooms or more.
 - 66.3% of renters in the school district pay between \$500 and \$1000 for rent compared to 65.4% of renters in the county who pay rent in the same range.
- About 25.5% of the school district population is at child-bearing age compared to 32.5% for the County as a whole. 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? About 77% of all housing units in Marcellus have at least 3

bedrooms? What are the possible impacts on the school district if *existing* family-sized homes and/or rental units turnover at a slow rate? At a fast rate?

- About 1 in 3 households have social security income and about 1 in 4 households in the Marcellus School District have retirement income. What do such data suggest about 'stakeholdership' of the district and the 'ability' to financially resource the district? The 'desire' or 'willingness' to financially resource the district? Are there any noticeable dichotomies of opinions about the school district by the 36 out of 100 households with children under 18 and the 64 out of 100 households with no children under 18?
- The share of total households in Marcellus with one or more persons 65 years or older is about 28 out of a 100 compared to about 36 out of 100 of district households with members under 18. What do these data suggest about community programs offered and communication efforts with these households in the school district?
- The median household income is about 9% less than the median family income in the Marcellus School District. Has this disparity 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?

Federal Census Bureau 2006-2010 American Community Survey 5-Year Estimates

Please Note: 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 the tables that follow contain sampling error and nonsampling error. Each demographic characteristic has a corresponding *Margin of Error*. The margin of error is the difference between an estimate and its upper or lower confidence bound. All American Community Survey margins of error are based on a 90 percent confidence level. The margins of error are not reported in the following discussion tool due to space considerations. The demographic census estimates are reported as a resource to encourage community discussion about possible similarities and differences in characteristics of the school district and the County. The compilation of the Census data is a tool to help the community and school leaders discuss and suggest insights about short-term and long-term planning. 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/](http://www.census.gov/acs/www/methodology/methodology_main/)

Demographic 5-year Estimates: 2006-2010

Source: U.S. Census Bureau, 2006-2010 American Community Survey

DEMOGRAPHIC	Marcellus School		Onondaga County	
	Estimate	Percent	Estimate	Percent
SEX AND AGE				
Total population	10,574	10,574	463,704	463,704
Male	5,232	49.5%	223,042	48.1%
Female	5,342	50.5%	240,662	51.9%
Under 5 years	428	4.0%	27,285	5.9%
5 to 9 years	823	7.8%	29,570	6.4%
10 to 14 years	840	7.9%	31,524	6.8%
15 to 19 years	795	7.5%	36,913	8.0%
20 to 24 years	628	5.9%	34,092	7.4%
25 to 34 years	658	6.2%	54,574	11.8%
35 to 44 years	1,415	13.4%	61,471	13.3%
45 to 54 years	1,824	17.2%	70,868	15.3%
55 to 59 years	757	7.2%	29,945	6.5%
60 to 64 years	842	8.0%	23,534	5.1%
65 to 74 years	945	8.9%	30,642	6.6%
75 to 84 years	445	4.2%	23,161	5.0%
85 years and over	174	1.6%	10,125	2.2%
Median age (years)	43.3	(X)	38.3	(X)
18 years and over	7,965	75.3%	354,570	76.5%
21 years and over	7,561	71.5%	329,751	71.1%
62 years and over	2,047	19.4%	76,524	16.5%
65 years and over	1,564	14.8%	63,928	13.8%
18 years and over	7,965	7.965	354,570	354,570
Male	3,903	49.0%	167,434	47.2%
Female	4,062	51.0%	187,136	52.8%
65 years and over	1,564	1,564	63,928	63,928
Male	767	49.0%	26,409	41.3%
Female	797	51.0%	37,519	58.7%
RACE				
Total population	10,574	10,574	463,704	463,704
One race	10,488	99.2%	453,162	97.7%
Two or more races	86	0.8%	10,542	2.3%
One race	10,488	99.2%	453,162	97.7%
White	10,394	98.3%	381,903	82.4%
Black or African American	23	0.2%	49,057	10.6%
American Indian and Alaska Native	18	0.2%	3,511	0.8%
Asian	33	0.3%	14,027	3.0%
Total population	10,574	10,574	463,704	463,704
White	10,480	99.1%	390,984	84.3%
Black or African American	42	0.4%	55,235	11.9%
American Indian and Alaska Native	27	0.3%	6,764	1.5%
Asian	99	0.9%	15,752	3.4%
Native Hawaiian and Other Pacific Islander	0	0.0%	674	0.1%
Some other race	31	0.3%	5,517	1.2%
Hispanic or Latino (of any race)	45	0.4%	17,294	3.7%
Total housing units	4,304	(X)	201,871	(X)

Social 5-year Estimates: 2006-2010

Source: U.S. Census Bureau, 2006-2010 American Community Survey

SOCIAL CHARACTERISTICS	Marcellus School District		Onondaga County	
	Estimate	Percent	Estimate	Percent
HOUSEHOLDS BY TYPE				
Total households	3,884	3,884	183,542	183,542
Family households (families)	3,086	79.5%	113,910	62.1%
With own children under 18 years	1,368	35.2%	53,057	28.9%
Married-couple family	2,424	62.4%	82,482	44.9%
With own children under 18 years	910	23.4%	34,269	18.7%
Male householder, no wife present, family	206	5.3%	7,473	4.1%
With own children under 18 years	143	3.7%	4,107	2.2%
Female householder, no husband present, family	456	11.7%	23,955	13.1%
With own children under 18 years	315	8.1%	14,681	8.0%
Nonfamily households	798	20.5%	69,632	37.9%
Householder living alone	718	18.5%	56,963	31.0%
65 years and over	298	7.7%	20,241	11.0%
Households with one or more people under 18 years	1,386	35.7%	57,669	31.4%
Households with one or more people 65 years and over	1,069	27.5%	45,586	24.8%
Average household size	2.72	(X)	2.45	(X)
Average family size	3.05	(X)	3.10	(X)
RELATIONSHIP				
Population in households	10,574	10,574	448,775	448,775
Householder	3,884	36.7%	183,542	40.9%
Spouse	2,434	23.0%	82,364	18.4%
Child	3,559	33.7%	135,978	30.3%
Other relatives	334	3.2%	20,410	4.5%
Nonrelatives	363	3.4%	26,481	5.9%
Unmarried partner	173	1.6%	12,502	2.8%
MARITAL STATUS				
Males 15 years and over	4,101	4,101	177,960	177,960
Never married	1,098	26.8%	65,951	37.1%
Now married, except separated	2,505	61.1%	87,780	49.3%
Separated	84	2.0%	3,714	2.1%
Widowed	88	2.1%	4,951	2.8%
Divorced	326	7.9%	15,564	8.7%
Females 15 years and over	4,382	4,382	197,365	197,365
Never married	1,183	27.0%	63,505	32.2%
Now married, except separated	2,499	57.0%	87,163	44.2%
Separated	93	2.1%	5,232	2.7%
Widowed	225	5.1%	19,461	9.9%
Divorced	382	8.7%	22,004	11.1%
FERTILITY				
Number of women 15 to 50 years old who had a birth in the	116	116	6,285	6,285
Unmarried women (widowed, divorced, and never married)	37	31.9%	2,496	39.7%
Per 1,000 unmarried women	29	(X)	37	(X)
Per 1,000 women 15 to 50 years old	47	(X)	53	(X)
Per 1,000 women 15 to 19 years old	7	(X)	17	(X)
Per 1,000 women 20 to 34 years old	128	(X)	106	(X)
Per 1,000 women 35 to 50 years old	20	(X)	22	(X)
GRANDPARENTS				

SOCIAL CHARACTERISTICS	Marcellus School District		Onondaga County	
	Estimate	Percent	Estimate	Percent
Number of grandparents living with own grandchildren under	60	60	6,647	6,647
Responsible for grandchildren	14	23.3%	2,895	43.6%
SCHOOL ENROLLMENT				
Nursery school, preschool	88	3.0%	7,094	5.4%
College or graduate school	559	18.9%	41,787	32.0%
EDUCATIONAL ATTAINMENT				
Population 25 years and over	7,060	7,060	304,320	304,320
Less than 9th grade	61	0.9%	9,563	3.1%
9th to 12th grade, no diploma	285	4.0%	23,055	7.6%
High school graduate (includes equivalency)	2,056	29.1%	84,755	27.9%
Some college, no degree	1,255	17.8%	55,262	18.2%
Associate's degree	906	12.8%	34,206	11.2%
Bachelor's degree	1,504	21.3%	55,564	18.3%
Graduate or professional degree	993	14.1%	41,915	13.8%
Percent high school graduate or higher	(X)	95.1%	(X)	89.3%
Percent bachelor's degree or higher	(X)	35.4%	(X)	32.0%
RESIDENCE 1 YEAR AGO				
Population 1 year and over	10,472	10,472	458,672	458,672
Same house	9,735	93.0%	385,566	84.1%
Different house in the U.S.	737	7.0%	69,331	15.1%
Same county	560	5.3%	49,127	10.7%
Different county	177	1.7%	20,204	4.4%
Same state	70	0.7%	11,558	2.5%
Different state	107	1.0%	8,646	1.9%
Abroad	0	0.0%	3,775	0.8%
PLACE OF BIRTH				
Total population	10,574	10,574	463,704	463,704
Native	10,376	98.1%	432,330	93.2%
Born in United States	10,334	97.7%	426,876	92.1%
State of residence	9,202	87.0%	357,492	77.1%
Different state	1,132	10.7%	69,384	15.0%
Puerto Rico, U.S. Island areas, abroad to American parent(s)	42	0.4%	5,454	1.2%
Foreign born	198	1.9%	31,374	6.8%
U.S. CITIZENSHIP STATUS				
Foreign-born population	198	198	31,374	31,374
Naturalized U.S. citizen	198	100.0%	15,756	50.2%
LANGUAGE SPOKEN AT HOME				
Population 5 years and over	10,146	10,146	436,419	436,419
English only	9,745	96.0%	394,798	90.5%
Language other than English	401	4.0%	41,621	9.5%
Speak English less than "very well"	125	1.2%	15,220	3.5%
ANCESTRY				
Total population	10,574	10,574	463,704	463,704
English	2,276	21.5%	60,136	13.0%
German	2,625	24.8%	90,839	19.6%
Irish	3,148	29.8%	107,847	23.3%
Italian	2,105	19.9%	82,451	17.8%
Polish	981	9.3%	35,362	7.6%

Economic 5-year Estimates: 2006-2010

Source: U.S. Census Bureau, 2006-2010 American Community Survey

ECONOMIC CHARACTERISTICS	Marcellus School District		Onondaga County	
	Estimate	Percent	Estimate	Percent
EMPLOYMENT STATUS				
Population 16 years and over	8,336	8,336	368,475	368,475
In labor force	5,806	69.6%	237,600	64.5%
Civilian labor force	5,795	69.5%	237,114	64.4%
Employed	5,420	65.0%	221,848	60.2%
Unemployed	375	4.5%	15,266	4.1%
Armed Forces	11	0.1%	486	0.1%
Not in labor force	2,530	30.4%	130,875	35.5%
Civilian labor force	5,795	5,795	237,114	237,114
Percent Unemployed	(X)	6.5%	(X)	6.4%
Females 16 years and over	4,316	4,316	194,207	194,207
In labor force	2,816	65.2%	116,710	60.1%
Civilian labor force	2,816	65.2%	116,633	60.1%
Employed	2,675	62.0%	109,828	56.6%
Own children under 6 years	601	601	32,242	32,242
All parents in family in labor force	464	77.2%	21,736	67.4%
Own children 6 to 17 years	1,969	1,969	72,074	72,074
All parents in family in labor force	1,627	82.6%	53,342	74.0%
COMMUTING TO WORK				
Workers 16 years and over	5,319	5,319	216,202	216,202
Car, truck, or van -- drove alone	4,420	83.1%	172,184	79.6%
Car, truck, or van -- carpoled	503	9.5%	19,702	9.1%
Public transportation (excluding taxicab)	45	0.8%	5,781	2.7%
Walked	50	0.9%	8,998	4.2%
Other means	29	0.5%	2,939	1.4%
Worked at home	272	5.1%	6,598	3.1%
Mean travel time to work (minutes)	23.5	(X)	19.1	(X)
OCCUPATION				
Civilian employed population 16 years and over	5,420	5,420	221,848	221,848
Management, business, science, and arts occupations	2,187	40.4%	85,778	38.7%
Service occupations	971	17.9%	37,799	17.0%
Sales and office occupations	1,405	25.9%	60,610	27.3%
Natural resources, construction, and maintenance occupations	409	7.5%	15,908	7.2%
Production, transportation, and material moving occupations	448	8.3%	21,753	9.8%
INDUSTRY				
Civilian employed population 16 years and over	5,420	5,420	221,848	221,848
Agriculture, forestry, fishing and hunting, and mining	57	1.1%	1,202	0.5%
Construction	369	6.8%	11,296	5.1%
Manufacturing	463	8.5%	21,429	9.7%
Wholesale trade	194	3.6%	7,384	3.3%
Retail trade	598	11.0%	25,648	11.6%
Transportation and warehousing, and utilities	253	4.7%	10,537	4.7%
Information	71	1.3%	5,686	2.6%
Finance and insurance, and real estate and rental and leasing	420	7.7%	16,060	7.2%
Professional, scientific, and management and waste management services	487	9.0%	20,602	9.3%
Educational services, and health care and social assistance	1,648	30.4%	63,432	28.6%
Arts, entertainment, and recreation, and accommodation and food services	390	7.2%	18,750	8.5%
Other services, except public administration	182	3.4%	10,611	4.8%
Public administration	288	5.3%	9,211	4.2%
CLASS OF WORKER				

ECONOMIC CHARACTERISTICS	Marcellus School District		Onondaga County	
	Estimate	Percent	Estimate	Percent
Civilian employed population 16 years and over	5,420	5,420	221,848	221,848
Private wage and salary workers	3,831	70.7%	173,186	78.1%
Government workers	1,247	23.0%	37,871	17.1%
Self-employed in own not incorporated business workers	332	6.1%	10,539	4.8%
Unpaid family workers	10	0.2%	252	0.1%
INCOME AND BENEFITS (IN 2010 INFLATION-ADJUSTED DOLLARS)				
Total households	3,884	3,884	183,542	183,542
Less than \$10,000	123	3.2%	14,625	8.0%
\$10,000 to \$14,999	106	2.7%	10,540	5.7%
\$15,000 to \$24,999	238	6.1%	19,899	10.8%
\$25,000 to \$34,999	277	7.1%	19,860	10.8%
\$35,000 to \$49,999	692	17.8%	25,743	14.0%
\$50,000 to \$74,999	790	20.3%	34,074	18.6%
\$75,000 to \$99,999	582	15.0%	22,539	12.3%
\$100,000 to \$149,999	747	19.2%	23,755	12.9%
\$150,000 to \$199,999	230	5.9%	6,935	3.8%
\$200,000 or more	99	2.5%	5,572	3.0%
Median household income (dollars)	63,597	(X)	50,676	(X)
Mean household income (dollars)	79,823	(X)	66,443	(X)
With earnings	3,258	83.9%	141,421	77.1%
Mean earnings (dollars)	77,271	(X)	68,934	(X)
With Social Security	1,210	31.2%	53,398	29.1%
Mean Social Security income (dollars)	18,176	(X)	16,312	(X)
With retirement income	940	24.2%	37,716	20.5%
Mean retirement income (dollars)	21,655	(X)	19,772	(X)
With Supplemental Security Income	44	1.1%	8,555	4.7%
Mean Supplemental Security Income (dollars)	7,575	(X)	8,150	(X)
With cash public assistance income	23	0.6%	4,923	2.7%
Mean cash public assistance income (dollars)	5,830	(X)	3,170	(X)
With Food Stamp/SNAP benefits in the past 12 months	88	2.3%	18,199	9.9%
Families	3,086	3,086	113,910	113,910
Less than \$10,000	68	2.2%	5,364	4.7%
\$10,000 to \$14,999	51	1.7%	3,369	3.0%
\$15,000 to \$24,999	168	5.4%	8,730	7.7%
\$25,000 to \$34,999	227	7.4%	9,456	8.3%
\$35,000 to \$49,999	384	12.4%	14,289	12.5%
\$50,000 to \$74,999	678	22.0%	23,541	20.7%
\$75,000 to \$99,999	480	15.6%	17,785	15.6%
\$100,000 to \$149,999	722	23.4%	20,117	17.7%
\$150,000 to \$199,999	220	7.1%	6,202	5.4%
\$200,000 or more	88	2.9%	5,057	4.4%
Median family income (dollars)	73,036	(X)	65,929	(X)
Mean family income (dollars)	87,701	(X)	81,377	(X)
Per capita income (dollars)	29,892	(X)	27,037	(X)
Nonfamily households	798	798	69,632	69,632
Median nonfamily income (dollars)	37,857	(X)	29,804	(X)
Mean nonfamily income (dollars)	43,365	(X)	39,649	(X)
Median earnings for workers (dollars)	31,960	(X)	29,672	(X)
Median earnings for male full-time, year-round workers (dollars)	51,179	(X)	49,060	(X)
Median earnings for female full-time, year-round workers (dollars)	42,317	(X)	36,509	(X)
% WHOSE INCOME IN THE PAST 12 MONTHS IS BELOW THE POVERTY LEVEL				
All families	(X)	5.3%	(X)	9.6%
With related children under 18 years	(X)	9.7%	(X)	15.8%
With related children under 5 years only	(X)	23.3%	(X)	20.8%
Married couple families	(X)	0.9%	(X)	3.6%
With related children under 18 years	(X)	1.3%	(X)	5.0%
With related children under 5 years only	(X)	0.0%	(X)	6.0%
Families with female householder, no husband present	(X)	21.3%	(X)	28.4%
With related children under 18 years	(X)	26.1%	(X)	37.4%
With related children under 5 years only	(X)	57.4%	(X)	52.9%
All people	(X)	6.5%	(X)	13.6%
Under 18 years	(X)	10.9%	(X)	19.2%
Related children under 18 years	(X)	10.9%	(X)	18.8%
Related children under 5 years	(X)	23.6%	(X)	25.1%
Related children 5 to 17 years	(X)	8.5%	(X)	16.7%
18 years and over	(X)	5.1%	(X)	11.9%
18 to 64 years	(X)	5.8%	(X)	12.8%
65 years and over	(X)	2.0%	(X)	7.7%
People in families	(X)	5.6%	(X)	10.6%
Unrelated individuals 15 years and over	(X)	13.6%	(X)	24.6%

Housing 5-year Estimates: 2006-2010

Source: U.S. Census Bureau, 2006-2010 American Community Survey

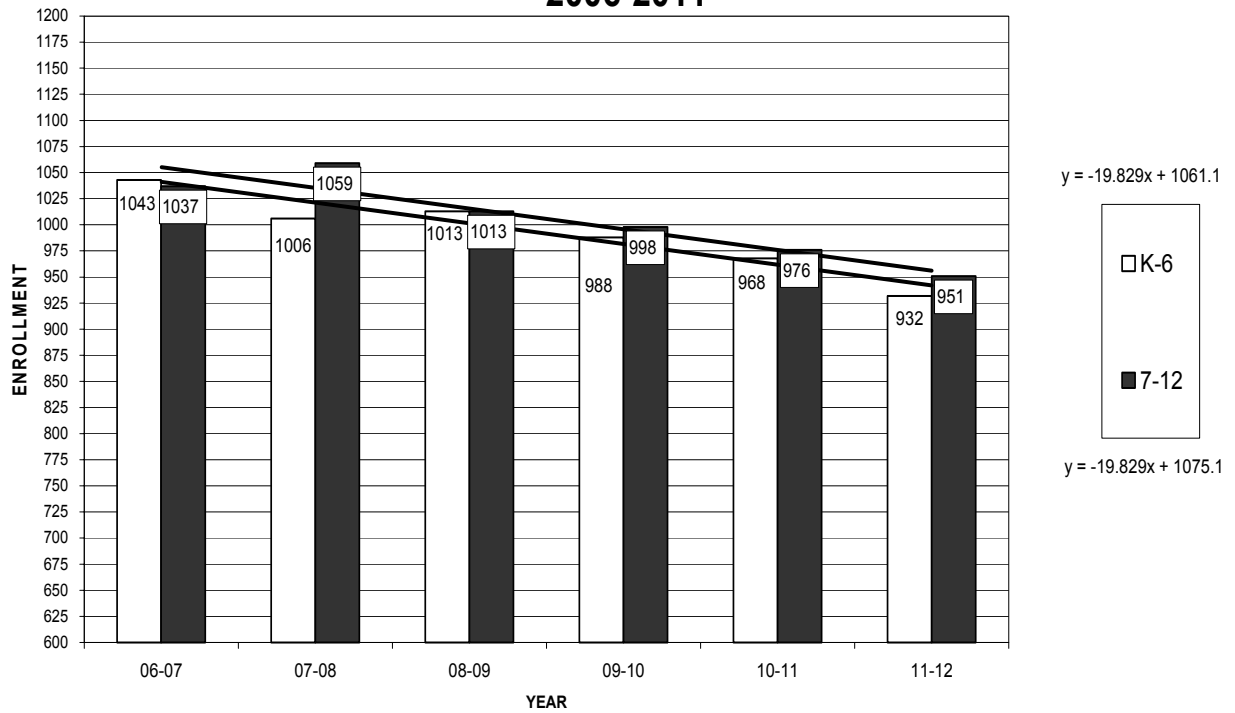
HOUSING CHARACTERISTICS	Marcellus School District		Onondaga County	
	Estimate	Percent	Estimate	Percent
HOUSING OCCUPANCY				
Total housing units	4,304	4,304	201,871	201,871
Occupied housing units	3,884	90.2%	183,542	90.9%
Vacant housing units	420	9.8%	18,329	9.1%
Homeowner vacancy rate	0.8	(X)	1.5	(X)
Rental vacancy rate	0.0	(X)	8.2	(X)
UNITS IN STRUCTURE				
Total housing units	4,304	4,304	201,871	201,871
1-unit, detached	3,751	87.2%	124,987	61.9%
1-unit, attached	41	1.0%	7,296	3.6%
2 units	149	3.5%	18,844	9.3%
3 or 4 units	41	1.0%	11,332	5.6%
5 to 9 units	102	2.4%	12,498	6.2%
10 to 19 units	47	1.1%	9,750	4.8%
20 or more units	93	2.2%	14,556	7.2%
Mobile home	80	1.9%	2,539	1.3%
Boat, RV, van, etc.	0	0.0%	69	0.0%
YEAR STRUCTURE BUILT				
Total housing units	4,304	4,304	201,871	201,871
Built 2005 or later	96	2.2%	3,315	1.6%
Built 2000 to 2004	121	2.8%	7,366	3.6%
Built 1990 to 1999	317	7.4%	14,211	7.0%
Built 1980 to 1989	519	12.1%	21,277	10.5%
Built 1970 to 1979	673	15.6%	27,352	13.5%
Built 1960 to 1969	588	13.7%	25,518	12.6%
Built 1950 to 1959	597	13.9%	34,698	17.2%
Built 1940 to 1949	196	4.6%	14,066	7.0%
Built 1939 or earlier	1,197	27.8%	54,068	26.8%
ROOMS				
Total housing units	4,304	4,304	201,871	201,871
1 room	27	0.6%	2,594	1.3%
2 rooms	44	1.0%	3,748	1.9%
3 rooms	162	3.8%	18,067	8.9%
4 rooms	381	8.9%	26,485	13.1%
5 rooms	520	12.1%	33,635	16.7%
6 rooms	767	17.8%	39,636	19.6%
7 rooms	849	19.7%	30,717	15.2%
8 rooms	719	16.7%	23,250	11.5%
9 rooms or more	835	19.4%	23,739	11.8%
Median rooms	6.8	(X)	5.9	(X)
BEDROOMS				
Total housing units	4,304	4,304	201,871	201,871
No bedroom	27	0.6%	3,091	1.5%
1 bedroom	214	5.0%	25,049	12.4%
2 bedrooms	716	16.6%	48,091	23.8%
3 bedrooms	1,786	41.5%	78,907	39.1%
4 bedrooms	1,325	30.8%	39,169	19.4%

HOUSING CHARACTERISTICS	Marcellus School District		Onondaga County	
	Estimate	Percent	Estimate	Percent
5 or more bedrooms	236	5.5%	7,564	3.7%
HOUSING TENURE				
Occupied housing units	3,884	3,884	183,542	183,542
Owner-occupied	3,297	84.9%	121,046	66.0%
Renter-occupied	587	15.1%	62,496	34.0%
Average household size of owner-occupied unit	2.81	(X)	2.62	(X)
Average household size of renter-occupied unit	2.24	(X)	2.11	(X)
YEAR HOUSEHOLDER MOVED INTO UNIT				
Occupied housing units	3,884	3,884	183,542	183,542
Moved in 2005 or later	716	18.4%	59,897	32.6%
Moved in 2000 to 2004	669	17.2%	37,881	20.6%
Moved in 1990 to 1999	922	23.7%	35,609	19.4%
Moved in 1980 to 1989	729	18.8%	20,499	11.2%
Moved in 1970 to 1979	507	13.1%	13,619	7.4%
Moved in 1969 or earlier	341	8.8%	16,037	8.7%
VEHICLES AVAILABLE				
Occupied housing units	3,884	3,884	183,542	183,542
No vehicles available	113	2.9%	22,299	12.1%
1 vehicle available	1,036	26.7%	68,954	37.6%
2 vehicles available	1,902	49.0%	67,795	36.9%
3 or more vehicles available	833	21.4%	24,494	13.3%
HOUSE HEATING FUEL				
Occupied housing units	3,884	3,884	183,542	183,542
Utility gas	2,380	61.3%	138,592	75.5%
Bottled, tank, or LP gas	286	7.4%	4,799	2.6%
Electricity	266	6.8%	24,364	13.3%
Fuel oil, kerosene, etc.	704	18.1%	11,015	6.0%
Coal or coke	53	1.4%	671	0.4%
Wood	165	4.2%	2,416	1.3%
Solar energy	0	0.0%	40	0.0%
Other fuel	30	0.8%	1,097	0.6%
No fuel used	0	0.0%	548	0.3%
SELECTED CHARACTERISTICS				
Occupied housing units	3,884	3,884	183,542	183,542
Lacking complete plumbing facilities	21	0.5%	563	0.3%
Lacking complete kitchen facilities	15	0.4%	1,142	0.6%
No telephone service available	19	0.5%	10,333	5.6%
VALUE				
Owner-occupied units	3,297	3,297	121,046	121,046
Less than \$50,000	90	2.7%	6,523	5.4%
\$50,000 to \$99,999	428	13.0%	35,630	29.4%
\$100,000 to \$149,999	952	28.9%	32,818	27.1%
\$150,000 to \$199,999	818	24.8%	21,350	17.6%
\$200,000 to \$299,999	617	18.7%	15,568	12.9%
\$300,000 to \$499,999	327	9.9%	6,408	5.3%
\$500,000 to \$999,999	58	1.8%	2,247	1.9%
\$1,000,000 or more	7	0.2%	502	0.4%
Median (dollars)	158,300	(X)	124,400	(X)
MORTGAGE STATUS				
Owner-occupied units	3,297	3,297	121,046	121,046
Housing units with a mortgage	2,116	64.2%	81,343	67.2%
Housing units without a mortgage	1,181	35.8%	39,703	32.8%
GROSS RENT				
Occupied units paying rent	550	550	60,518	60,518
Less than \$200	15	2.7%	1,343	2.2%
\$200 to \$299	9	1.6%	2,448	4.0%
\$300 to \$499	43	7.8%	7,872	13.0%
\$500 to \$749	230	41.8%	22,982	38.0%
\$750 to \$999	135	24.5%	16,590	27.4%
\$1,000 to \$1,499	118	21.5%	7,566	12.5%
\$1,500 or more	0	0.0%	1,717	2.8%
Median (dollars)	685	(X)	708	(X)
No rent paid	37	(X)	1,978	(X)

APPENDIX:

FIGURES, TABLES, AND CHARTS

CHART TWO: MARCELLUS CSD HISTORICAL K-6, 7-12 ENROLLMENT 2006-2011



**TABLE 7-A: LOW RANGE BASELINE COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
MARCELLUS CENTRAL 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		
06-07	112		159		140		154		163		138		177		163		182		181		177		178		156	2080		
07-08	120	1.31	147	0.87	139	1.01	142	1.00	154	1.04	169	0.98	135	1.03	183	0.96	156	1.03	188	1.01	182	1.00	177	0.97	173	2065		
08-09	116	1.32	158	0.84	123	1.04	144	1.05	149	1.03	149	1.03	153	1.03	170	1.01	137	0.96	176	1.04	163	1.01	189	0.98	179	0.95	169	2026
09-10	105	1.37	159	0.86	136	1.05	129	1.03	149	1.03	153	1.03	157	1.02	174	0.99	135	1.02	179	0.99	162	0.97	183	0.92	165	1986		
10-11	117	1.38	145	0.76	121	1.04	141	1.02	131	1.03	153	1.05	160	1.04	164	0.97	169	0.97	131	0.99	178	0.99	160	0.95	174	1944		
11-12	119	1.15	134	0.88	127	1.03	125	0.98	138	1.03	135	1.01	154	1.02	163	0.99	162	0.98	166	1.00	131	0.98	174	0.97	155	1883		

Average Ratio	1.305	0.842	1.034	1.016	1.023	1.013	1.027	0.973	1.010	1.000	0.983	0.954
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12-13	111	155	113	131	127	141	137	158	159	164	166	129	166	1856
13-14	92	145	131	117	133	130	143	140	154	160	164	163	123	1794
14-15	98	120	122	135	118	136	131	147	137	155	160	161	156	1777
15-16	92	128	101	126	137	121	138	135	143	138	155	157	153	1725
16-17	86	120	108	104	128	140	123	142	131	144	138	153	150	1667
17-18	82	112	101	111	106	131	142	126	138	133	144	136	146	1608
18-19	78	107	94	104	113	109	133	146	123	139	133	142	129	1550
19-20	74	102	90	98	106	116	110	136	142	124	139	130	135	1502
20-21	71	97	86	93	99	109	117	113	132	143	124	137	124	1445
21-22	68	93	81	89	95	101	110	120	110	134	143	122	131	1396

**TABLE 7-B: MID RANGE BASELINE COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
CAMDEN CENTRAL 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
06-07	112	159	140	154	163	138	177	163	182	181	177	178	156	2080
07-08	120	1.31 147	0.87 139	1.01 142	1.00 154	1.04 169	0.98 135	1.03 183	0.96 156	1.03 188	1.01 182	1.00 177	0.97 173	2065
08-09	116	1.32 158	0.84 123	1.04 144	1.05 149	0.99 153	1.01 170	1.01 137	0.96 176	1.04 163	1.01 189	0.98 179	0.95 169	2026
09-10	105	1.37 159	0.86 136	1.05 129	1.03 149	1.03 153	1.03 157	1.02 174	0.99 135	1.02 179	0.99 162	0.97 183	0.92 165	1986
10-11	117	1.38 145	0.76 121	1.04 141	1.02 131	1.03 153	1.05 160	1.04 164	0.97 169	0.97 131	0.99 178	0.99 160	0.95 174	1944
11-12	119	1.15 134	0.88 127	1.03 125	0.98 138	1.03 135	1.01 154	1.02 163	0.99 162	0.98 166	1.00 131	0.98 174	0.97 155	1883

Average Ratio	1.305	0.842	1.034	1.016	1.023	1.013	1.027	0.973	1.010	1.000	0.983	0.954
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12-13	116	155	113	131	127	141	137	158	159	164	166	129	166	1861
13-14	117	151	131	117	133	130	143	140	154	160	164	163	123	1826
14-15	117	153	127	135	118	136	131	147	137	155	160	161	156	1834
15-16	118	153	129	132	137	121	138	135	143	138	155	157	153	1809
16-17	118	154	129	133	134	140	123	142	131	144	138	153	150	1788
17-18	118	154	130	133	135	137	142	126	138	133	144	136	146	1770
18-19	119	154	130	134	135	138	139	146	123	139	133	142	129	1760
19-20	119	155	130	134	136	138	140	142	142	124	139	130	135	1765
20-21	120	155	131	134	136	139	140	144	138	143	124	137	124	1766
21-22	120	157	131	135	136	139	141	144	140	140	143	122	131	1777

**TABLE 7-C: HIGH RANGE BASELINE COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
MARCELLUS CENTRAL 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
06-07	112	159	140	154	163	138	177	163	182	181	177	178	156	2080
07-08	120	1.31 147	0.87 139	1.01 142	1.00 154	1.04 169	0.98 135	1.03 183	0.96 156	1.03 188	1.01 182	1.00 177	0.97 173	2065
08-09	116	1.32 158	0.84 123	1.04 144	1.05 149	0.99 153	1.01 170	1.01 137	0.96 176	1.04 163	1.01 189	0.98 179	0.95 169	2026
09-10	105	1.37 159	0.86 136	1.05 129	1.03 149	1.03 153	1.03 157	1.02 174	0.99 135	1.02 179	0.99 162	0.97 183	0.92 165	1986
10-11	117	1.38 145	0.76 121	1.04 141	1.02 131	1.03 153	1.05 160	1.04 164	0.97 169	0.97 131	0.99 178	0.99 160	0.95 174	1944
11-12	119	1.15 134	0.88 127	1.03 125	0.98 138	1.03 135	1.01 154	1.02 163	0.99 162	0.98 166	1.00 131	0.98 174	0.97 155	1883

Average Ratio	1.305	0.842	1.034	1.016	1.023	1.013	1.027	0.973	1.010	1.000	0.983	0.954
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12-13	138	155	113	131	127	141	137	158	159	164	166	129	166	1883
13-14	120	180	131	117	133	130	143	140	154	160	164	163	123	1857
14-15	136	157	152	135	118	136	131	147	137	155	160	161	156	1881
15-16	134	178	132	157	137	121	138	135	143	138	155	157	153	1878
16-17	132	175	149	136	159	140	123	142	131	144	138	153	150	1873
17-18	132	172	147	154	138	163	142	126	138	133	144	136	146	1871
18-19	131	172	145	152	157	142	165	146	123	139	133	142	129	1875
19-20	131	171	145	150	155	160	143	169	142	124	139	130	135	1895
20-21	130	171	144	150	152	158	162	147	165	143	124	137	124	1908
21-22	134	170	144	149	152	156	160	167	143	166	143	122	131	1936

**TABLE 8-A: COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
AND ESTIMATED INFLUENCE OF ACADEMIC INTERVENTION EFFORTS
LOW RANGE**

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
06-07	112	159	140	154	163	138	177	163	182	181	177	178	156	2080
07-08	120	1.31 147	0.87 139	1.01 142	1.00 154	1.04 169	0.98 135	1.03 183	0.96 156	1.03 188	1.01 182	1.00 177	0.97 173	2065
08-09	116	1.32 158	0.84 123	1.04 144	1.05 149	0.99 153	1.01 170	1.01 137	0.96 176	1.04 163	1.01 189	0.98 179	0.95 169	2026
09-10	105	1.37 159	0.86 136	1.05 129	1.03 149	1.03 153	1.03 157	1.02 174	0.99 135	1.02 179	0.99 162	0.97 183	0.92 165	1986
10-11	117	1.38 145	0.76 121	1.04 141	1.02 131	1.03 153	1.05 160	1.04 164	0.97 169	0.97 131	0.99 178	0.99 160	0.95 174	1944
11-12	119	1.15 134	0.88 127	1.03 125	0.98 138	1.03 135	1.01 154	1.02 163	0.99 162	0.98 166	1.00 131	0.98 174	0.97 155	1883

Average Ratio	1.305	0.842	1.034	1.016	1.023	1.013	1.027	0.973	1.010	1.000	0.983	0.954
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12-13	111	155	113	131	127	141	137	158	159	164	166	129	0.958	167	1857
13-14	92	145	131	117	133	130	143	140	154	160	164	163	0.963	124	1795
14-15	98	120	122	135	118	136	131	147	137	155	160	161	0.967	158	1779
15-16	92	128	101	126	137	121	138	135	143	138	155	157	0.972	156	1728
16-17	86	120	108	104	128	140	123	142	131	144	138	153	0.977	154	1671
17-18	82	112	101	111	106	131	142	126	138	133	144	136	0.981	150	1612
18-19	78	107	94	104	113	109	133	146	123	139	133	142	0.986	134	1554
19-20	74	102	90	98	106	116	110	136	142	124	139	140	0.990	140	1507
20-21	71	97	86	93	99	109	117	113	132	143	124	137	0.995	130	1450
21-22	68	93	81	89	95	101	110	120	110	134	143	122	1.000	137	1402

**TABLE 8-B: COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
AND ESTIMATED INFLUENCE OF ACADEMIC INTERVENTION EFFORTS
MID RANGE**

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
06-07	112	159	140	154	163	138	177	163	182	181	177	178	156	2080
07-08	120	1.31 147	0.87 139	1.01 142	1.00 154	1.04 169	0.98 135	1.03 183	0.96 156	1.03 188	1.01 182	1.00 177	0.97 173	2065
08-09	116	1.32 158	0.84 123	1.04 144	1.05 149	0.99 153	1.01 170	1.01 137	0.96 176	1.04 163	1.01 189	0.98 179	0.95 169	2026
09-10	105	1.37 159	0.86 136	1.05 129	1.03 149	1.03 153	1.03 157	1.02 174	0.99 135	1.02 179	0.99 162	0.97 183	0.92 165	1986
10-11	117	1.38 145	0.76 121	1.04 141	1.02 131	1.03 153	1.05 160	1.04 164	0.97 169	0.97 131	0.99 178	0.99 160	0.95 174	1944
11-12	119	1.15 134	0.88 127	1.03 125	0.98 138	1.03 135	1.01 154	1.02 163	0.99 162	0.98 166	1.00 131	0.98 174	0.97 155	1883

Average Ratio	1.305	0.842	1.034	1.016	1.023	1.013	1.027	0.973	1.010	1.000	0.983	0.954
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12-13	116	155	113	131	127	141	137	158	159	164	166	129	0.958	167	1862
13-14	117	151	131	117	133	130	143	140	154	160	164	163	0.963	124	1827
14-15	117	153	127	135	118	136	131	147	137	155	160	161	0.967	158	1836
15-16	118	153	129	132	137	121	138	135	143	138	155	157	0.972	156	1812
16-17	118	154	129	133	134	140	123	142	131	144	138	153	0.977	154	1792
17-18	118	154	130	133	135	137	142	126	138	133	144	136	0.981	150	1775
18-19	119	154	130	134	135	138	139	146	123	139	133	142	0.986	134	1764
19-20	119	155	130	134	136	138	140	142	142	124	139	130	0.990	140	1770
20-21	120	155	131	134	136	139	140	144	138	143	124	137	0.995	130	1771
21-22	120	157	131	135	136	139	141	144	140	140	143	122	1.000	137	1784

**TABLE 8-C: COHORT SURVIVAL STATISTIC ENROLLMENT PROJECTIONS GRADES K-12
AND ESTIMATED INFLUENCE OF ACADEMIC INTERVENTION EFFORTS
HIGH RANGE**

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
06-07	112	159	140	154	163	138	177	163	182	181	177	178	156	2080
07-08	120	1.31 147	0.87 139	1.01 142	1.00 154	1.04 169	0.98 135	1.03 183	0.96 156	1.03 188	1.01 182	1.00 177	0.97 173	2065
08-09	116	1.32 158	0.84 123	1.04 144	1.05 149	0.99 153	1.01 170	1.01 137	0.96 176	1.04 163	1.01 189	0.98 179	0.95 169	2026
09-10	105	1.37 159	0.86 136	1.05 129	1.03 149	1.03 153	1.03 157	1.02 174	0.99 135	1.02 179	0.99 162	0.97 183	0.92 165	1986
10-11	117	1.38 145	0.76 121	1.04 141	1.02 131	1.03 153	1.05 160	1.04 164	0.97 169	0.97 131	0.99 178	0.99 160	0.95 174	1944
11-12	119	1.15 134	0.88 127	1.03 125	0.98 138	1.03 135	1.01 154	1.02 163	0.99 162	0.98 166	1.00 131	0.98 174	0.97 155	1883

Average Ratio	1.305	0.842	1.034	1.016	1.023	1.013	1.027	0.973	1.010	1.000	0.983	0.954
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12-13	138	155	113	131	127	141	137	158	159	164	166	129	0.958	167	1884
13-14	120	180	131	117	133	130	143	140	154	160	164	163	0.963	124	1859
14-15	136	157	152	135	118	136	131	147	137	155	160	161	0.967	158	1883
15-16	134	178	132	157	137	121	138	135	143	138	155	157	0.972	156	1881
16-17	132	175	149	136	159	140	123	142	131	144	138	153	0.977	154	1876
17-18	132	172	147	154	138	163	142	126	138	133	144	136	0.981	150	1875
18-19	131	172	145	152	157	142	165	146	123	139	133	142	0.986	134	1880
19-20	131	171	145	150	155	160	143	169	142	124	139	130	0.990	140	1900
20-21	130	171	144	150	152	158	162	147	165	143	124	137	0.995	130	1913
21-22	134	170	144	149	152	156	160	167	143	166	143	122	1.000	137	1943

BASE COHORT ENROLLMENT PROJECTIONS SUMMARY FOR MARCELLUS CENTRAL SCHOOL DISTRICT

YEAR	LOW RANGE PROJECTION			MID RANGE PROJECTION			HIGH RANGE PROJECTION		
	K-6	7-12	TOTAL K-12	K-6	7-12	TOTAL K-12	K-6	7-12	TOTAL K-12
2012	915	941	1856	920	941	1861	942	941	1883
2013	890	904	1794	922	904	1826	954	904	1857
2014	861	915	1777	919	915	1834	966	915	1881
2015	844	882	1725	928	882	1809	997	882	1878
2016	809	858	1667	930	858	1788	1015	858	1873
2017	786	822	1608	949	822	1770	1049	822	1871
2018	738	811	1550	948	811	1760	1064	811	1875
2019	695	807	1502	952	813	1765	1055	840	1895
2020	671	774	1445	955	810	1766	1068	840	1908
2021	637	759	1396	959	819	1777	1064	872	1936

YEAR	LOW RANGE PROJECTION				MID RANGE PROJECTION				HIGH RANGE PROJECTION			
	K-3	4-8	9-12	TOTAL K-12	K-3	4-8	9-12	TOTAL K-12	K-3	4-8	9-12	TOTAL K-12
2012	510	722	624	1856	515	722	624	1861	537	722	624	1883
2013	484	700	610	1794	516	700	610	1826	547	700	610	1857
2014	475	670	632	1777	532	670	632	1834	579	670	632	1881
2015	447	674	604	1725	531	674	604	1809	600	674	604	1878
2016	418	664	585	1667	533	670	585	1788	593	695	585	1873
2017	407	643	558	1608	535	678	558	1770	606	707	558	1871
2018	384	623	543	1550	537	680	543	1760	600	732	543	1875
2019	364	610	528	1502	538	698	528	1765	597	770	528	1895
2020	346	570	528	1445	540	697	528	1766	595	785	528	1908
2021	331	536	529	1396	543	700	535	1777	596	778	562	1936

YEAR	LOW RANGE PROJECTION				MID RANGE PROJECTION				HIGH RANGE PROJECTION			
	4-6	K-4	7-8	5-6	4-6	K-4	7-8	5-6	4-6	K-4	7-8	5-6
2012	350	637	317	278	405	642	317	278	405	664	317	278
2013	346	618	294	273	406	649	294	273	406	681	294	273
2014	362	594	283	268	386	651	283	268	386	698	283	268
2015	365	584	278	259	397	668	278	259	397	737	278	259
2016	320	546	273	263	397	667	273	263	422	752	273	263
2017	298	513	264	273	414	669	264	279	443	744	264	305
2018	298	497	269	241	412	672	269	277	463	757	269	306
2019	288	470	278	226	414	674	278	278	458	751	311	304
2020	280	446	245	226	415	676	245	279	473	747	312	321
2021	271	425	230	211	416	679	230	280	468	749	310	316

SUMMARY: ESTIMATED COHORT ENROLLMENT PROJECTIONS INFLUENCED BY AIS

YEAR	LOW RANGE PROJECTION			MID RANGE PROJECTION			HIGH RANGE PROJECTION		
	K-6	7-12	TOTAL K-12	K-6	7-12	TOTAL K-12	K-6	7-12	TOTAL K-12
2012	915	942	1857	920	942	1862	942	942	1884
2013	890	905	1795	922	905	1827	954	905	1859
2014	861	917	1779	919	917	1836	966	917	1883
2015	844	885	1728	928	885	1812	997	885	1881
2016	809	862	1671	930	862	1792	1015	862	1876
2017	786	826	1612	949	826	1775	1049	826	1875
2018	738	816	1554	948	816	1764	1064	816	1880
2019	695	812	1507	952	818	1770	1055	845	1900
2020	671	779	1450	955	816	1771	1068	846	1913
2021	637	766	1402	959	825	1784	1064	878	1943

YEAR	LOW RANGE PROJECTION				MID RANGE PROJECTION				HIGH RANGE PROJECTION			
	K-3	4-8	9-12	TOTAL K-12	K-3	4-8	9-12	TOTAL K-12	K-3	4-8	9-12	TOTAL K-12
2012	510	722	625	1857	515	722	625	1862	537	722	625	1884
2013	484	700	611	1795	516	700	611	1827	547	700	611	1859
2014	475	670	634	1779	532	670	634	1836	579	670	634	1883
2015	447	674	607	1728	531	674	607	1812	600	674	607	1881
2016	418	664	588	1671	533	670	588	1792	593	695	588	1876
2017	407	643	562	1612	535	678	562	1775	606	707	562	1875
2018	384	623	547	1554	537	680	547	1764	600	732	547	1880
2019	364	610	534	1507	538	698	534	1770	597	770	534	1900
2020	346	570	534	1450	540	697	534	1771	595	785	534	1913
2021	331	536	536	1402	543	700	542	1784	596	778	568	1943

YEAR	LOW RANGE PROJECTION				MID RANGE PROJECTION				HIGH RANGE PROJECTION			
	4-6	K-4	7-8	5-6	4-6	K-4	7-8	5-6	4-6	K-4	7-8	5-6
2012	405	637	317	278	405	642	317	278	405	664	317	278
2013	406	618	294	273	406	649	294	273	406	681	294	273
2014	386	594	283	268	386	651	283	268	386	698	283	268
2015	397	584	278	259	397	668	278	259	397	737	278	259
2016	391	546	273	263	397	667	273	263	422	752	273	263
2017	379	513	264	273	414	669	264	279	443	744	264	305
2018	354	497	269	241	412	672	269	277	463	757	269	306
2019	332	470	278	226	414	674	284	278	458	751	311	304
2020	325	446	245	226	415	676	282	279	473	747	312	321
2021	306	425	230	211	416	679	283	280	468	749	310	316