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HILLSBORO SCHOOL DISTRICT DISTRICT-WIDE ENROLLMENT FORECAST 2016-17 TO 2030-31



MARCH, 2016

SUMMARY

The tables following this brief summary contain results of a demographic study conducted for the Hillsboro School District (HSD) by the Portland State University Population Research Center (PRC). Forecasts of district-wide enrollment annually from 2016-17 to 2030-31 under low, middle, and high growth scenarios constitute the core information requested by the District. Additional tables present information compiled in the course of developing forecasts, including recent population, housing and school enrollment trends.

Recent Enrollment Trends

Total K-12 enrollment in the HSD and its predecessor high school and elementary districts grew every year for more than 20 years, from the 1980s until 2011-12. Enrollment has declined in three out of four years since 2011-12; fall 2015 enrollment of 20,649 was 40 students less than in fall 2010.

The decline followed on the heels of the Great Recession. Job losses and the housing crisis discouraged the migration and mobility that typically contribute to growth in the Portland metro area. Other suburban districts including Tigard-Tualatin and North Clackamas experienced similar reversals, seeing flat enrollment or small K-12 losses after many years of rapid increase.

Since the 1990s, long term trends in birth rates have been characterized by declines for women under 30, and increases for women over 30. Birth rates have fallen more for Latinas compared with non-Latinas. However, population growth and a strong economy drove the number of births to record levels in the U.S., in Oregon, and in the HSD in 2007. As the recession set in, the number of births plunged, and calendar year 2013 births had declined by more than eight percent in the state and nation, and 12 percent in the HSD, when compared with the 2007 peak. The birth peak corresponds to the 2012-13 kindergarten cohort, with the decline contributing to smaller kindergarten classes in the District each year following 2012-13.

Long-Range Population and Household Forecasts

The HSD enrollment forecasts are linked to a long-range population forecast, using methodology described in the District-wide Enrollment Forecasts section of this report. The District adds about 33,000 residents between 2010 and 2030 in the middle series forecast, growing by 26 percent.

Using *headship rates* that measure the number of householders per person by age group, we are able to relate the population forecast to demand for new housing. Housing stock will grow faster than population in the next two decades due to lower birth rates and an aging population, though the rates of growth will depend on trends in household formation and the age and ethnic characteristics of families and individuals who move into the District. Based on the middle series 2030 forecast population by age group and headship rates measured in the 2010 Census, there will be a net increase of more than 16,000 households between 2010 and 2030.

To compare the HSD population forecast with local and regional plans, we allocated Transportation Analysis Zone (TAZ) household forecasts adopted by in Metro in November 2012 to an area approximating the HSD's boundaries.¹ The area adds about 13,400 households between 2010 and 2025, an average of just under 900 annually, and another 9,800 households between 2025 and 2035 (980 annually). The growth is similar to household growth implied in our forecast, which exceeds 800 per year averaged over the 2010 to 2030 period using 2010 headship rates, or closer to 900 per year if household formation among young adults rebounds to 2000 levels from the recession-era lows observed in 2010.

Metro's 2012 forecasts also were used to project housing growth in the January 2016 *Draft Housing Needs Analysis* prepared for the City of Hillsboro by ECONorthwest.² The report adapts the forecast to the 2016 to 2036 period, indicating need for 16,040 new housing units within the current city limits and South Hillsboro. Residential capacity within the same area ranges between 17,986 and 20,986 units, though the report indicates a deficit of capacity for single-family detached units.

¹ Regional Forecast Distribution Methodology & Assumptions. Population and Employment 2010-40 TAZ Forecast Distribution "Gamma Scenario". Metro, Attachment 6 (Staff Report to Ordinance no. 12-1292A), November 2012. Datasets and associated information at http://www.oregonmetro.gov/regional-2035-forecast-distribution.

² Draft – Hillsboro Housing Needs Analysis, ECONorthwest, January 2016. Report at http://plan.hillsboro-oregon.gov/document/housing-needs-analysis.

Part of the City of Hillsboro lies outside of the HSD boundaries, including the Amberglen and Tanasbourne areas that account for capacity of several thousand multiple family units. However, there is additional single family capacity within the HSD in the cities of Cornelius and North Plains. Recent UGB expansion areas in northeast and southeast Cornelius have capacity for 1,680 dwelling units, and are almost entirely within the HSD.³ Preliminary work done in 2014 to update the City of North Plains' comprehensive plan identified capacity of 664 residential units, given relatively low density development, or more if higher densities or mixed use development are included. Estimates will be revised after an economic development study and housing needs analysis are completed.⁴

Based on the current capacity within the cities' urban growth boundaries and a small amount of additional capacity within unincorporated rural areas, the district could accommodate the annual average growth of about 800 additional households implied by the middle series enrollment forecast within the 15 year forecast horizon. The estimate of additional households consistent with the low and high alternative forecasts is between 650 and 950 annually, using 2010 headship rates.

Enrollment Forecasts

In each of the three series, kindergarten enrollment remains below its 2012-13 peak for at least several years, resulting in enrollment change in primary (K-3rd) grades between 2015-16 and 2020-21 ranging from a loss of 329 students (five percent) in the low series to a loss of 28 students (0.4 percent) in the high series. Charts 3a-3c on pages 15 to 17 illustrate the relationship between births and kindergarten enrollment. These smaller cohorts result in relatively slow growth in K-12th grade overall throughout much of the forecast horizon, even as significant population and housing growth is expected in the Hillsboro vicinity and the greater Portland metro area.

In the middle series, all grade levels enroll more students in 2025-26 than in 2015-16, and growth in elementary and middle grades accelerates in the last five years, from 2025-26 to 2030-31, while 9th-12th grade enrollment remains relatively flat as the smaller cohorts now in primary grades enter high school.

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³ Ordinance No. 2015-06 SE UGB Comprehensive Plan Amendments and Ordinance No. 2015-07 NE UGB Comprehensive Plan Amendments, City of Cornelius.

⁴ Comprehensive Plan Map Related Code Updates, City of North Plains Planning Commission 8/13/14. Documents at http://cityofnp.org/index.php/departments/public-meetings/planning-commission/comprehensive-plan-update-process/

Table 1 and Chart 1 summarize the K-12 forecasts under each scenario, while Table 2 presents school level forecasts under the middle series. More detailed forecasts are included in Tables 9 to 11 on pages 18 to 20.

Table 1
Historic and Forecast K-12 Enrollment
Hillsboro School District

		Actual			Forecast			
	2005-06	2010-11	2015-16	2020-21	2025-26	2030-31*		
LOW SERIES 5 year change*	19,562	20,689 1,127	20,649 <i>-40</i>	20,903 <i>254</i>	21,000 <i>97</i>	21,105 <u>456</u>		
MID SERIES 5 year change*	19,562	20,689 1,127	20,649 -40	21,240 591	21,711 <i>471</i>	22,383 <u>1.734</u>		
HIGH SERIES 5 year change*	19,562	20,689 1,127	20,649 -40	21,614 <i>96</i> 5	22,558 <i>944</i>	23,804 <u>3.155</u>		

*Note: 2030-31 column shows change for entire 15 year forecast period.

Source: Historic enrollment, Hillsboro School District; Enrollment forecasts, Population Research Center, PSU, March 2016

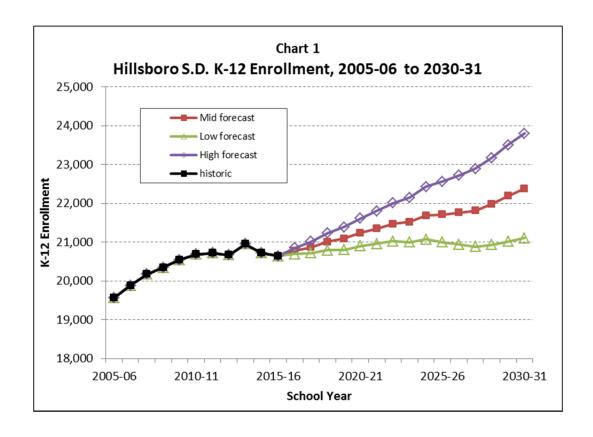


Table 2 **Historic and MIDDLE SERIES Forecast Enrollment Hillsboro School District by School Level**

		Actual			MIDDLE SERIES Forecast			
	2005-06	2010-11	2015-16	2020-21	2025-26	2030-31*		
K-6	10,839	11,368	11,212	11,195	11,539	12,121		
5 year change*		529	-156	-17	344	<u>909</u>		
7-8	2,904	3,165	3,074	3,433	3,277	3,424		
5 year change*		261	-91	359	-156	<u>350</u>		
9-12	5,819	6,156	6,363	6,612	6,895	6,838		
5 year change*		337	207	249	283	<u>475</u>		
Total	19,562	20,689	20,649	21,240	21,711	22,383		
5 year change		1,127	-40	591	471	<u>1.734</u>		

^{*}Note: 2030-31 column shows change for entire 15 year forecast period.

Source: Historic enrollment, Hillsboro School District; Enrollment forecasts, Population Research Center, PSU,

March 2016

Table 3
City and Region Population, 2000, 2010, and 2015

				Avg. Annual	Growth Rate
	2000	2010	2015	2000-2010	2010-2015
HSD Total ¹	104,261	125,486	135,257	1.9%	1.4%
City of North Plains	1,605	1,947	2,015	2.0%	0.7%
City of Hillsboro	70,186	91,611	97,480	2.7%	1.2%
HSD Portion	65,504	84,396	N/A	N/A	
City of Cornelius	9,652	11,869	11,900	2.1%	0.0%
HSD Portion	2,215	3,384	N/A	4.3%	
HSD Unincorporated	34,937	35,759	N/A	N/A	
Washington County	445,342	529,710	570,510	1.8%	1.4%
Portland-Vancouver- Hillsboro MSA ²	1,927,881	2,226,009	2,362,655	1.4%	1.1%

- 1. School District population determined by PSU-PRC based on aggregation of census blocks within the HSD boundary. The 2010 HSD population published by the Census Bureau is 125,462. The 2015 estimate is based on an extrapolation of 2010-2014 growth estimated by the Census Bureau. See http://www.census.gov/did/www/saipe.
- 2. Portland-Vancouver-Hillsboro MSA consists of Clackamas, Columbia, Multnomah, Washington, Yamhill (OR) and Clark and Skamania (WA) Counties.

Sources: U.S. Census Bureau, 2000 and 2010 censuses; Population Research Center, PSU, July 1, 2015 estimates; State of Washington, Office of Financial Management, April 1, 2015 estimates.

Table 4
Hillsboro School District
Housing and Household Characteristics, 2000 and 2010

			2000 to 20	10 Change
	2000	2010	Number	Percent
Housing Units	38,491	46,731	8,240	21%
Households	36,129	44,348	8,219	23%
Households with children under 18 share of total	15,270 <i>42%</i>	17,259 <i>39%</i>	1,989	13%
Households with no children under 18 share of total	20,859 <i>58%</i>	27,089 <i>61%</i>	6,230	30%
Household Population	102,987	123,809	20,822	20%
Persons per Household	2.85	2.79	-0.06	-2%

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

Table 5
Housing Units Authorized by Building Permits

	City of Hi	llsboro ¹	City of Cornelius ²		
Year Permit Issued	Single Family	Multiple Family	Single Family	Multiple Family	
1996	681	1137	96	2	
1997	745	1710	45	0	
1998	661	1298	133	0	
1999	618	95	42	0	
2000	623	373	14	0	
2001	526	92	6	17	
2002	661	306	78	14	
2003	726	852	43	0	
2004	688	128	75	53	
2005	838	230	117	3	
2006	1022	553	52	0	
2007	538	249	27	0	
2008	186	306	17	0	
2009	132	48	11	0	
2010	141	91	7	0	
2011	126	419	1	0	
2012	172	435	2	0	
2013	175	566	3	0	
2014	185	701	2	0	
2015 (preliminary)	191	616	2	0	

^{1.} Entire city, including a portion outside of the HSD. In 2010, 92 percent of the city's residents lived within the HSD. However, the multiple family column includes several hundred apartment units permitted since 2010 in the Beaverton S.D. portion of the city.

Source: U.S. Census Bureau, Residential Construction Branch. Data available online at http://censtats.census.gov/bldg/bldgprmt.shtml.

^{2.} Entire city, including a portion outside of the HSD. In 2010, 29 percent of the city's residents lived within the HSD.

Table 6
Residential Subdivisions and Planned Unit Developments by Attendance Area¹

Middle/High Area (2015-16)	Elementary Area (2015-16)	Record ID	Development Name ²	Lots
Brown/Century	Imlay	SUB-003-15	Lois Gardens	6
Brown/Century	Imlay	SUB-001-15	Madison Meadows	4
Brown/Century	Imlay	SUB-007-15	Meadow Grove (pending)	6
Brown/Century	Ladd Acres	DR-031-15	Johnson Street Townhomes*	6
Brown/Century	Ladd Acres	SUB-003-14	Colby Ridge	8
Brown/Century	Ladd Acres	PUD-002-15	Langwood Crossing	24
Evergreen/Glencoe	Mckinney	SUB-04-14	Honey Crest Meadows	18
Evergreen/Glencoe	Mckinney	SUB-002-15	Glen View	8
Evergreen/Glencoe	Patterson	SUB-016-14	Keystone Grove	5
Evergreen/Glencoe	Patterson	SUB-015-14	Milne Street	9
Evergreen/Glencoe	Patterson	PUD-002-14	Offinga Hollow No. 1	6
Poynter/Liberty	Eastwood	SUB-006-15	Skipper Estates	6
Poynter/Liberty	Orenco	SUB-012-14	Kalahari Ridge No. 2*	5
Poynter/Liberty	Orenco	SUB-009-14	Ring's Hill Ridge	13
Poynter/Liberty	Quatama	SUB-010-14	Pohlman Woods	42
Poynter/Liberty	Quatama	SUB-011-14	Hawthorn Glen No. 2*	5
S. Meadows/Hillsboro	Brookwood	SUB-001-16	Brookwood Court (pending)	5
S. Meadows/Hillsboro	Brookwood	SUB-008-14	Brookwood Glen Subdivision	17
S. Meadows/Hillsboro	Brookwood	SUB-005-15	Brookwood Glen Addition	8
S. Meadows/Hillsboro	Brookwood	SUB-004-15	Brookwood Landing	5
S. Meadows/Hillsboro	Brookwood	SUB-008-15	Brookwood Landing No. 2 (pending)	15
S. Meadows/Hillsboro	Minter Bridge	SUB-001-14	Meier Woods*	39
S. Meadows/Hillsboro	Minter Bridge	PUD-003-14	Jackson Hollow (pending)	28
S. Meadows/Hillsboro	Rosedale	PUD-004-14	Overlook	23
S. Meadows/Hillsboro	Witch Hazel	SUB-013-14	River Bend	92
S. Meadows/Hillsboro	Witch Hazel	PUD-001-15	Brookwood Meadows	21

 $^{1. \} SUB\ and\ PUD\ applications\ submitted\ to\ the\ City\ of\ Hillsboro\ between\ 1/1/2014\ and\ 2/24/2016,\ excluding\ development\ outside\ of\ Hillsboro\ School\ District.$

Sources: Compiled by Population Research Center, PSU; based on information from Hillsboro Planning Department and Metro Regional Land Inventory System (RLIS).

^{2.} Developments that had been platted as of late 2015 are identified by an *asterisk. Those identified as pending had not gained final approval as of 2/24/2016.

Table 7
Multiple Family Developments by Attendance Area¹

Middle/High Area (2015-16)	Elementary Area (2015-16)	Record ID	Development Name ²	Units
Evergreen/Glencoe	Lincoln Street	DR-060-15	4th Avenue Apartments (pending)	12
Evergreen/Glencoe	Lincoln Street	DR-060-15	Brighton Place Apartments (pending)	13
Poynter/Liberty	Mooberry	DR-028-14	Pinewood Apartments addition	5
Poynter/Liberty	Orenco	DR-049-15	Orenco Flats	36
Poynter/Liberty	Orenco	DR-062-15	Quatama Woods Apartments (pending)	28
Poynter/Liberty	Orenco	DR-050-14	Sequoia Village Rowhomes	157
Poynter/Liberty	Quatama	DR-043014	REACH Orchards at Orenco Phase 2*	58
Poynter/Liberty	Quatama	DR-013-14	West Podium Building*	220

 $^{1. \} Design \ Review \ applications \ submitted \ to \ the \ City \ of \ Hills boro \ between \ 1/1/2014 \ and \ 2/24/2016, \ excluding \ development \ outside \ of \ Hills boro \ School \ District.$

Sources: Compiled by Population Research Center, PSU; based on information from Hillsboro Planning Department and Metro Regional Land Inventory System (RLIS).

^{2.} Developments that had been permitted as of late 2015 are identified by an *asterisk. Those identified as pending had not gained final approval as of 2/24/2016.

Table 8
Hillsboro School District, Historic Enrollment, 2005-06 to 2015-16

Grade	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
K	1,549	1,591	1,522	1,595	1,577	1,690	1,554	1,630	1,609	1,576	1,501
1	1,614	1,581	1,676	1,571	1,674	1,632	1,731	1,557	1,666	1,643	1,657
2	1,535	1,606	1,613	1,701	1,561	1,669	1,599	1,697	1,543	1,661	1,657
3	1,578	1,534	1,629	1,600	1,700	1,541	1,681	1,582	1,688	1,525	1,671
4	1,543	1,569	1,537	1,611	1,604	1,661	1,520	1,628	1,598	1,653	1,525
5	1,520	1,548	1,588	1,555	1,605	1,579	1,639	1,536	1,657	1,569	1,638
6	1,500	1,527	1,554	1,586	1,573	1,596	1,568	1,589	1,561	1,619	1,563
7	1,454	1,500	1,561	1,554	1,613	1,565	1,601	1,525	1,606	1,508	1,567
8	1,450	1,472	1,535	1,573	1,571	1,600	1,563	1,593	1,553	1,605	1,507
9	1,553	1,542	1,556	1,576	1,646	1,606	1,660	1,613	1,692	1,588	1,639
10	1,495	1,512	1,578	1,541	1,546	1,631	1,587	1,636	1,597	1,655	1,578
11	1,360	1,456	1,441	1,517	1,470	1,492	1,570	1,549	1,608	1,549	1,603
12	1,266	1,307	1,373	1,368	1,409	1,427	1,426	1,531	1,551	1,552	1,526
US*	145	142	14	0	0	0	24	0	22	16	17
Total	19,562	19,887	20,177	20,348	20,549	20,689	20,723	20,666	20,951	20,719	20,649
Annual ch	22000	325	290	171	201	140	34	-57	285	-232	-70
Annual ch	iange	1.7%	1.5%	0.8%	1.0%	0.7%	0.2%	-0.3%	1.4%	-1.1%	-0.3%
K-3	6,276	6,312	6,440	6,467	6,512	6,532	6,565	6,466	6,506	6,405	6,486
4-6	4,563	4,644	4,679	4,752	4,782	4,836	4,727	4,753	4,816	4,841	4,726
7-8	2,904	2,972	3,096	3,127	3,184	3,165	3,164	3,118	3,159	3,113	3,074
9-12	5,819	5,959	5,962	6,002	6,071	6,156	6,267	6,329	6,470	6,360	6,363

	2005-06 to	2010-11	2010-11 to 2015-16		
	5 yr. chg.	Pct.	5 yr. chg.	Pct.	
K-3	256	4.1%	-46	-0.7%	
4-6	273	6.0%	-110	-2.3%	
7-8	261	9.0%	-91	-2.9%	
9-12	337	5.8%	207	3.4%	
Гotal	1,127	5.8%	-40	-0.2%	

2005-06 to 2015-16				
10 yr. chg.	Pct.			
210	3.3%			
163	3.6%			
170	5.9%			
544	9.3%			
1,087	5.6%			

*Note: "US" is ungraded secondary; included in grade 9-12 totals.

Source: Hillsboro School District

DISTRICT-WIDE ENROLLMENT FORECASTS

District-wide Long-range Forecast Methodology

To ensure that enrollment forecasts are consistent with the dynamics of likely population growth within the District, we combine the grade progression enrollment model 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 were 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 2010) and comparing the "survived" population to the actual 2010 population by age group, we were 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.

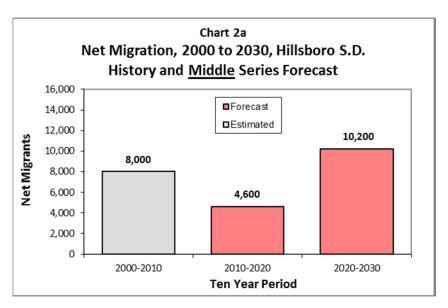
We estimated the number of births to women residing within the District each year from 2000 to 2014, using data from the Oregon Department of Human Services, Center for Health Statistics. Detailed information including the age of mothers is used to calculate fertility rates by age group for both 2000 and 2010. The total fertility rate (TFR) is an estimate of the number of children that would be born to the average woman during her child-bearing years based on age-specific fertility rates observed at a given time. The estimated TFR for the District fell from 2.39 in 2000 to 2.05 in 2010. Continued declines estimated since 2010 in rates for women under 30 outpace increases for women 30 and over, so age-specific fertility rates used for 2015 and beyond correspond to a TFR of 2.00, slightly lower than the 2010 rate.

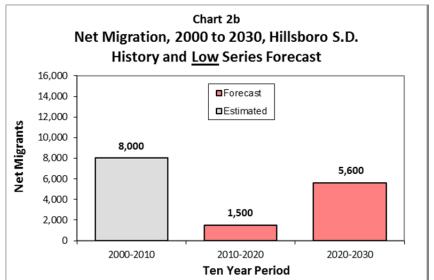
Historic school enrollment is linked to the population forecast in two ways. First, the kindergarten and first grade enrollments at the time of the most recent census (the 2009-10 school year) are compared to the population at the appropriate ages counted in the census. The "capture rate," or ratio of enrollment

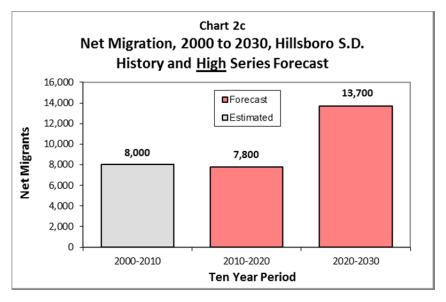
to population, is an estimate of the share of area children who are enrolled in HSD schools. Assumptions for capture rates based on census data are used to bring new kindergarten and first grade students into the District's enrollment. If there is evidence that capture rates have changed since the time of the census, they may be adjusted in the forecast. Capture rates in all three forecast scenarios stabilize at 0.82 for kindergarten and 0.85 for 1st grade. A rate of 0.85 implies that 15 percent of HSD school age residents are enrolled in private schools, other districts, or are home schooled.

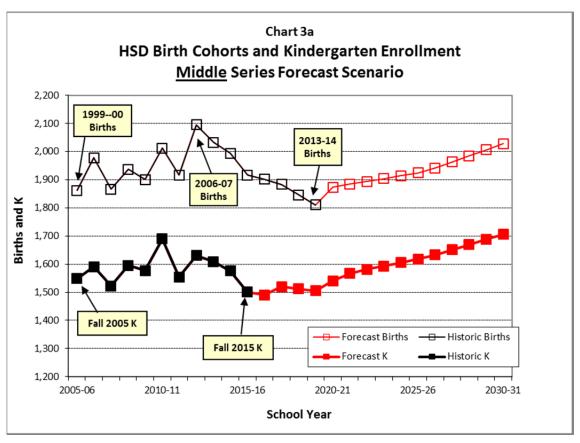
The other way that historic population and enrollment are linked is through migration. Annual changes in school enrollment by cohort closely follow trends in the net migration of children in the District's population. Once the students are in first grade, a set of baseline grade progression rates (GPRs) are used to move students from one grade to the next. Grade progression rates are the ratio of enrollment in an individual grade to enrollment in the previous grade the previous year. Baseline rates of 1.00 for 2nd through 8th grades, 1.04 for 9th grade, 0.99 for 10th grade, and 0.98 for 11th and 12th grade are applied to represent a scenario under which there is no change due to migration. Rates higher than 1.00 occur when students more students enter than leave the public school system, and rates lower than 1.00 can occur when more students leave, including dropouts. In all cases, these are the rates that would occur if no one were moving into or out of the District. 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.

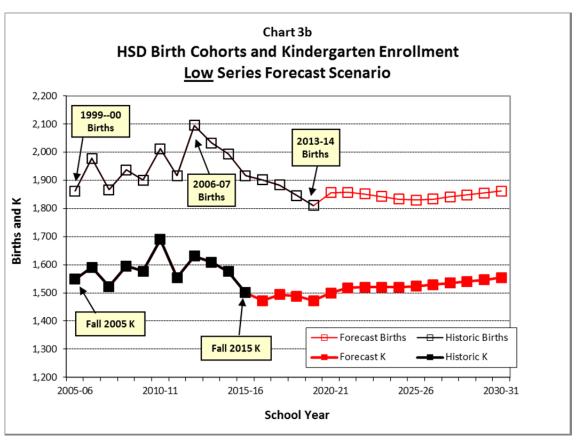
Charts 2a-2c and 3a-3c illustrate the migration and birth assumptions used in the forecasts. Tables 9, 10, and 11 provide detailed forecasts by year and grade for each of the three scenarios. Table 12 compares fall 2015 enrollment with forecasts prepared by PRC in spring 2012. Actual K-12 enrollment has lagged behind all three 2012 scenarios, as the housing recovery has taken longer than expected, and small enrollment losses occurred in three of the four years since 2012.











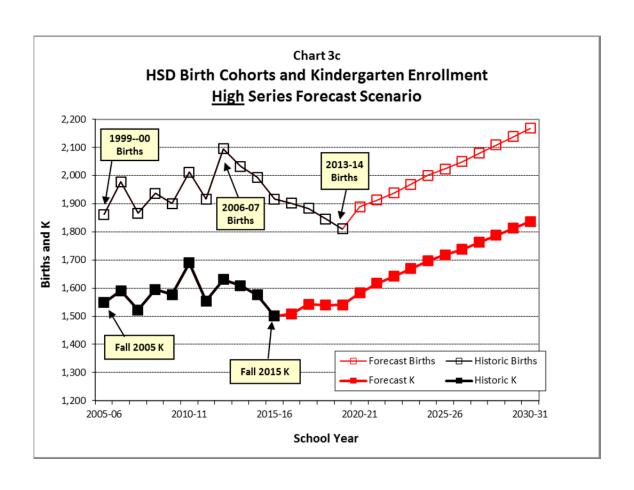


Table 9 Hillsboro School District MIDDLE SERIES Enrollment Forecasts, 2016-17 to 2030-31

	Actual								Forecast							
Grade	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
K	1,501	1,490	1,520	1,512	1,505	1,541	1,567	1,581	1,593	1,605	1,618	1,633	1,651	1,669	1,688	1,706
1	1,657	1,570	1,554	1,585	1,578	1,570	1,606	1,633	1,647	1,660	1,673	1,686	1,701	1,720	1,739	1,759
2	1,657	1,667	1,579	1,563	1,594	1,586	1,578	1,614	1,642	1,656	1,669	1,682	1,695	1,710	1,729	1,748
3	1,671	1,667	1,677	1,588	1,572	1,602	1,594	1,586	1,623	1,651	1,665	1,678	1,691	1,704	1,719	1,738
4	1,525	1,682	1,678	1,688	1,598	1,581	1,611	1,603	1,595	1,632	1,660	1,674	1,687	1,700	1,713	1,728
5	1,638	1,535	1,693	1,689	1,699	1,607	1,590	1,620	1,612	1,604	1,641	1,669	1,683	1,696	1,709	1,723
6	1,563	1,649	1,545	1,704	1,700	1,708	1,616	1,599	1,629	1,621	1,613	1,650	1,678	1,692	1,705	1,719
7	1,567	1,573	1,660	1,555	1,715	1,709	1,717	1,625	1,608	1,638	1,630	1,622	1,659	1,687	1,701	1,714
8	1,507	1,577	1,583	1,671	1,565	1,724	1,718	1,726	1,634	1,617	1,647	1,639	1,631	1,668	1,696	1,710
9	1,639	1,577	1,651	1,657	1,749	1,635	1,801	1,795	1,804	1,707	1,690	1,721	1,713	1,704	1,743	1,772
10	1,578	1,633	1,571	1,645	1,651	1,739	1,625	1,790	1,784	1,793	1,697	1,680	1,711	1,703	1,694	1,733
11	1,603	1,556	1,610	1,549	1,622	1,625	1,711	1,599	1,761	1,755	1,764	1,670	1,653	1,684	1,676	1,667
12	1,526	1,581	1,534	1,587	1,527	1,596	1,599	1,684	1,573	1,733	1,727	1,736	1,643	1,626	1,657	1,649
US*	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Total	20,649	20,774	20,872	21,010	21,092	21,240	21,350	21,472	21,522	21,689	21,711	21,757	21,813	21,980	22,186	22,383
Annual c	hango	125	98	138	82	148	110	122	50	167	22	46	56	167	206	197
Aiiiiuai C	ilalige	0.6%	0.5%	0.7%	0.4%	0.7%	0.5%	0.6%	0.2%	0.8%	0.1%	0.2%	0.3%	0.8%	0.9%	0.9%
K-3	6,486	6,394	6,330	6,248	6,249	6,299	6,345	6,414	6,505	6,572	6,625	6,679	6,738	6,803	6,875	6,951
4-6	4,726	4,866	4,916	5,081	4,997	4,896	4,817	4,822	4,836	4,857	4,914	4,993	5,048	5,088	5,127	5,170
7-8	3,074	3,150	3,243	3,226	3,280	3,433	3,435	3,351	3,242	3,255	3,277	3,261	3,290	3,355	3,397	3,424
9-12	6,363	6,364	6,383	6,455	6,566	6,612	6,753	6,885	6,939	7,005	6,895	6,824	6,737	6,734	6,787	6,838

	2015-16 to	2020-21	2020-21 to 2025-2			
	5 yr. chg.	Pct.	5 yr. chg.	Pct.		
K-3	-187	-3%	326	5%		
4-6	170	4%	18	0%		
7-8	359	12%	-156	-5%		
9-12	249	4%	283	4%		
Total	591	3%	471	2%		

2015-16 to 2025-26						
10 yr. chg	Pct.					
139	2%					
188	4%					
203	7%					
532	8%					
1,062	5%					

2015-16 to 2030-31							
15 yr. chg	Pct.						
465	7%						
444	9%						
350	11%						
475	7%						
1,734	8%						

*Note: "US" is ungraded secondary; included in grade 9-12 totals.

Population Research Center, Portland State University, March 2016

Table 10 Hillsboro School District LOW SERIES Enrollment Forecasts, 2016-17 to 2030-31

	Actual								Forecast							
Grade	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
K	1,501	1,472	1,494	1,488	1,472	1,500	1,518	1,520	1,520	1,520	1,523	1,529	1,535	1,541	1,546	1,554
1	1,657	1,556	1,532	1,555	1,549	1,534	1,561	1,580	1,583	1,582	1,582	1,585	1,592	1,598	1,604	1,611
2	1,657	1,663	1,561	1,537	1,560	1,556	1,541	1,568	1,587	1,590	1,589	1,589	1,592	1,599	1,605	1,612
3	1,671	1,663	1,669	1,566	1,542	1,567	1,563	1,548	1,575	1,594	1,597	1,596	1,596	1,599	1,606	1,613
4	1,525	1,677	1,669	1,675	1,572	1,549	1,574	1,570	1,555	1,582	1,601	1,604	1,603	1,603	1,606	1,615
5	1,638	1,531	1,684	1,676	1,682	1,579	1,556	1,581	1,577	1,562	1,589	1,608	1,611	1,610	1,610	1,615
6	1,563	1,644	1,537	1,691	1,683	1,690	1,586	1,563	1,588	1,584	1,569	1,596	1,615	1,618	1,617	1,619
7	1,567	1,569	1,650	1,543	1,698	1,690	1,697	1,593	1,570	1,595	1,591	1,576	1,603	1,622	1,625	1,626
8	1,507	1,573	1,575	1,656	1,549	1,705	1,697	1,704	1,600	1,577	1,602	1,598	1,583	1,610	1,629	1,634
9	1,639	1,573	1,642	1,644	1,729	1,617	1,780	1,771	1,779	1,670	1,646	1,672	1,668	1,652	1,680	1,702
10	1,578	1,628	1,563	1,631	1,633	1,717	1,606	1,768	1,759	1,767	1,658	1,635	1,660	1,656	1,641	1,670
11	1,603	1,552	1,601	1,537	1,604	1,605	1,688	1,579	1,738	1,729	1,737	1,630	1,607	1,632	1,628	1,615
12	1,526	1,576	1,526	1,574	1,511	1,577	1,578	1,659	1,552	1,708	1,699	1,707	1,602	1,580	1,604	1,602
US*	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Total	20,649	20,694	20,720	20,790	20,801	20,903	20,962	21,021	21,000	21,077	21,000	20,942	20,884	20,937	21,018	21,105
Annual c	hange	45	26	70	11	102	59	59	-21	77	-77	-58	-58	53	81	87
Aiiiuai C	ilalige	0.2%	0.1%	0.3%	0.1%	0.5%	0.3%	0.3%	-0.1%	0.4%	-0.4%	-0.3%	-0.3%	0.3%	0.4%	0.4%
K-3	6,486	6,354	6,256	6,146	6,123	6,157	6,183	6,216	6,265	6,286	6,291	6,299	6,315	6,337	6,361	6,390
4-6	4,726	4,852	4,890	5,042	4,937	4,818	4,716	4,714	4,720	4,728	4,759	4,808	4,829	4,831	4,833	4,849
7-8	3,074	3,142	3,225	3,199	3,247	3,395	3,394	3,297	3,170	3,172	3,193	3,174	3,186	3,232	3,254	3,260
9-12	6,363	6,346	6,349	6,403	6,494	6,533	6,669	6,794	6,845	6,891	6,757	6,661	6,554	6,537	6,570	6,606

	2015-16 to	2015-16 to 2020-21		
	5 yr. chg.	Pct.	5 yr. chg.	Pct.
K-3	-329	-5%	134	2%
4-6	92	2%	-59	-1%
7-8	321	10%	-202	-6%
9-12	170	3%	224	3%
Total	254	1%	97	0%

2015-16 to 2025-26							
10 yr. chg	Pct.						
-195	-3%						
33	1%						
119	4%						
394	6%						
351	2%						

2015-16 to 2030-31						
15 yr. chg	Pct.					
-96	-1%					
123	3%					
186	6%					
243	4%					
456	2%					

*Note: "US" is ungraded secondary; included in grade 9-12 totals.

Population Research Center, Portland State University, March 2016

Table 11 Hillsboro School District HIGH SERIES Enrollment Forecasts, 2016-17 to 2030-31

	Actual								Forecast							
Grade	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
K	1,501	1,509	1,543	1,539	1,540	1,583	1,617	1,642	1,669	1,696	1,718	1,738	1,763	1,788	1,813	1,837
1	1,657	1,584	1,575	1,615	1,613	1,610	1,652	1,687	1,714	1,742	1,769	1,792	1,814	1,840	1,866	1,891
2	1,657	1,671	1,597	1,588	1,628	1,625	1,622	1,664	1,699	1,727	1,755	1,782	1,805	1,827	1,854	1,879
3	1,671	1,671	1,685	1,611	1,602	1,640	1,637	1,634	1,676	1,711	1,739	1,768	1,795	1,818	1,840	1,866
4	1,525	1,686	1,686	1,700	1,625	1,614	1,652	1,649	1,646	1,689	1,724	1,752	1,781	1,809	1,832	1,853
5	1,638	1,539	1,702	1,702	1,716	1,637	1,626	1,664	1,661	1,658	1,702	1,737	1,765	1,794	1,823	1,845
6	1,563	1,653	1,553	1,717	1,717	1,729	1,650	1,638	1,677	1,674	1,671	1,715	1,750	1,779	1,808	1,836
7	1,567	1,578	1,669	1,568	1,733	1,730	1,742	1,662	1,650	1,690	1,687	1,683	1,728	1,763	1,792	1,821
8	1,507	1,581	1,592	1,684	1,582	1,746	1,743	1,755	1,675	1,662	1,703	1,700	1,696	1,741	1,776	1,805
9	1,639	1,582	1,659	1,671	1,768	1,657	1,829	1,826	1,838	1,755	1,741	1,784	1,781	1,777	1,824	1,859
10	1,578	1,637	1,580	1,657	1,669	1,763	1,652	1,824	1,821	1,833	1,750	1,736	1,779	1,776	1,772	1,818
11	1,603	1,560	1,619	1,562	1,638	1,647	1,740	1,630	1,800	1,797	1,809	1,727	1,713	1,756	1,753	1,748
12	1,526	1,585	1,542	1,601	1,544	1,616	1,625	1,717	1,609	1,776	1,773	1,785	1,704	1,690	1,733	1,729
US*	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
Total	20,649	20,853	21,019	21,232	21,392	21,614	21,804	22,009	22,152	22,427	22,558	22,716	22,891	23,175	23,503	23,804
Annual c	hange	204	166	213	160	222	190	205	143	275	131	158	175	284	328	301
Aiiiuai C	ilalige	1.0%	0.8%	1.0%	0.8%	1.0%	0.9%	0.9%	0.6%	1.2%	0.6%	0.7%	0.8%	1.2%	1.4%	1.3%
K-3	6,486	6,435	6,400	6,353	6,383	6,458	6,528	6,627	6,758	6,876	6,981	7,080	7,177	7,273	7,373	7,473
4-6	4,726	4,878	4,941	5,119	5,058	4,980	4,928	4,951	4,984	5,021	5,097	5,204	5,296	5,382	5,463	5,534
7-8	3,074	3,159	3,261	3,252	3,315	3,476	3,485	3,417	3,325	3,352	3,390	3,383	3,424	3,504	3,568	3,626
9-12	6,363	6,381	6,417	6,508	6,636	6,700	6,863	7,014	7,085	7,178	7,090	7,049	6,994	7,016	7,099	7,171

	2015-16 to	2020-21	2020-21 to 2025-26				
	5 yr. chg.	Pct.	5 yr. chg.	Pct.			
K-3	-28	0%	523	8%			
4-6	254	5%	117	2%			
7-8	402	13%	-86	-2%			
9-12	337	5%	390	6%			
Total	965	5%	944	4%			

2015-16 to 2025-26						
10 yr. chg	Pct.					
495	8%					
371	8%					
316	10%					
727	11%					
1,909	9%					

2015-16 to 2030-31						
15 yr. chg	Pct.					
987	15%					
808	17%					
552	18%					
808	13%					
3,155	15%					

*Note: "US" is ungraded secondary; included in grade 9-12 totals.

Population Research Center, Portland State University, March 2016

Table 12
Fall 2015 Enrollment Compared to Previous Forecasts By Grade Level¹

Grade		Low Growth Forecast		Medium Growth Forecast			High Growth Forecast			
	Actual	Fcst.	Diff.	Error	Fcst.	Diff.	Error	Fcst.	Diff.	Error
K	1,501	1,593	92	6.1%	1,613	112	7.5%	1,626	125	8.3%
1	1,657	1,643	-14	-0.8%	1,676	19	1.1%	1,699	42	2.5%
2	1,657	1,646	-11	-0.7%	1,682	25	1.5%	1,705	48	2.9%
3	1,671	1,661	-10	-0.6%	1,712	41	2.5%	1,737	66	3.9%
4	1,525	1,585	60	3.9%	1,624	99	6.5%	1,657	132	8.7%
5	1,638	1,713	75	4.6%	1,742	104	6.3%	1,776	138	8.4%
6	1,563	1,580	17	1.1%	1,610	47	3.0%	1,643	80	5.1%
7	1,567	1,676	109	7.0%	1,712	145	9.3%	1,747	180	11.5%
8	1,507	1,531	24	1.6%	1,564	57	3.8%	1,594	87	5.8%
9	1,639	1,717	78	4.8%	1,753	114	7.0%	1,780	141	8.6%
10	1,578	1,642	64	4.1%	1,677	99	6.3%	1,695	117	7.4%
11	1,603	1,592	-11	-0.7%	1,628	25	1.6%	1,640	37	2.3%
12	1,526	1,491	-35	-2.3%	1,526	0	0.0%	1,535	9	0.6%
US	17	24	7	41.2%	24	7	41.2%	24	7	41.2%
Total	20,649	21,094	445	2.2%	21,543	894	4.3%	21,858	1,209	5.9%
MAPE ² 2.9%		4.3%			5.9%					

^{1.} Forecast for 2015-16 by PSU-PRC, baseline 2011-12 enrollment (four year horizon).

^{2.} Mean absolute percent error for individual grades.