

# Puyallup School District Trends & Projections

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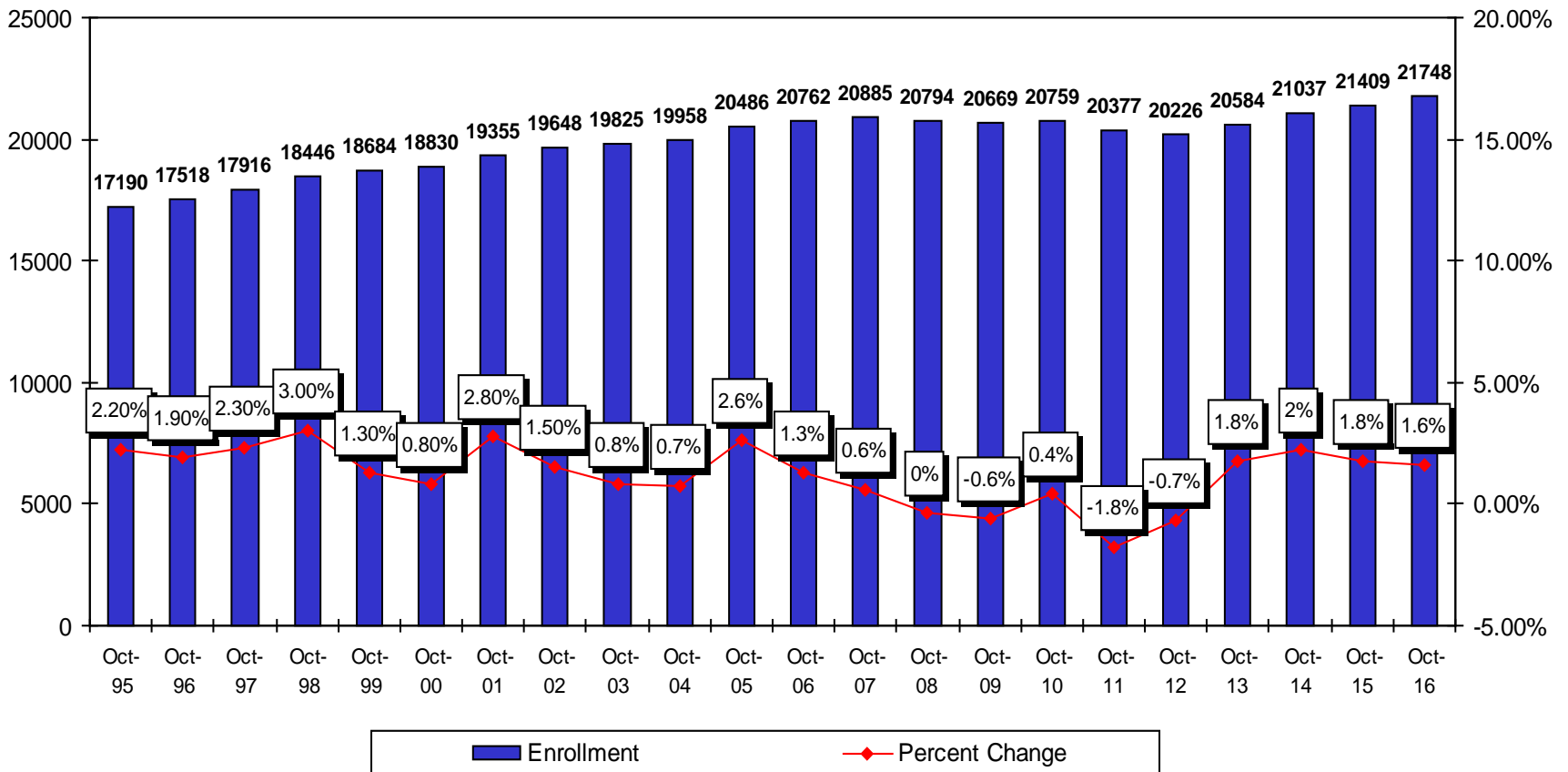
Consultant

January 18, 2017

# Puyallup Enrollment Trend

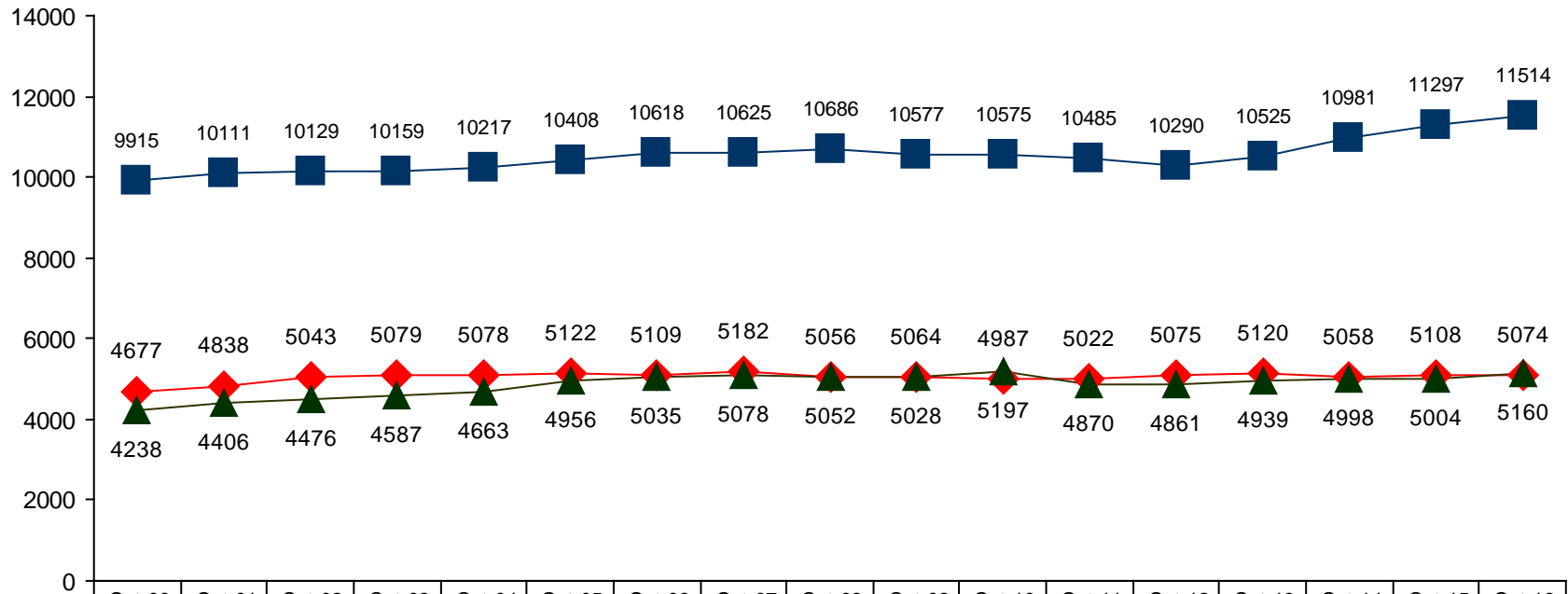
P223 Enrollment OCTOBER

Excludes Chief Leschi Students, Running Start Only Students, and the Puyallup Online Academy



# Puyallup Enrollment by Level

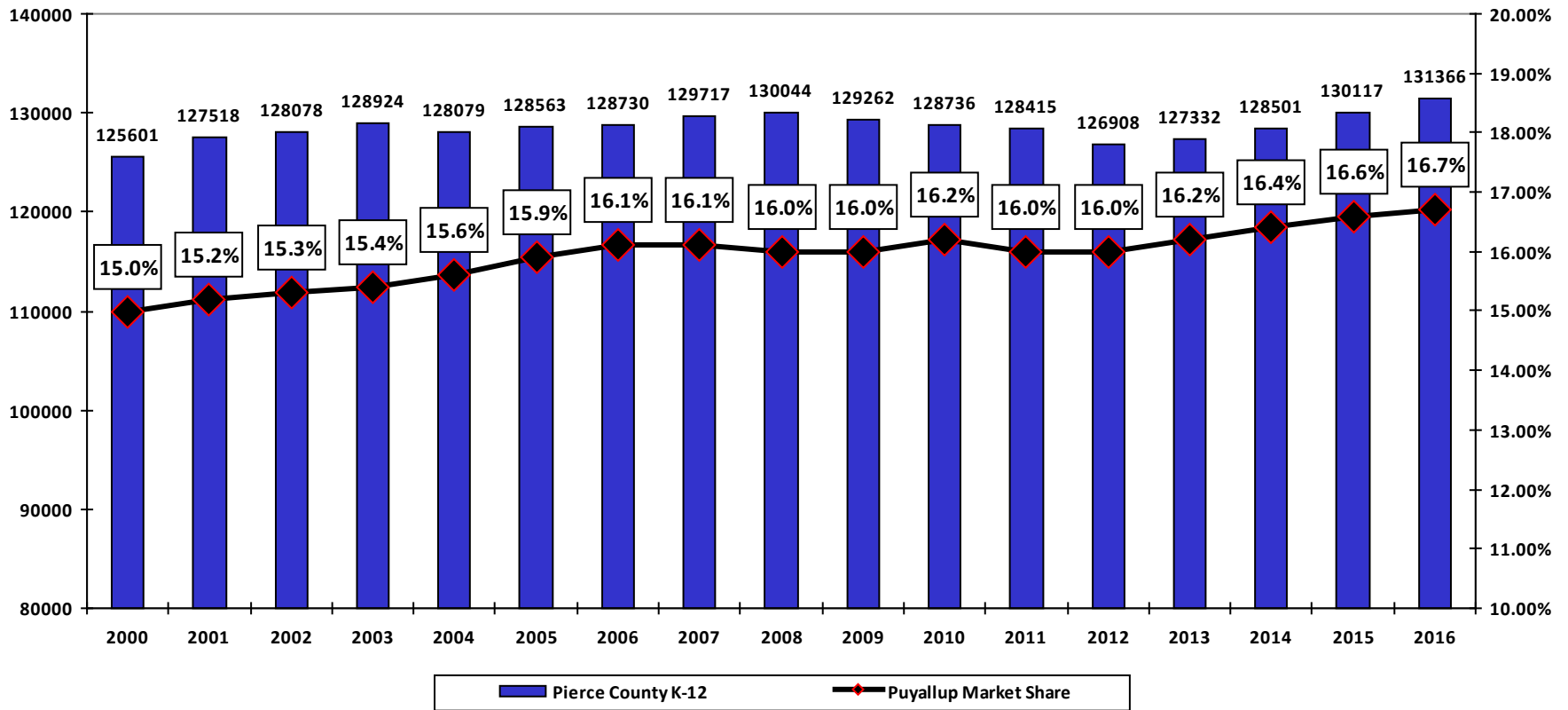
*Excludes Chief Leschi, Running Start Only Students and the Puyallup Online Academy*



|         | Oct-00 | Oct-01 | Oct-02 | Oct-03 | Oct-04 | Oct-05 | Oct-06 | Oct-07 | Oct-08 | Oct-09 | Oct-10 | Oct-11 | Oct-12 | Oct-13 | Oct-14 | Oct-15 | Oct-16 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| ■ K-6   | 9915   | 10111  | 10129  | 10159  | 10217  | 10408  | 10618  | 10625  | 10686  | 10577  | 10575  | 10485  | 10290  | 10525  | 10981  | 11297  | 11514  |
| ◆ 7-9   | 4677   | 4838   | 5043   | 5079   | 5078   | 5122   | 5109   | 5182   | 5056   | 5064   | 4987   | 5022   | 5075   | 5120   | 5058   | 5108   | 5074   |
| ▲ 10-12 | 4238   | 4406   | 4476   | 4587   | 4663   | 4956   | 5035   | 5078   | 5052   | 5028   | 5197   | 4870   | 4861   | 4939   | 4998   | 5004   | 5160   |

# Pierce County Public Schools Enrollment and Puyallup Market Share

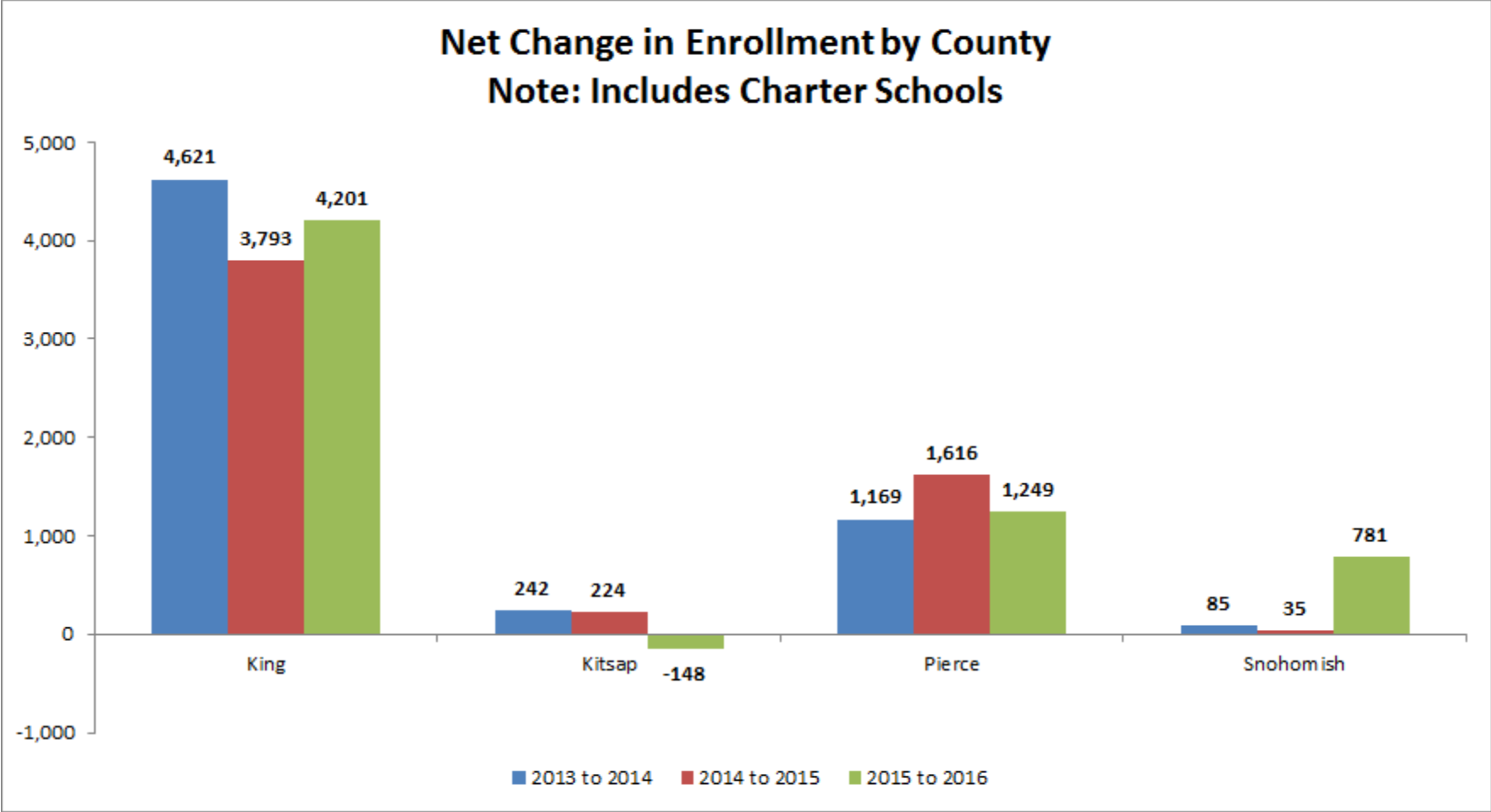
Combined Enrollment for All the School Districts in Pierce County



# Net Change in Enrollment by County

## Past Three Years

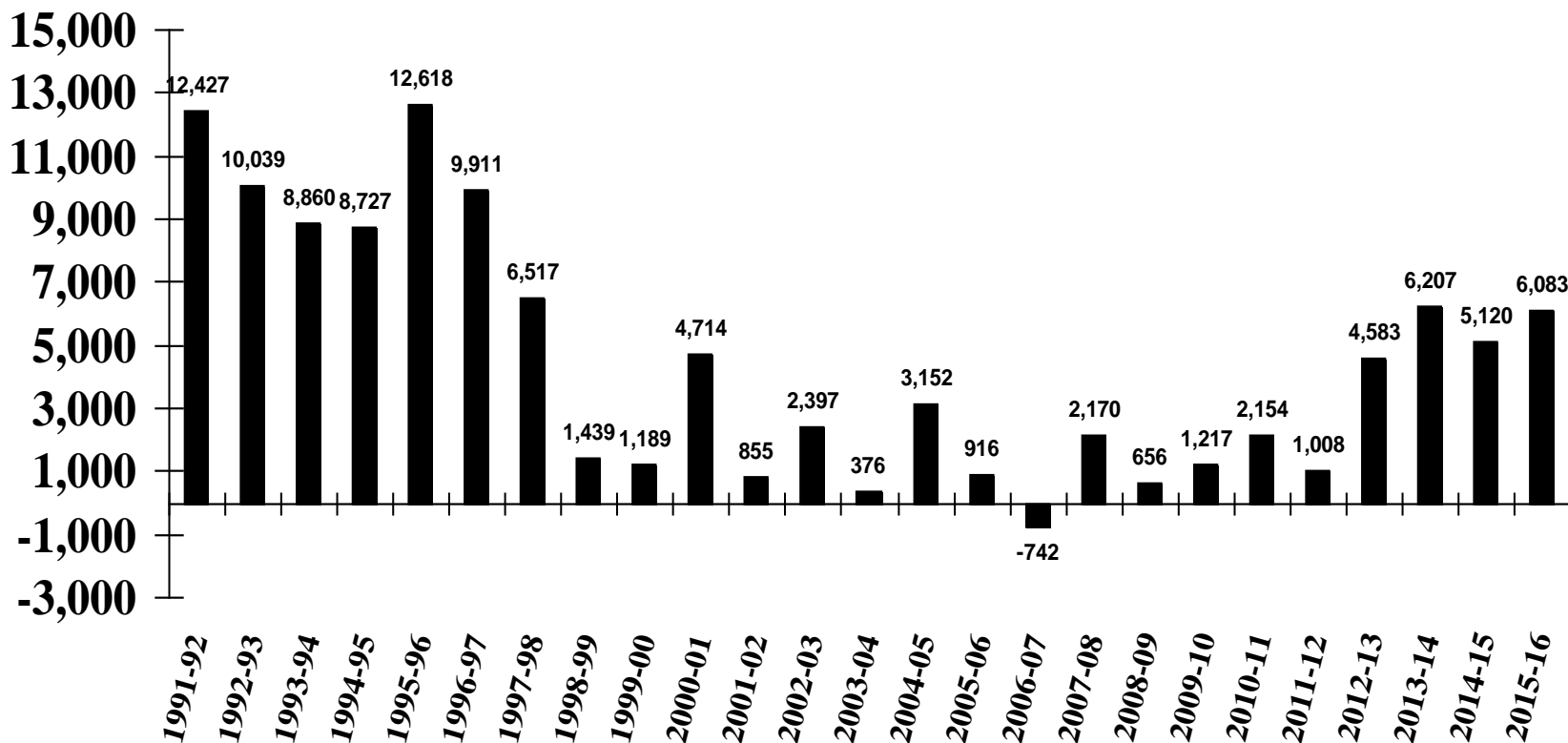
### October to October



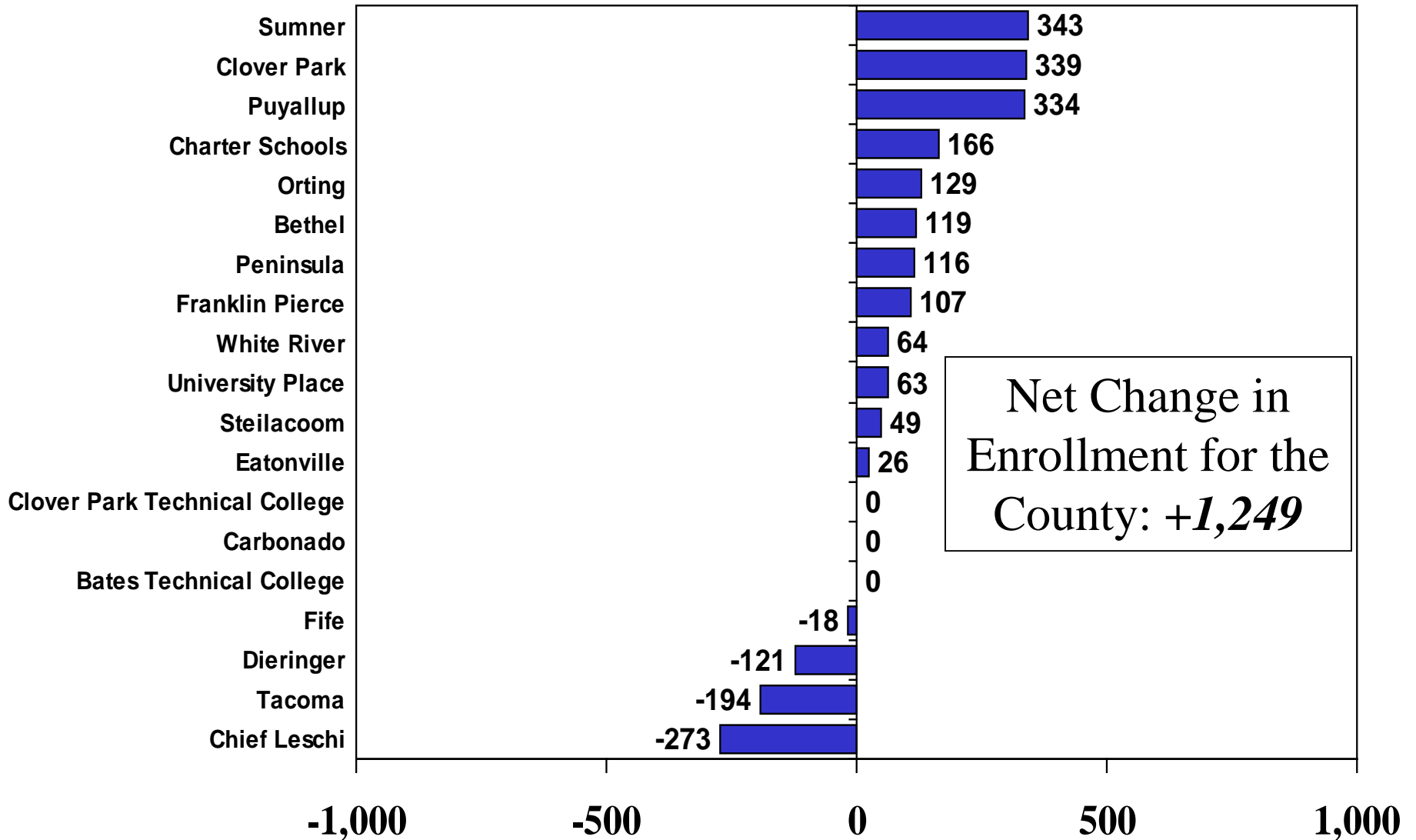
# Net Change in 4 County Public School Enrollment: King, Pierce, Snohomish, and Kitsap Combined (Over Half-a-Million Public Schools Students in 4 Counties)

P223 Reported OCTOBER Enrollment

Numbers are Updated and Changed Periodically; The Trend is More RELEVANT than the Specific Numbers

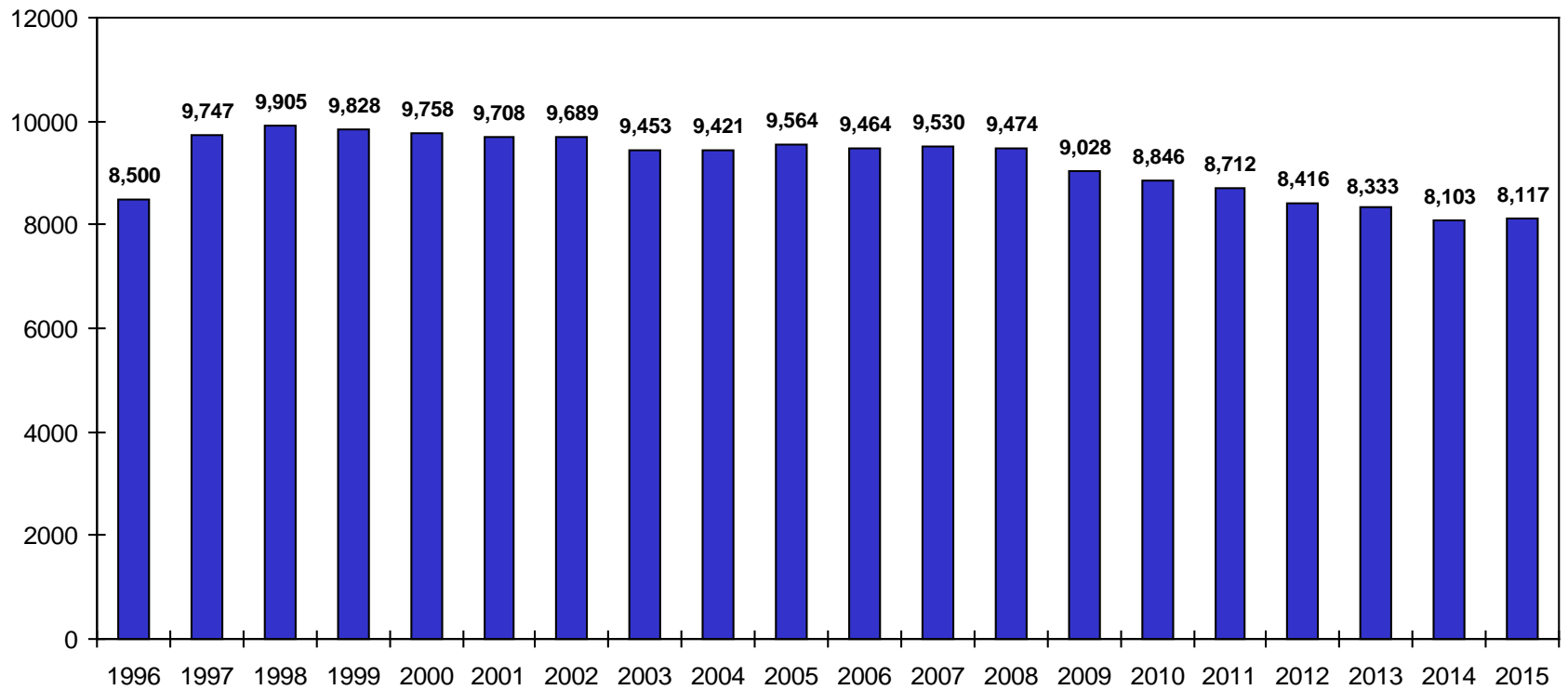


# Pierce County Districts: Change in Enrollment Oct 2015 to Oct 2016



# Private School Enrollment Pierce County Pre-K to 12

Source: OSPI

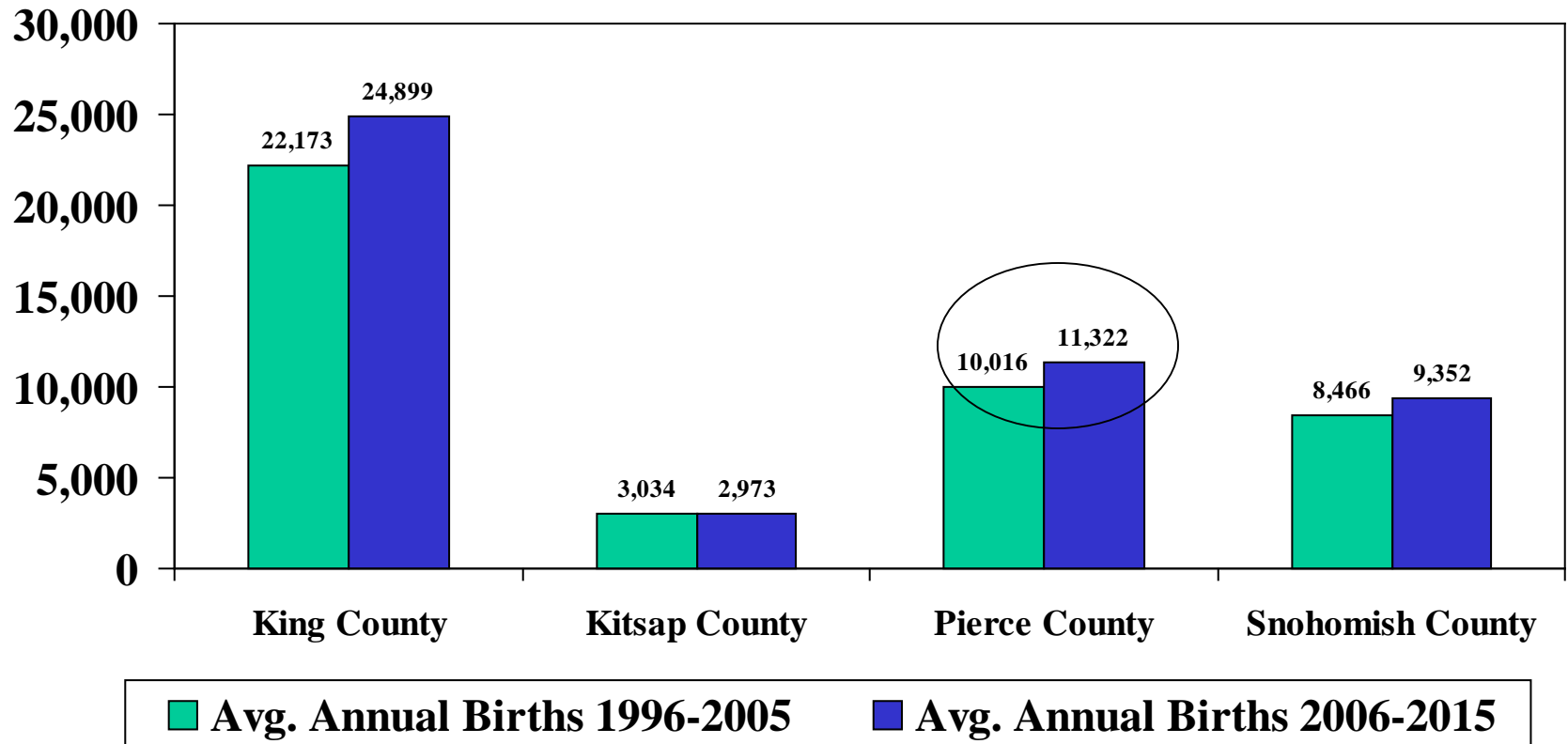




# Birth Trends

# Average Annual Births by County

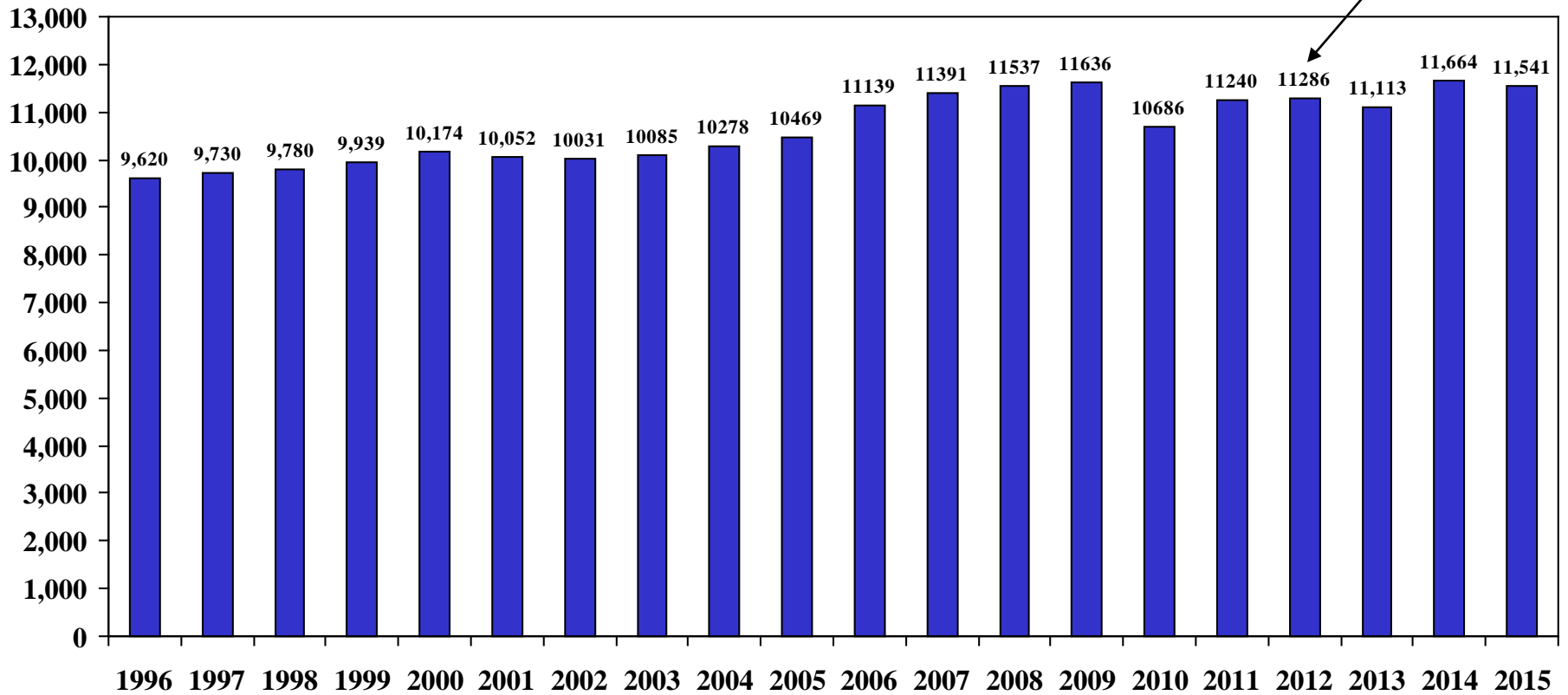
Source: State of Washington Department of Health Birth Files



# Pierce County Births

Source: Washington State Health Department

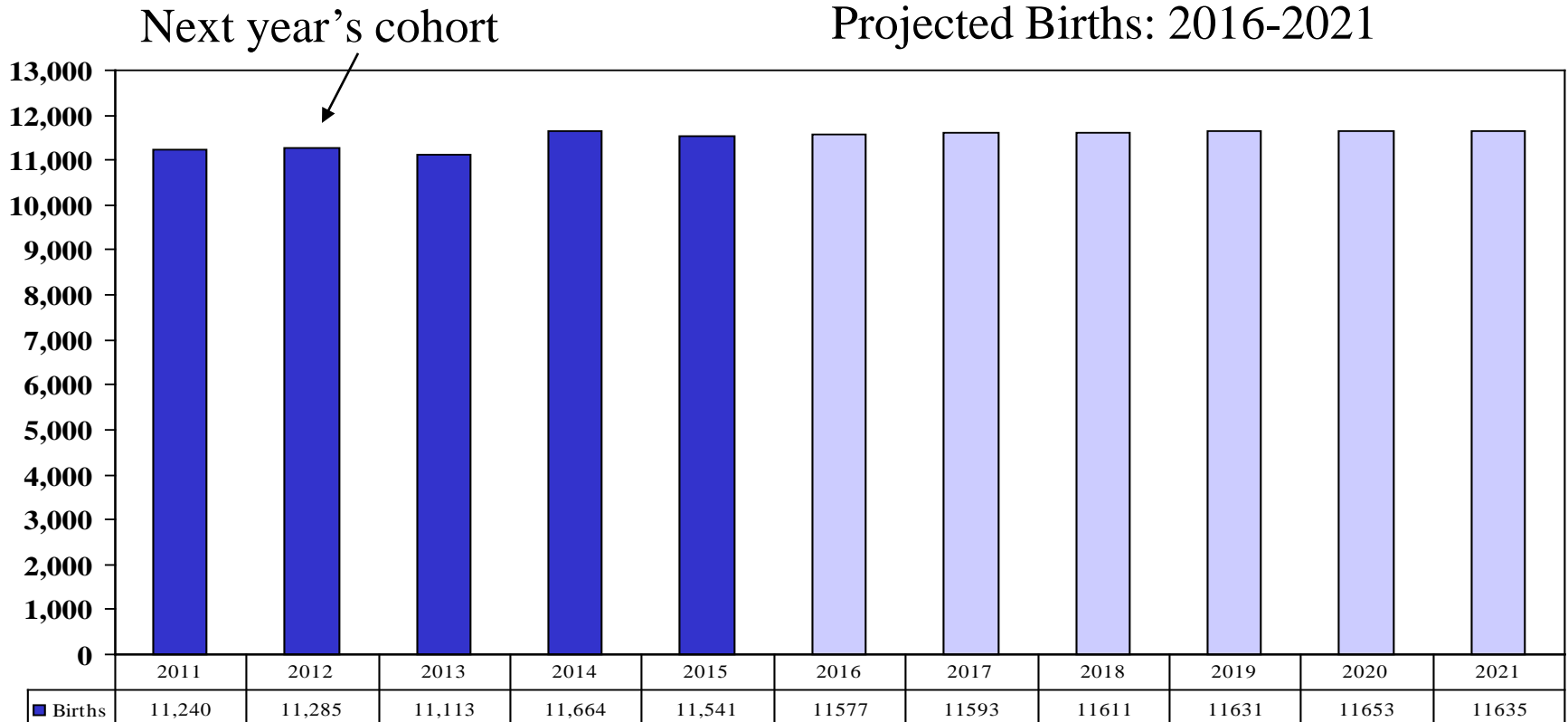
Next year's cohort



# Projected Pierce County Births

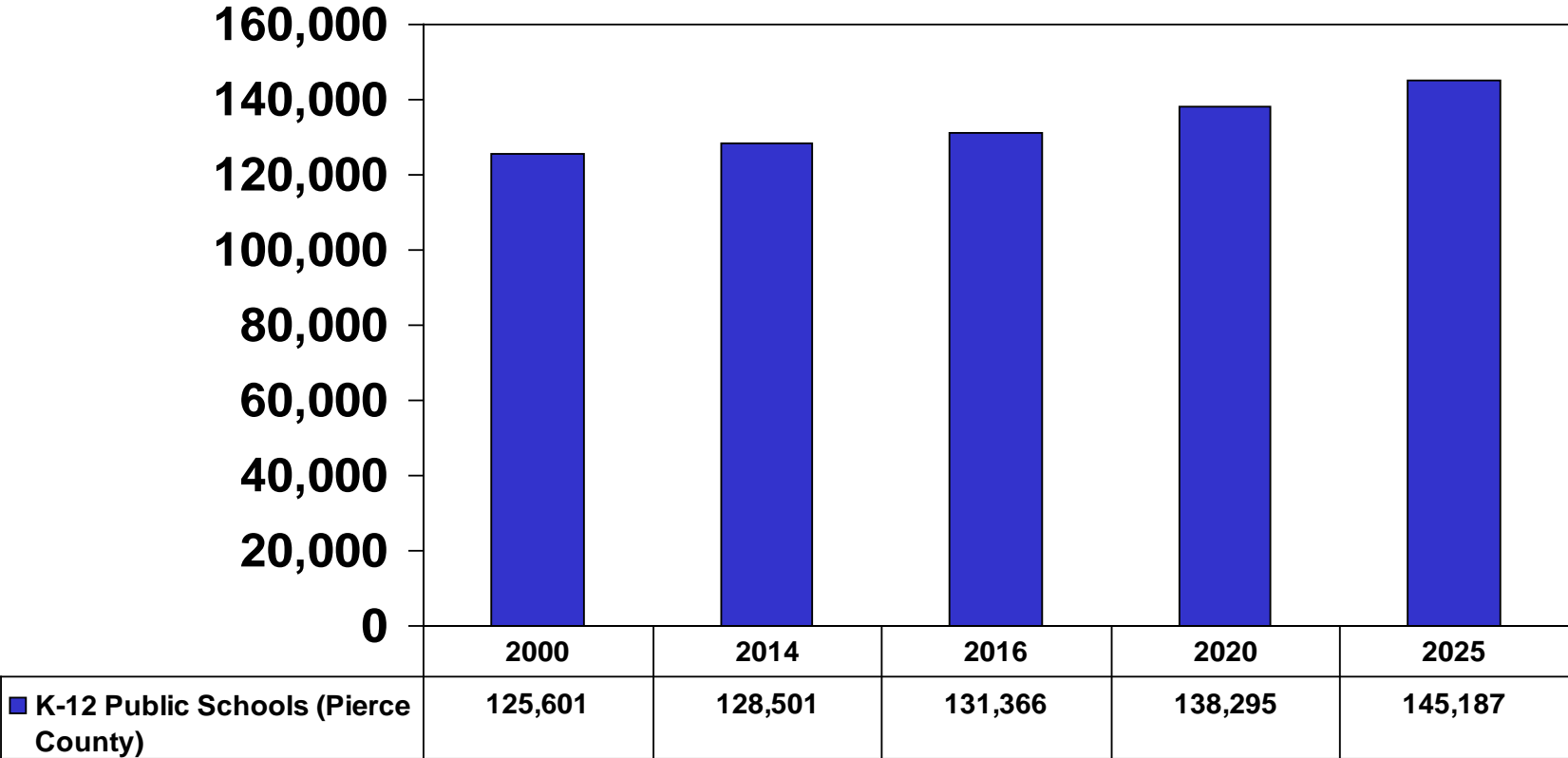
Forecast Based on Projected Population Growth for Women in Their Childbearing Years (Using the Medium Range State Forecast for Pierce County) and the Average of the Fertility Rates from the Past Two Years

NOTE: Dark Blue Bars are Actual Births; Light Blue Bars are Projected Births



# County K-12 Public School Forecast

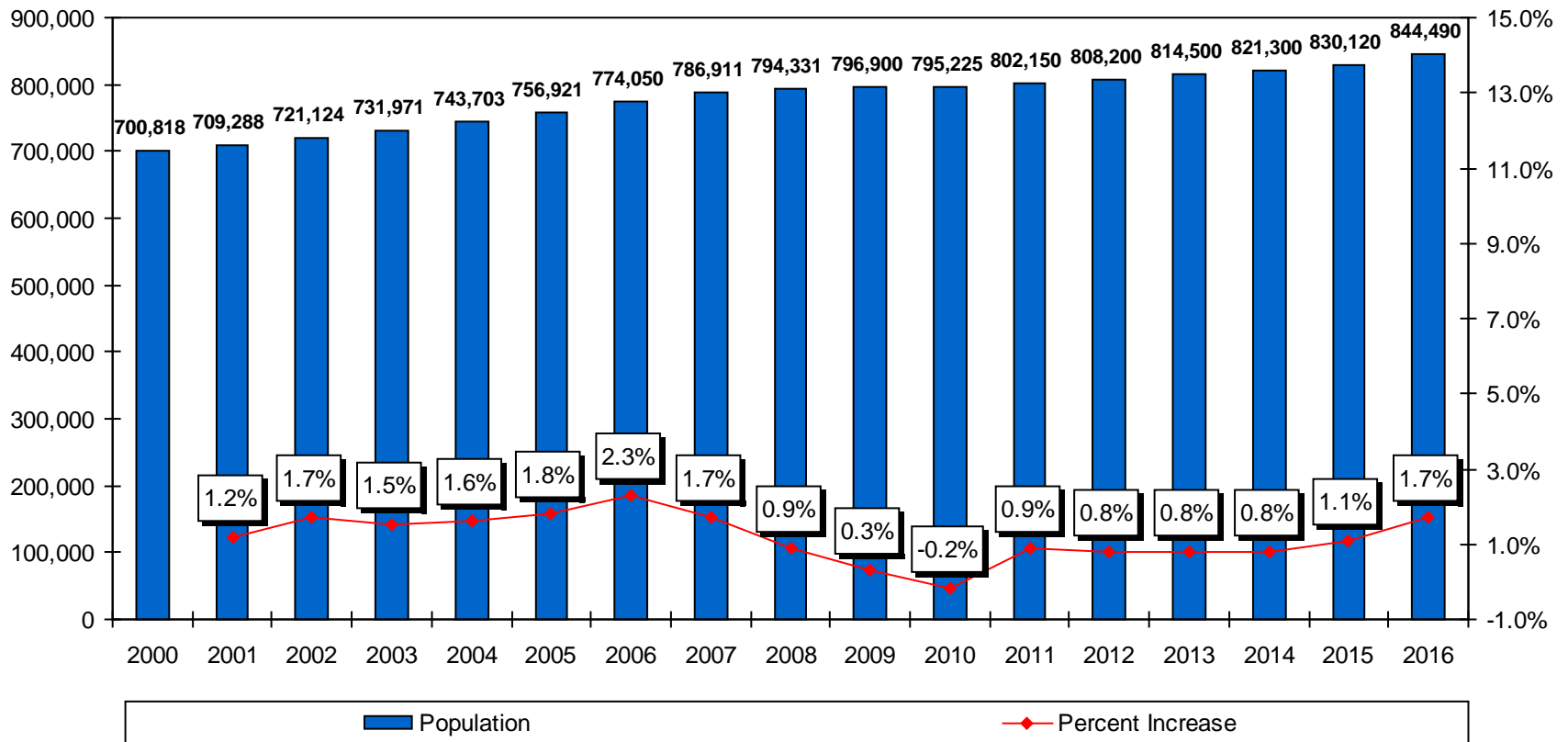
## Based on Projected Births, Grade Level Enrollment Trends and Projected County Population Growth



# Population Trends

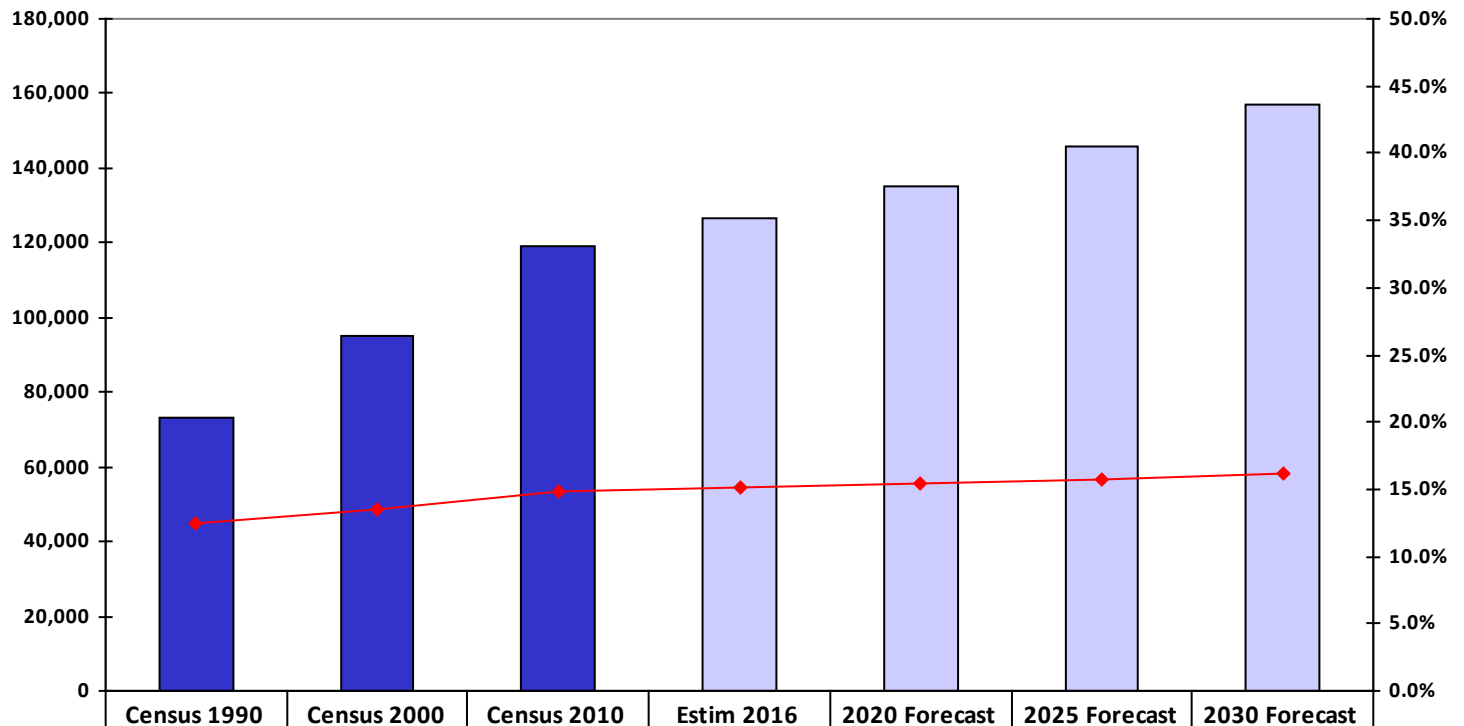
# Pierce County Population Estimates

Source: OFM State of Washington



# Puyallup SD Resident Population and Forecast

The Forecast is Based on a Consideration of Future Housing Growth, Recent Population Trends, and the Puget Sound Regional Forecast for Neighborhoods in and Around the District



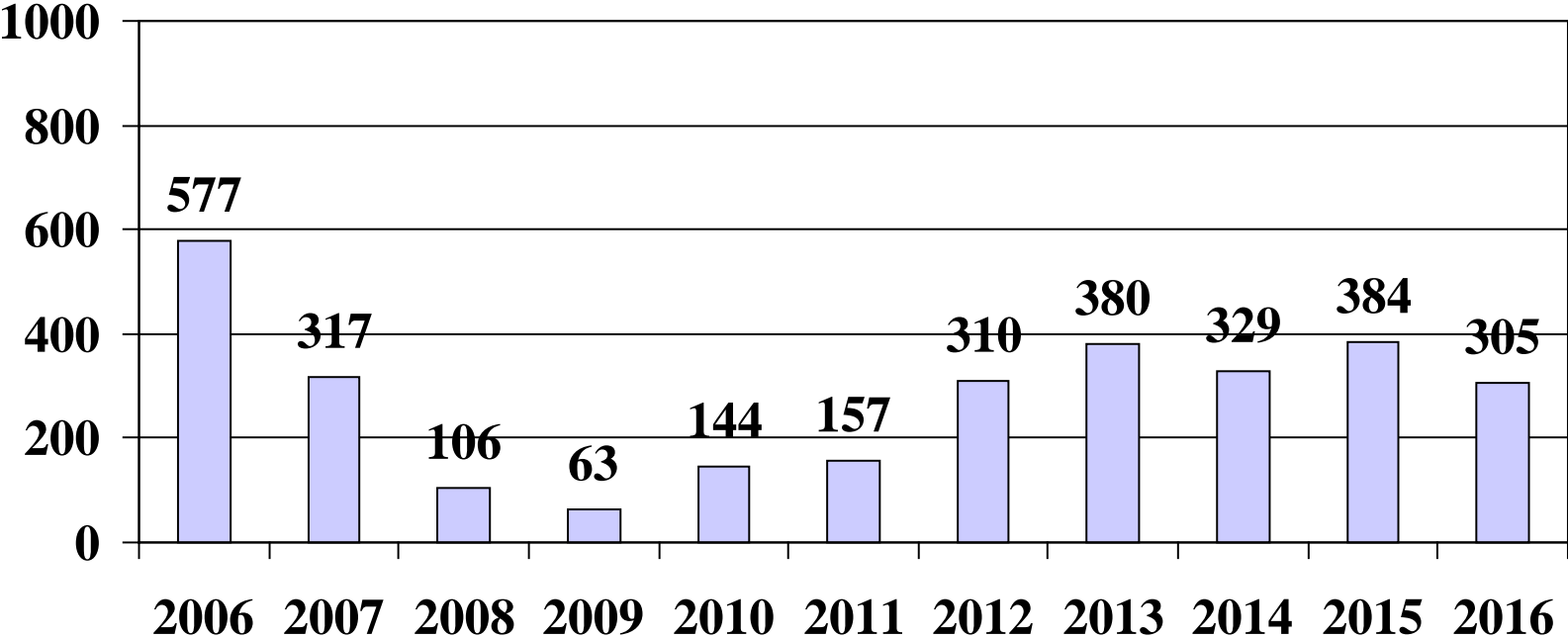
|                                 |        |        |         |         |         |         |         |
|---------------------------------|--------|--------|---------|---------|---------|---------|---------|
| <b>■ Puyallup Population</b>    | 73,097 | 94,922 | 118,946 | 126,544 | 135,370 | 145,832 | 157,100 |
| <b>◆ % of County Population</b> | 12.5%  | 13.5%  | 14.9%   | 15.2%   | 15.4%   | 15.8%   | 16.2%   |



# Housing Trends

# New Construction Single Family Homes Sold in the Puyallup School District: 2006-2016

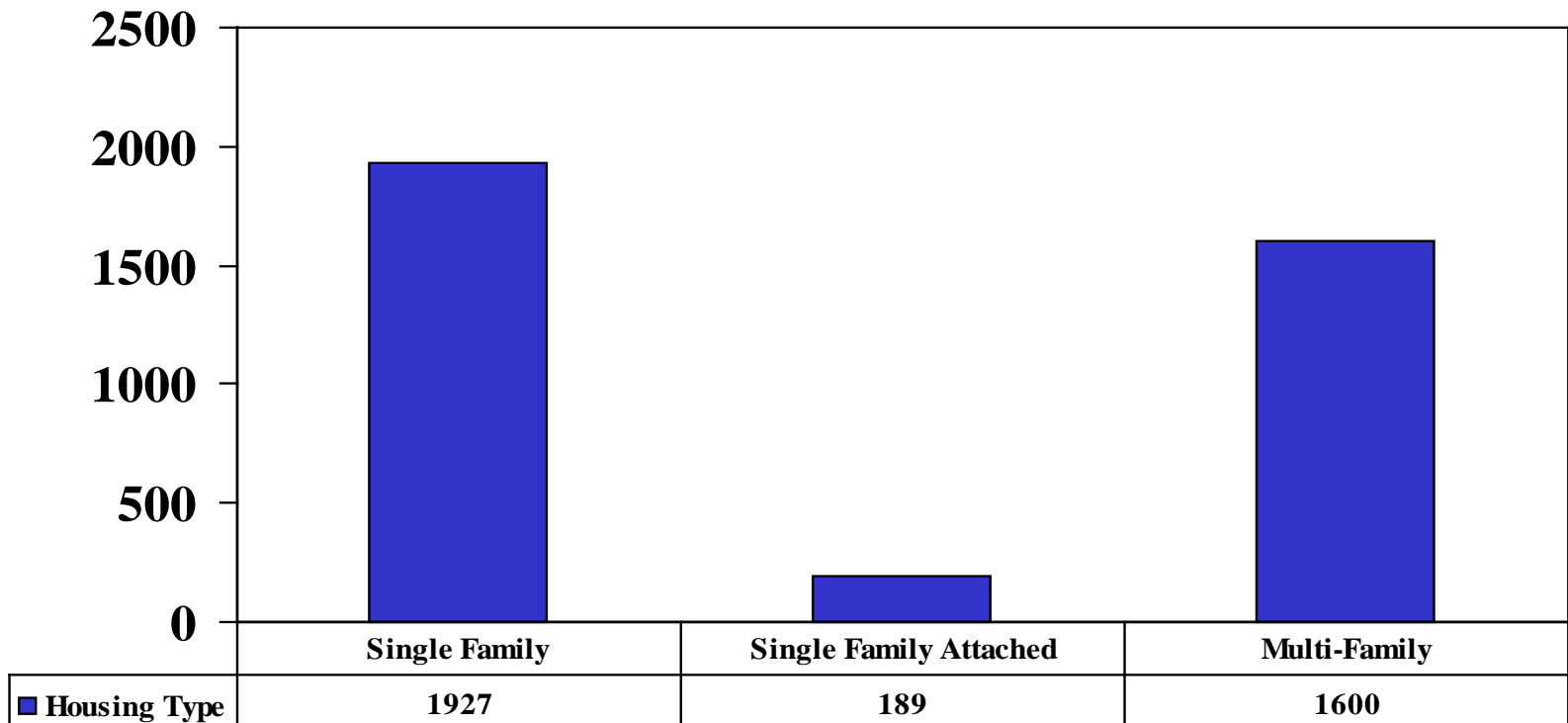
Source: New Home Trends Database



\* 2016 data provides a count through the end of 2016. The final number could be slightly lower or higher as end of the year sales data continues to be tabulated and updated.

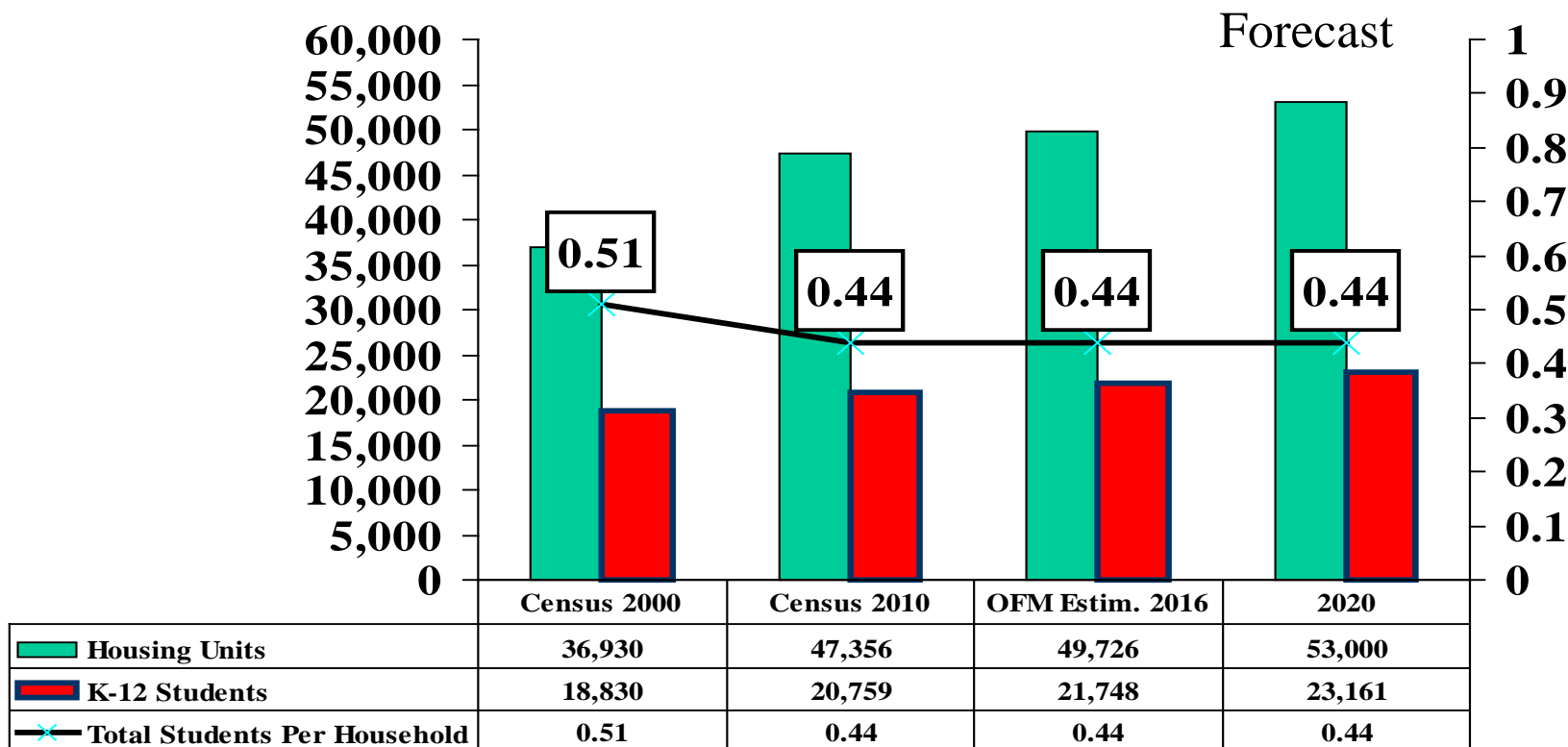
# Number of Housing Units Currently Planned for Future Construction and Sale within the District Boundary Area

*Data Provided by the Puyallup School District Facilities Planning Department  
as of 12/10/2016*



# A Simple K-12 Forecast For Puyallup Based on the Housing Forecast and the Number of Students per House Using the 2016 Estimate

*(Assumes 44 Students Per 100 Homes: Including Both New and Existing Homes and all Home Types: Single Family, Duplex, Apartment Units and Townhomes)*

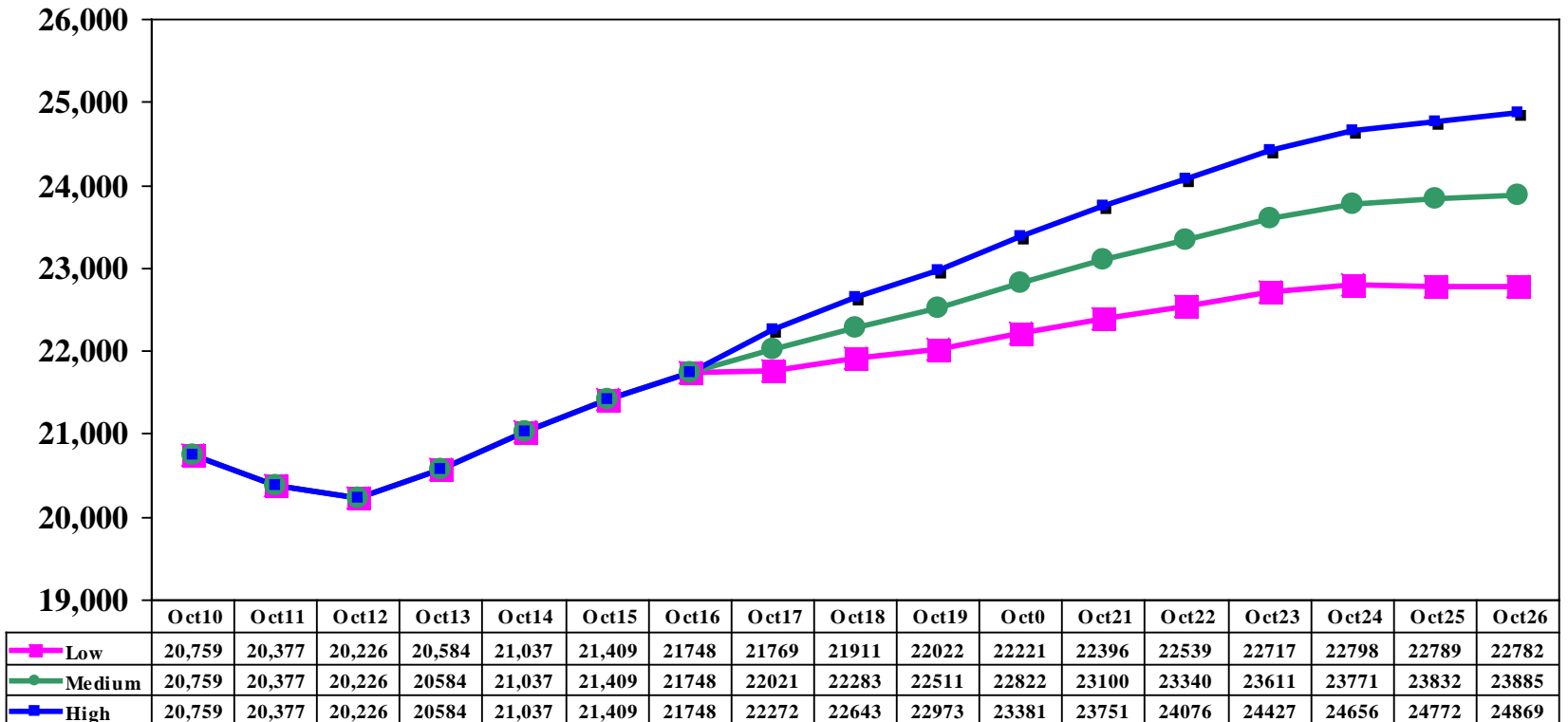


Forecast

# Projections 2017-2026

## Low, Medium, High

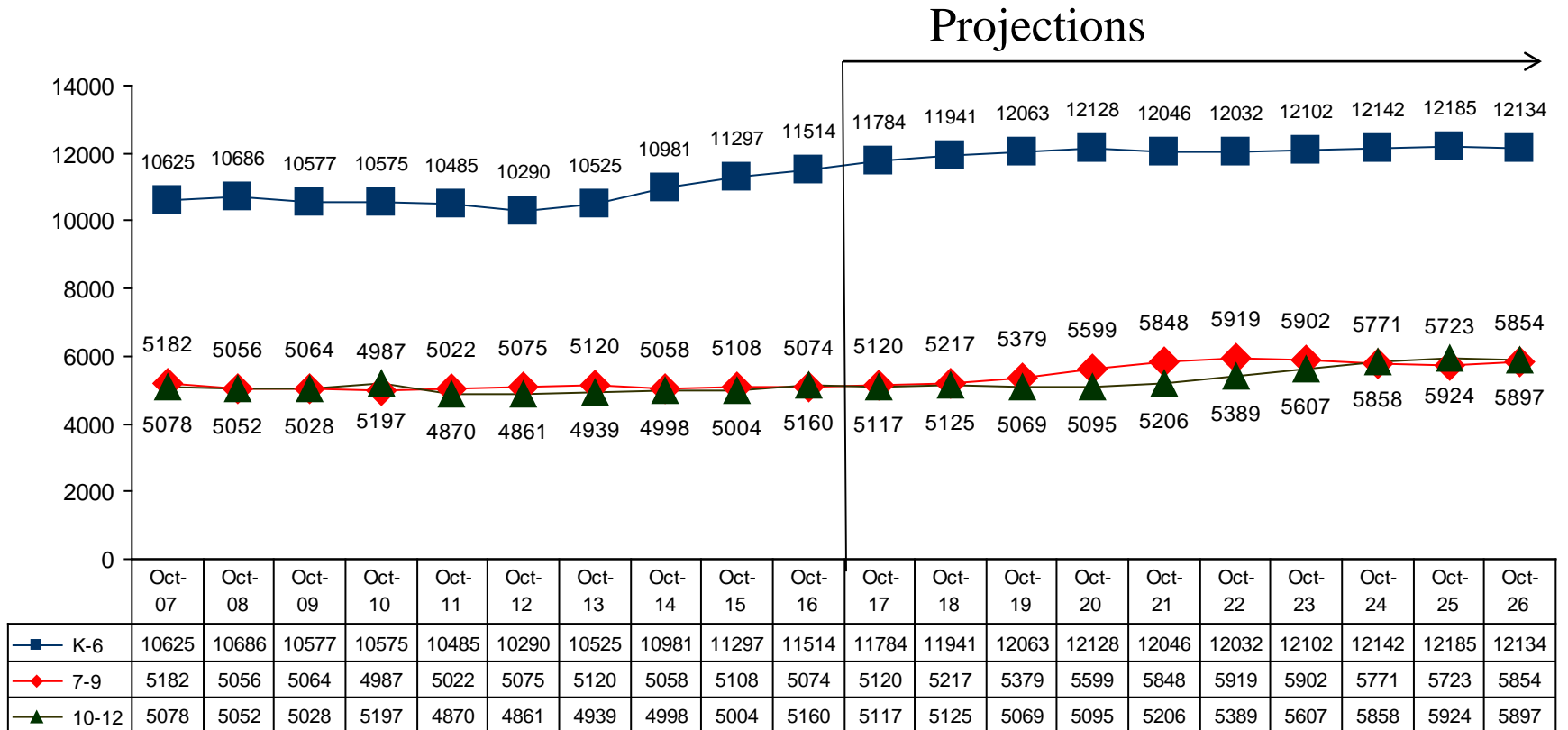
*Excludes Chief Leschi, Running Start Only, and the Puyallup Online Academy*



# Puyallup SD Projections by Level

## Medium Range Forecast

*Headcount (Excludes Chief Leschi, Full Time Running Start and the Puyallup Online Academy)*



# Medium Range Projection Detail

## Puyallup School District Projection

## Medium Range Projection

| Year                                    | 2005  | 2006  | 2007   | 2008   | 2009   | 2010   | 2011   |
|---|-------|-------|--------|--------|--------|--------|--------|
| <b>County Births</b>                    | 10469 | 11139 | 11,391 | 11,537 | 11,636 | 10,686 | 11,240 |
| <b>% Cohort</b>                         | 12.9% | 12.3% | 12.4%  | 12.4%  | 13.8%  | 14.9%  | 13.6%  |
| <i>PSD Births (From Brian Devereux)</i> | 1419  | 1512  | 1606   | 1631   | 1649   | 1447   | 1527   |
| <i>% of PSD Cohort</i>                  | 94.9% | 90.7% | 88.0%  | 87.4%  | 97.2%  | 110.1% | 100.1% |

| <i>Projected Births</i> |        |        |       |       |       |       |       |       |       |       |
|-------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|                         | 2012   | 2013   | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | 2021  |
|                         | 11286  | 11115  | 11664 | 11541 | 11577 | 11593 | 11611 | 11631 | 11653 | 11635 |
|                         | 13.9%  | 14.2%  | 14.3% | 14.2% | 14.2% | 14.1% | 14.1% | 14.1% | 14.1% | 14.1% |
|                         | 1513   | 1499   |       |       |       |       |       |       |       |       |
|                         | 103.7% | 105.1% |       |       |       |       |       |       |       |       |

| GRADE           | Oct 10       | Oct 11       | Oct 12       | Oct 13       | Oct 14       | Oct 15       | Oct 16       |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| K               | 1347         | 1371         | 1414         | 1426         | 1603         | 1593         | 1529         |
| 1               | 1462         | 1403         | 1426         | 1555         | 1552         | 1683         | 1629         |
| 2               | 1477         | 1463         | 1422         | 1491         | 1620         | 1607         | 1744         |
| 3               | 1452         | 1528         | 1458         | 1466         | 1533         | 1664         | 1666         |
| 4               | 1606         | 1457         | 1479         | 1521         | 1508         | 1595         | 1697         |
| 5               | 1599         | 1610         | 1471         | 1522         | 1560         | 1540         | 1647         |
| 6               | <u>1632</u>  | <u>1653</u>  | <u>1620</u>  | <u>1544</u>  | <u>1605</u>  | <u>1615</u>  | <u>1602</u>  |
| Total           | <b>10575</b> | <b>10485</b> | <b>10290</b> | <b>10525</b> | <b>10981</b> | <b>11297</b> | <b>11514</b> |
| 7               | 1678         | 1670         | 1679         | 1690         | 1614         | 1658         | 1700         |
| 8               | 1673         | 1700         | 1701         | 1717         | 1723         | 1667         | 1703         |
| 9               | <u>1636</u>  | <u>1652</u>  | <u>1695</u>  | <u>1713</u>  | <u>1721</u>  | <u>1783</u>  | <u>1671</u>  |
| Total           | <b>4987</b>  | <b>5022</b>  | <b>5075</b>  | <b>5120</b>  | <b>5058</b>  | <b>5108</b>  | <b>5074</b>  |
| 10              | 1724         | 1632         | 1683         | 1734         | 1729         | 1749         | 1840         |
| 11              | 1673         | 1649         | 1572         | 1623         | 1686         | 1685         | 1681         |
| 12              | <u>1800</u>  | <u>1589</u>  | <u>1606</u>  | <u>1582</u>  | <u>1583</u>  | <u>1570</u>  | <u>1639</u>  |
| Total           | <b>5197</b>  | <b>4870</b>  | <b>4861</b>  | <b>4939</b>  | <b>4998</b>  | <b>5004</b>  | <b>5160</b>  |
| <b>District</b> | <b>20759</b> | <b>20377</b> | <b>20226</b> | <b>20584</b> | <b>21037</b> | <b>21409</b> | <b>21748</b> |

| Grade           | Oct 17       | Oct 18       | Oct 19       | Oct 20       | Oct 21       | Oct 22       | Oct 23       | Oct 24       | Oct 25       | Oct 26       |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| K               | 1569         | 1575         | 1668         | 1635         | 1640         | 1635         | 1638         | 1640         | 1643         | 1641         |
| 1               | 1576         | 1609         | 1615         | 1693         | 1642         | 1647         | 1642         | 1644         | 1647         | 1650         |
| 2               | 1688         | 1629         | 1658         | 1661         | 1743         | 1691         | 1696         | 1691         | 1693         | 1696         |
| 3               | 1800         | 1738         | 1665         | 1695         | 1698         | 1782         | 1728         | 1734         | 1728         | 1731         |
| 4               | 1707         | 1845         | 1773         | 1698         | 1728         | 1731         | 1817         | 1762         | 1768         | 1762         |
| 5               | 1736         | 1742         | 1878         | 1805         | 1728         | 1759         | 1762         | 1850         | 1794         | 1800         |
| 6               | <u>1708</u>  | <u>1804</u>  | <u>1806</u>  | <u>1941</u>  | <u>1865</u>  | <u>1787</u>  | <u>1819</u>  | <u>1822</u>  | <u>1912</u>  | <u>1854</u>  |
| Total           | <b>11784</b> | <b>11941</b> | <b>12063</b> | <b>12128</b> | <b>12046</b> | <b>12032</b> | <b>12102</b> | <b>12142</b> | <b>12185</b> | <b>12134</b> |
| 7               | 1660         | 1769         | 1865         | 1871         | 2011         | 1933         | 1851         | 1884         | 1887         | 1981         |
| 8               | 1736         | 1695         | 1803         | 1905         | 1911         | 2054         | 1974         | 1890         | 1924         | 1928         |
| 9               | <u>1724</u>  | <u>1752</u>  | <u>1711</u>  | <u>1824</u>  | <u>1926</u>  | <u>1932</u>  | <u>2077</u>  | <u>1996</u>  | <u>1912</u>  | <u>1946</u>  |
| Total           | <b>5120</b>  | <b>5217</b>  | <b>5379</b>  | <b>5599</b>  | <b>5848</b>  | <b>5919</b>  | <b>5902</b>  | <b>5771</b>  | <b>5723</b>  | <b>5854</b>  |
| 10              | 1709         | 1752         | 1781         | 1738         | 1857         | 1961         | 1967         | 2115         | 2032         | 1946         |
| 11              | 1780         | 1650         | 1691         | 1719         | 1682         | 1796         | 1897         | 1903         | 2046         | 1966         |
| 12              | <u>1628</u>  | <u>1724</u>  | <u>1598</u>  | <u>1637</u>  | <u>1668</u>  | <u>1631</u>  | <u>1742</u>  | <u>1841</u>  | <u>1846</u>  | <u>1985</u>  |
| Total           | <b>5117</b>  | <b>5125</b>  | <b>5069</b>  | <b>5095</b>  | <b>5206</b>  | <b>5389</b>  | <b>5607</b>  | <b>5858</b>  | <b>5924</b>  | <b>5897</b>  |
| <b>District</b> | <b>22021</b> | <b>22283</b> | <b>22511</b> | <b>22822</b> | <b>23100</b> | <b>23340</b> | <b>23611</b> | <b>23771</b> | <b>23832</b> | <b>23885</b> |

|                       |      |       |       |      |      |      |      |
|-----------------------|------|-------|-------|------|------|------|------|
| <b>Enroll Growth</b>  | 90   | -382  | -151  | 358  | 453  | 372  | 339  |
| <b>Percent Growth</b> | 0.4% | -1.8% | -0.7% | 1.8% | 2.2% | 1.8% | 1.6% |

|  |      |      |      |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|------|------|------|
|  | 273  | 262  | 228  | 310  | 278  | 240  | 271  | 161  | 61   | 53   |
|  | 1.3% | 1.2% | 1.0% | 1.4% | 1.2% | 1.0% | 1.2% | 0.7% | 0.3% | 0.2% |



## **Consultant Background and Experience**

Mr. Kendrick was the demographer for the Seattle Public schools from 1990 to 1997. In that capacity he provided enrollment projections to facilitate staffing and facilities planning and helped with the management of the student assignment system. He also provided analysis of the relationship between demographics and test scores.

Since 1997 he has worked as a consultant providing demographic analysis and enrollment projections for local school districts. Over the past 20 years his clients have included the following Districts: Auburn, Bainbridge Island, Bellingham, Bellevue, Bethel, Bremerton, Central Kitsap, Edmonds, Enumclaw, Federal Way, Marysville, Mercer Island, Monroe, North Kitsap, Olympia, Renton, Seattle, South Kitsap, Shoreline, Snoqualmie Valley, Sumner, and Tukwila. He also does annual enrollment projection work for the Everett, Highline, Mukilteo, Northshore, Puyallup, and Tacoma School Districts. He has worked in all four counties of the Puget Sound and is familiar with the different trends and patterns across the region.