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North Santiam School District Population and Enrollment Forecasts, 2011-12 to 2025-26

Portland State University. Population Research Center

Charles Rynerson

Portland State University, rynerson@pdx.edu

Vivian Siu

Portland State University

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**NORTH SANTIAM SCHOOL DISTRICT
POPULATION AND ENROLLMENT FORECASTS
2011-12 TO 2025-26**



Portland State
UNIVERSITY
**Population Research
Center**



SEPTEMBER, 2011

**NORTH SANTIAM SCHOOL DISTRICT
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2011-12 TO 2025-26**

**Prepared By
Population Research Center
Portland State University**

SEPTEMBER, 2011

**Project Staff:
Charles Rynerson
Vivian Siu**

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EXECUTIVE SUMMARY

This report presents the results of a demographic study conducted by the Portland State University Population Research Center (PRC) for the North Santiam School District (NSSD). The three district-wide enrollment forecast scenarios for the period 2011-12 to 2025-26 describe a long-range in which enrollment is either relatively stable (LOW series), growing moderately (MIDDLE series), or growing rapidly (HIGH series). They differ due in their assumptions about migration levels as well as the share of District school-age residents attending NSSD schools.

Assumptions for migration rates by age and sex incorporate observations from the 1990s and 2000s, and population growth levels in each scenario are consistent with recent population forecasts for Marion County and Stayton and Sublimity. Growth expectations in the 2010 to 2020 period are tempered by the reality that employment is recovering slowly from the recession and major new industrial or residential development is not expected in the short term.

In the first two years of the forecast, 2011-12 and 2012-13, both the LOW and MIDDLE forecasts predict overall K-12 enrollment losses, while the HIGH forecast predicts very small gains. During the remaining 13 years of the forecast, each of the three forecasts indicates enrollment growth, though at very different rates.

In the LOW series, K-12 growth averages 0.2 percent annually between 2012-13 and 2025-26. This forecast would be consistent with a prolonged period of stagnant employment levels and little or no housing growth. The MIDDLE series is considered the most likely scenario, consistent with a return to the modest growth levels observed during the long term period between 1990 and 2007. In the MIDDLE series, K-12 growth averages 0.9 percent annually between 2012-13 and 2025-26. In the HIGH series, K-12 growth averages 1.4 percent annually between 2012-13 and 2025-26.

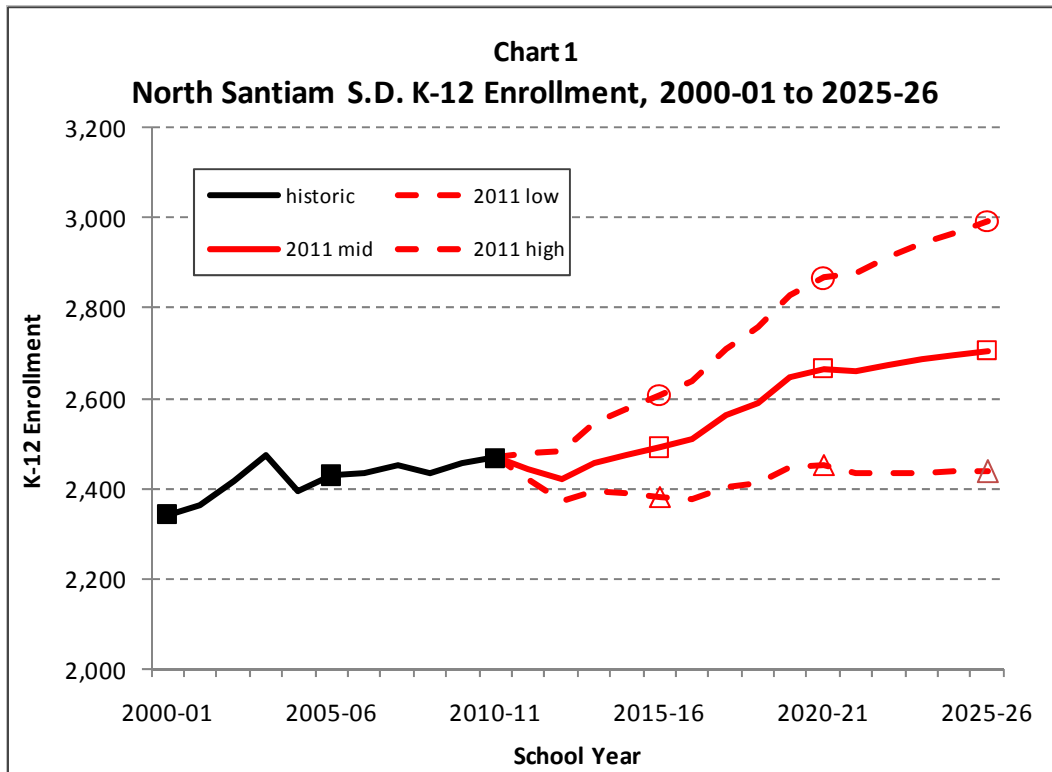
A forecast prepared by PRC based on enrollments observed through the 2005-06 school year predicted that K-12 enrollment would reach 2,597 by 2010-11, growth of 166 students over the five year period. Most of that growth did not materialize, likely due to the severe recession that crippled the housing market and caused job losses in the area's manufacturing sector and throughout the economy. Still, modest growth of 37 students did occur in the five year period.

Table 1 summarizes historic and forecast district-wide enrollment. More detailed tables are presented in the “Enrollment Forecasts” section and in Appendix A.

Table 1
Historic and Forecast Enrollment
North Santiam School District

School Year	LOW		MIDDLE		HIGH	
	Enrollment	5 year growth	Enrollment	5 year growth	Enrollment	5 year growth
2000-01	2,344		2,344		2,344	
2005-06	2,431	87	2,431	87	2,431	87
2010-11	2,468	37	2,468	37	2,468	37
2015-16 (fcst.)	2,383	-85	2,492	24	2,608	140
2020-21 (fcst.)	2,454	71	2,666	174	2,867	259
2025-26 (fcst.)	2,439	-15	2,706	40	2,992	125
AAEG*, 2010-11 to 2025-26	-0.1%		0.6%		1.3%	

**Note: Average Annual Enrollment Growth.*
Source: Historic enrollment, North Santiam School District; Enrollment forecasts, Population Research Center, PSU. September 2011.



INTRODUCTION

The North Santiam School District (NSSD) requested that the Portland State University Population Research Center (PRC) prepare enrollment forecasts for use in the District's long-range planning. This study integrates information about NSSD enrollment trends with local area population, housing, and economic trends, and includes a population forecast for the District as well as enrollment forecasts by grade level. Information sources include the U.S. Census Bureau, birth data from the Oregon Center for Health Statistics, geographic shape files from Marion County, population forecasts from the Oregon Office of Economic Analysis, PRC, and Marion County, employment trends from the Oregon Employment Department, and personal interviews with local officials.

The North Santiam School District (NSSD) covers about 100 square miles of Marion and Linn Counties in Western Oregon, and includes the communities of Lyons, Mehama, Stayton, and Sublimity.

Following this introduction are sections presenting recent population, housing, and employment trends within the District, and historic enrollment trends. Next are the results of the district-wide enrollment forecasts and individual school forecasts, and a description of the methodologies used to produce them. The final section contains a brief discussion of the nature and accuracy of forecasts. Appendices contain detailed forecast tables and charts, one page profiles for each school showing its enrollment forecasts and school capacities, and a 2000 and 2010 Census comparison profile for the District.

POPULATION, HOUSING, AND EMPLOYMENT TRENDS

During the decade between the 2000 and 2010 Censuses, total population within the boundaries of the North Santiam School District grew by 11 percent, from 14,305 persons to 15,826. This growth rate was nearly identical to Marion County’s growth rate, and slightly lower than Linn County’s 13 percent growth. Marion County, the NSSD, and its two largest cities, Stayton and Sublimity, all grew at a slower rate in the 2000s than in the 1990s. Linn County grew at about the same rate in each decade, and the City of Lyons grew faster in the 2000s than in the 1990s. Total population and average annual growth rates for each area are shown in Table 2.

Table 2
City and Region Population, 1990, 2000, and 2010

	1990	2000	2010	Avg. Annual Growth Rate	
				1990-2000	2000-2010
NSSD Total ¹	11,861	14,305	15,826	1.9%	1.0%
City of Stayton	5,011	6,816	7,644	3.1%	1.2%
City of Sublimity	1,491	2,148	2,681	3.7%	2.2%
City of Lyons	938	1,008	1,161	0.7%	1.4%
NSSD Unincorporated	4,421	4,333	4,340	-0.2%	0.0%
Linn County	91,227	103,069	116,672	1.2%	1.2%
Marion County	228,483	284,834	315,335	2.2%	1.0%
Salem MSA ³	278,024	347,214	390,738	2.2%	1.2%

1. School District population determined by PSU-PRC based on aggregation of census blocks within the NSSD boundary. The 2010 NSSD population published by the Census Bureau is 15,824.

2. Salem MSA consists of Marion and Polk (OR) Counties.

Sources: U.S. Census Bureau, 1990, 2000, and 2010 censuses

The District’s slower growth since 2000 was likely influenced by employment stagnation and losses during the decade’s two recessions. The early 2000s recession impacted two of Oregon’s biggest economic drivers, the electronics industry and trade with Asia. But it had relatively little impact on nationwide housing demand, and most employers in the core industries in the NSSD

communities, which include food processing, building materials, construction, metal fabrication, and wood products manufacturing, did not reduce their workforces significantly during that recession. In contrast, the housing slump in the late 2000s that undermined the economy struck a blow at Stayton’s manufacturing sector. Most notably, the loss of window and door manufacturer Philips Industries, which closed in 2009, and the temporary closure of manufactured home company Karsten, now approaching the two year mark, account for several hundred fewer manufacturing jobs in Stayton.

Table 3 reports a 17 percent loss of private sector jobs in Stayton between 2008 and 2010, as well as a 14 percent loss in Sublimity and 11 percent in Lyons. The public sector fared better in each city, but more recent monthly data for Oregon and its counties in 2011 show public sector job losses mounting even as the private sector stabilizes or adds jobs.

Table 3
Average Annual Employment
North Santiam S.D. Cities, 2008, 2009, and 2010

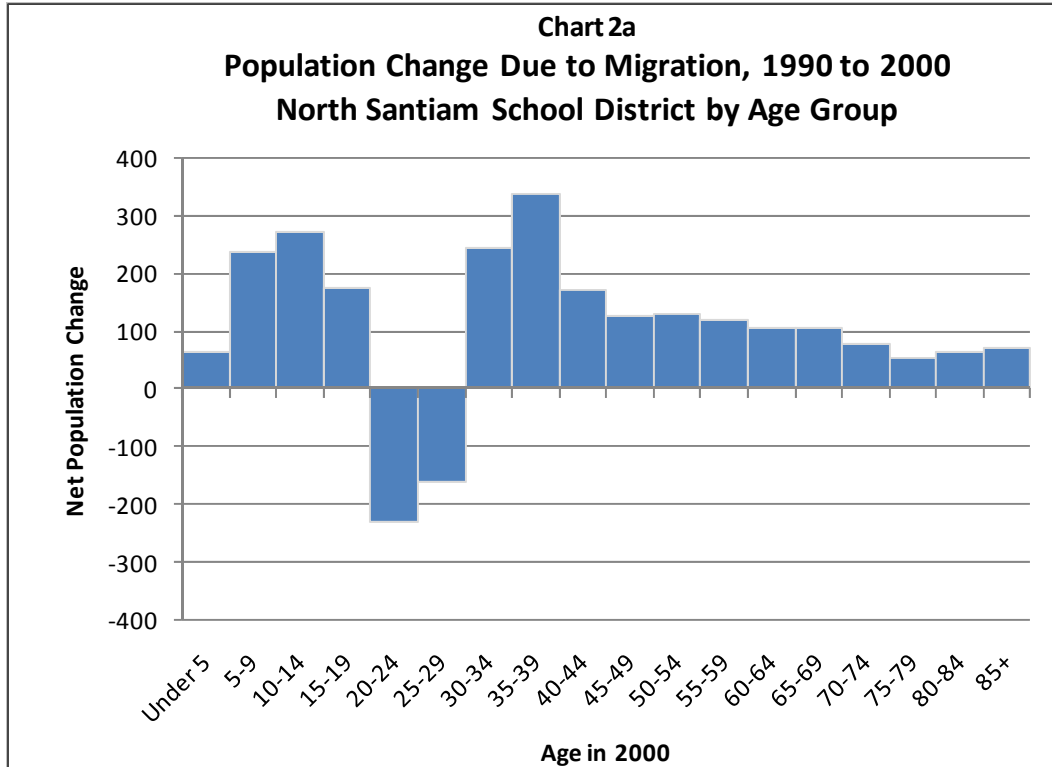
City	2008	2009	2010	2008 to 2010 Change	
				Number	Percent
Lyons	724	658	656	-68	-9%
Private	631	563	560	-71	-11%
Public	93	95	96	3	3%
Stayton	4,251	3,905	3,567	-684	-16%
Private	3,823	3,477	3,156	-667	-17%
Public	428	428	411	-17	-4%
Sublimity	913	843	813	-100	-11%
Private	814	734	696	-118	-14%
Public	99	109	117	18	18%

Source: Oregon Employment Department, Quarterly Census of Employment and Wages.

The impact of local job losses on NSSD residents has been muted somewhat by the regional nature of the workforce. About 70 percent of jobs within the NSSD are held by people who live outside the NSSD boundaries, with slightly higher shares in the “Goods Producing” industry class. Also, many NSSD residents have adapted by commuting to jobs outside the District. The number and share of NSSD residents’ primary jobs located outside of the District has increased steadily between 2004 and 2009. Employment statistics show an increase from about 3,750 in

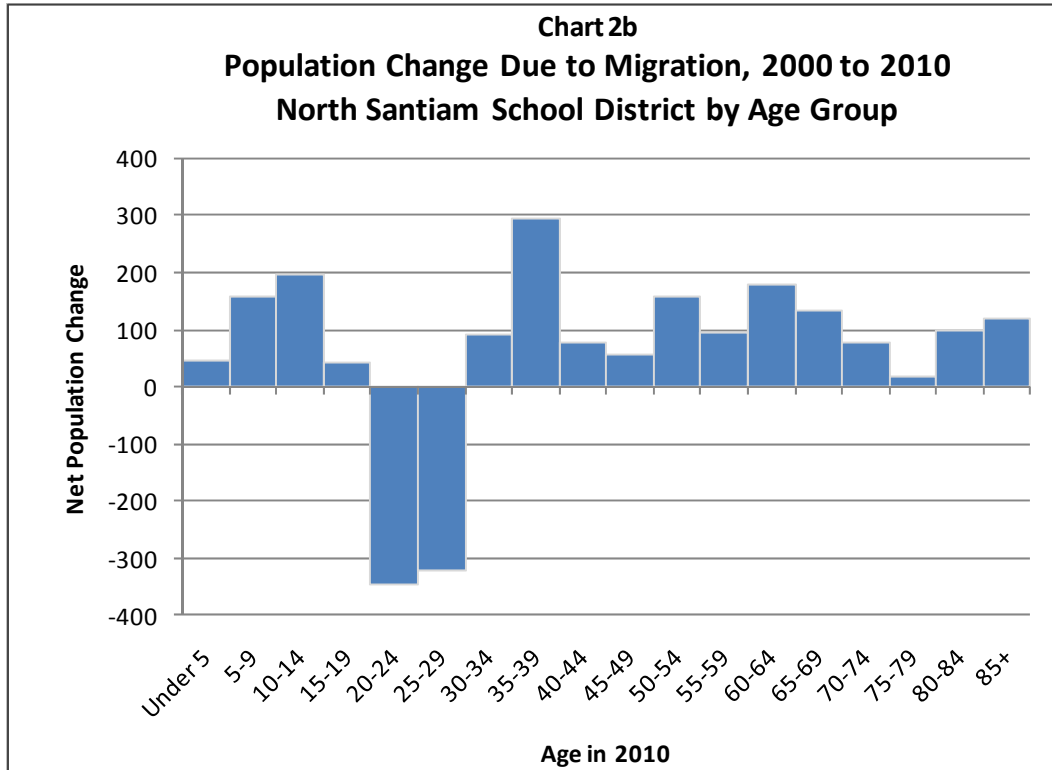
2004 to 4,500 in 2009 in the number of NSSD residents whose primary job was outside of the NSSD. In the same period, the number of NSSD residents whose primary job was within the District’s boundaries decreased from about 1,700 to 1,450.¹

Most of the District’s population growth since 1990 has been due to migration. That is, more people moving in than moving out. In the 1990s, there was a net gain of nearly 2,000 persons due to migration. In the 2000s, net gains due to migration were closer to 1,200. Slower economic growth generally has its greatest influence on young adults entering the job market and others who may be mobile due to job changes, thereby discouraging in-migration and encouraging out-migration. Charts 2a and 2b show net migration by age group for each of the two decades. There was less population growth due to migration in the 2000s than in the 1990s



¹ Source: U.S. Census Bureau, OnTheMap Application and LEHD Origin-Destination Employment Statistics (Beginning of Quarter Employment, 2nd Quarter of 2002-2009). Queries were specific to North Santiam School District. Includes workers at firms covered by unemployment insurance (excludes most agricultural jobs and self-employment). <http://lehdmap.did.census.gov/>.

for every age group under age 20 and age 30 to 49, and the net population loss attributable to migration for people age 20 to 29 was greater in the 2000s than in the 1990s. For people age 50 and older, NSSD population gains due to migration were generally higher in the 2000s than in the 1990s.



Population by age group for 2000 and 2010 is shown in Table 4 on the next page. During the decade nearly all age groups under age 50 grew more slowly than overall population. School-age population (age 5 to 17) fell by one percent between 2000 and 2010, and the total population under age 50 was virtually unchanged from 9,811 in 2000 to 9,777 in 2010. Population age 50 and over grew by 35 percent, from 4,494 in 2000 to 6,049 in 2010.

Table 4
Population by Age Group
North Santiam School District, 2000 and 2010

	2000	2010	2000 to 2010 Change	
			Number	Percent
Under Age 5	962	1,014	52	5%
Age 5 to 9	1,020	1,077	57	6%
Age 10 to 14	1,165	1,157	-8	-1%
Age 15 to 17	766	696	-70	-9%
Age 18 to 19	411	365	-46	-11%
Age 20 to 24	770	811	41	5%
Age 25 to 29	635	846	211	33%
Age 30 to 34	862	854	-8	-1%
Age 35 to 39	1,083	919	-164	-15%
Age 40 to 44	1,096	923	-173	-16%
Age 45 to 49	1,041	1,115	74	7%
Age 50 to 54	936	1,222	286	31%
Age 55 to 59	720	1,089	369	51%
Age 60 to 64	598	1,046	448	75%
Age 65 to 69	554	769	215	39%
Age 70 to 74	518	575	57	11%
Age 75 to 79	458	433	-25	-5%
Age 80 to 84	363	422	59	16%
Age 85 and over	347	493	146	42%
Total Population	14,305	15,826	1,521	11%
Total age 5 to 17	2,951	2,930	-21	-1%
<i>share age 5 to 17</i>	<i>20.6%</i>	<i>18.5%</i>		

Source: U.S. Census Bureau, 2000 and 2010 Censuses; data aggregated to NSSD boundary by Portland State University Population Research Center.

Chart 3 shows a relatively even distribution of children counted in the 2010 Census by single year of age between age two and age 17. There were fewer children under age two. A decline in births observed throughout the U.S. in 2009 and 2010 is blamed on the recession, and that trend may be contributing to the small number of children under age two in 2010. Another factor is that the NSSD generally gains children between birth and age five. There were a relatively small number of children under age three counted in 2000, but subsequent kindergarten enrollments did not fall to the extent of the difference in the 2000 Census age distribution. Therefore, district-wide kindergarten enrollment may fall slightly in the 2013 to 2015 period, but not by 30 or more students, as the 2010 Census might suggest if there were no migration.

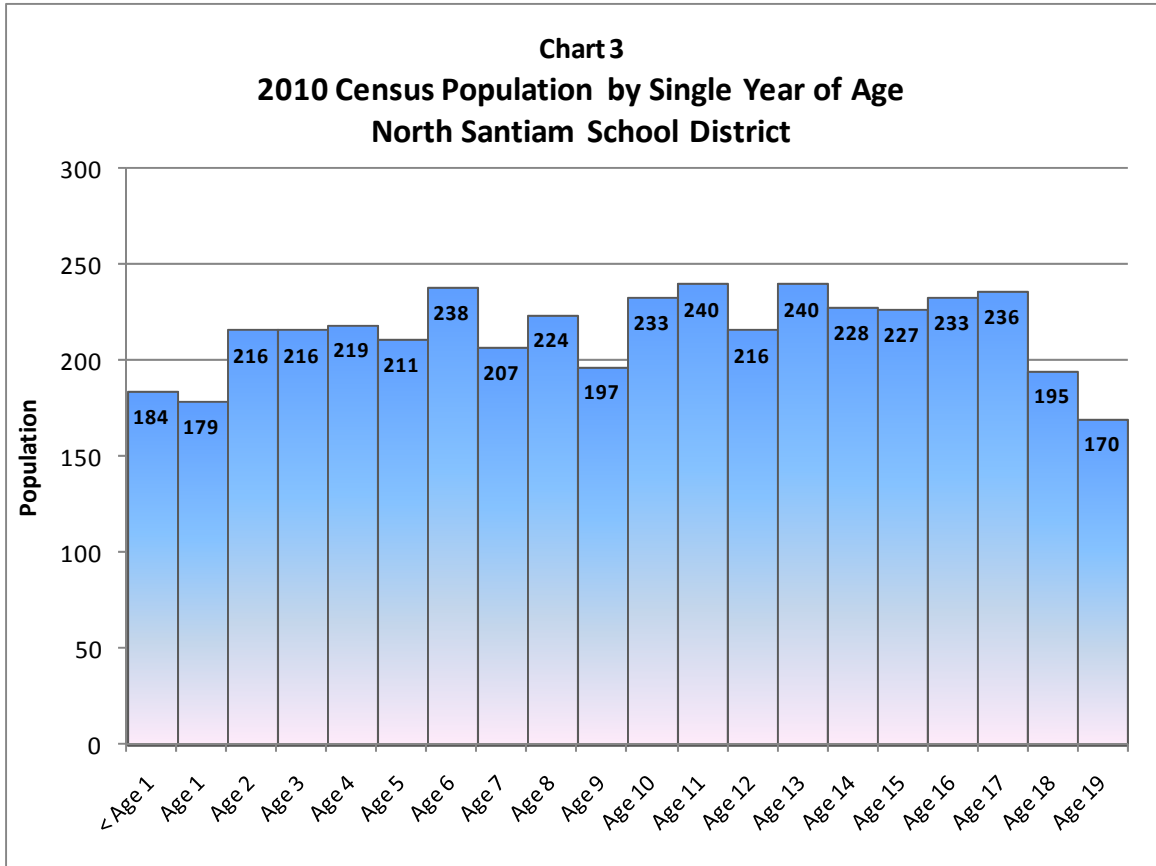


Table 4 reports the number of births to women residing in the NSSD each year from 1990 to 2009. These are estimates based on data from the Oregon Health Authority. The birth total had begun to increase from mid-decade to 2008, but the 2009 data indicated an unprecedented decline. Local data is not yet available for 2010, but county-wide births did not rebound.

Table 5
Annual Births, 1990 to 2009
North Santiam School District

1990	165
1991	139
1992	166
1993	165
1994	150
1995	177
1996	187
1997	182
1998	186
1999	172
2000	170
2001	179
2002	179
2003	197
2004	196
2005	185
2006	194
2007	200
2008	214
2009	183

Source: PSU-PRC estimates using Oregon Center for Health Statistics zip code data, 1990-2009 and individual birth records, 2001-2009.

In each of the past two decades the number of housing units within the NSSD increased by about 1,000. The number of households, or occupied housing units, increased at a slower rate, so the occupancy rates fell slightly each decade. These figures are reported in Table 6 along with a change in household composition relevant to school enrollment — the share of households with children under 18 fell from 39 percent in 2000 to 33 percent in 2010. Average household size fell from 2.71 in 2000 to 2.59 in 2010.

Table 6
North Santiam School District
Housing Units and Households, 1990, 2000, and 2010

	1990	2000	2010	2000 to 2010 Change	
				Number	Percent
Housing Units	4,418	5,446	6,449	1,003	18%
Households	4,232	5,160	6,020	860	17%
<i>occupancy Rate</i>	95.8%	94.7%	93.3%		
Households with children under 18	1,693	2,033	1,996	-37	-2%
<i>share of total</i>	40%	39%	33%		
Households with no children under 18	2,539	3,127	4,024	897	29%
<i>share of total</i>	60%	61%	67%		
Household Population	11,637	13,976	15,596	1,620	12%
Persons per Household	2.75	2.71	2.59	-0.12	-4%

Source: U.S. Census Bureau, 1990, 2000, and 2010 Censuses; data aggregated to NSSD boundary by Portland State University Population Research Center.

ENROLLMENT TRENDS

Total enrollment in the North Santiam School District has been relatively stable for past five years. The Fall 2010 K-12 total of 2,468 was just 37 students (1.5 percent) larger than Fall 2005 enrollment, and the total remained within that range each year from 2006 to 2009.

At specific school levels, enrollment fluctuates more than the more stable overall K-12 enrollment as cohorts of different sizes pass into and out of the grade level groups. Enrollment in primary grades (K-3rd) increased for four consecutive years between Fall 2006 and Fall 2010. The Fall 2010 enrollment in intermediate (4th-5th) and middle (6th-8th) grades decreased from Fall 2009, reversing the growth trend from the previous year. Conversely, high school (9th-12th) grades gained enrollment between Fall 2009 and Fall 2010, after losing the previous year.

Comparing 2010-11 enrollments at individual schools with those in 2005-06, when Stayton Elementary was reconfigured from K-4 to K-3, each of the Stayton campuses (Elementary, Intermediate/Middle, and High) has roughly the same enrollment total in 2010-11 as in 2005-06, while Mari-Linn's enrollment has fallen by 27 students (12 percent) and Sublimity's enrollment has increased by 70 students (20 percent).

On the next page, Table 7 summarizes the enrollment history for the District and individual schools from 2000-01 to 2010-11.

Table 7
North Santiam School District, Historic Enrollment, 2000-01 to 2010-11

Grade	Historic Enrollment											Change 2000-01 to 2010-11	
	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Number	Percent
K	156	175	171	160	148	177	164	173	188	175	179	23	15%
1	166	155	186	199	158	156	178	173	181	195	181	15	9%
2	162	174	155	187	202	178	157	179	165	187	205	43	27%
3	163	171	186	161	196	211	183	167	190	177	189	26	16%
4	165	172	182	196	162	194	202	182	159	195	167	2	1%
5	177	176	179	188	192	168	195	215	182	179	195	18	10%
6	193	181	182	186	188	205	168	208	207	192	171	-22	-11%
7	208	201	180	189	188	187	205	166	212	206	204	-4	-2%
8	206	215	206	196	177	182	189	208	161	208	202	-4	-2%
9	195	205	217	213	201	183	189	208	209	165	196	1	1%
10	199	196	203	215	207	198	192	195	195	211	178	-21	-11%
11	197	205	217	196	213	216	197	197	180	187	211	14	7%
12	157	138	153	187	165	176	215	183	206	180	190	33	21%
Total	2,344	2,364	2,417	2,473	2,397	2,431	2,434	2,454	2,435	2,457	2,468	124	5%
K-3	647	675	698	707	704	722	682	692	724	734	754	107	17%
4-5	342	348	361	384	354	362	397	397	341	374	362	20	6%
6-8	607	597	568	571	553	574	562	582	580	606	577	-30	-5%
9-12	748	744	790	811	786	773	793	783	790	743	775	27	4%

School	Historic Enrollment by School											Change 2000-01 to 2010-11	
	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	Number	Percent
Mari-Linn (K-8)	260	252	270	263	236	233	225	222	215	211	206	-54	-21%
Stayton Elem.(K-3)*	509	539	547	602	578	486	463	443	480	486	480	-29	-6%
Sublimity (K-8)	348	348	351	330	336	343	366	394	379	412	413	65	19%
Stayton Mid.(4-8)*	479	481	459	467	461	596	587	612	571	605	594	115	24%
Stayton High	748	744	790	811	786	773	875	790	790	743	775	27	4%

*Note: Grade 4 included with Stayton Elementary prior to 2005-06.

Data Source: North Santiam School District

Private School Enrollment, Home School, and Inter-District Transfers

The NSSD area has historically had a very high share of its children enrolled in private schools. Within the NSSD boundaries are three major private schools, including a K-8 Catholic school (St. Mary), a Catholic high school (Regis), and a non-denominational K-8 school (Stayton Christian). There are also private schools outside the District, such as those in or around Salem, that enroll a small number of NSSD residents.

Data from the 2000 Census indicate that the private school enrollment shares for the NSSD were 16 percent of K-8th grade students and 13 percent of 9th-12th grade students. More recent estimates from the Census Bureau's 2005-2009 American Community Survey (ACS) show little change. The ACS estimates that 17 percent of K-8th grade students and 13 percent of 9th-12th grade students were enrolled in private schools.

Other differences between local public school enrollment and total school age population can be attributed to home schooling and online schools. Home schooled children age 7 to 18 living in the District are required to register with the Willamette Education Service District (WESD), though the statistics kept by the WESD are not precise because students who move out of the area are not required to drop their registration. Students who enroll in public schools after being registered as home schooled are dropped from the home school registry. In 2005-06, the WESD reported 31 residents of NSSD registered as home schooled students.² By the 2010-11 school year, the number had increased significantly to 102.³ The more recent figure represents nearly four percent of NSSD residents age 7 to 18. Online school options have also increased in the last several years, so it is likely that an increasing number of NSSD residents are enrolled in these schools.

Private schools and home schooling help to explain the difference between the number of school-age children living in the District and the number attending District schools. Both represent "outflow" from the District. That is, children eligible but not attending District

² Willamette Education Service District, *2005-06 Annual Report*.

³ Willamette Education Service District, "Quarterly Home School Report, School District Totals for December 2010."

schools. The other “outflow” consists of District residents who attend public schools in other school districts. There is also a related “inflow” of residents from other districts.

Under state rules, families must request and be granted an inter-district transfer from their resident district and the transfer must also be approved by the district that they want to attend. Table 8 shows that several years ago (2004 and 2005) more students transferred out of the NSSD than into it, while more recent transfer flows (2009 and 2010) were more balanced.

	K-8	9-12	Total
October 2004			
Into NSSD	6	15	21
Out of NSSD	18	29	47
Net	-12	-14	-26
October 2005			
Into NSSD	16	5	21
Out of NSSD	21	26	47
Net	-5	-21	-26
October 2009			
Into NSSD	33	15	48
Out of NSSD	19	22	41
Net	14	-7	7
October 2010			
Into NSSD	33	13	46
Out of NSSD	24	20	44
Net	9	-7	2

Source: North Santiam School District

Grade Progression

A grade progression rate (GPR) is the ratio of enrollment in a specific grade to the enrollment in the preceding grade in the previous year. For example, the number of students enrolled in second grade this year divided by the number of students enrolled in first grade last year. Rates for some grades may be consistently high, indicating that new students are entering the District from private schools. For this reason, it is common to see higher GPRs for the kindergarten to 1st grade transition. In high school grades, low GPRs can indicate that students are dropping out of District schools. But for most elementary grades, if the population entering and leaving the

District is in balance and students are not being retained at particular grades for academic reasons, one can expect GPRs very close to 1.00. Rates above 1.00 in the elementary grades usually indicate net migration into the District. For individual schools, rates above 1.00 can indicate positive net migration, or students transferring from other schools.

Table 9 shows the average of the most recent five years of GPRs beginning with the 2005-06 to 2006-07 rates and ending with the 2009-10 to 2010-11 rates. For Sublimity, all eight grade transitions had rates above 1.00, indicating growth due to net migration during the period. Sublimity experienced an average gain of 15 percent between kindergarten and 1st grade. For Stayton, the GPRs were a mix of rates above and below 1.00, while Mari-Linn experienced losses at most grade transitions. These GPRs are consistent with the enrollment trends of the past five years — growth at Sublimity, decline at Mari-Linn, and relatively stable enrollment at Stayton’s K-8 schools.

Table 9
Average Grade Progression Rates*
North Santiam S.D., 2005-06 to 2010-11

Grade Transition	District-wide	Mari-Linn	Stayton	Sublimity
K-1	1.036	0.947	1.021	1.154
1-2	1.010	0.984	0.998	1.085
2-3	1.047	1.129	1.011	1.133
3-4	0.975	0.927	0.933	1.162
4-5	1.039	0.990	1.037	1.078
5-6	1.008	0.990	0.991	1.077
6-7	1.013	0.846	1.033	1.062
7-8	0.991	0.919	0.999	1.017
8-9	1.022			
9-10	1.021			
10-11	0.981			
11-12	0.997			

**Ratio of enrollment in an individual grade to enrollment in the previous grade the previous year.*

ENROLLMENT FORECASTS

District-wide Forecast Methodology

To ensure that enrollment forecasts are consistent with the dynamics of likely population growth within the District, a grade progression enrollment model is combined with a demographic cohort-component model used to forecast population for the District by age and sex. The components of population change are births, deaths, and migration. Using age-specific fertility rates, age-sex specific mortality rates, age-sex specific migration rates, estimates of recent net migration levels, and forecasts of future migration levels, each component is applied to the base year population in a manner that simulates the actual dynamics of population change.

The 2000 and 2010 Census results are used as a baseline for the population forecasts. By “surviving” the 2000 population and 2000s births (estimating the population in each age group that would survive to the year 2000) and comparing the “survived” population to the actual 2000 population by age group, we are able to estimate the overall level of net migration between 2000 and 2010 as well as net migration by gender and age cohort. The net migration data was used to develop initial net migration rates, which were used as a baseline for rates used to forecast net migration for the 2010 to 2030 period.

We estimated the number of births to women residing within the District each year from 1999 to 2009, using data from the Oregon Health Authority, Center for Health Statistics. Detailed information including the age of mothers is incorporated in the establishment of fertility rates by age group. Because of the recession, 2009 fertility rates may have been unusually low, so they were increased slightly in the forecast model beginning in 2011. Total Fertility Rates (TFRs), are estimates of the number of children that would be born to the average women during her child-bearing years, based on age-specific fertility rates observed at a given time. The TFR that we calculated for the District was 2.16 in 2000. It is estimated to have increased to 2.26 in 2005 and fallen to 2.13 in 2010. The forecast TFR increases to 2.23 by 2015 and remains at that level throughout the remainder of the forecast period.

Historic school enrollment is linked to the population forecast in two ways. First, the kindergarten and first grade enrollments at the time of the most recent census (the 2009-10 school year) are compared to the population at the appropriate ages counted in the census. The “capture rate,” or ratio of enrollment to population, is an estimate of the share of area children who are enrolled in NSSD schools. Assumptions for capture rates based on census data are used to bring new kindergarten and first grade students into the District’s enrollment. If there is evidence that capture rates have changed since the time of the census, they may be adjusted in the forecast. Observed and forecast capture rates under three forecast scenarios are shown in Table 10.

Table 10
Capture Rates¹
North Santiam School District

School Years	Kindergarten	Grade 1
1999-2001 ²	0.763	0.855
2009-2011 ³	0.804	0.842
Forecast - LOW	0.800	0.810
Forecast - MIDDLE	0.820	0.835
Forecast - HIGH	0.840	0.860

1. The ratio of enrollment in District schools to total population in the District.

2. An average based on Fall 1999 and Fall 2000 enrollments compared with corresponding age data from the 2000 census.

3. An average based on Fall 2009 and Fall 2010 enrollments compared with corresponding age data from the 2010 census.

Once the students are in first grade, a set of baseline grade progression rates (GPRs) are used to move students from one grade to the next. These baseline GPRs represent a scenario under which there is no change due to migration. Enrollment change beyond the baseline is added (or subtracted, if appropriate) at each grade level depending on the migration levels of the overall population by single years of age. Table 11 shows the average GPRs for the five most recent years of observed historic enrollment (2005-06 to 2010-11), the baseline GPRs used in the model, and the average GPRs calculated from the enrollment forecasts between 2010-11 and 2025-26.

Table 11
Grade Progression Rates¹
North Santiam School District

Grade Transition	Historic Average: 2005-06 to 2010-11	Baseline (without the influence of migration)	LOW Forecast Average: 2010-11 to 2025-26	MIDDLE Forecast Average: 2010-11 to 2025-26	HIGH Forecast Average: 2010-11 to 2025-26
K-1	1.04	-- ²	1.04	1.05	1.06
1-2	1.01	1.00	1.02	1.03	1.03
2-3	1.05	1.02	1.04	1.04	1.05
3-4	0.97	0.98	0.99	1.00	1.00
4-5	1.04	1.02	1.04	1.04	1.04
5-6	1.01	0.99	1.00	1.01	1.01
6-7	1.01	1.00	1.01	1.02	1.02
7-8	0.99	0.98	0.99	1.00	1.00
8-9	1.02	1.00	1.01	1.01	1.02
9-10	1.02	1.00	1.01	1.01	1.02
10-11	0.98	0.97	0.98	0.98	0.99
11-12	1.00	0.99	1.00	1.00	1.01

1. Ratio of enrollment in an individual grade to enrollment in the previous grade the previous year.

2. The enrollment forecast model uses capture rates for first grade; K-1 baseline GPRs are not used.

District-wide Population Forecasts

Three scenarios of population growth were modeled for the NSSD area to predict the population by age group for the next 20 years, each based on unique assumptions for migration rates by age and sex as well as overall migration levels.

The assumptions for migration rates by age and sex incorporate observations from the 1990s and 2000s, and population growth levels in each scenario are consistent with recent population forecasts for Marion County and Stayton and Sublimity. The NSSD’s unincorporated area is not expected to add population given Oregon’s land use laws that discourage rural development, so the entire area encompassed by the District grows at a slower rate than its cities. Growth expectations in the 2010 to 2020 period are tempered by the reality that job growth is recovering very slowly from the 2008-2009 recession and major new industrial or residential development is not expected in the short term.

Charts A1, A2, and A3 in Appendix A illustrate specific migration levels associated with each forecast scenario. Population totals by age group are also included in the Appendix, in Tables A1, A2, and A3. Table 12 summarizes the growth rates in the three scenarios and includes historic and forecast growth rates for area counties and cities.

Table 12
Comparison of Population Growth Rates
Counties, Cities, and North Santiam S.D.

Area	Historic Average Annual Growth Rate		Forecast Average Annual Growth Rate ^{1,2,3,4}	
	1990 to 2000	2000 to 2010	2010 to 2020	2020 to 2030
Marion County - Low ¹	2.2%	1.0%	1.0%	0.7%
Marion County - Middle ¹	2.2%	1.0%	1.3%	1.1%
Marion County - High ¹	2.2%	1.0%	1.6%	1.4%
Linn County ²	1.3%	1.2%	0.9%	0.9%
Marion County ²	2.2%	1.0%	1.3%	1.1%
City of Lyons	0.7%	1.4%	N/A	N/A
City of Stayton - Low ¹	3.1%	1.2%	1.3%	1.0%
City of Stayton - Middle ¹	3.1%	1.2%	1.8%	1.5%
City of Stayton - High ¹	3.1%	1.2%	2.3%	2.0%
City of Sublimity ¹	3.7%	2.2%	2.1%	1.9%
City of Sublimity ³	3.7%	2.2%	0.9%	0.9%
North Santiam S.D. Unincorporated	-0.2%	0.0%	N/A	N/A
North Santiam S.D. - Low ⁴	1.9%	1.0%	0.7%	0.5%
North Santiam S.D. - Middle ⁴	1.9%	1.0%	1.0%	1.1%
North Santiam S.D. - High ⁴	1.9%	1.0%	1.4%	1.4%

1. 1990 to 2010 change: U.S. Census Bureau. 2010 to 2030 forecasts: "Population Forecasts for Marion County, its Cities and Unincorporated Area." Population Research Center, PSU, September 2008. Growth rates are consistent with population forecasts for Marion County (Mid) and City of Stayton (Mid) adopted by the Marion County Board of Commissioners in October, 2009, amending the Marion County Comprehensive plan.

2. 1990 to 2010 change: U.S. Census Bureau. 2010 to 2030 forecasts: "Forecasts of Oregon's County Populations and Components of Change, 2000 to 2040." Oregon Department of Administrative Services, Office of Economic Analysis, April, 2004.

3. 1990 to 2010 change: U.S. Census Bureau. 2010 to 2030 forecast growth rate based on 2030 forecast adopted by the Marion County Board of Commissioners in October, 2009, amending the Marion County Comprehensive plan.

4. 1990 to 2010 change: U.S. Census Bureau. 2010 to 2030 forecasts: Population Research Center, PSU, September 2011.

District-wide Enrollment Forecast

Tables 13, 14, and 15 contain grade level forecasts for the North Santiam School District for 2011-12, 2012-13, 2015-16, 2020-21, and 2025-26. The forecasts are also summarized by grade level groups (K-3, 4-5, 6-8, and 9-12). In Appendix A, annual forecasts for each of the next 15 years are presented in Tables A4, A5, and A6. In the first two years of the forecast, 2011-12 and 2012-13, both the LOW and MIDDLE forecasts predict overall K-12 enrollment losses, while the HIGH forecast predicts very small gains. During the remaining 13 years of the forecast, each of the three forecasts indicates enrollment growth, though at very different rates. There will be periods of faster and slower growth in the future under any scenario, so the year-to-year pattern of actual growth may deviate from what is implied in the forecasts. However, the long-term enrollment growth is consistent with population, employment, and housing growth expected in the region, in the context of continued urbanization in the Salem area and other parts of the mid-Willamette Valley.

In the LOW series, K-12 growth averages 0.2 percent annually between 2012-13 and 2025-26. This forecast would be consistent with a prolonged period of stagnant employment levels and little or no housing growth. The MIDDLE series is considered the most likely scenario, consistent with a return to the modest growth levels observed during the long term period between 1990 and 2007. In the MIDDLE series, K-12 growth averages 0.9 percent annually between 2012-13 and 2025-26. In the current environment, it is hard to envision a scenario such as the HIGH series, under which K-12 growth averages 1.4 percent annually between 2012-13 and 2025-26, but such growth is possible if new industries are attracted to the area and more housing is developed for the region's workforce.

Table 13
North Santiam School District
LOW SERIES Enrollment Forecasts, 2011-12 to 2025-26

Grade	Historic		Forecast				
	2009-10	2010-11	2011-12	2012-13	2015-16	2020-21	2025-26
K	175	179	167	166	160	171	171
1	195	181	178	169	160	177	177
2	187	205	179	178	175	180	180
3	177	189	207	183	187	185	188
4	195	167	184	203	180	182	187
5	179	195	169	188	193	185	195
6	192	171	191	167	192	179	195
7	206	204	170	191	216	194	197
8	208	202	199	167	191	197	193
9	165	196	201	199	171	193	193
10	211	178	195	201	193	201	191
11	187	211	172	189	167	194	180
12	180	190	208	170	198	216	192
Total¹	2,457	2,468	2,420	2,371	2,383	2,454	2,439
<i>Annual change*</i>		11 0.4%	-48 -1.9%	-49 -2.0%	4 0.2%	14 0.6%	-3 -0.1%
K-3	734	754	731	696	682	713	716
4-5	374	362	353	391	373	367	382
6-8	606	577	560	525	599	570	585
9-12	743	775	776	759	729	804	756

**Note: Average Annual change after 2012-13.*

Population Research Center, Portland State University, September 2011.

Table 14
North Santiam School District
MIDDLE SERIES Enrollment Forecasts, 2011-12 to 2025-26

Grade	Historic		Forecast				
	2009-10	2010-11	2011-12	2012-13	2015-16	2020-21	2025-26
K	175	179	174	175	169	184	189
1	195	181	182	180	170	192	196
2	187	205	181	184	188	195	199
3	177	189	209	187	199	200	208
4	195	167	185	207	195	198	208
5	179	195	170	190	202	203	215
6	192	171	193	170	199	197	216
7	206	204	171	194	223	214	217
8	208	202	200	169	196	216	213
9	165	196	202	201	176	215	214
10	211	178	196	203	201	216	214
11	187	211	173	191	172	207	201
12	180	190	209	172	202	229	216
Total¹	2,457	2,468	2,445	2,423	2,492	2,666	2,706
<i>Annual change*</i>		11 0.4%	-23 -0.9%	-22 -0.9%	23 0.9%	35 1.4%	8 0.3%
K-3	734	754	746	726	726	771	792
4-5	374	362	355	397	397	401	423
6-8	606	577	564	533	618	627	646
9-12	743	775	780	767	751	867	845

**Note: Average Annual change after 2012-13.*

Population Research Center, Portland State University, September 2011.

Table 15
North Santiam School District
HIGH SERIES Enrollment Forecasts, 2011-12 to 2025-26

Grade	Historic		Forecast				
	2009-10	2010-11	2011-12	2012-13	2015-16	2020-21	2025-26
K	175	179	182	185	179	202	212
1	195	181	185	191	182	209	220
2	187	205	184	189	201	212	224
3	177	189	212	191	213	216	232
4	195	167	187	212	209	213	232
5	179	195	172	194	211	219	240
6	192	171	195	173	205	213	239
7	206	204	173	198	232	231	241
8	208	202	202	172	202	234	231
9	165	196	204	205	181	232	232
10	211	178	198	207	206	229	233
11	187	211	174	194	178	217	221
12	180	190	210	174	209	240	235
Total¹	2,457	2,468	2,478	2,485	2,608	2,867	2,992
<i>Annual change*</i>		11 0.4%	10 0.4%	7 0.3%	41 1.6%	52 1.9%	25 0.9%
K-3	734	754	763	756	775	839	888
4-5	374	362	359	406	420	432	472
6-8	606	577	570	543	639	678	711
9-12	743	775	786	780	774	918	921

**Note: Average Annual change after 2012-13.*

Population Research Center, Portland State University, September 2011.

Individual School Forecasts

We prepared forecasts for individual schools under a scenario in which current boundaries and grade configurations remain constant. Program changes, school choice policies, or other decisions about individual schools and the students they serve could impact enrollment in ways that these forecasts do not anticipate. The individual school forecasts depict what future enrollments might be if today’s facilities, programs, and boundaries remain unchanged.

The methodology relies on unique sets of grade progression rates for each school and the schools’ shares of district-wide kindergarten enrollment. Subsequent grades were forecast using GPRs influenced by district-wide rates, historic observations at individual schools, and future expected housing growth. The final forecasts for individual schools, summarized in Table

16 and detailed in Appendix Table A7, were controlled to match the district-wide MIDDLE series forecasts.

Table 16
Historic and Forecast Enrollment, Individual Schools

	Actual			Forecast		
	2000-01	2005-06	2010-11	2015-16	2020-21	2025-26
Mari-Linn (K-8)	260	233	206	212	222	234
<i>5 year growth</i>		-27	-27	6	10	12
<i>Percent</i>		-10.4%	-11.6%	2.9%	4.7%	5.4%
Stayton Elem (K-3)*	509	486	480	448	477	489
<i>5 year growth</i>		-23	-6	-32	29	12
<i>Percent</i>		-4.5%	-1.2%	-6.7%	6.5%	2.5%
Stayton Mid (4-8)*	479	596	594	618	611	643
<i>5 year growth</i>		117	-2	24	-7	32
<i>Percent</i>		24.4%	-0.3%	4.0%	-1.1%	5.2%
Sublimity (K-8)	348	343	413	463	489	495
<i>5 year growth</i>		-5	70	50	26	6
<i>Percent</i>		-1.4%	20.4%	12.1%	5.6%	1.2%
Stayton High (9-12)	748	773	775	751	867	845
<i>5 year growth</i>		25	2	-24	116	-22
<i>Percent</i>		3.3%	0.3%	-3.1%	15.4%	-2.5%

* 2000-01 figures reflect K-4 configuration for Stayton Elementary and 5-8 for Stayton Middle.

FORECAST ERROR AND UNCERTAINTY

Due to the nature of forecasting, there is no way to estimate a confidence interval as one might for data collected from a survey. The best way to measure potential forecast error is to compare actual enrollments with previous forecasts that were conducted using similar data and methodologies. The previous forecast that PRC prepared for the NSSD was completed in Spring 2006, following several years of enrollment growth in the primary grades and in the midst of strong local and national economic growth fueled by the housing boom.

Table 17 compares the actual NSSD enrollment by grade level in Fall 2010 with the 2010-11 forecasts prepared five years earlier. Forecasts for most of the grades were higher than actual enrollments, with the largest errors observed in 4th, 8th, and 9th grades. As a measure of average error for individual grade levels, the mean absolute percent error (MAPE) is included in the table.

Grade	Actual	Five year forecast ¹		
		Fcst.	Diff.	Error
K	179	181	2	1.1%
1	181	196	15	8.3%
2	205	194	-11	-5.4%
3	189	195	6	3.2%
4	167	200	33	19.8%
5	195	204	9	4.6%
6	171	180	9	5.3%
7	204	205	1	0.5%
8	202	240	38	18.8%
9	196	224	28	14.3%
10	178	188	10	5.6%
11	211	222	11	5.2%
12	190	168	-22	-11.6%
Total	2,468	2,597	129	5.2%
MAPE²		8.0%		

1. Forecast for 2010-11 by PSU-PRC, baseline 2005-06 enrollment, May 2006
2. Mean absolute percent error for individual grades K-12.

Forecasts for individual schools, particularly elementary schools, typically have higher error rates than the district-wide forecasts, due to their relatively small size, fluctuations in incoming kindergarten classes, and greater mobility of families with younger children. Because of circumstances like the recent recession, or any number of unexpected events, it is prudent to update forecasts periodically, and coordinate enrollment with population forecasts that are consistent with city and county comprehensive plans.

APPENDIX A

DISTRICT-WIDE FORECAST TABLES AND CHARTS

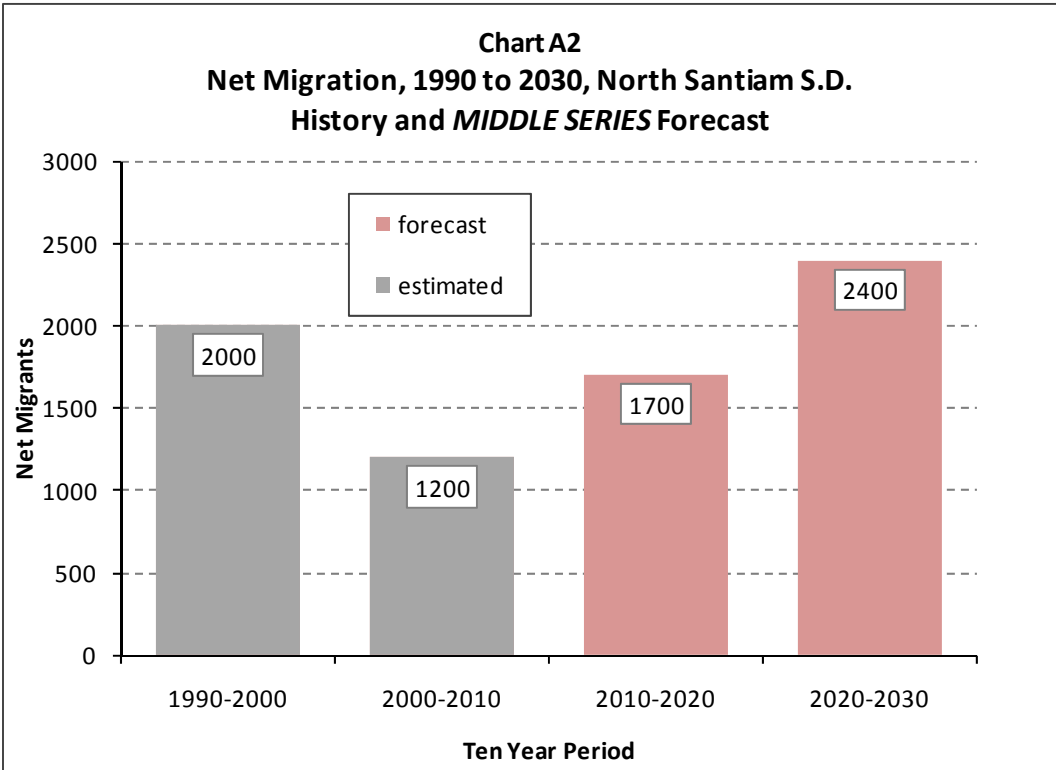
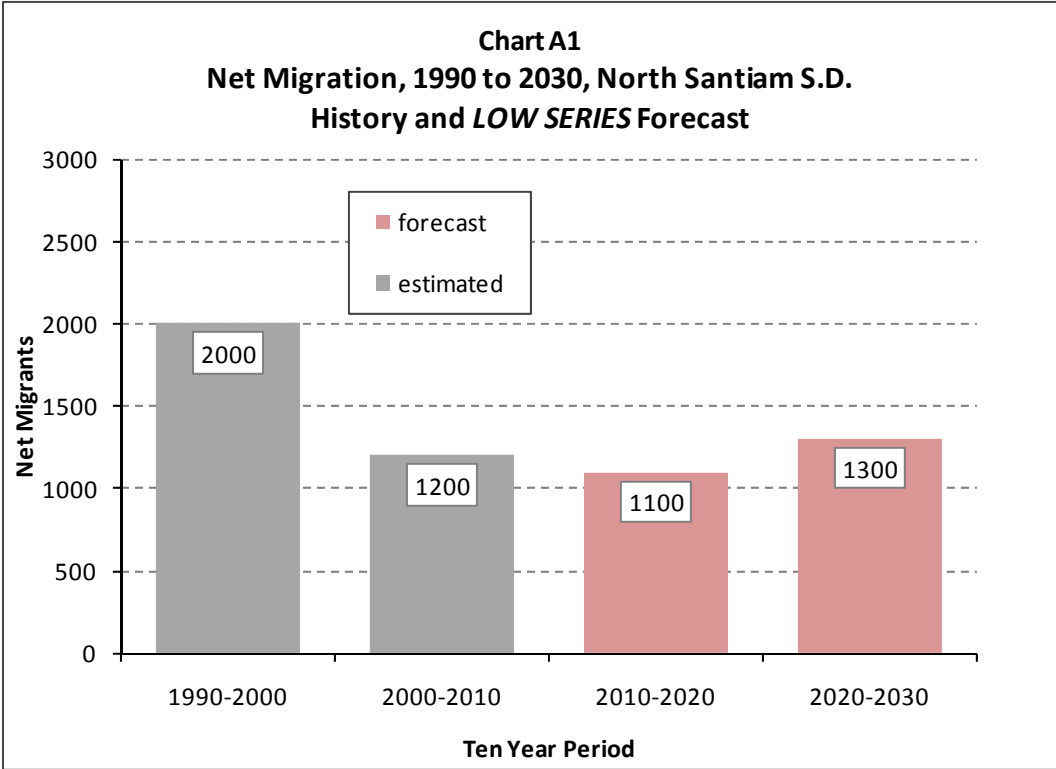


Chart A3
Net Migration, 1990 to 2030, North Santiam S.D.
History and *HIGH SERIES* Forecast

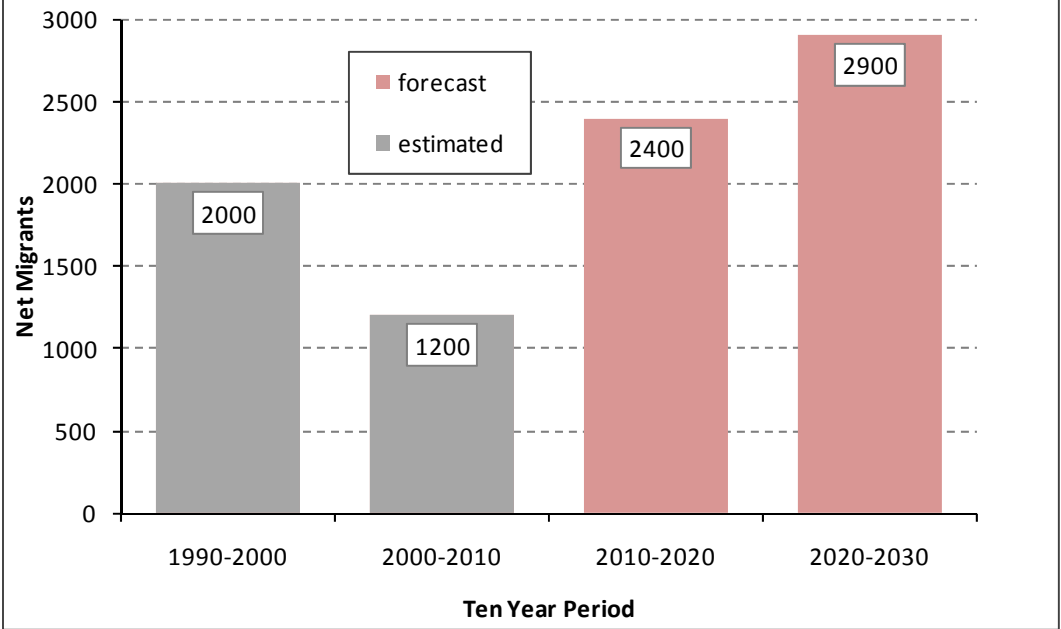


Table A1
Population by Age Group, *LOW SERIES* Forecast
North Santiam School District, 2000 to 2030

	2000 Census	2010 Census	2020 Forecast	2030 Forecast	2010 to 2030 Change	
					Number	Percent
Under Age 5	962	1,014	985	988	-26	-3%
Age 5 to 9	1,020	1,077	1,084	1,101	24	2%
Age 10 to 14	1,165	1,157	1,174	1,198	41	4%
Age 15 to 17	766	696	722	753	57	8%
Age 18 to 19	411	365	352	388	23	6%
Age 20 to 24	770	811	816	828	17	2%
Age 25 to 29	635	846	770	780	-66	-8%
Age 30 to 34	862	854	889	895	41	5%
Age 35 to 39	1,083	919	1,186	1,078	159	17%
Age 40 to 44	1,096	923	907	949	26	3%
Age 45 to 49	1,041	1,115	942	1,214	99	9%
Age 50 to 54	936	1,222	1,015	998	-224	-18%
Age 55 to 59	720	1,089	1,156	976	-113	-10%
Age 60 to 64	598	1,046	1,319	1,095	49	5%
Age 65 to 69	554	769	1,123	1,192	423	55%
Age 70 to 74	518	575	965	1,224	649	113%
Age 75 to 79	458	433	579	849	416	96%
Age 80 to 84	363	422	447	749	327	77%
Age 85 and over	347	493	515	597	104	21%
Total Population	14,305	15,826	16,946	17,852	2,026	13%
Total age 5 to 17	2,951	2,930	2,980	3,052	122	4%
<i>share age 5 to 17</i>	<i>20.6%</i>	<i>18.5%</i>	<i>17.6%</i>	<i>17.1%</i>		

	2000-2010	2010-2020	2020-2030
Population Change	1,521	1,120	906
<i>Percent</i>	<i>10.6%</i>	<i>7.1%</i>	<i>5.3%</i>
<i>Average Annual</i>	<i>1.0%</i>	<i>0.7%</i>	<i>0.5%</i>

Source: U.S. Census Bureau, 2000 and 2010 Censuses; data aggregated to NSSD boundary by Portland State University Population Research Center. PSU-PRC Forecasts, 2020 and 2030.

Table A2
Population by Age Group, *MIDDLE SERIES* Forecast
North Santiam School District, 2000 to 2030

	2000 Census	2010 Census	2020 Forecast	2030 Forecast	2010 to 2030 Change	
					Number	Percent
Under Age 5	962	1,014	1,021	1,125	111	11%
Age 5 to 9	1,020	1,077	1,138	1,230	153	14%
Age 10 to 14	1,165	1,157	1,250	1,308	151	13%
Age 15 to 17	766	696	766	819	123	18%
Age 18 to 19	411	365	373	425	60	16%
Age 20 to 24	770	811	839	970	159	20%
Age 25 to 29	635	846	783	910	64	8%
Age 30 to 34	862	854	915	997	143	17%
Age 35 to 39	1,083	919	1,225	1,196	277	30%
Age 40 to 44	1,096	923	932	1,032	109	12%
Age 45 to 49	1,041	1,115	965	1,322	207	19%
Age 50 to 54	936	1,222	1,047	1,113	-109	-9%
Age 55 to 59	720	1,089	1,166	1,058	-31	-3%
Age 60 to 64	598	1,046	1,342	1,192	146	14%
Age 65 to 69	554	769	1,143	1,247	478	62%
Age 70 to 74	518	575	983	1,303	728	127%
Age 75 to 79	458	433	597	890	457	106%
Age 80 to 84	363	422	470	793	371	88%
Age 85 and over	347	493	556	675	182	37%
Total Population	14,305	15,826	17,511	19,605	3,779	24%
Total age 5 to 17	2,951	2,930	3,154	3,357	427	15%
<i>share age 5 to 17</i>	20.6%	18.5%	18.0%	17.1%		

	2000-2010	2010-2020	2020-2030
Population Change	1,521	1,685	2,094
<i>Percent</i>	10.6%	10.6%	12.0%
<i>Average Annual</i>	1.0%	1.0%	1.1%

Source: U.S. Census Bureau, 2000 and 2010 Censuses; data aggregated to NSSD boundary by Portland State University Population Research Center. PSU-PRC Forecasts, 2020 and 2030.

Table A3
Population by Age Group, *HIGH SERIES* Forecast
North Santiam School District, 2000 to 2030

	2000 Census	2010 Census	2020 Forecast	2030 Forecast	2010 to 2030 Change	
					Number	Percent
Under Age 5	962	1,014	1,098	1,252	238	23%
Age 5 to 9	1,020	1,077	1,198	1,359	282	26%
Age 10 to 14	1,165	1,157	1,309	1,434	277	24%
Age 15 to 17	766	696	801	883	187	27%
Age 18 to 19	411	365	388	451	86	24%
Age 20 to 24	770	811	897	1,080	269	33%
Age 25 to 29	635	846	858	1,010	164	19%
Age 30 to 34	862	854	945	1,093	239	28%
Age 35 to 39	1,083	919	1,283	1,336	417	45%
Age 40 to 44	1,096	923	971	1,071	148	16%
Age 45 to 49	1,041	1,115	992	1,385	270	24%
Age 50 to 54	936	1,222	1,075	1,131	-91	-7%
Age 55 to 59	720	1,089	1,189	1,058	-31	-3%
Age 60 to 64	598	1,046	1,391	1,322	276	26%
Age 65 to 69	554	769	1,187	1,295	526	68%
Age 70 to 74	518	575	1,025	1,365	790	137%
Age 75 to 79	458	433	613	948	515	119%
Age 80 to 84	363	422	476	847	425	101%
Age 85 and over	347	493	556	685	192	39%
Total Population	14,305	15,826	18,252	21,005	5,179	33%
Total age 5 to 17	2,951	2,930	3,308	3,676	746	25%
share age 5 to 17	20.6%	18.5%	18.1%	17.5%		

	2000-2010	2010-2020	2020-2030
Population Change	1,521	2,426	2,753
Percent	10.6%	15.3%	15.1%
Average Annual	1.0%	1.4%	1.4%

Source: U.S. Census Bureau, 2000 and 2010 Censuses; data aggregated to NSSD boundary by Portland State University Population Research Center. PSU-PRC Forecasts, 2020 and 2030.

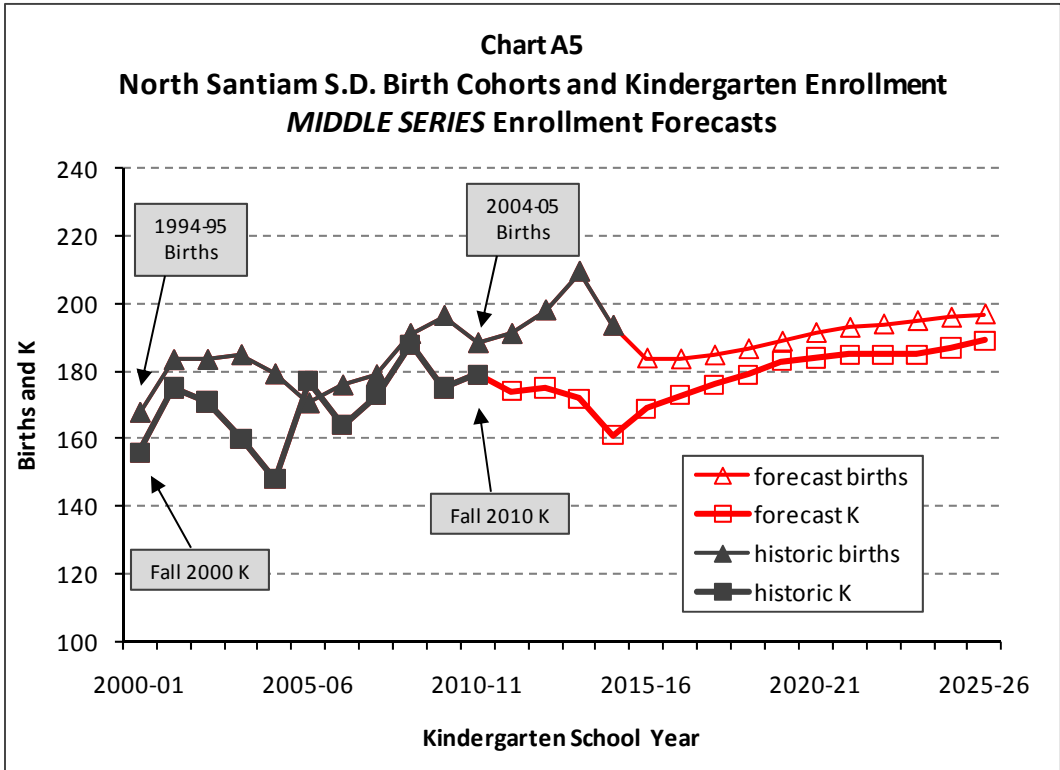
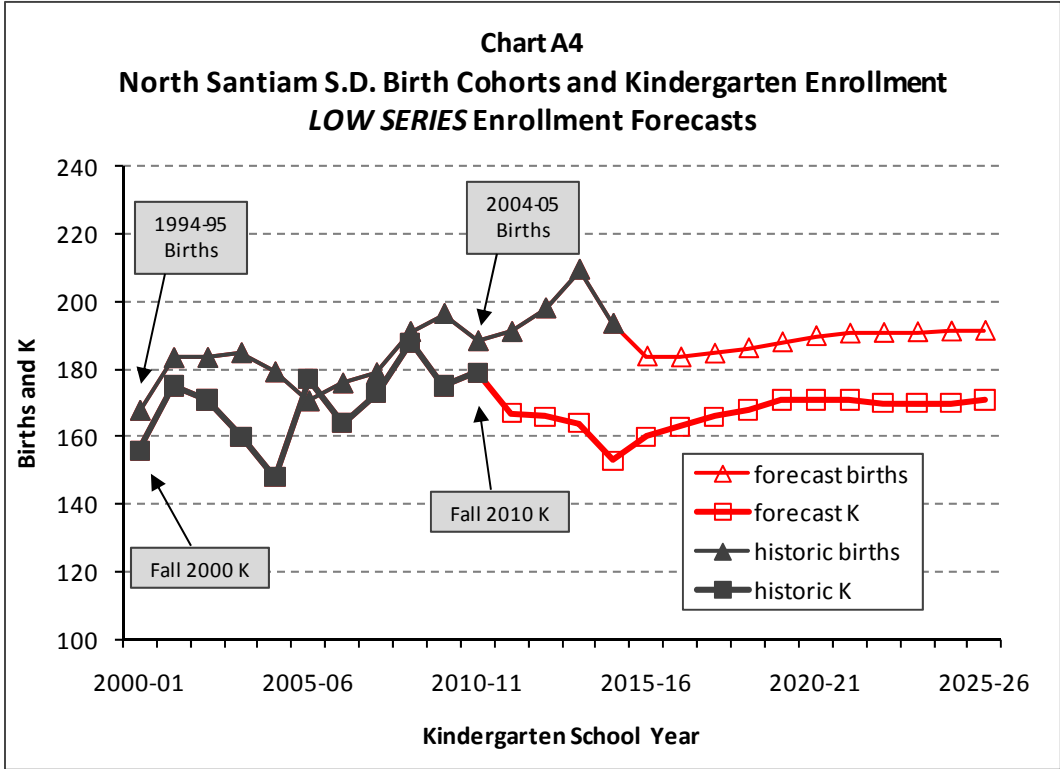


Chart A6
North Santiam S.D. Birth Cohorts and Kindergarten Enrollment
HIGH SERIES Enrollment Forecasts

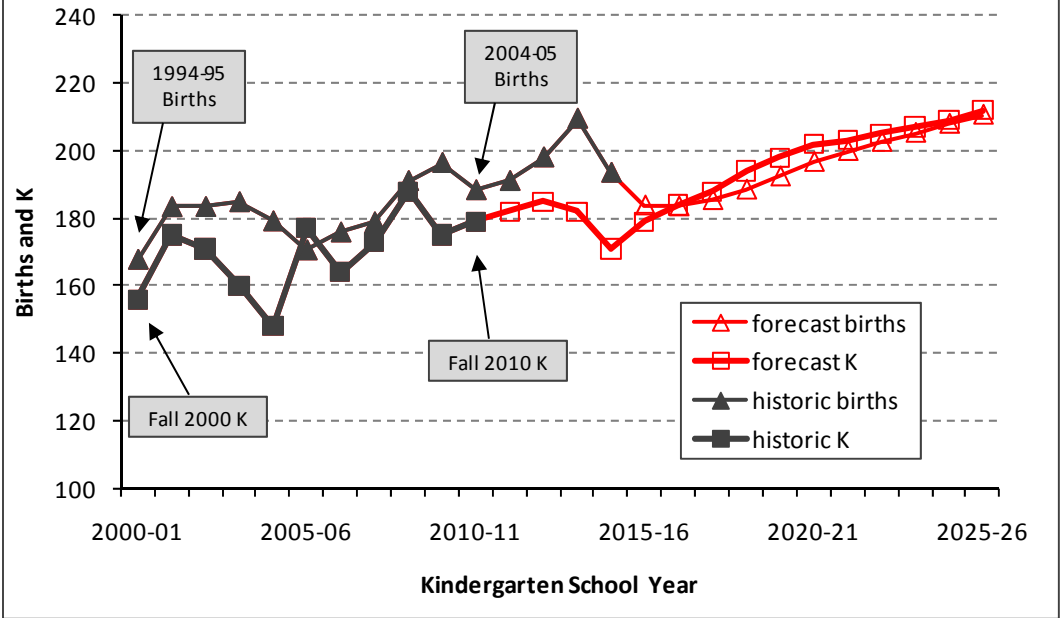


Table A4
North Santiam School District
LOW SERIES Enrollment Forecasts, 2011-12 to 2025-26

Historic		Forecast														
Grade	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
K	179	167	166	164	153	160	163	166	168	171	171	171	170	170	170	171
1	181	178	169	174	171	160	167	170	173	176	177	178	177	177	176	177
2	205	179	178	173	179	175	164	171	175	178	180	181	182	181	181	180
3	189	207	183	186	180	187	182	171	178	183	185	187	188	189	188	188
4	167	184	203	183	186	180	187	182	171	178	182	184	186	187	188	187
5	195	169	188	211	190	193	187	194	189	178	185	189	191	193	194	195
6	171	191	167	190	213	192	195	189	196	191	179	186	190	192	194	195
7	204	170	191	170	193	216	195	198	192	199	194	182	189	193	195	197
8	202	199	167	189	169	191	214	193	196	191	197	192	180	187	191	193
9	196	201	199	169	191	171	193	217	195	199	193	199	194	182	189	193
10	178	195	201	202	171	193	173	195	220	198	201	195	201	196	184	191
11	211	172	189	197	198	167	189	169	191	216	194	197	191	197	192	180
12	190	208	170	189	197	198	167	189	169	191	216	194	197	191	197	192
Total	2,468	2,420	2,371	2,397	2,391	2,383	2,376	2,404	2,413	2,449	2,454	2,435	2,436	2,435	2,439	2,439
<i>Annual change</i>		-48 -1.9%	-49 -2.0%	26 1.1%	-6 -0.3%	-8 -0.3%	-7 -0.3%	28 1.2%	9 0.4%	36 1.5%	5 0.2%	-19 -0.8%	1 0.0%	-1 0.0%	4 0.2%	0 0.0%
K-3	754	731	696	697	683	682	676	678	694	708	713	717	717	717	715	716
4-5	362	353	391	394	376	373	374	376	360	356	367	373	377	380	382	382
6-8	577	560	525	549	575	599	604	580	584	581	570	560	559	572	580	585
9-12	775	776	759	757	757	729	722	770	775	804	804	785	783	766	762	756

Population Research Center, Portland State University, September 2011.

Table A5
North Santiam School District
MIDDLE SERIES Enrollment Forecasts, 2011-12 to 2025-26

Grade	Historic		Forecast													
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
K	179	174	175	172	161	169	173	176	179	183	184	185	185	185	187	189
1	181	182	180	184	182	170	179	183	186	190	192	193	194	194	194	196
2	205	181	184	185	190	188	176	185	189	192	195	197	198	199	199	199
3	189	209	187	192	194	199	197	185	194	198	200	203	206	207	208	208
4	167	185	207	187	193	195	200	198	186	195	198	200	203	206	207	208
5	195	170	190	215	196	202	204	209	207	195	203	206	208	211	214	215
6	171	193	170	192	218	199	205	207	212	210	197	205	208	210	213	216
7	204	171	194	173	196	223	203	209	212	217	214	200	209	212	214	217
8	202	200	169	193	173	196	223	203	209	212	216	213	199	208	211	213
9	196	202	201	172	197	176	200	227	207	213	215	219	216	202	211	214
10	178	196	203	204	175	201	179	204	231	211	216	218	222	219	205	214
11	211	173	191	199	201	172	198	176	201	228	207	212	214	218	215	201
12	190	209	172	191	200	202	173	199	177	202	229	208	213	215	219	216
Total	2,468	2,445	2,423	2,459	2,476	2,492	2,510	2,561	2,590	2,646	2,666	2,659	2,675	2,686	2,697	2,706
<i>Annual change</i>		-23 -0.9%	-22 -0.9%	36 1.5%	17 0.7%	16 0.6%	18 0.7%	51 2.0%	29 1.1%	56 2.2%	20 0.8%	-7 -0.3%	16 0.6%	11 0.4%	11 0.4%	9 0.3%
K-3	754	746	726	733	727	726	725	729	748	763	771	778	783	785	788	792
4-5	362	355	397	402	389	397	404	407	393	390	401	406	411	417	421	423
6-8	577	564	533	558	587	618	631	619	633	639	627	618	616	630	638	646
9-12	775	780	767	766	773	751	750	806	816	854	867	857	865	854	850	845

Population Research Center, Portland State University, September 2011.

Table A6
North Santiam School District
HIGH SERIES Enrollment Forecasts, 2011-12 to 2025-26

	Historic		Forecast													
Grade	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
K	179	182	185	182	171	179	184	188	194	198	202	203	205	207	209	212
1	181	185	191	196	194	182	191	196	200	206	209	213	215	216	218	220
2	205	184	189	197	203	201	188	198	203	207	212	215	219	221	222	224
3	189	212	191	199	207	213	211	198	208	213	216	222	225	229	231	232
4	167	187	212	192	201	209	215	213	200	210	213	216	223	226	230	232
5	195	172	194	222	201	211	219	225	223	210	219	222	225	233	236	240
6	171	195	173	197	226	205	215	223	229	227	213	222	225	228	236	239
7	204	173	198	177	202	232	210	220	228	235	231	217	226	229	232	241
8	202	202	172	198	177	202	232	210	220	228	234	230	216	225	228	231
9	196	204	205	176	202	181	206	237	215	225	232	238	234	220	229	232
10	178	198	207	209	180	206	185	211	242	220	229	236	242	238	224	233
11	211	174	194	204	207	178	204	183	209	239	217	226	232	238	234	221
12	190	210	174	196	206	209	180	206	185	211	240	218	227	233	239	235
Total	2,468	2,478	2,485	2,545	2,577	2,608	2,640	2,708	2,756	2,829	2,867	2,878	2,914	2,943	2,968	2,992
<i>Annual change</i>		10 0.4%	7 0.3%	60 2.4%	32 1.3%	31 1.2%	32 1.2%	68 2.6%	48 1.8%	73 2.6%	38 1.3%	11 0.4%	36 1.3%	29 1.0%	25 0.8%	24 0.8%
K-3	754	763	756	774	775	775	774	780	805	824	839	853	864	873	880	888
4-5	362	359	406	414	402	420	434	438	423	420	432	438	448	459	466	472
6-8	577	570	543	572	605	639	657	653	677	690	678	669	667	682	696	711
9-12	775	786	780	785	795	774	775	837	851	895	918	918	935	929	926	921

Population Research Center, Portland State University, September 2011.

**Table A7
North Santiam School District, Enrollment Forecasts by School***

School	Actual	Forecast														
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
Mari-Linn (K-8)	206	207	205	210	207	212	217	219	219	220	222	224	227	230	232	234
K-3	96	100	102	101	98	97	96	97	99	101	103	105	106	107	108	108
4-5	46	37	43	49	53	51	52	51	49	49	50	51	53	53	53	54
6-8	64	70	60	60	56	64	69	71	71	70	69	68	68	70	71	72
Stayton Elem. (K-3)	480	467	447	455	449	448	447	448	460	469	477	480	484	485	486	489
Stayton Int./Mid. (4-8)	594	578	581	592	603	618	624	615	618	614	611	611	610	626	636	643
4-5	229	227	247	240	231	239	239	241	233	228	236	242	246	247	251	252
6-8	365	351	334	352	372	379	385	374	385	386	375	369	364	379	385	391
Sublimity (K-8)	413	413	423	436	444	463	472	473	477	489	489	487	489	491	493	495
K-3	178	179	177	177	180	181	182	184	189	193	191	193	193	193	194	195
4-5	87	91	107	113	105	107	113	115	111	113	115	113	112	117	117	117
6-8	148	143	139	146	159	175	177	174	177	183	183	181	184	181	182	183
Stayton High (9-12)	775	780	767	766	773	751	750	806	816	854	867	857	865	854	850	845
District Total	2,468	2,445	2,423	2,459	2,476	2,492	2,510	2,561	2,590	2,646	2,666	2,659	2,675	2,686	2,697	2,706

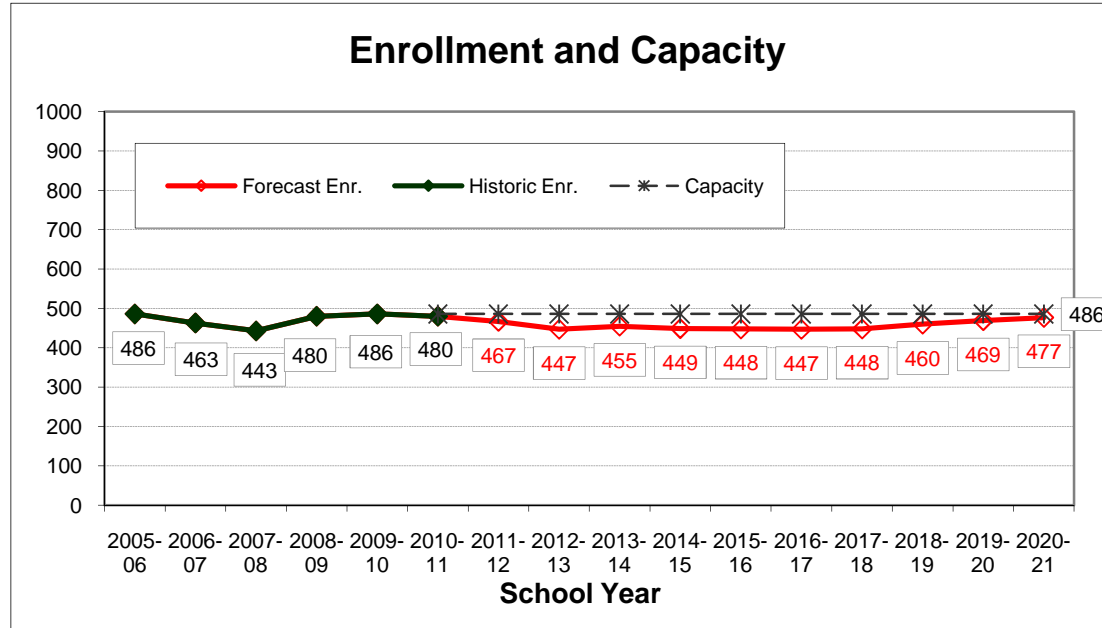
	5 Year Change: 2010-11 to 2015-16		10 Year Change: 2010-11 to 2020-21		15 Year Change: 2010-11 to 2025-26	
	Change	Pct.	Change	Pct.	Change	Pct.
Mari-Linn	6	3%	16	8%	28	14%
Stayton Elem.	-32	-7%	-3	-1%	9	2%
Sublimity	50	12%	76	18%	82	20%
Stayton Int./Mid.	24	4%	17	3%	49	8%
Stayton High	-24	-3%	92	12%	70	9%

*Enrollment forecasts for individual schools are consistent with the district-wide MIDDLE SERIES forecast.
Population Research Center, Portland State University, September 2011.

APPENDIX B

ENROLLMENT AND CAPACITY PROFILES FOR INDIVIDUAL SCHOOLS

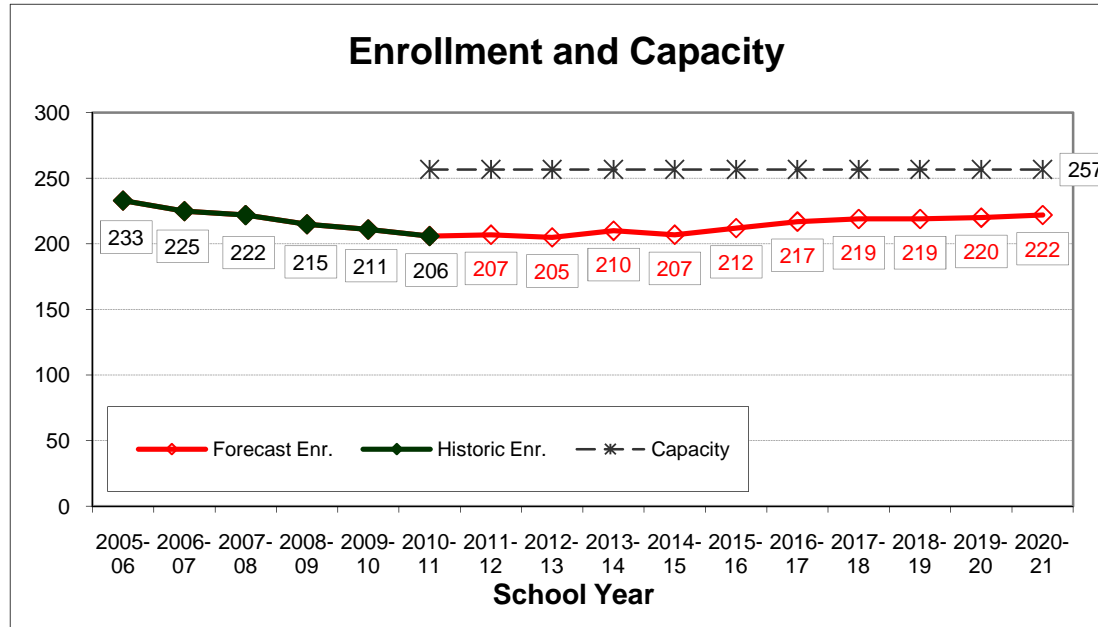
Stayton Elementary School



B-1

Enrollment History and Forecast												
	History		Forecast									
	2005-06	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Total enrollment	486	480	467	447	455	449	448	447	448	460	469	477
Five Year Change		-6					-32					29

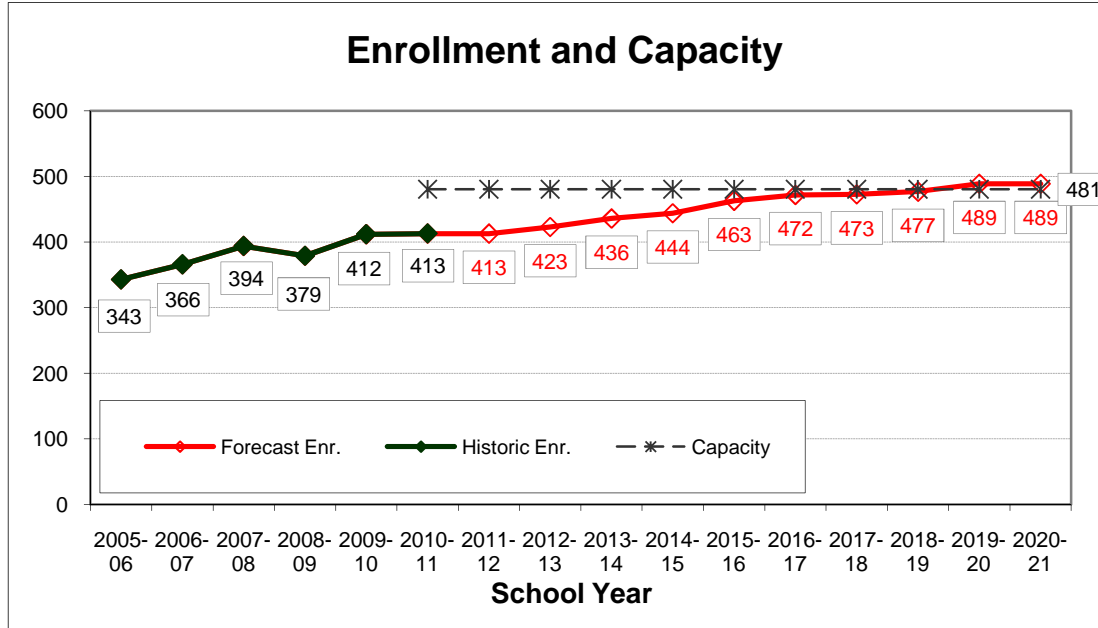
Mari-Linn Elementary School



B-2

Enrollment History and Forecast												
	History		Forecast									
	2005-06	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Total enrollment	233	206	207	205	210	207	212	217	219	219	220	222
Five Year Change		-27					6					10

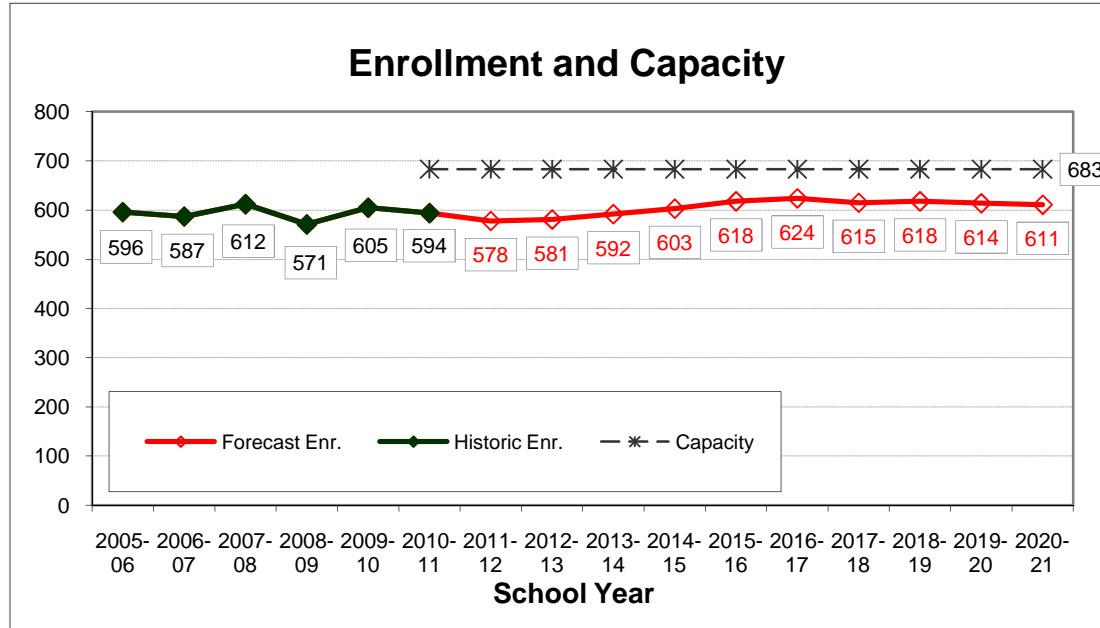
Sublimity Elementary School



B-3

Enrollment History and Forecast												
	History		Forecast									
	2005-06	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Total enrollment	343	413	413	423	436	444	463	472	473	477	489	489
Five Year Change		70					50					26

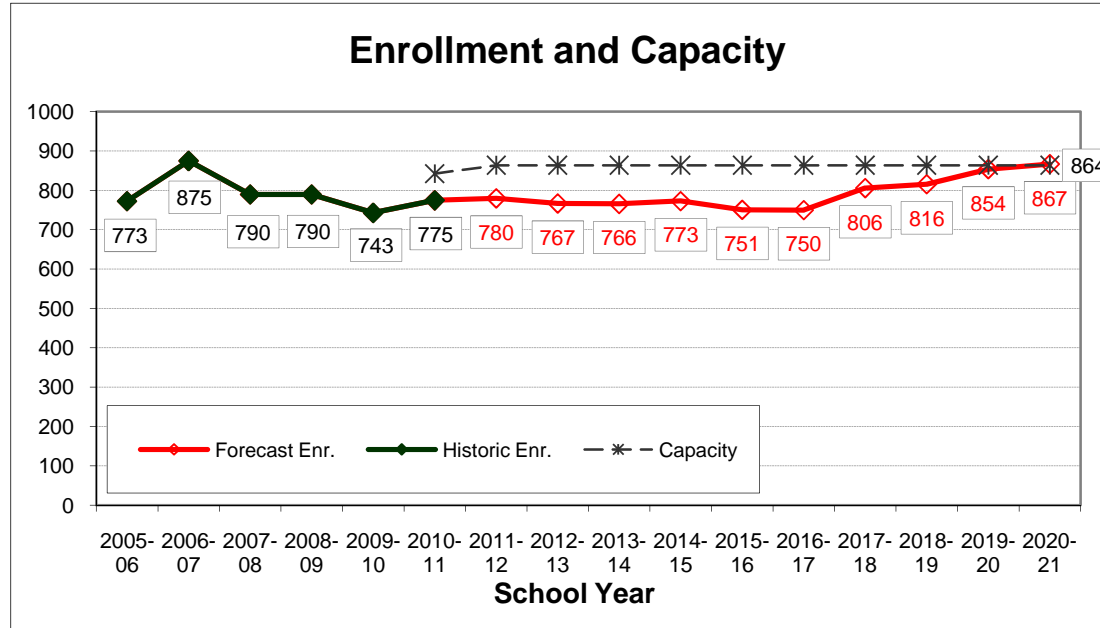
Stayton Middle/ Intermediate School



B-4

Enrollment History and Forecast												
	History		Forecast									
	2005-06	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Total enrollment	596	594	578	581	592	603	618	624	615	618	614	611
Five Year Change		-2					24					-7

Stayton High School



B-5

Enrollment History and Forecast												
	History		Forecast									
	2005-06	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Total enrollment	773	775	780	767	766	773	751	750	806	816	854	867
Five Year Change		2					-24					116

APPENDIX C

2000 and 2010 CENSUS COMPARISON PROFILE

2000 and 2010 Census Summary

North Santiam School District

Area approximation based on census block geography

POPULATION BY AGE GROUP	2000		2010		2000 to 2010 Change	
Total population	14,305	100.0%	15,826	100.0%	1,521	10.6%
Under age 18	3,913	27.4%	3,944	24.9%	31	0.8%
Age 18 and over	10,392	72.6%	11,882	75.1%	1,490	14.3%

AREA AND DENSITY

Land Area - Sq. Mi. (Source: 2010 Census)	150.3		150.3		0.0	0.0%
Persons per square mile	95.1		105.3		10.1	10.6%

HOUSING OCCUPANCY STATUS

Total housing units	5,446	100.0%	6,449	100.0%	1,003	18.4%
Occupied	5,160	94.7%	6,020	93.3%	860	16.7%
Vacant or Seasonal	286	5.3%	429	6.7%	143	50.0%

HISPANIC OR LATINO AND RACE¹

Total population	14,305	100.0%	15,826	100.0%	1,521	10.6%
Hispanic or Latino (of any race)	775	5.4%	1,414	8.9%	639	82.5%
Not Hispanic or Latino	13,530	94.6%	14,412	91.1%	882	6.5%
White Alone	12,984	90.8%	13,682	86.5%	698	5.4%
Black or African American Alone	17	0.1%	52	0.3%	35	205.9%
American Indian and Alaska Native Alone	170	1.2%	164	1.0%	-6	-3.5%
Asian Alone	67	0.5%	115	0.7%	48	71.6%
Native Hawaiian and Other Pacific Islander Alone	14	0.1%	22	0.1%	8	57.1%
Some Other Race Alone	11	0.1%	11	0.1%	0	0.0%
Two or More Races	267	1.9%	366	2.3%	99	37.1%

RACE ALONE OR IN COMBINATION²

Total population	14,305	100.0%	15,826	100.0%	1,521	10.6%
White	13,672	95.6%	14,866	93.9%	1,194	8.7%
Black or African American	47	0.3%	117	0.7%	70	148.9%
American Indian and Alaska Native	361	2.5%	423	2.7%	62	17.2%
Asian	120	0.8%	212	1.3%	92	76.7%
Native Hawaiian and Other Pacific Islander	55	0.4%	86	0.5%	31	56.4%
Some Other Race	410	2.9%	642	4.1%	232	56.6%

1. Data are shown for the Hispanic or Latino population, as well as for people who reported one race and for people who reported two or more races. The population of One Race is the total of the population in the 6 categories of one race. The population of Two or More Races is the total of the population in the 57 specific combinations of two or more races. The redistricting files include data for all 63 groups.

2. Data are shown for the 6 race alone or in combination categories. The concept "race alone or in combination" includes people who reported a single race alone (e.g., Asian) and people who reported that race in combination with one or more of the other major race groups (i.e., White, Black or African American, American Indian and Alaska Native, Native Hawaiian and Other Pacific Islander, and Some Other Race). The concept "race alone or in combination," therefore, represents the maximum number of people who reported as that major race group, either alone, or in combination with another race(s). The sum of the 6 individual race "alone or in combination" categories may add to more than the total population because people who reported more than one race were tallied in each race category.

Sources: U.S. Census Bureau, 2010 Census, Public Law 94-171 Summary File; 2000 Census, SF1.

Tabulated by Population Research Center, Portland State University.

www.pdx.edu/prc