



Washington  
West  
Supervisory  
Union

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To: All WWSU Administrators & Board members  
From: Michelle Baker, Business Manager  
Date: October 5, 2010  
RE: Enrollment History & Projections

With FY2012 budget season upon us, along with the new legislative requirements included in Act 146 and 153, I felt it important to put together historical data regarding enrollment in all WWSU schools, along with enrollment projections.

### **Historical Enrollment Data – October 1**

This enrollment data is based on actual number of students, excluding Pre-Kindergarten, in each school building as of October 1 each year

The student counts reflected in these projections are not weighted, averaged or prorated and, therefore, do not correspond to the equalized pupil count used in the Act 68 formula or the States ADM or FTE counts. In addition, all students attending the school, in Grade Kindergarten or above, are counted as one student in these projections. Tuition students are included in this data.

It was my thought that presenting the actual number of students in each building was the most useful way to be able to utilize the enrollment projections. It has been my experience that once you start averaging and prorating students based on Free/Reduced, ELL or other factors, the enrollment data becomes more complicated. *I will shortly be making an estimate of equalized pupils for budget purposes.* The DOE releases the final equalized pupil count on December 15.

Pre-Kindergarten enrollment data is included as a separate chart. Pre-Kindergarten programs are not comparable across schools in WWSU. In addition, Pre-K enrollment now includes those Pre-Kindergarten students attending private pre-school programs through the partnership.

### **Enrollment Projections**

Enrollment projections are shown for 5 years for each district as determined by two methods:

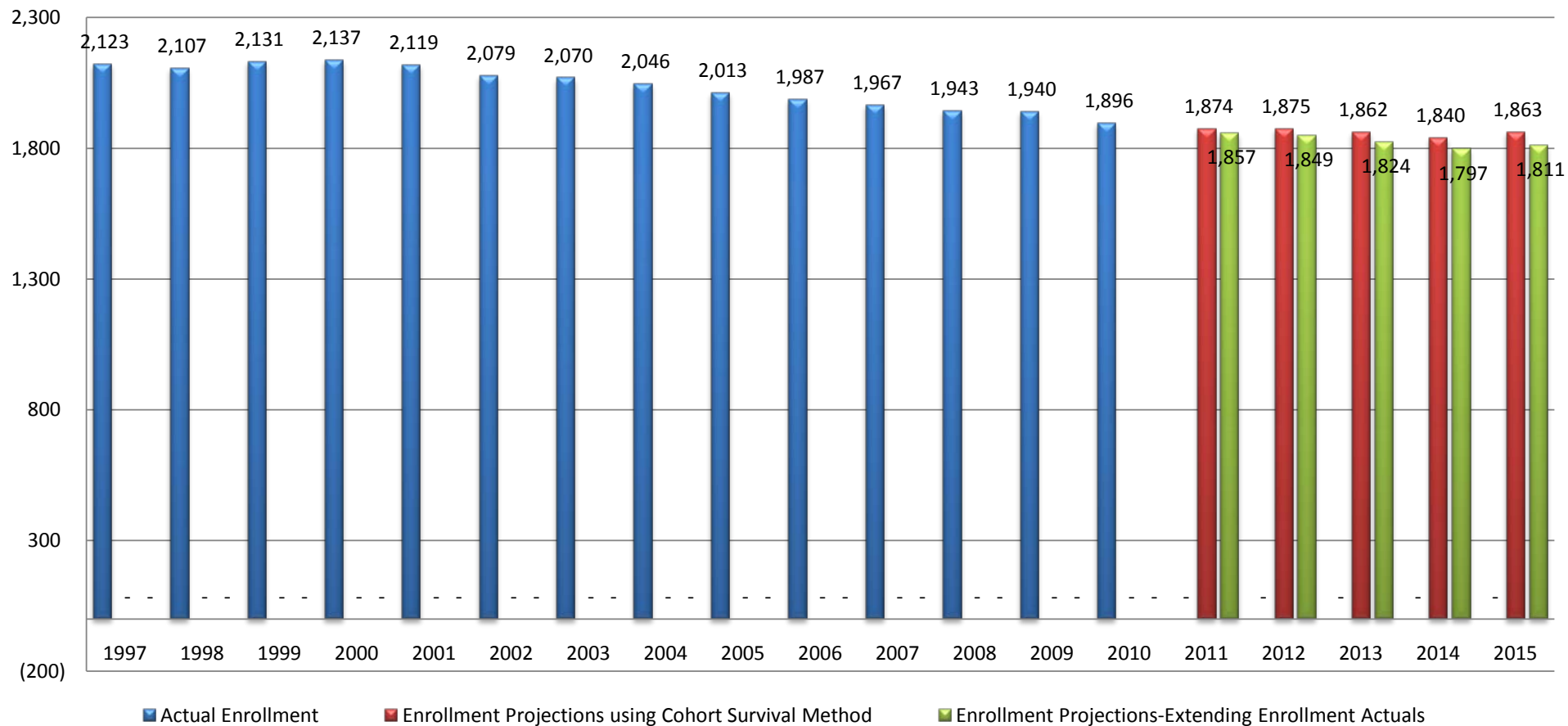
1. Simply projecting based on existing students at each school
2. Projections using the co-hort survival method

The co-hort survival method looks back five years at the trend for students in the same age group moving from one grade to the next. In districts where the co-hort survival is greater than 1.0, this reflects a migration of students into the district over time. In districts where this is the case, the co-hort survival enrollment projections are greater than simply extending the existing number of students at each school through the grades.

In districts where the cohort survival is less than 1.0, this reflects a migration of students out over time. In districts where this is the case, extending the existing number of students through the grades results in a larger enrollment projection than the co-hort survival method.

I am striving to produce enrollment information that is historically accurate and can be useful in future planning. Your input is important. Please let me know if there is any data that you feel is not accurate, if you feel there is further information that should be included, or if you have questions regarding these enrollment projections.

## Washington West Supervisory Union -All Schools Enrollment History & Projections Kindergarden - Grade 12



**Fayston Elementary School Historical Enrollment & Projections**

Year	Births	October 1 Enrollment	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Total-10/1 All Students
1992	10	1997	13	16	8	18	16	18	10	99
1993	12	1998	13	15	15	7	18	15	16	99
1994	5	1999	12	15	14	17	7	18	15	98
1995	11	2000	15	12	14	13	19	8	20	101
1996	8	2001	17	16	12	12	15	19	10	101
1997	11	2002	16	15	16	9	12	11	21	100
1998	9	2003	12	18	16	16	8	12	12	94
1999	6	2004	13	14	17	16	17	9	11	97
2000	17	2005	15	12	12	18	15	15	9	96
2001	11	2006	8	15	13	13	20	15	16	100
2002	6	2007	12	10	19	13	15	22	15	106
2003	9	2008	13	16	11	19	15	18	23	115
2004	9	2009	19	11	17	12	18	15	20	112
2005	13	2010	12	19	14	17	12	17	16	107
2006	12									
2007	6									
2008	8									
2009	8									

**5 Year Enrollment Projections Utilizing Cohort Survival Ratio**

2011	13	13	22	14	18	13	18	111
2012	13	14	15	23	16	19	13	113
2013	13	14	16	24	16	20	120	
2014	13	14	16	17	26	17	120	
2015	13	14	16	17	18	27	123	

**5 Year Enrollment Projections Utilizing Current Student Enrollment**

2011	13	12	19	14	17	12	17	104
2012	13	13	12	19	14	17	12	100
2013	13	13	13	12	19	14	17	101
2014	13	13	13	13	12	19	14	97
2015	13	13	13	13	13	12	19	96

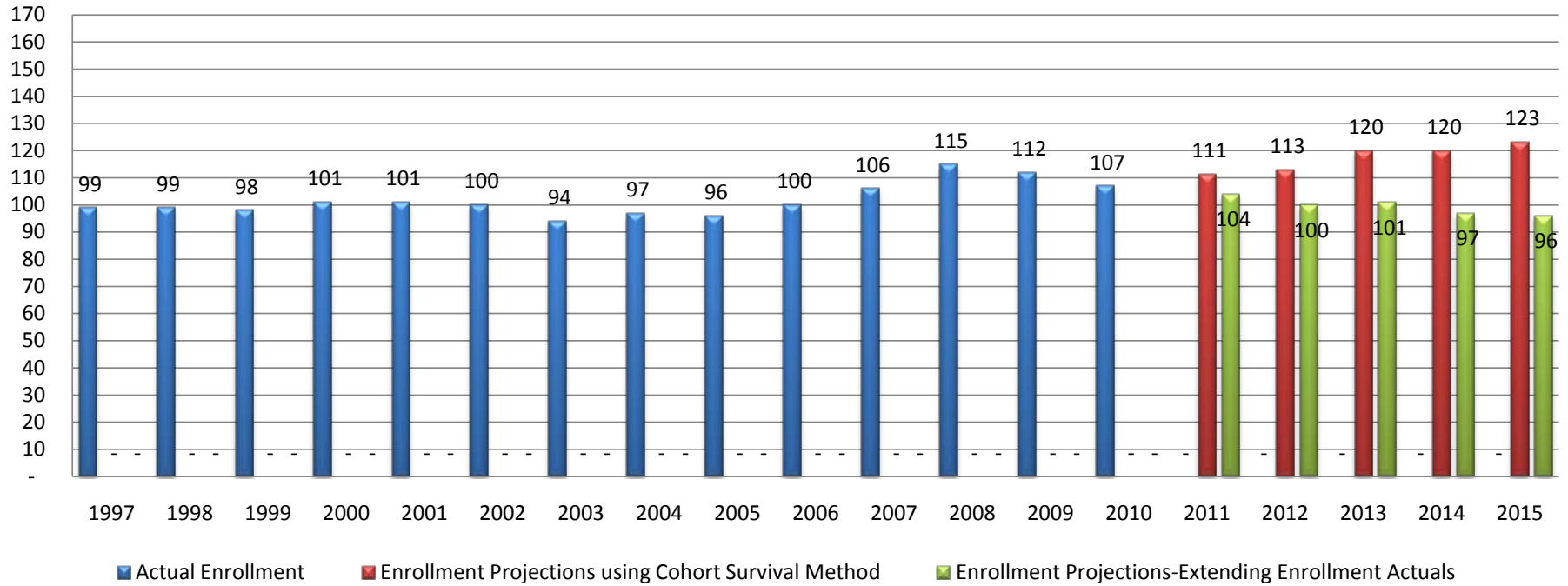
There is no correlation between the number of births in Fayston and the subsequent enrollment in Kindergarten. The average Kindergarten enrollment over the past 5 years is 13 and the average enrollment since 1997 is 14. Projections of a consistent K class of 13 over the next 5 years were used to make these projections.

**Cohort Survival Ration for last five years**

	2006	2007	2008	2009	2010	Avg
K/B	0.727	2.000	1.444	2.111	0.923	1.441
1/K	1.000	1.250	1.333	0.846	1.000	1.086
2/1	1.083	1.267	1.100	1.063	1.273	1.157
3/2	1.083	1.000	1.000	1.091	1.000	1.035
4/3	1.111	1.154	1.154	0.947	1.000	1.073
5/4	1.000	1.100	1.200	1.000	0.944	1.049
6/5	1.067	1.000	1.045	1.111	1.067	1.058

Cohort Survival Trend shows slight migration in

## Fayston Elementary School - Kindergarten thru Grade 6 Enrollment History & Projections



**Moretown Elementary School Historical Enrollment & Projections**

Year	Births	October 1 Enrollment	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Total-10/1 All Students
1992	17	1997	17	25	25	23	26	20	28	164
1993	19	1998	17	18	24	26	24	26	21	156
1994	15	1999	14	23	17	27	26	23	25	155
1995	24	2000	22	14	22	17	29	25	23	152
1996	17	2001	17	22	14	22	18	31	26	150
1997	13	2002	13	18	22	13	22	17	28	133
1998	16	2003	24	15	15	21	13	23	16	127
1999	16	2004	21	24	15	16	23	15	24	138
2000	14	2005	18	22	29	18	19	26	15	147
2001	17	2006	16	16	19	26	17	19	24	137
2002	16	2007	16	17	14	19	27	16	20	129
2003	14	2008	12	15	17	15	19	23	16	117
2004	12	2009	14	13	14	19	16	19	25	120
2005	17	2010	16	17	12	11	21	16	21	114
2006	10									
2007	14									
2008	14									
2009	13									

**5 Year Enrollment Projections Utilizing Cohort Survival Ratio**

2011	10	17	16	12	11	20	17	102
2012	14	10	15	15	12	11	21	98
2013	14	14	9	15	16	12	11	91
2014	13	14	13	9	15	15	12	92
2015	15	13	13	13	9	15	16	94

**5 Year Enrollment Projections Utilizing Current Student Enrollment**

2011	10	16	17	12	11	21	16	103
2012	14	10	16	17	12	11	21	101
2013	14	14	10	16	17	12	11	93
2014	13	14	14	10	16	17	12	95
2015	15	13	14	14	10	16	17	98

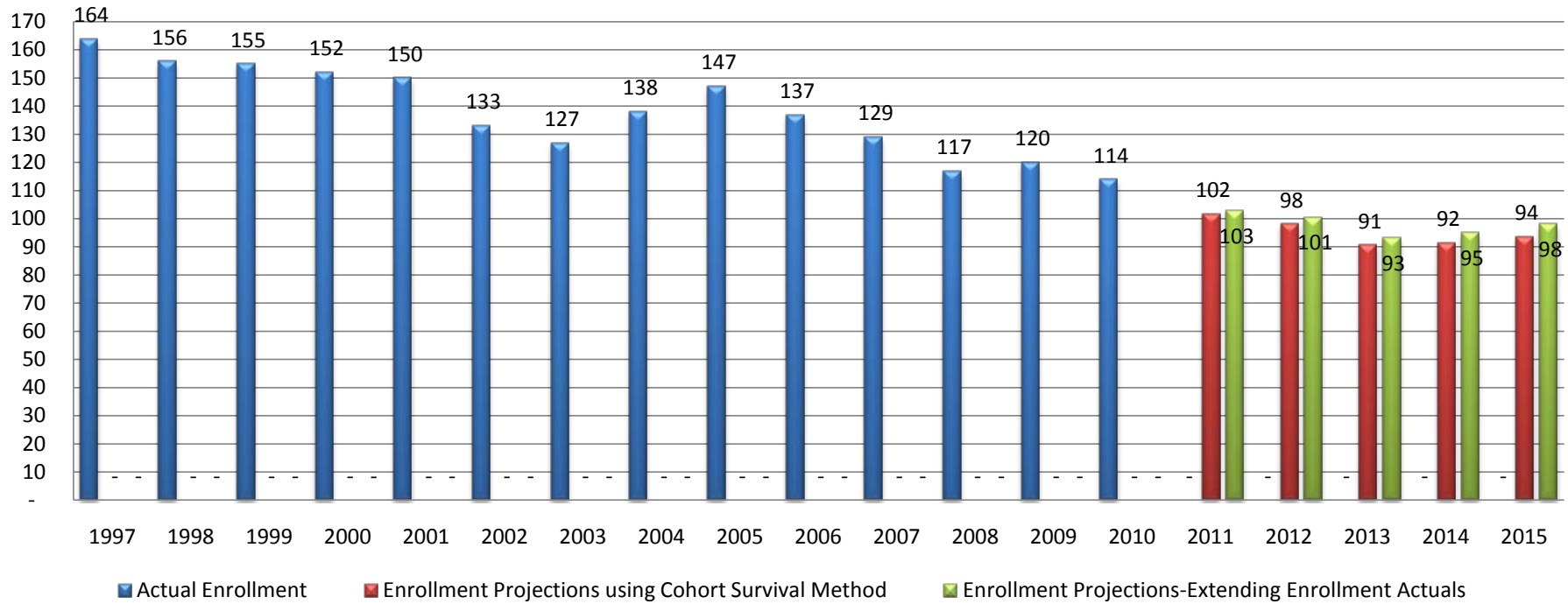
There is a relationship between births in Moretown and subsequent enrollment in Kindergarten. The average Kindergarten enrollment over the past 5 years is 15 and the average enrollment since 1997 is 17.

**Cohort Survival Ration for last five years**

	2006	2007	2008	2009	2010	Avg
K/B	0.941	1.000	0.857	1.167	0.941	0.981
1/K	0.889	1.063	0.938	1.083	1.214	1.037
2/1	0.864	0.875	1.000	0.933	0.923	0.919
3/2	0.897	1.000	1.071	1.118	0.786	0.974
4/3	0.944	1.038	1.000	1.067	1.105	1.031
5/4	1.000	0.941	0.852	1.000	1.000	0.959
6/5	0.923	1.053	1.000	1.087	1.105	1.034

Cohort Survival Trend shows slight migration out

## Moretown Elementary School - Kindergarten thru Grade 6 Enrollment History & Projections



**Waitsfield Elementary School Historical Enrollment & Projections**

Year	Births	October 1 Enrollment	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Total-10/1 All Students
1992	26	1997	22	23	22	29	26	20	23	165
1993	21	1998	19	19	17	19	26	21	16	137
1994	29	1999	23	27	19	16	22	26	23	156
1995	21	2000	19	21	25	17	17	23	24	146
1996	19	2001	21	20	21	24	18	17	23	144
1997	25	2002	15	24	23	20	22	21	18	143
1998	26	2003	20	15	22	25	20	24	22	148
1999	16	2004	14	20	17	20	23	20	25	139
2000	22	2005	27	15	22	19	24	24	19	150
2001	13	2006	15	29	15	24	19	23	24	149
2002	26	2007	22	15	27	14	20	18	22	138
2003	23	2008	22	23	14	27	14	21	18	139
2004	21	2009	19	27	25	14	28	17	24	154
2005	18	2010	15	18	25	25	12	28	15	138
2006	15									
2007	10									
2008	15									
2009	19									

**5 Year Enrollment Projections Utilizing Cohort Survival Ratio**

2011	14	16	18	25	24	12	28	137
2012	9	15	15	18	24	24	12	118
2013	14	10	15	16	17	25	24	120
2014	18	15	10	15	15	17	24	114
2015	19	19	15	10	14	15	17	108

**5 Year Enrollment Projections Utilizing Current Student Enrollment**

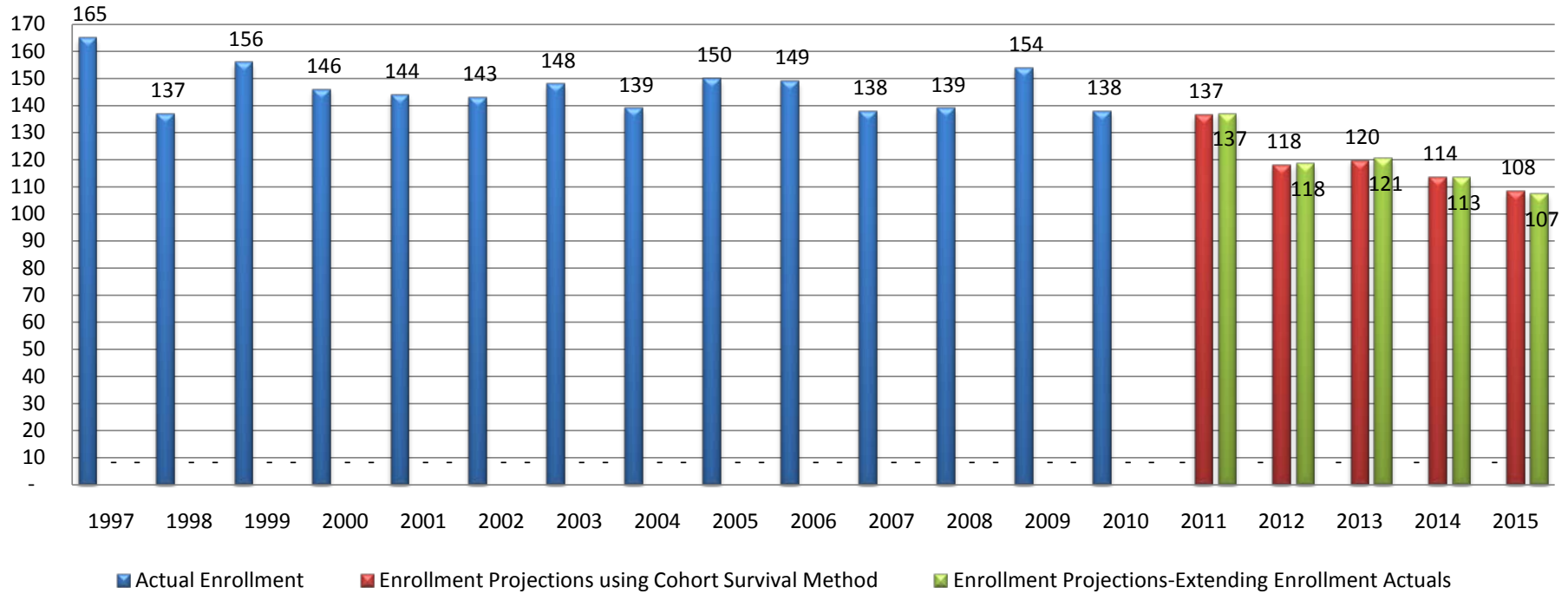
2011	14	15	18	25	25	12	28	137
2012	9	14	15	18	25	25	12	118
2013	14	9	14	15	18	25	25	121
2014	18	14	9	14	15	18	25	113
2015	19	18	14	9	14	15	18	107

There is some correlation between the number of births in Waitsfield and the subsequent enrollment in Kindergarten. The average Kindergarten enrollment over the past 5 years is 19 and the average enrollment since 1997 is 20.

**Cohort Survival Ration for last five years**

	2006	2007	2008	2009	2010	Avg	
K/B	1.154	0.846	0.957	0.905	0.833	0.939	"some correlation"
1/K	1.074	1.000	1.045	1.227	0.947	1.059	
2/1	1.000	0.931	0.933	1.087	0.926	0.975	
3/2	1.091	0.933	1.000	1.000	1.000	1.005	
4/3	1.000	0.833	1.000	1.037	0.857	0.946	
5/4	0.958	0.947	1.050	1.214	1.000	1.034	
6/5	1.000	0.957	1.000	1.143	0.882	0.996	

## Waitsfield Elementary School - Kindergarten thru Grade 6 Enrollment History & Projections



**Warren Elementary School Historical Enrollment & Projections**

Year	Births	October 1 Enrollment	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Total-10/1 All Students
1992	35	1997	19	24	27	18	31	22	27	168
1993	24	1998	27	23	24	25	19	30	27	175
1994	17	1999	23	27	24	26	29	17	29	175
1995	19	2000	20	24	23	25	26	31	20	169
1996	10	2001	15	21	23	22	21	25	32	159
1997	8	2002	15	19	23	26	20	29	25	157
1998	10	2003	11	14	21	22	26	20	27	141
1999	18	2004	23	11	12	19	22	25	20	132
2000	8	2005	12	20	12	12	21	20	26	123
2001	15	2006	15	13	21	11	12	21	21	114
2002	11	2007	22	13	20	25	11	13	24	128
2003	11	2008	19	23	13	18	24	10	14	121
2004	15	2009	23	22	27	17	20	28	11	148
2005	11	2010	17	21	23	29	16	22	26	154
2006	18									
2007	10									
2008	19									
2009	16									

**5 Year Enrollment Projections Utilizing Cohort Survival Ratio**

2011	29	17	24	25	29	17	23	165
2012	14	29	20	26	25	31	18	163
2013	17	14	34	22	26	26	32	172
2014	19	17	16	37	22	28	28	167
2015	19	19	20	18	37	23	29	165

**5 Year Enrollment Projections Utilizing Current Student Enrollment**

K Estimates Based on students district is aware of----->	2011	29	17	21	23	29	16	22	157
	2012	14	29	17	21	23	29	16	149
	2013	17	14	29	17	21	23	29	150
	2014	19	17	14	29	17	21	23	140
	2015	19	19	17	14	29	17	21	136

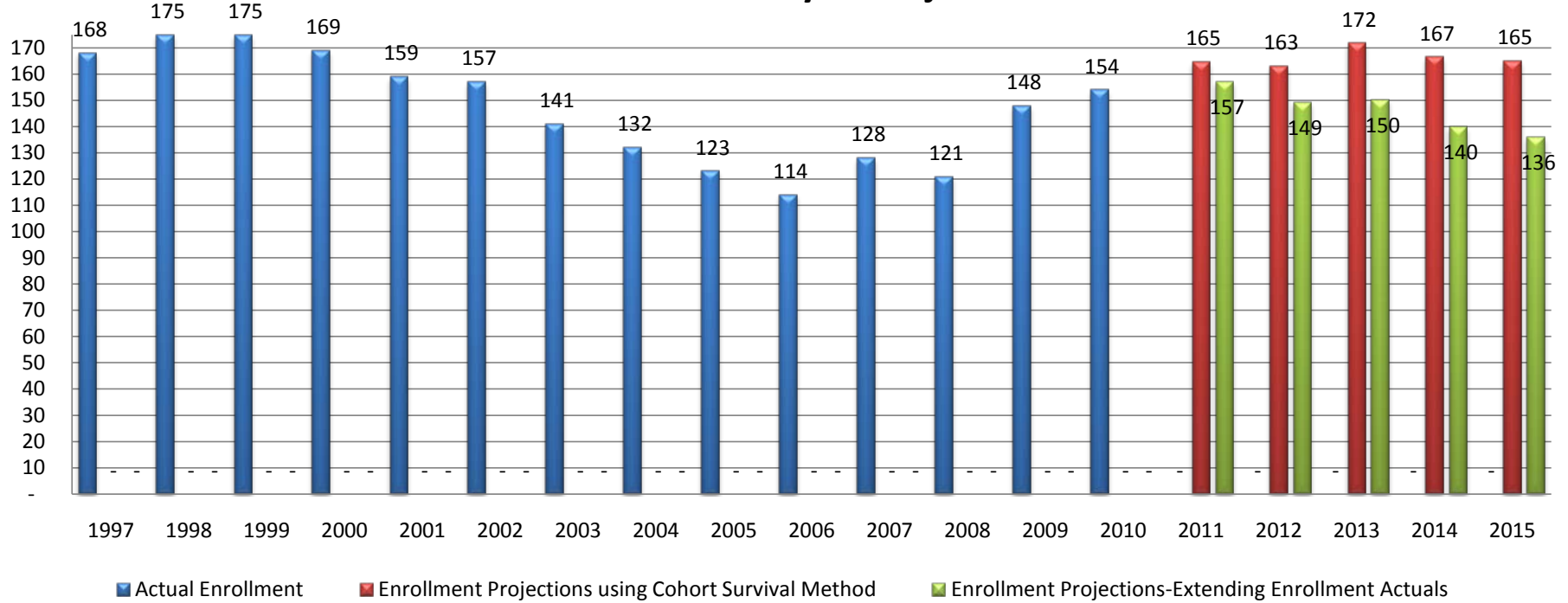
There is no correlation between the number of births in Warren and the subsequent enrollment in Kindergarten. The average Kindergarten enrollment over the past 5 years is 19 and the average enrollment since 1997 is 19.

**Cohort Survival Ration for last five years**

	2006	2007	2008	2009	2010	Avg
K/B	1.000	2.000	1.727	1.533	1.545	1.561
1/K	1.083	0.867	1.045	1.158	0.913	1.013
2/1	1.050	1.538	1.000	1.174	1.045	1.162
3/2	0.917	1.190	0.900	1.308	1.074	1.078
4/3	1.000	1.000	0.960	1.111	0.941	1.002
5/4	1.000	1.083	0.909	1.167	1.100	1.052
6/5	1.050	1.143	1.077	1.100	0.929	1.060

Cohort Survival Trend shows migration in

## Warren Elementary School - Kindergarten thru Grade 6 Enrollment History & Projections



**Waterbury-Duxbury Union School Historical Enrollment & Projections**

Year	Duxbury Births	Waterbury Births	Total Births	October 1 Enrollment	K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Total-10/1 All Students
1992			75	1997	95	81	95	93	92	100	74	70	103	803
1993			105	1998	87	96	81	86	93	90	98	77	62	770
1994			78	1999	73	92	98	76	84	98	89	93	81	784
1995			86	2000	75	74	91	94	79	85	99	87	92	776
1996			91	2001	78	80	78	90	89	79	86	93	93	766
1997			66	2002	63	75	77	80	88	93	85	90	91	742
1998			73	2003	66	59	77	79	80	87	90	79	89	706
1999			89	2004	72	70	61	76	74	77	80	91	77	678
2000			76	2005	64	78	69	56	74	67	81	76	86	651
2001			58	2006	62	71	82	74	58	80	72	88	82	669
2002	8	53	61	2007	63	69	65	75	74	58	81	73	83	641
2003	12	64	76	2008	78	65	69	65	73	72	56	83	71	632
2004	8	62	70	2009	67	69	65	72	70	73	72	57	81	626
2005	13	52	65	2010	75	69	64	62	74	71	74	74	54	617
2006	11	49	60											
2007	20	61	81											
2008	11	59	70											
2009	14	49	63											

**5 Year Enrollment Projections Utilizing Cohort Survival Ratio**

2011	63	78	68	64	63	75	72	77	73	631
2012	85	65	76	67	65	64	76	74	75	648
2013	73	88	64	76	69	66	65	79	73	652
2014	66	76	86	63	77	70	67	67	77	650
2015	69	68	74	86	65	78	71	69	66	647

**5 Year Enrollment Projections Utilizing Current Student Enrollment**

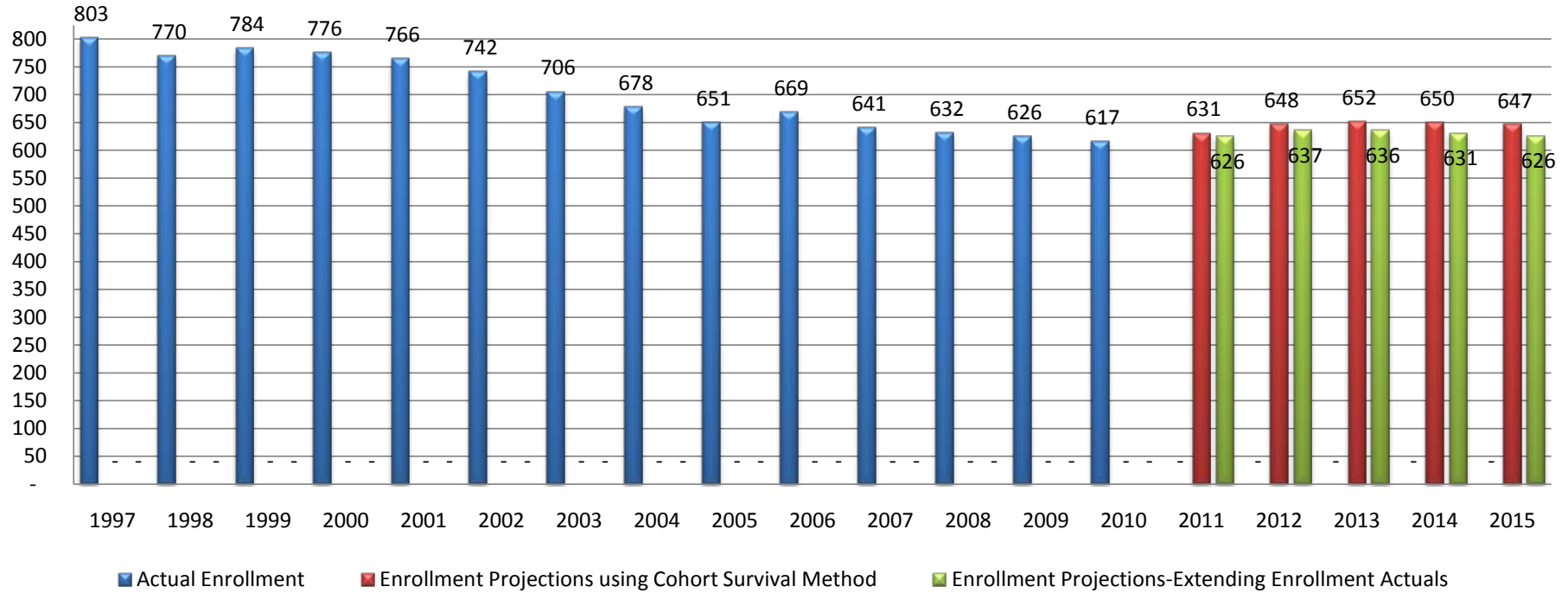
2011	63	75	69	64	62	74	71	74	74	626
2012	85	63	75	69	64	62	74	71	74	637
2013	73	85	63	75	69	64	62	74	71	636
2014	66	73	85	63	75	69	64	62	74	631
2015	69	66	73	85	63	75	69	64	62	626

There is a correlation between the number of births in Waterbury and Duxbury and the subsequent enrollment in Kindergarten. The average Kindergarten enrollment over the past 5 years is 69 and the average enrollment since 1997 is 73.

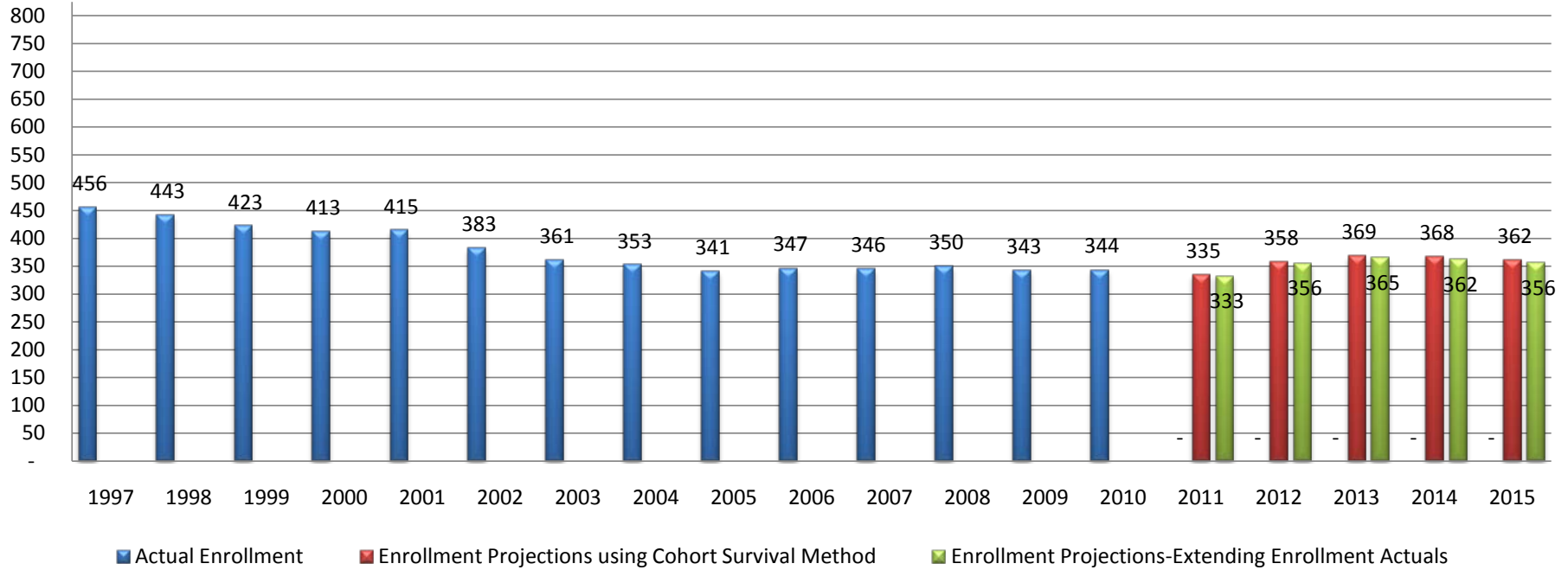
**Cohort Survival Ration for last five years**

	2006	2007	2008	2009	2010	Avg
K/B	1.069	1.033	1.026	0.957	1.154	1.048
1/K	1.109	1.113	1.032	0.885	1.030	1.034
2/1	1.051	0.915	1.000	1.000	0.928	0.979
3/2	1.072	0.915	1.000	1.043	0.954	0.997
4/3	1.036	1.000	0.973	1.077	1.028	1.023
5/4	1.081	1.000	0.973	1.000	1.014	1.014
6/5	1.075	1.013	0.966	1.000	1.014	1.013
7/6	1.086	1.014	1.025	1.018	1.028	1.034
8/7	1.079	0.943	0.973	0.976	0.947	0.984

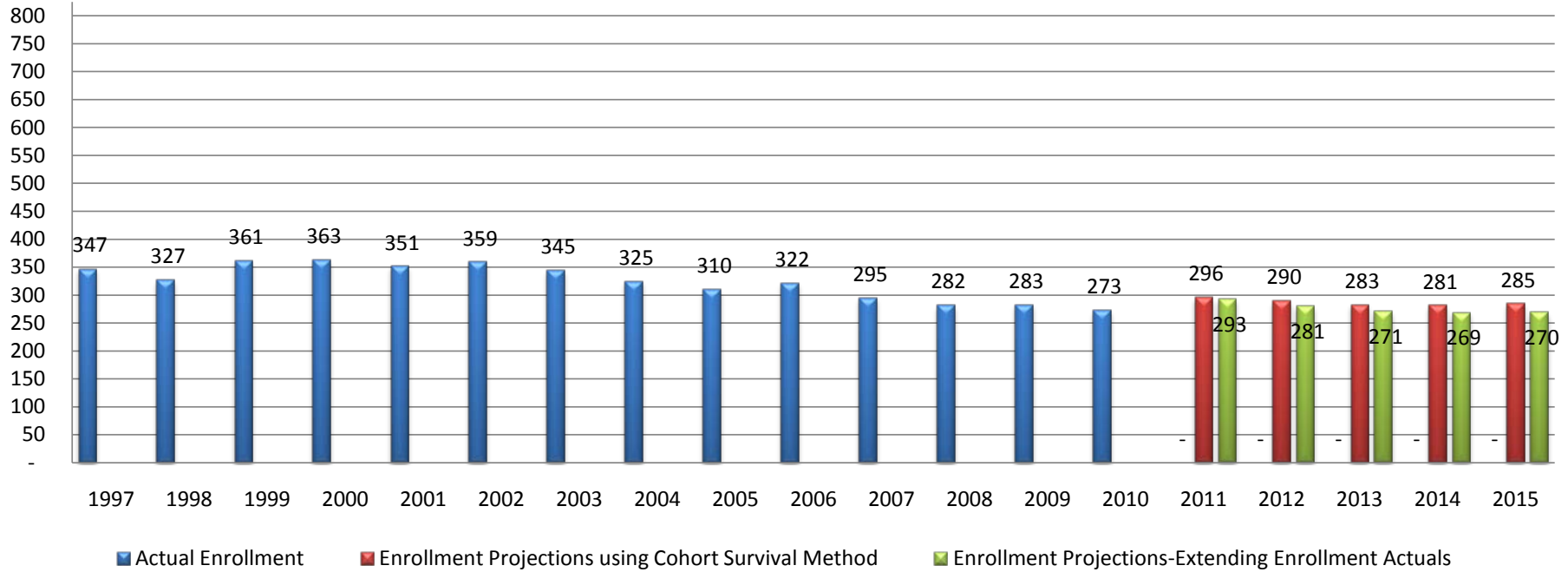
## Waterbury -Duxbury Union - Kindergarten thru Grade 8 Enrollment History & Projections



## Waterbury -Duxbury Union District- Kindergarten thru Grade 4 Thatcher Brook Primary School Enrollment History & Projections



## Waterbury -Duxbury Union District - Grade 5 thru Grade 8 Crossett Brook Middle School Enrollment History & Projections



**Harwood Union High School Historical Enrollment & Projections**

	Total 6th Grade from Waits, Warren, Fay, More	Total 8th Grade from HUHS & WD	October 1 Enrollment	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	Total-10/1 All Students
			1997	78	94	176	132	132	112	724
1997	88	197	1998	80	75	185	169	116	145	770
1998	80	137	1999	75	81	133	184	168	122	763
1999	92	162	2000	93	73	147	137	173	170	793
2000	87	165	2001	85	92	160	153	131	178	799
2001	91	185	2002	87	90	171	163	157	136	804
2002	92	181	2003	104	86	177	172	159	156	854
2003	77	175	2004	76	101	172	176	164	173	862
2004	80	178	2005	82	75	175	172	167	175	846
2005	69	161	2006	73	82	160	170	166	167	818
2006	85	164	2007	93	75	158	163	170	166	825
2007	81	158	2008	79	92	149	161	161	177	819
2008	71	163	2009	67	81	157	147	155	173	780
2009	80	162	2010	76	67	155	157	143	168	766
2010	78	121								
2011	83	150								
2012	61	152								
2013	82	154								
2014	74	135								

**5 Year Enrollment Projections Utilizing Cohort Survival Ratio**

2011	78	77	117	155	153	149	729
2012	83	79	145	117	151	160	735
2013	61	84	147	144	114	157	708
2014	82	62	148	146	141	118	699
2015	74	83	130	148	143	147	726

**5 Year Enrollment Projections Utilizing Current Student Enrollment**

2011	78	76	121	155	157	143	730
2012	83	78	150	121	155	157	745
2013	61	83	152	150	121	155	723
2014	82	61	154	152	150	121	721
2015	74	82	135	154	152	150	748

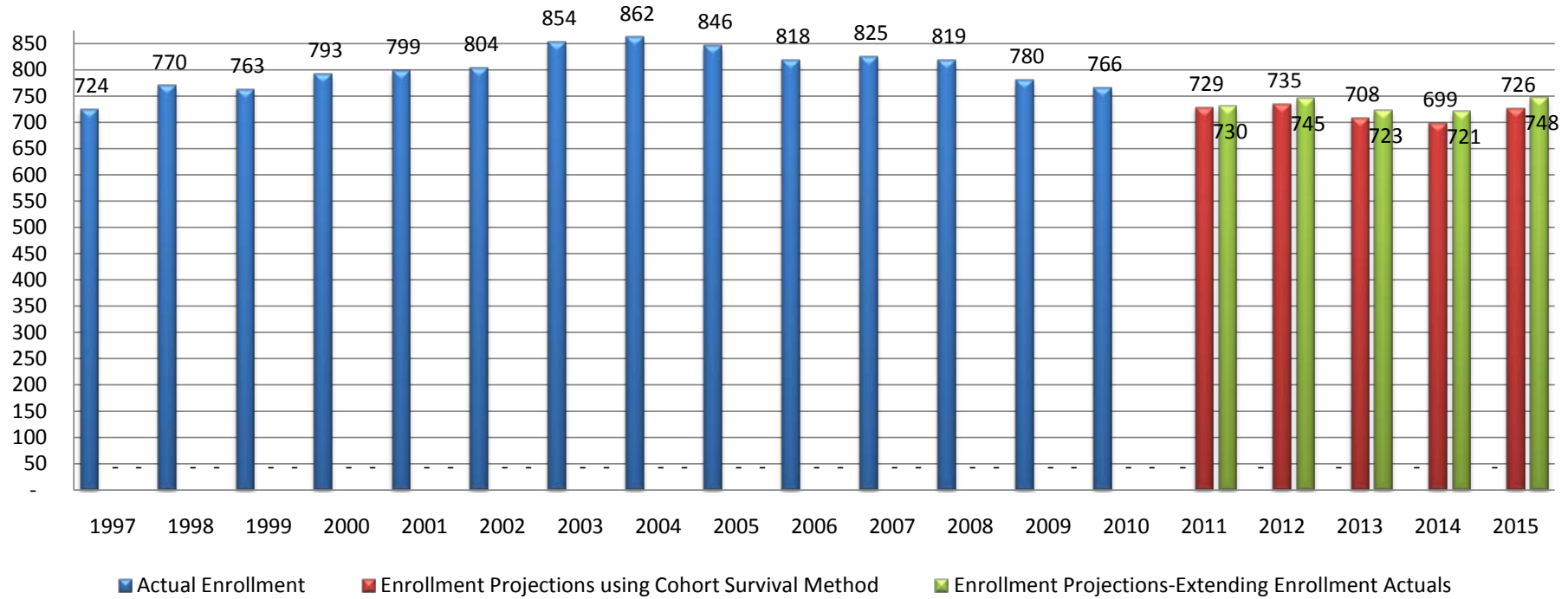
There is a 1:1 correlation when comparing the number of students exiting the valley schools to the number of students entering HU middle school. \*\*

There is a 1:.96 correlation when comparing the number of students exiting HUMS and CBMS to those entering HUHS.\*\*\* The total students do include tuition

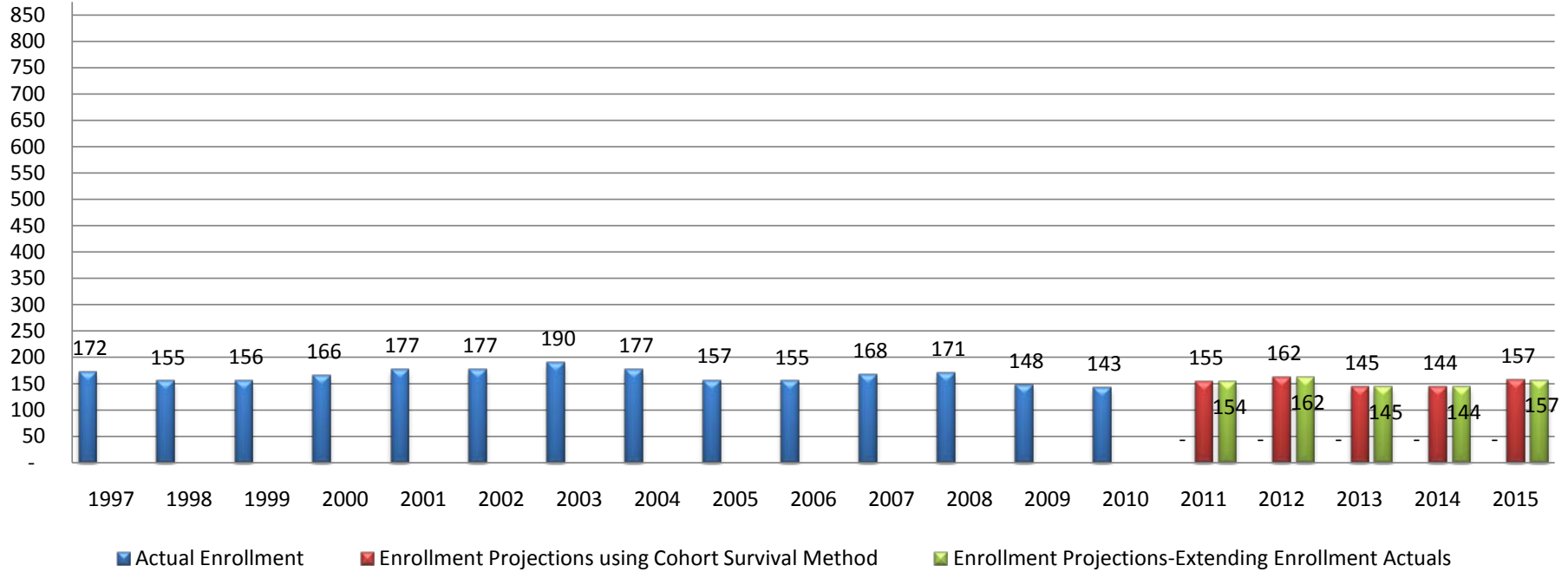
**Cohort Survival Ratio for last five years**

	2006	2007	2008	2009	2010	Avg	
7/6	1.058	1.094	0.975	0.944	0.950	1.004	**
8/7	1.000	1.027	0.989	1.025	1.000	1.008	
9/8	0.994	0.963	0.943	0.963	0.957	0.964	***
10/9	0.971	1.019	1.019	0.987	1.000	0.999	
11/10	0.965	1.000	0.988	0.963	0.973	0.978	
12/11	1.000	1.000	1.041	1.075	1.084	1.040	

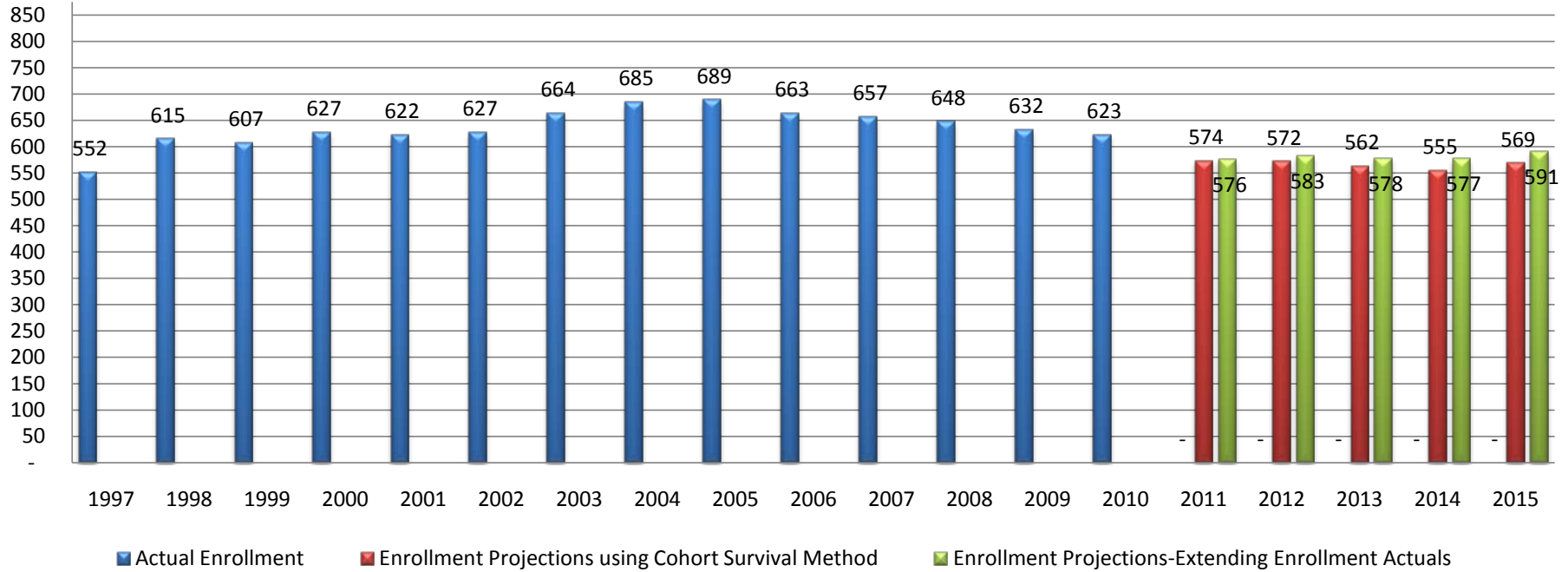
## Harwood Union - Grade 7 thru Grade 12 Enrollment History & Projections



## Harwood Union Middle School - Grade 7 thru Grade 8 Enrollment History & Projections



## Harwood Union High School - Grade 9 thru Grade 12 Enrollment History & Projections



**WWSU Pre-Kindergarten Enrollment History-10/1**

October 1 Enrollment	Fayston			Moretown			Waitsfield			Warren			TBPS			WWSU Total		
	P3	P4	Total	P3	P4	Total	P3	P4	Total	P3	P4	Total	P3	P4	Total	P3	P4	Total
1997			0			20			14			21			39			<b>94</b>
1998			0			23			12			17			34			<b>86</b>
1999			12			22			9			16			42			<b>101</b>
2000			10			21			10			10			38			<b>89</b>
2001			8			21			15			10			39			<b>93</b>
2002			7			19			32			10			39			<b>107</b>
2003*			6			24			22			17			56			<b>125</b>
2004			24			24			23			12			54			<b>137</b>
2005			4			25			23			17			61			<b>130</b>
2006	4	10	14	9	14	23	20	23	43	9	13	22	31	50	81	73	110	<b>183</b>
2007	2	8	10	10	10	20	12	20	32	14	16	30	37	58	95	75	112	<b>187</b>
2008	10	16	26	12	12	24	6	10	16	15	15	30	36	46	82	79	99	<b>178</b>
2009	6	10	16	8	15	23	9	6	15	14	15	29	25	51	76	62	97	<b>159</b>
2010	5	12	17	12	10	22	6	9	15	9	19	28	21	54	75	53	104	<b>157</b>

\* Start of PK Partnership

**HARWOOD UNION TUITION STUDENTS**

	<b>Grade 12</b>	<b>Grade11</b>	<b>Grade 10</b>	<b>Grade 9</b>	<b>Grade 8</b>	<b>Grade 7</b>	<b>TOTAL</b>
FY 10-11 (9/10/2010)	0	2	1	1	0	1	5
FY 09-10	1	1	2	2	1	0	7
FY 08-09	5	3	2	3	2	1	16
FY 07-08	2	4	3	2	3	2	16
FY 06-07	1	2	3	3	1	3	13

Washington West Equalized Pupils

	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011
Duxbury***	235.85	230.95	226.93			
Fayston	202.75	198.63	192.50	103.49	111.11	<b>113.34</b>
Moretown	271.61	279.44	277.63	130.30	121.74	<b>122.17</b>
Waitsfield	262.80	270.07	277.38	143.22	133.35	<b>139.28</b>
Warren	274.20	264.60	255.40	121.46	122.88	<b>140.23</b>
Waterbury-Duxbury Union	797.09	782.49	801.24	667.30	663.85	<b>658.53</b>
Harwood Union High School***				849.93	845.20	<b>829.49</b>
<b>Total Equalized Pupils in District</b>	<b>2,044.30</b>	<b>2,026.18</b>	<b>2,031.08</b>	<b>2,015.70</b>	<b>1,998.13</b>	<b>2,003.04</b>

Current Base rate per pupil is \$8,554

\*\*\* Prior to Act 130 Union Counts not available-Only Town Counts

