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MCMINNVILLE SCHOOL DISTRICT ENROLLMENT FORECASTS 2013-14 TO 2022-23



JUNE, 2013

MCMINNVILLE SCHOOL DISTRICT ENROLLMENT FORECASTS 2013-14 TO 2022-23

Prepared By
Population Research Center
Portland State University

JUNE, 2013

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EXECUTIVE SUMMARY

The McMinnville School District (MSD) enrolled 6,464 students in Fall 2012, which was within one percent of the Fall 2010 and Fall 2011 K-12 totals. The relatively stable enrollment of the past two years contrasts with the sharp decline experienced in 2010-11 and with the long period of growth that occurred until 2009-10. Between 2011-12 and 2012-13, elementary grades (K-5th) enrollment was stable, with a loss of just eight students (0.3 percent); middle school grades (6th-8th) added 17 students (1.1 percent), and high school grades (9th-12th) declined by 35 students (1.7 percent).

The district's overall 1.6 percent enrollment loss since 2009-10 is a reversal from the steady growth that occurred until 2009-10, but it is consistent with state and local enrollment trends. The State of Oregon experienced a small decline in K-12 enrollment between 2009-10 and 2011-12, and after modest growth in 2012-13, statewide enrollment is only two-tenths of a percent higher than in 2009-10. Among the six other Yamhill County districts, Newberg S.D. enrolled about the same number of students in 2012-13 as in 2009-10, and four of the five smaller districts lost enrollment. In addition to long term trends including lower fertility rates and an aging population, recent flat or declining enrollment can be attributed to job losses suffered during the recent recession and the slow recovery, which has resulted in much smaller than normal in-migration levels. Also, the MSD experienced a net loss of students to neighboring districts due to Oregon's new open enrollment policy.

The District's growth was historically fueled by migration; there were consistently more households moving in than out. This migration contributed to long term growth in District births and subsequent kindergarten enrollments. The forecast includes more enrollment growth due to migration than in the last few years, due to anticipated economic recovery and resumed demand for new housing within the District. However, growth at the levels observed in the mid-2000s is not expected within the forecast horizon.

The enrollment forecast indicates relatively stable enrollment at elementary and middle levels, and growth at high school in the first year, 2013-14. Both elementary and high school levels continue to grow through 2016-17, while middle school enrollment declines, as the current

relatively small 2nd and 4th grade classes enter middle school. The decline in birth rates between 2007 and 2011 will result in smaller kindergarten classes through at least 2016-17, limiting the potential for even greater elementary enrollment growth than what is expected due to inmigration of families.

Overall K-12 enrollment growth of 401 students (six percent) is forecast from 2012-13 to 2022-23. Chart 1 illustrates the District's annual K-12 growth trend. Table 1 on the next page contains the MSD's recent and forecast enrollments by five year increments. The detailed annual enrollment forecast by grade level is provided in Table 16 on page 31, and forecasts for individual schools are in Table 17 on page 33.

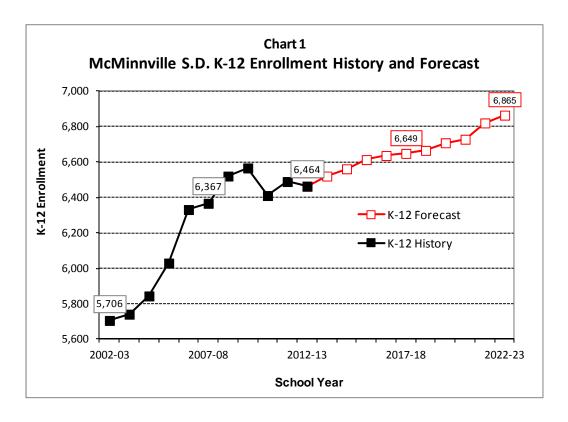


Table 1
Historic and Forecast Enrollment
McMinnville School District

| | Hist | toric | Forecast | | |
|----------------|---------|------------|------------|-----------|--|
| | 2007-08 | 2012-13 | 2017-18 | 2022-23 | |
| District Total | 6,367 | 6,464 | 6,649 | 6,865 | |
| 5 year change | | 97 2% | 185 3% | 216 3% | |
| K-5 | 2,972 | 2,940 | 3,025 | 3,128 | |
| 5 year change | | -32 -1% | 85 3% | 103 3% | |
| 6-8 | 1,493 | 1,556 | 1,532 | 1,550 | |
| 5 year change | | 63 4% | -24 -2% | 18 1% | |
| 9-12 | 1,902 | 1,968 | 2,092 | 2,187 | |
| 5 year change | | 66 3% | 124 6% | 95 5% | |

Population Research Center, PSU. May 2013.

INTRODUCTION

The McMinnville School District (MSD) requested that the Portland State University Population Research Center (PRC) prepare enrollment forecasts for use in the District's long-range planning. The current study integrates information about MSD and updates the work PRC conducted in 2008 and 2011, providing a snapshot of demographic, housing, and school enrollment patterns and trends. This report also presents an extended district-wide enrollment forecasts for a ten year period from 2013-14 to 2022-23 and individual school forecasts for a five year period from 2013-14 to 2017-18.

In the next few sections, overviews of the local area population, housing and economic trends, and MSD enrollment history will be presented. Next, the methodology for the district-wide and individual school enrollment forecasts will be described; followed by the results of the ten year district-wide forecasts with a forecast horizon between 2013-14 and 2022-23 and the five year individual school forecasts between 2013-14 and 2017-18. The final section contains a brief discussion of the nature and accuracy of forecasts. An appendix contains a five page census profile for the District.

The District serves the Cities of McMinnville and Lafayette in Yamhill County as well as unincorporated areas surrounding McMinnville. The City of McMinnville accounted for 80.2 percent and the City of Lafayette accounted for 9.3 percent of the district's population in 2010. The District is located entirely within Yamhill County.

A wide range of information specific to the district and its surrounding area was gathered for use in this demographic study. Data sources include: enrollment information from the MSD, demographic and housing data from the U.S. Census Bureau, birth data from the Oregon Center for Health Statistics, city and county population estimates produced by PRC, city and county population forecasts from PRC, housing development information from the cities and counties, residential tax lot data from Yamhill County, and employment trends from the Oregon Employment Department.

POPULATION, HOUSING, AND EMPLOYMENT TRENDS

During the decade between 2000 and 2010, total population within the MSD grew by 21 percent, from 33,106 persons to 40,134. The MSD's share of County population has grown from 35 percent in 1990 to 39 percent in 2000 and then to 40 percent in 2010. In each of the last two decades more than half of the County's growth has occurred within the District. The two incorporated cities of McMinnville and Lafayette now contain about 90 percent of the District's population; only 10 percent of District residents live in unincorporated Yamhill County. Table 2 shows that average annual growth rates for the Cities of McMinnville, Lafayette, and the Yamhill County between 2010 and 2012 were lower than in the 2000s. The District's average annual numeric growth of 702 persons between 2000 and 2010 was 28 percent lower than the average annual numeric growth of 980 persons between 1990 and 2000.

| Table 2 City, County, and MSD Population | | | | | | | | |
|--|--------|--------|---------|-----------|-------------|--|--|--|
| | ,, | ,, | | | Growth Rate | | | |
| | 2000 | 2010 | 2012 | 2000-2010 | 2010-2012 | | | |
| MSD Total* | 33,106 | 40,134 | N/A | 1.9% | | | | |
| City of McMinnville | 26,499 | 32,187 | 32,435 | 2.0% | 0.1% | | | |
| City of Lafayette | 2,586 | 3,742 | 3,735 | 3.8% | 0.0% | | | |
| MSD Unincorporated | 4,021 | 4,205 | N/A | 0.4% | | | | |
| Yamhill County | 84,992 | 99,193 | 100,550 | 1.6% | 0.1% | | | |

*Note: District population determined by PSU-PRC based on aggregation of census blocks within the MSD boundary shapefiles. The 2010 MSD population published by the Census Bureau is 39,623.

Sources: U.S. Census Bureau, 2000 and 2010 censuses aggregated to MSD boundary by PSU Population Research Center; Portland State University Population Research Center, Preliminary July 1, 2012 estimates; State of Washington Office of Financial Management April 1, 2012 estimates.

Although the District's residents live within about 30 miles of several larger job markets including Tualatin/Wilsonville and Salem, the biggest employment destination for McMinnville area residents is McMinnville itself. Based on 2011 data from firms covered by unemployment insurance (excluding most agricultural jobs and self-employment), 61 percent of MSD residents worked within Yamhill County, including 37 percent within the City of McMinnville. About seven

percent of MSD residents worked in Washington County, and six percent worked in Marion County, primarily Salem. Table 3 reports the number and share of workers by place of work.¹

| Table 3 Where MSD Residents Are Employed | | | | | | |
|--|---------|-------|--|--|--|--|
| Job Located Within* | Workers | Share | | | | |
| Yamhill County | 8,119 | 61% | | | | |
| McMinnville School District | 5,547 | 42% | | | | |
| City of McMinnville | 4,872 | 37% | | | | |
| Washington County | 929 | 7% | | | | |
| Marion County | 843 | 6% | | | | |
| Multnomah County | 516 | 4% | | | | |
| All other locations | 2,932 | 22% | | | | |
| Total Primary Jobs | 13,339 | 100% | | | | |

^{*}Note: Indentation indicates that the area is also included wihin the area above it. For example, workers in the City of McMinnville are also counted in the McMinnville School District.

Source: US Census Bureau, LED Origin-Destination Data Base (2011). Jobs covered by unemployment insurance, generally excluding federal government, agricultural, self-employed and domestic workers. Includes at most one (primary) job per resident.

Between 2004 and 2007, Yamhill County added 3,180 jobs—just over eleven percent growth over the three-year period. Growth slowed in early 2008, and the county began to have year-to-year job losses. By 2010, employment had fallen below its 2005 level, mainly due to the loss of 1,860 jobs between 2008 and 2009. Modest growth in employment has occurred since 2010, with a gain of 610 jobs between 2010 and 2012.²

Yamhill County's unemployment rate rose from 5.0 percent in 2007, slightly higher than the U.S. rate of 4.6 percent, to 11.4 percent in 2009. The most recent annual Yamhill County rate of 8.5 percent in 2012 was still above the nation's 8.1 percent rate. Although the unemployment rate

8

¹ U.S. Census Bureau, LED Origin-Destination Database (2nd quarter 2011). Commute shed report for residents of McMinnville School District. Includes workers at firms covered by unemployment insurance (excludes most agricultural jobs and self-employment). http://lehd.did.census.gov/led/.

² "Current Employment by Industry," Oregon Employment Department, OLMIS. Average annual non-farm employment in Yamhill County was 28,420 in 2004, 31,600 in 2007, 29,460 in 2010, and 30,070 in 2012.

has dropped since 2009, both Yamhill County and the U.S. rates remained higher than the prerecession levels.³

More recently, the beginnings of a recovery have become apparent. In Yamhill County, private nonfarm employers added 490 jobs between March 2012 and March 2013. Manufacturing gained 250 jobs over the period. The county's construction sector lost 40 jobs, while educational and health services gained 100 jobs.⁴ Yamhill County's March 2013 unemployment rate of 7.9 percent was slightly lower than the statewide rate of 8.2 percent.

The Oregon Employment Department offered this assessment of Yamhill County employment growth in April 2013:

Spring has arrived in the Willamette Valley, and the valley's economy should begin to thaw out after the winter cold, adding seasonal employment. Spring marks the beginning of a variety of agricultural activities. Agricultural employment grows through the spring and eventually peaks in the summer months. Spring also is when construction employment grows. Although construction may be subdued compared to the previous years during the housing boom; construction employment still increases in the spring and summer months.

[Yamhill County's and Willamette Valley's] employment will grow through the spring as seasonal jobs are added. However, unemployment rates will likely remain higher than normal through 2013.⁵

⁵ Excerpt from: "Recent Trends, Region 3." Oregon Employment Department, OLMIS, April 1, 2013.

³ Local Area Unemployment Statistics, Bureau of Labor Statistics, U.S. Department of Labor.

⁴ Salem Metro Labor Trends, March 2013. Oregon Employment Department.

Housing Growth

The 2010 Census data showed that the number of housing units within the MSD increased by 3,260 (27 percent) between 2000 and 2010. The numeric increase was nearly as large as the 3,559 unit increase in the 1990s. The number of households (occupied housing units) increased at a slower rate each decade, so vacancy rates increased. Table 4 presents housing and household characteristics for MSD compiled from the decennial censuses of 1990, 2000, and 2010. The 2010 Census was conducted at a time of high unemployment and a large inventory of new homes. Still, the District's six percent vacancy rate was only one point higher than in 2000, and was low compared with other parts of Oregon. Among Oregon counties, only Benton, Multnomah, and Washington had lower vacancy rates in 2010 than Yamhill's 6.4 percent. Table 5 presents a summary of the demographic and housing information from the 2010 Census by elementary school attendance area.

Table 4
McMinnville School District
Housing Units, 1990, 2000, and 2010

| | 1990 | 2000 | 2010 |
|------------------------------------|-------------|--------------|--------------------|
| Housing Units | 8,589 | 12,148 | 15,408 |
| 10 year change | | 3,559 41% | 3,260 27% |
| Occupied Housing Units | 8,351 | 11,540 | 14,477 |
| 10 year change | | 3,189 38% | 2,937 25% |
| Vacant Housing Units Vacancy rate | 238 2.8% | 608 5.0% | 931 <i>6.0%</i> |

Source: U.S. Census Bureau, 1990, 2000, and 2010 Censuses; data aggregated to MSD boundary by Population Research Center, PSU.

Table 5

McMinnville School District

Population, Households, and Housing Units by Elementary Area, 2010 Census

| | Population | | | Households | | | | |
|-----------------------|------------|----------|---------|--------------------------|------------------------------|---|---------------------------------------|----------------------------------|
| Elementary Area | Total | Age 5-17 | < Age 5 | Total House- holds | With Children < Age 18 | Share of HHs with persons < Age 18 | Popu- lation in House- holds | Persons per House- hold |
| Buel Elementary | 7887 | 1256 | 529 | 2468 | 830 | 34% | 6686 | 2.71 |
| Columbus Elementary | 5920 | 1147 | 438 | 2244 | 807 | 36% | 5847 | 2.61 |
| Grandhaven Elementary | 6097 | 1244 | 520 | 2248 | 872 | 39% | 5952 | 2.65 |
| Memorial Elementary | 9060 | 1547 | 523 | 3456 | 1075 | 31% | 8853 | 2.56 |
| Newby Elementary | 6378 | 1199 | 489 | 2452 | 862 | 35% | 6283 | 2.56 |
| Wascher Elementary | 4792 | 1071 | 365 | 1609 | 688 | 43% | 4788 | 2.98 |
| MSD Total | 40,134 | 7,464 | 2,864 | 14,477 | 5,134 | 35% | 38,409 | 2.65 |

| | | Housing Units | | | | | | | |
|-----------------------|---------------------------|---------------|--------|-----------------|-------------------|--------------------|------------------------------|--|--|
| Elementary Area | Total Housing Units | Occupied | Vacant | Vacancy Rate | Owner Occupied | Renter Occupied | Percent Owner Occupied | | |
| Buel Elementary | 2661 | 2468 | 193 | 7.3% | 1305 | 1163 | 53% | | |
| Columbus Elementary | 2332 | 2244 | 88 | 3.8% | 1332 | 912 | 59% | | |
| Grandhaven Elementary | 2380 | 2248 | 132 | 5.5% | 1085 | 1163 | 48% | | |
| Memorial Elementary | 3660 | 3456 | 204 | 5.6% | 2528 | 928 | 73% | | |
| Newby Elementary | 2633 | 2452 | 181 | 6.9% | 1453 | 999 | 59% | | |
| Wascher Elementary | 1742 | 1609 | 133 | 7.6% | 1285 | 324 | 80% | | |
| MSD Total | 15,408 | 14,477 | 931 | 6.0% | 8,988 | 5,489 | 62% | | |

Source: 2010 Census, Summary File 1, census block data aggregated to approximate MSD attendance areas by PSU, Population Research Center.

Residential building permit activity within the City of McMinnville and City of Lafayette in each of the past 17 years is presented in Table 6. Between 2000 and 2006, the housing development pace was rapid, with an average of 293 housing units added each year for McMinnville and an average of 58 housing units added each year for Lafayette. In the period between 2007 and 2012, the average annual added housing units dropped to 100 and 15 units per year for McMinnville and Lafayette, respectively. The decline in housing development correlates with the economic downturn, but activity may finally be increasing. In the first four months of 2013, the City of McMinnville issued 18 permits for new single family homes, and Building Department

reports indicate that an additional five homes were permitted in May, 2013. ⁶ Many buildable lots remain in subdivisions that were platted several years ago. Some of these subdivisions are seeing renewed activity. For example, new homes are under construction or recently completed within the Memorial (Michelbook Meadows), Columbus (West Valley Estates; Valley's Edge), Newby (Forest Glen), Buel (Norton Crest), and Wachser (Hidden Meadows Ridge) Elementary attendance areas.

Table 6
Housing Units Authorized by Building Permits
Cities of McMinnville and Lafayette

| | • | | | | | | | |
|--------------------|---------------|--------------------|---------------|--------------------|--|--|--|--|
| | City of Mo | Minnville | City of La | afayette | | | | |
| Year Permit Issued | Single Family | Multiple Family | Single Family | Multiple Family | | | | |
| 1996 | 239 | 41 | N/A | N/A | | | | |
| 1997 | 105 | 82 | N/A | N/A | | | | |
| 1998 | 153 | 21 | N/A | N/A | | | | |
| 1999 | 149 | 109 | N/A | N/A | | | | |
| 2000 | 140 | 231 | N/A | N/A | | | | |
| 2001 | 187 | 62 | 7 | 0 | | | | |
| 2002 | 232 | 72 | 66 | 0 | | | | |
| 2003 | 265 | 24 | 41 | 0 | | | | |
| 2004 | 258 | 56 | 18 | 0 | | | | |
| 2005 | 202 | 139 | 114 | 0 | | | | |
| 2006 | 189 | 0 | 107 | 0 | | | | |
| 2007 | 181 | 66 | 54 | 0 | | | | |
| 2008 | 75 | 80 | 10 | 0 | | | | |
| 2009 | 42 | 0 | 4 | 0 | | | | |
| 2010 | 37 | 7 | 2 | 0 | | | | |
| 2011 | 37 | 36 | 12 | 0 | | | | |
| 2012 | 40 | 4 | 5 | 0 | | | | |
| 2013 (Jan-Apr) | 18 | 0 | 5 | 0 | | | | |

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

⁶ U.S. Census Bureau, Residential Construction Branch. Data available for counties and cities at http://censtats.census.gov/bldg/bldgprmt.shtml.

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ENROLLMENT TRENDS

The McMinnville School District (MSD) enrolled 6,464 students in Fall 2012, which was within one percent of the Fall 2010 and Fall 2011 K-12 totals. The relatively stable enrollment of the past two years contrasts with the sharp decline experienced in 2010-11 and with the long period of growth that occurred until 2009-10. Between 2011-12 and 2012-13, elementary grades (K-5th) enrollment was stable, with a loss of just eight students (0.3 percent); middle school grades (6th-8th) added 17 students (1.1 percent), and high school grades (9th-12th) declined by 35 students (1.7 percent).

The District's K-12 enrollment peaked at 6,567 three years ago, in 2009-10. In 2012-13 enrollment was about 100 students lower than the peak. The decline has occurred mostly at the elementary level, which lost 91 students (3.0 percent) in the three year period. Middle school enrollment in 2012-13 was the largest ever, having gained 54 students (3.6 percent) in the past three years. High school enrollment also peaked in 2009-10, and has fallen by 66 students (3.2 percent) since.

The district's overall 1.6 percent enrollment loss since 2009-10 is a reversal from the steady growth that occurred until 2009-10, but it is consistent with state and local enrollment trends. The State of Oregon experienced a small decline in K-12 enrollment between 2009-10 and 2011-12, and after modest growth in 2012-13, statewide enrollment is only two-tenths of a percent higher than in 2009-10. Among the six other Yamhill County districts, Newberg S.D. enrolled about the same number of students in 2012-13 as in 2009-10, and four of the five smaller districts lost enrollment. In addition to long term trends including lower fertility rates and an aging population, recent flat or declining enrollment can be attributed to job losses suffered during the recent recession and the slow recovery, which has resulted in much smaller than normal in-migration levels. Also, the MSD experienced a net loss of students to neighboring districts due to Oregon's new open enrollment policy.

Table 7 summarizes the enrollment history for the District by grade level annually from 2002-03 to 2012-13. This includes the five year period between 2003-04 and 2008-09, when the District added 780 students.

Table 7 McMinnville School District, Enrollment History, 2002-03 to 2012-13

| Grade | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| K | 411 | 424 | 460 | 448 | 502 | 459 | 487 | 460 | 440 | 510 | 503 |
| 1 | 433 | 440 | 435 | 480 | 482 | 528 | 497 | 485 | 463 | 437 | 531 |
| 2 | 439 | 451 | 451 | 458 | 510 | 498 | 541 | 514 | 479 | 487 | 431 |
| 3 | 479 | 436 | 457 | 463 | 483 | 516 | 505 | 537 | 509 | 477 | 495 |
| 4 | 427 | 474 | 446 | 476 | 485 | 496 | 522 | 514 | 528 | 514 | 460 |
| 5 | 437 | 426 | 477 | 451 | 487 | 475 | 485 | 521 | 514 | 523 | 520 |
| 6 | 450 | 458 | 435 | 511 | 481 | 486 | 515 | 500 | 522 | 521 | 511 |
| 7 | 452 | 463 | 464 | 446 | 539 | 478 | 489 | 502 | 491 | 515 | 524 |
| 8 | 441 | 449 | 464 | 458 | 456 | 529 | 488 | 500 | 482 | 503 | 521 |
| 9 | 458 | 449 | 453 | 475 | 488 | 470 | 546 | 497 | 490 | 487 | 500 |
| 10 | 418 | 448 | 447 | 459 | 477 | 483 | 463 | 542 | 481 | 492 | 478 |
| 11 | 415 | 401 | 425 | 459 | 446 | 465 | 455 | 470 | 516 | 465 | 477 |
| 12 | 446 | 422 | 430 | 446 | 496 | 484 | 528 | 525 | 496 | 559 | 513 |
| Total | 5,706 | 5,741 | 5,844 | 6,030 | 6,332 | 6,367 | 6,521 | 6,567 | 6,411 | 6,490 | 6,464 |
| Annual oh | ~~~ | 35 | 103 | 186 | 302 | 35 | 154 | 46 | -156 | 79 | -26 |
| Annual ch | unge | 0.6% | 1.8% | 3.2% | 5.0% | 0.6% | 2.4% | 0.7% | -2.4% | 1.2% | -0.4% |
| K-5 | 2,626 | 2,651 | 2,726 | 2,776 | 2,949 | 2,972 | 3,037 | 3,031 | 2,937 | 2,948 | 2,940 |
| 6-8 | 1,343 | 1,370 | 1,363 | 1,415 | 1,476 | 1,493 | 1,492 | 1,502 | 1,495 | 1,539 | 1,556 |
| 9-12 | 1,737 | 1,720 | 1,755 | 1,839 | 1,907 | 1,902 | 1,992 | 2,034 | 1,979 | 2,003 | 1,968 |

| | | Change: to 2007-08 |
|-------|--------|-----------------------|
| | Change | Pct. |
| K-5 | 346 | 13% |
| 6-8 | 150 | 11% |
| 9-12 | 165 | 9% |
| Total | 661 | 12% |

| | 5 Year Change: 2007-08 to 2012-13 | | | | | |
|--------|--------------------------------------|--|--|--|--|--|
| Change | Pct. | | | | | |
| -32 | -1% | | | | | |
| 63 | 4% | | | | | |
| 66 | 3% | | | | | |
| 97 | 2% | | | | | |

| 10 Year Change: 2002-03 to 2012-13 | | | | |
|---------------------------------------|------|--|--|--|
| Change | Pct. | | | |
| 314 | 12% | | | |
| 213 | 16% | | | |
| 231 | 13% | | | |
| 758 | 13% | | | |

Sources: Oregon Department of Education; MSD

Inter-District Transfers

In each of the past several years the MSD has had a net loss of students due to inter-district transfers, as there have been fewer students from other public school districts transferring into the District than District residents transferring out. The net impact of these transfers fluctuated only slightly between 2008-09 and 2011-12. During this period, state policy prescribed that students who wanted to attend a public school outside their resident district had to gain approval from their home district and from the district that they wanted to attend, and that

| Inte | er-District Tran | Table 8 sfers and | Open Enrollr | nent | | |
|---------|------------------|--------------------|--------------------|------|--|--|
| | | Out of MSD | | | | |
| | Into MSD | Inter- District | Open Enrollment | Net | | |
| 2008-09 | | | • | | | |
| K-5 | 21 | 65 | | -44 | | |
| 6-8 | 14 | 28 | | -14 | | |
| 9-12 | 31 | 69 | | -38 | | |
| Net | 66 | 162 | 0 | -96 | | |
| 2009-10 | | | | | | |
| K-5 | 24 | 54 | | -30 | | |
| 6-8 | 12 | 25 | | -13 | | |
| 9-12 | 28 | 54 | | -26 | | |
| Net | 64 | 133 | 0 | -69 | | |
| 2010-11 | | | | | | |
| K-5 | 23 | 56 | | -33 | | |
| 6-8 | 11 | 37 | | -26 | | |
| 9-12 | 23 | 59 | | -36 | | |
| Net | 57 | 152 | 0 | -95 | | |
| 2011-12 | | | | | | |
| K-5 | 22 | 58 | | -36 | | |
| 6-8 | 8 | 30 | | -22 | | |
| 9-12 | 32 | 72 | | -40 | | |
| Net | 62 | 160 | 0 | -98 | | |
| 2012-13 | | | | | | |
| K-5 | 22 | 21 | 47 | -46 | | |
| 6-8 | 11 | 15 | 29 | -33 | | |
| 9-12 | 33 | 35 | 47 | -49 | | |
| Net | 66 | 71 | 123 | -128 | | |

approval had to be renewed each year. Although inter-district transfers may still be granted under the old policy, Oregon adopted a new open enrollment policy in 2012, under which students may transfer without approval of their home district to a district that designates available spaces at its schools. In 2012-13, there was a net loss of 128 K-12 students through a combination of open enrollment and inter-district transfers, as shown in Table 8. This net loss was 59 students greater than in 2009-10, accounting for a large share of the 103 student loss during the three year period. The largest recipients of MSD residents were, in descending order, Amity, Dayton, and Yamhill-Carlton School Districts.

Neighboring Districts

Table 9 displays several facts about MSD demographic and enrollment trends in comparison to three other nearby Yamhill County school districts. The MSD has had more population growth than neighboring districts in each of the last two decades, and in spite of recent decline, its long term enrollment growth has outpaced its neighbors since the mid-1990s. MSD also has a relatively high share of Latino enrollment and a larger multiple family housing unit share compared to its neighboring districts. Amity and Dayton have exhibited the recent enrollment declines common in most rural communities in Oregon, although Amity's enrollment grew between 2011-12 and 2012-13 in part due to an increase in inter-district transfers.

Table 9
Selected Yamhill County School Districts
Demographic and Enrollment Highlights, 1990 to 2012

| <u> </u> | | <u> </u> | | |
|--|--------|----------|-------------|---------|
| | Amity | Dayton | McMinnville | Newberg |
| Enrollment growth, 1990-91 to 1995-96 | 20% | 19% | 19% | 12% |
| Enrollment growth, 1995-96 to 2000-01 | -6% | 7% | 12% | 4% |
| Enrollment growth, 2000-01 to 2005-06 | -5% | 4% | 11% | 6% |
| Enrollment growth, 2005-06 to 2012-13 | 2% | -9% | 7% | -1% |
| Latino enrollment, 2012-13 | 13% | 37% | 32% | 19% |
| Grades 9-12 enrollment, 2012-13 | 34% | 33% | 30% | 31% |
| Population growth, 2000 to 2010 | 4% | 12% | 21% | 17% |
| Multi-family housing share, 2010 | 26% | 26% | 33% | 24% |
| Population age 5 to 17, 2000 | 6% | 7% | 7% | 7% |
| Population age 5 to 17, 2010 | 19% | 21% | 19% | 18% |
| Population under age 5, 2000 | 6.3% | 6.6% | 7.3% | 7.2% |
| Population under age 5, 2010 | 5.9% | 7.5% | 7.1% | 6.2% |
| Population rural, 2010 | 100.0% | 39.7% | 9.8% | 20.4% |

Data assembled by Population Research Center, PSU, from several sources: U.S. Census Bureau; McMinnville S.D.; OR Dept. of Education; U.S. Dept. of Education.

Enrollment Trends at Individual Schools

All of the elementary schools had boundary changes coinciding with the opening of Buel and closing of Cook in 2008. Boundaries for the two middle schools also underwent changes in 2008. An additional change occurred when portions of Buel's boundary were transferred to Memorial in 2009. Because of the significant changes that occurred in 2008, long-range historic trends for individual schools are not reported in this study. Table 10 shows enrollment at each of the District's schools for each of the five school years beginning in 2008-09, and the final columns show the four year enrollment change for each school.

Each of the District's elementary schools experienced enrollment losses between 2008-09 and 2012-13, with the exception of Grandhaven and Newby. Newby has grown for six consecutive years, including 2008 when its boundary was expanded. Wachser remained the MSD's smallest elementary school with 374 students; the other five now have total enrollments in a relatively narrow range between 492 and 532 students.

District-wide middle school enrollment remained relatively stable between 2008-09 and 2010-11, but grew between 2010-11 and 2012-13 due to greater incoming 6th grade classes compared to the exiting 8th grade classes. Duniway's enrollment increased by 100 students in the past four years, while Patton's enrollment has declined somewhat. The combined enrollment in the District's high school programs has been relatively stable at close to 2,000 students.

Table 10 Enrollment History for Individual Schools, 2008-09 to 2012-13

| | | His | toric Enrolln | nent | | Change 2008-09 to 2012- | | |
|-------------------------|---------|---------|---------------|---------|---------|-------------------------|---------|--|
| School | 2008-09 | 2009-10 | 2010-11 | 2011-12 | 2012-13 | Number | Percent | |
| Buel Elementary | 580 | 543 | 509 | 492 | 527 | -53 | -9.1% | |
| Columbus Elementary | 554 | 524 | 514 | 501 | 508 | -46 | -8.3% | |
| Grandhaven Elementary | 527 | 521 | 496 | 534 | 532 | 5 | 0.9% | |
| Memorial Elementary | 510 | 545 | 525 | 527 | 492 | -18 | -3.5% | |
| Newby Elementary | 449 | 478 | 492 | 494 | 507 | 58 | 12.9% | |
| Wascher Elementary | 417 | 420 | 397 | 400 | 374 | -43 | -10.3% | |
| Elementary Totals | 3,037 | 3,031 | 2,933 | 2,948 | 2,940 | -97 | -3.2% | |
| E | | | | | | | | |
| Duniway Middle School | 652 | 684 | 698 | 759 | 752 | 100 | 15.3% | |
| Patton Middle School | 840 | 818 | 797 | 780 | 804 | -36 | -4.3% | |
| Middle School Totals | 1,492 | 1,502 | 1,495 | 1,539 | 1,556 | 64 | 4.3% | |
| | | | | | | | | |
| McMinnville High School | 1,771 | 1,765 | 1,745 | 2,003 | 1,968 | | | |
| MACA | 221 | 269 | 238 | | | | | |
| High School Totals | 1,992 | 2,034 | 1,983 | 2,003 | 1,968 | -24 | -1.2% | |
| · | | | | | f | | | |
| District Totals | 6,521 | 6,567 | 6,411 | 6,490 | 6,464 | -57 | -0.9% | |

Source: McMinnville School District.

ENROLLMENT FORECASTS

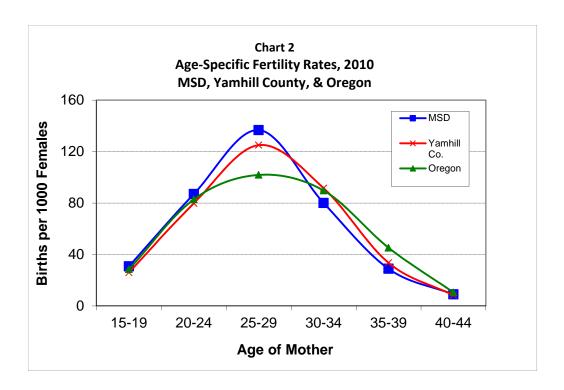
District-wide Long-range Forecast Methodology

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 2010, 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 2010 age-specific fertility rates for the MSD, Yamhill County, and the State of Oregon are shown in Chart 2. MSD age-specific fertility rates for women under 25 years old are similar to those of the County and of the State. The rates for women 25 years old to 29 years old were higher for the MSD and Yamhill County than for the State. Fertility rates for MSD women 30 and over are similar to both the County and the State.



The total fertility rate (TFR) is another measure for fertility; it 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 decreased from 2.10 in 2000 to 1.86 in 2010. Similarly, drops in TFRs were observed in Yamhill County and the State during the past decade. In 2000, the TFRs were 2.12 for Yamhill County and 1.98 for the State; while in 2010, the TFRs were 1.82 for Yamhill County and 1.79 for the State.

State and national long term trends indicate declining fertility rates for women under 30 and increasing rates for women 30 and over, but fertility rates in 2010 were unusually low due as a likely result of the poor economy. Birth totals fell more than eight percent in the U.S. and Oregon between 2007 and 2011.⁷ The Pew Research Center's analysis of multiple economic and demographic data sources confirms the close correlation between the economic downturn and the nation's decline in birth rates.⁸ They report that 2011 birth rates are the lowest ever

⁷ "Births: Preliminary Data for 2011." National Vital Statistics Report, Volume 61, Number 05, National Center for Health Statistics; *Oregon Vital Statistics Annual Report 2011 Volume 1*, Oregon Health Authority, Center for Health Statistics.

⁸ "In a Down Economy, Fewer Births." Pew Research Center, Pew Social & Demographic Trends, October 2011.

recorded, including plunges in the rates for foreign-born women (14 percent decline between 2007 and 2010), particularly Mexican immigrant women (23 percent decline). Future trends in birth rates are uncertain. If couples have simply postponed having children due to the recession, rates may increase. However, Latino birth rates may continue to fall as a higher share of adult Latinos are native-U.S. born, with increasing educational attainment. In these forecasts, birth rates for all age groups between 20 and 39 increase slightly between 2010 and 2015, but remain below their 2000 levels throughout the forecast horizon.

| Table 11 Estimated and Forecast Births McMinnville School District | | | | |
|--|--------|--|--|--|
| Year | Births | | | |
| 2000 | 509 | | | |
| 2001 | 508 | | | |
| 2002 | 519 | | | |
| 2003 | 542 | | | |
| 2004 | 543 | | | |
| 2005 | 525 | | | |
| 2006 | 594 | | | |
| 2007 | 612 | | | |
| 2008 | 577 | | | |
| 2009 | 542 | | | |
| 2010 | 488 | | | |
| 2011 | 516 | | | |
| 2012 (fore cast) | 516 | | | |
| 2013 (fore cast) | 526 | | | |
| 2014 (fore cast) | 537 | | | |
| 2015 (fore cast) | 548 | | | |
| 2016 (forecast) | 554 | | | |
| 2017 (forecast) | 560 | | | |

Source: 2000-2011 birth data from Oregon Center for Health Statistics allocated to MSD boundary by PSU-PRC. 2012-2017 forecasts, PSU-PRC.

Table 11 shows historic births from 2000 to 2011 as well as forecasts from 2012 until 2017, the period that will have an impact on the enrollment forecasts presented in this study. The number of births in MSD generally increased in the early 2000s; however, the number of births has fallen

⁹ "U.S. Birth Rate Falls to a Record Low; Decline Is Greatest Among Immigrants." Pew Research Center, Pew Social & Demographic Trends, November 2012.

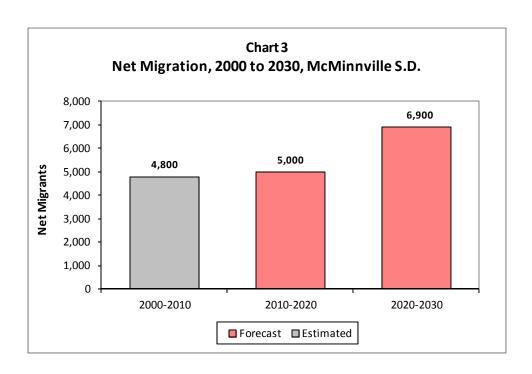
from its 2007 peak, coinciding with the economic downturn. However, births are forecast to increase slightly from 2012 to 2017, attributable mostly to overall population growth.

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 MSD 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.

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) is 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, usually 1.00 for elementary grades, 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.

Population Forecast

Census data shows that the District added about 3,000 fewer residents in the 2000s than in the 1990s. Most of the difference was due to a lower level of positive net migration (more people moving in than moving out). Natural increase (births minus deaths) has also contributed less to population growth since 2000 due to an aging population and lower fertility. Although slow growth has persisted in the first two years of this decade, growth due to net migration is forecast to be slightly higher in the 2010 to 2020 period than in the 2000 to 2010 period. Chart 3 shows the 2000 to 2010 estimates and 2010 to 2030 forecast of MSD population growth attributable to net migration.



The district-wide population by age group is presented in Table 12. The forecast for 2020 population in the MSD is 46,291, an increase of 6,157 persons from the 2010 Census (1.4 percent average annual growth). School-age population (5 to 17) is forecast to change very little, largely due to the decline that has occurred between 2010 and 2013. The slight rebound between 2013 and 2020 is expected to yield some growth for the decade. The forecast shows a 225 person (three percent) gain in school-age population between 2010 and 2020. However, the share of population age 5-17 is expected to drop from 18.6 percent in 2010 to 16.6 percent in 2020. By 2020, the fastest growing age groups are the "baby boom" generation that will be in its 60s and 70s. Population age 55 and older in the District is forecast to account for more than sixty percent of the District's growth between 2010 and 2020.

Table 12
Population by Age Group, History and Forecast
McMinnville School District, 2000 to 2030

| | 2000 | 2010 | 2020 | 2030 | 2010 to 20 | 30 Change |
|-------------------|--------|--------|----------|----------|------------|-----------|
| | Census | Census | Forecast | Forecast | Number | Percent |
| Under Age 5 | 2,445 | 2,864 | 2,912 | 3,194 | 330 | 12% |
| Age 5 to 9 | 2,483 | 2,850 | 2,815 | 3,222 | 372 | 13% |
| Age 10 to 14 | 2,420 | 2,921 | 3,110 | 3,246 | 325 | 11% |
| Age 15 to 17 | 1,451 | 1,693 | 1,764 | 1,892 | 199 | 12% |
| Age 18 to 19 | 1,410 | 1,527 | 1,840 | 1,709 | 182 | 12% |
| Age 20 to 24 | 2,981 | 3,080 | 3,556 | 3,818 | 738 | 24% |
| Age 25 to 29 | 2,102 | 2,433 | 2,740 | 3,215 | 782 | 32% |
| Age 30 to 34 | 2,229 | 2,511 | 2,599 | 3,155 | 644 | 26% |
| Age 35 to 39 | 2,282 | 2,457 | 2,758 | 3,213 | 756 | 31% |
| Age 40 to 44 | 2,292 | 2,470 | 2,719 | 2,907 | 437 | 18% |
| Age 45 to 49 | 2,154 | 2,443 | 2,650 | 3,071 | 628 | 26% |
| Age 50 to 54 | 1,828 | 2,477 | 2,615 | 2,993 | 516 | 21% |
| Age 55 to 59 | 1,393 | 2,422 | 2,666 | 3,008 | 586 | 24% |
| Age 60 to 64 | 1,057 | 2,119 | 2,760 | 3,031 | 912 | 43% |
| Age 65 to 69 | 1,059 | 1,676 | 2,760 | 3,157 | 1,481 | 88% |
| Age 70 to 74 | 1,060 | 1,239 | 2,339 | 3,181 | 1,942 | 157% |
| Age 75 to 79 | 1,047 | 1,019 | 1,542 | 2,602 | 1,583 | 155% |
| Age 80 to 84 | 753 | 891 | 987 | 1,916 | 1,025 | 115% |
| Age 85 and over | 660 | 1,042 | 1,159 | 1,473 | 431 | 41% |
| Total Population | 33,106 | 40,134 | 46,291 | 54,003 | 13,869 | 35% |
| Total age 5 to 17 | 6,354 | 7,464 | 7,689 | 8,360 | 896 | 12% |
| share age 5 to 17 | 19.2% | 18.6% | 16.6% | 15.5% | | |

| | 2000-2010 | 2010-2020 | 2020-2030 |
|-------------------|-----------|-----------|-----------|
| Population Change | 7,028 | 6,157 | 7,712 |
| Percent | 21% | 15% | 17% |
| Average Annual | 1.9% | 1.4% | 1.6% |

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

Population forecasts for the District are consistent with the coordinated county and city forecasts that were adopted by Yamhill County in November, 2012. The average annual growth rates for the District are less than the rates for the Cities of McMinnville and Lafayette, because the District includes unincorporated areas, which are expected to grow more slowly than the cities. The comparison between the county, cities, and school district population growth rates is provided in Table 13.

Table 13

Comparison of Population Growth Rates
Yamhill County, Cities, and McMinnville S.D.

| | Average Annual Growth Rates | | | | |
|------------------------------------|-----------------------------|--------------------------|---------------------------|---------------------------|--|
| Area | 1990 to 2000 Historic | 2000 to 2010 Historic | 2010 to 2020 Forecast* | 2020 to 2030 Forecast* | |
| Yamhill County ¹ | 2.6% | 1.6% | 1.5% | 1.5% | |
| City of McMinnville ¹ | 4.0% | 2.0% | 1.6% | 1.9% | |
| City of Lafayette ¹ | 7.2% | 3.8% | 1.6% | 2.0% | |
| Unincorp. Yamhill Co. ¹ | 1.3% | -0.5% | 0.4% | 0.0% | |
| McMinnville S.D. ² | 1.8% | 1.9% | 1.4% | 1.6% | |

^{*}Note: Forecasts for the City of McMinnville include the city and its current urban growth boundary (UGB); forecasts for the county's unincorporated areas exclude portions within current UGBs.

District-wide Enrollment Forecast

These enrollment forecasts rely primarily on input from three general sources of information: births, recent enrollment history, and assumptions about future migration. In the model used to produce the forecast, we base assumptions about future migration levels on recent migration trends and recent city and county forecasts.

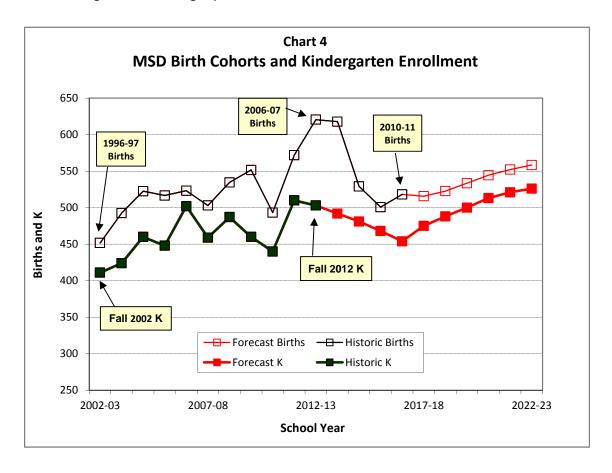
Births to women residing within the specific boundaries of the District were estimated for the years 2000 to 2012, in a model that incorporates individual birth records, zip code summaries, and projections for the most recent years for which actual births are not yet published. The births are grouped by kindergarten cohort (September to August). Kindergarten enrollment is affected by migration between birth and age five as well as the District's capture rate.

Chart 4 compares the historic and forecast number of births in the District with the historic and forecast number of MSD kindergarten students. The trend in births correspond to kindergarten cohorts (September to August) in general; however, external factors, such as migration of children into and out of the District between birth and age five and private school enrollment, can alter the correlations between lagged births and kindergarten enrollment. The gap between

^{1.} Census data, 1990, 2000, and 2010; growth rates for 2010 to 2030 from "Population Forecasts for Yamhill County, its Cities and Unincorporated Area 2011-2035." Population Research Center, College of Urban and Public Affairs, Portland State University, October 2012.

^{2.} McMinnville School District Population Forecast, PSU, Population Research Center, May 2013.

births and kindergarten enrollment is now wider than it was 10 years ago, as a consequence of lower net migration, declining capture rates, or some combination of the two factors.



Kindergarten and first grade capture rates are shown in Table 14. The higher rates for first grade reflect the fact that additional residents enter MSD schools after completing their kindergarten year in private schools. Beginning in 2015-16, kindergarten capture rates increase based on the plans of the state to fund full-day kindergarten.

| Estimated and Forecast Capture Rates* McMinnville School District | | | | |
|---|--------------|---------|--|--|
| School Year | Kindergarten | Grade 1 | | |
| 1999-2000 (census) | 0.80 | 0.85 | | |
| 2009-2010 (census) | 0.83 | 0.90 | | |
| 2019-2020 (forecast) | 0.87 | 0.88 | | |

A grade progression rate (GPR) is the ratio of enrollment in a specific grade in one year to the enrollment of the same age cohort 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 K-1st and 8th-9th grade transitions. In grades 10, 11, or 12, low GPRs can indicate that students are dropping out of District schools or entering programs not counted in regular enrollment summaries. For most elementary grades, if the population entering and leaving the District is in balance, one can expect GPRs very close to 1.00.

The District's growth was historically fueled by migration; there were consistently more households moving in than out. This migration contributed to the long term growth in District births and subsequent kindergarten enrollments, as shown in Chart 4. Table 15 illustrates how the MSD gained students due to migration at most elementary grades. During the seven years between 2002-03 and 2009-10, average GPRs for elementary and middle grades were mostly in the range between 1.01 and 1.03, indicating growing enrollments due to migration. For the most recent three years, from 2009-10 to 2012-13, average elementary and middle grades GPRs range from 0.99 to 1.01, indicating little or no net change due to migration. The forecast includes more enrollment growth due to migration than in the last few years, due to anticipated economic recovery and resumed demand for new housing within the District. However, growth at the levels observed in the mid-2000s is not expected within the forecast horizon.

Table 15
Grade Progression Rates¹
McMinnville S.D. History and Forecast

| Grade | 10 Year Average: 2002-03 to | 3 Year Average: 2009-10 to | Baseline (without the influence of | Forecast Average: 2012-13 to |
|------------|-----------------------------------|----------------------------------|--|------------------------------------|
| Transition | 2012-13 | 2012-13 | migration) | 2022-23 |
| K-1 | 1.04 | 1.01 | 2 | 1.03 |
| 1-2 | 1.03 | 1.01 | 1.00 | 1.01 |
| 2-3 | 1.01 | 1.00 | 1.00 | 1.01 |
| 3-4 | 1.01 | 0.99 | 1.00 | 1.01 |
| 4-5 | 1.00 | 1.00 | 1.00 | 1.01 |
| 5-6 | 1.03 | 1.00 | 1.01 | 1.01 |
| 6-7 | 1.01 | 0.99 | 1.00 | 1.00 |
| 7-8 | 1.00 | 1.00 | 1.00 | 1.00 |
| 8-9 | 1.02 | 0.99 | 1.01 | 1.02 |
| 9-10 | 0.99 | 0.98 | 0.98 | 0.99 |
| 10-11 | 0.97 | 0.96 | 0.97 | 0.98 |
| 11-12 | 1.08 | 1.08 | 1.10 | 1.11 |

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

The forecast indicates relatively stable enrollment at elementary and middle levels, and growth at high school in the first year, 2013-14. Both elementary and high school levels continue to grow through 2016-17, while middle school enrollment declines, as the current relatively small 2nd and 4th grade classes enter middle school. The decline in birth rates between 2007 and 2011 will result in smaller kindergarten classes through at least 2016-17, limiting the potential for even greater elementary enrollment growth than what is expected due to in-migration of families.

Table 16 contains grade level forecasts for the McMinnville School District for each year from 2013-14 to 2022-23. The forecasts are also summarized by grade level groups (K-5, 6-8, and 9-12). Overall K-12 enrollment growth of 401 students (six percent) is forecast from 2012-13 to 2022-23.

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

Table 16
McMinnville School District, Enrollment Forecasts, 2013-14 to 2022-23

| | Actual | | | | | Fore | cast | | | | |
|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Grade | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| K | 503 | 492 | 481 | 468 | 454 | 475 | 488 | 500 | 513 | 521 | 526 |
| 1 | 531 | 524 | 512 | 502 | 477 | 464 | 485 | 498 | 509 | 522 | 530 |
| 2 | 431 | 535 | 529 | 519 | 510 | 484 | 471 | 492 | 504 | 515 | 528 |
| 3 | 495 | 434 | 541 | 536 | 527 | 518 | 491 | 478 | 498 | 510 | 521 |
| 4 | 460 | 498 | 438 | 547 | 543 | 534 | 525 | 498 | 483 | 503 | 515 |
| 5 | 520 | 463 | 502 | 443 | 554 | 550 | 541 | 531 | 503 | 488 | 508 |
| 6 | 511 | 526 | 469 | 510 | 450 | 563 | 559 | 550 | 539 | 510 | 495 |
| 7 | 524 | 511 | 527 | 471 | 513 | 453 | 566 | 562 | 552 | 541 | 512 |
| 8 | 521 | 524 | 512 | 529 | 474 | 516 | 455 | 569 | 564 | 554 | 543 |
| 9 | 500 | 529 | 533 | 521 | 539 | 483 | 526 | 464 | 579 | 574 | 564 |
| 10 | 478 | 492 | 522 | 526 | 515 | 533 | 478 | 520 | 458 | 572 | 567 |
| 11 | 477 | 466 | 480 | 510 | 515 | 504 | 522 | 468 | 508 | 448 | 559 |
| 12 | 513 | 527 | 516 | 532 | 566 | 572 | 559 | 579 | 519 | 563 | 497 |
| Total | 6,464 | 6,521 | 6,562 | 6,614 | 6,637 | 6,649 | 6,666 | 6,709 | 6,729 | 6,821 | 6,865 |
| A | | 57 | 41 | 52 | 23 | 12 | 17 | 43 | 20 | 92 | 44 |
| Annual ch | iange | 0.9% | 0.6% | 0.8% | 0.3% | 0.2% | 0.3% | 0.6% | 0.3% | 1.4% | 0.6% |
| K-5 | 2,940 | 2,946 | 3,003 | 3,015 | 3,065 | 3,025 | 3,001 | 2,997 | 3,010 | 3,059 | 3,128 |
| 6-8 | 1,556 | 1,561 | 1,508 | 1,510 | 1,437 | 1,532 | 1,580 | 1,681 | 1,655 | 1,605 | 1,550 |
| 9-12 | 1,968 | 2,014 | 2,051 | 2,089 | 2,135 | 2,092 | 2,085 | 2,031 | 2,064 | 2,157 | 2,187 |

| | 5 Year Growth: | | 5 Year G | irowth: | 10 Year Growth: | | |
|-------|----------------|---------|------------|---------|-----------------|-----------|--|
| | 2012-13 to | 2017-18 | 2017-18 to | 2022-23 | 2012-13 t | o 2022-23 | |
| | Growth | Pct. | Growth | Pct. | Growth | Pct. | |
| K-5 | 85 | 3% | 103 | 3% | 188 | 6% | |
| 6-8 | -24 | -2% | 18 | 1% | -6 | 0% | |
| 9-12 | 124 | 6% | 95 | 5% | 219 | 11% | |
| Total | 185 | 3% | 216 | 3% | 401 | 6% | |

Population Research Center, Portland State University, May 2013

Individual School Forecasts

Forecasts are prepared for individual schools under a scenario in which the 2012-13 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 were unchanged.

The methodology for the individual school forecasts relies on unique sets of grade progression rates for each school. New kindergarten classes were forecast each year based on recent trends within elementary attendance areas. Subsequent grades were forecast using GPRs based initially on recent rates for the school and adjusted based on expected levels of housing growth. The final forecasts for individual schools are controlled to match the district-wide forecasts.

With relatively slow growth forecast, enrollments may be more influenced by the size of cohorts entering and leaving the schools than by new residents attributable to housing growth. For example, Memorial is forecast to lose enrollment because its upper grades are currently much larger than its lower grades. Unless very large kindergarten classes enter Memorial in the next few years, it is likely to lose enrollment. Enrollment gains for other elementary schools are also small, with growth ranging from 10 students at Buel to 31 students at Columbus.

By 2015-16, the two middle schools are forecast to be closer in size than they currently are, due to further losses at Patton over the three year period. High school enrollment is forecast to grow gradually between 2012-13 and 2016-17, then level off. Growth of 124 students is forecast during the five year period.

Table 17 presents the enrollment forecasts for each school, grouped by school level (elementary, middle, and high).

Table 17
McMinnville School District, Enrollment Forecasts, 2013-14 to 2017-18

| | Actual | | | Forecast | | | Cha 2012-13 t | nge o 2017-18 |
|-------------------------|---------|---------|---------|----------|---------|---------|------------------|------------------|
| School | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | Number | Percent |
| Buel Elementary | 527 | 511 | 522 | 526 | 541 | 537 | 10 | 2% |
| Columbus Elementary | 508 | 530 | 538 | 535 | 544 | 539 | 31 | 6% |
| Grandhaven Elementary | 532 | 536 | 540 | 561 | 570 | 553 | 21 | 4% |
| Memorial Elementary | 492 | 477 | 487 | 486 | 487 | 482 | -10 | -2% |
| Newby Elementary | 507 | 520 | 535 | 520 | 525 | 524 | 17 | 3% |
| Wascher Elementary | 374 | 372 | 381 | 387 | 398 | 390 | 16 | 4% |
| Elementary Totals | 2,940 | 2,946 | 3,003 | 3,015 | 3,065 | 3,025 | 85 | 3 % |
| Duniway Middle School | 752 | 750 | 730 | 742 | 727 | 755 | 3 | 0% |
| Patton Middle School | 804 | 811 | 778 | 768 | 710 | 777 | -27 | -3% |
| Middle School Totals | 1,556 | 1,561 | 1,508 | 1,510 | 1,437 | 1,532 | -24 | -2% |
| McMinnville High School | 1,968 | 2,014 | 2,051 | 2,089 | 2,135 | 2,092 | 124 | 6% |
| District Totals | 6,464 | 6,521 | 6,562 | 6,614 | 6,637 | 6,649 | 185 | 3% |

Population Research Center, Portland State University, May 2013.

FORECAST ERROR AND UNCERTAINTY

Forecasts should be understood to represent a range of outcomes even though discrete numbers are provided. In general, forecast error varies according to the size of the population being forecast and the length of the forecast horizon. The smaller the population and the longer the forecast period, the larger the error is likely to be. In particular, the school level forecasts depend on assumptions about the distribution of housing and population growth in small areas within the District, so the error is likely greater than the District-wide forecast error. The forecasts should be used as only one of many tools in the planning process.

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 current forecast relies on a cohort-component model to link population and enrollment over a 10 year period, while the previous forecasts that PRC prepared for MSD relied on a simpler GPR model for a five year forecast, so the methodology is different. However, the forecast prepared two years ago was very accurate for grades seven through twelve; errors for grades K to six were somewhat larger. Total K-12 enrollment was 53 students (0.8 percent) higher than what was forecast two years ago.

The five-year forecast prepared in April 2008 clearly did not anticipate the magnitude of the economic down turn or its impact on MSD enrollment. Forecasts for twelve of the thirteen individual grades were higher than actual enrollment and only four out of thirteen individual grades were within five percent of actual enrollment. Total K-12 enrollment was 510 students (7.9 percent) lower than what was forecast five years ago.

Table 18 compares the actual MSD enrollment by grade level in Fall 2012 with the 2012-13 two-year and five-year forecasts based on historic observations through Fall 2010 and Fall 2007, respectively. Similarly, Table 19 compares the two year enrollment forecasts with actual enrollments for individual schools. As a measure of average error for grade levels and for individual school enrollments, the mean absolute percent error (MAPE) is included in the tables.

Table 18
Fall 2012 Enrollment Compared to Previous Forecasts
By Grade Level

| | | by Grade Level | | | | | | | | | | | |
|-------------------|--------|----------------|--------------|------------------|-------|--------------|------------------|--|--|--|--|--|--|
| | | Tw | o year fored | ast ¹ | Fiv | e year forec | ast ² | | | | | | |
| Grade | Actual | Fcst. | Diff. | Error | Fcst. | Diff. | Error | | | | | | |
| K | 503 | 483 | -20 | -4.0% | 519 | 16 | 3.2% | | | | | | |
| 1 | 531 | 497 | -34 | -6.4% | 553 | 22 | 4.1% | | | | | | |
| 2 | 431 | 451 | 20 | 4.6% | 495 | 64 | 14.8% | | | | | | |
| 3 | 495 | 468 | -27 | -5.5% | 556 | 61 | 12.3% | | | | | | |
| 4 | 460 | 479 | 19 | 4.1% | 542 | 82 | 17.8% | | | | | | |
| 5 | 520 | 509 | -11 | -2.1% | 517 | -3 | -0.6% | | | | | | |
| 6 | 511 | 539 | 28 | 5.5% | 591 | 80 | 15.7% | | | | | | |
| 7 | 524 | 521 | -3 | -0.6% | 555 | 31 | 5.9% | | | | | | |
| 8 | 521 | 514 | -7 | -1.3% | 564 | 43 | 8.3% | | | | | | |
| 9 | 500 | 493 | -7 | -1.4% | 546 | 46 | 9.2% | | | | | | |
| 10 | 478 | 480 | 2 | 0.4% | 515 | 37 | 7.7% | | | | | | |
| 11 | 477 | 469 | -8 | -1.7% | 507 | 30 | 6.3% | | | | | | |
| 12 | 513 | 508 | -5 | -1.0% | 514 | 1 | 0.2% | | | | | | |
| Total | 6,464 | 6,411 | -53 | -0.8% | 6,974 | 510 | 7.9% | | | | | | |
| MAPE ³ | | | | 3.0% | | | 8.2% | | | | | | |

- 1. Forecast for 2012-13 by PSU-PRC, baseline 2010-11 enrollment, January 2011.
- 2. Forecast for 2012-13 by PSU-PRC, baseline 2007-08 enrollment, April 2008.
- 3. Mean absolute percent error for individual grades K-12.

Table 19
Fall 2012 Enrollment Compared to Previous Forecast
By Individual School

| | | Two year forecast ¹ | | | | |
|--------------------------------------|--------|--------------------------------|-------|--------|--|--|
| School | Actual | Fcst. | Diff. | Error | | |
| Buel Elementary | 527 | 525 | -2 | -0.4% | | |
| Columbus Elementary | 508 | 511 | 3 | 0.6% | | |
| Grandhaven Elementary | 532 | 470 | -62 | -11.7% | | |
| Memorial Elementary | 492 | 481 | -11 | -2.2% | | |
| Newby Elementary | 507 | 500 | -7 | -1.4% | | |
| Wascher Elementary | 374 | 400 | 26 | 7.0% | | |
| Duniway Middle School | 752 | 753 | 1 | 0.1% | | |
| Patton Middle School | 804 | 821 | 17 | 2.1% | | |
| McMinnville High School ² | 1,968 | 1,950 | -18 | -0.9% | | |
| District | 6,464 | 6,411 | -53 | -0.8% | | |
| MAPE ³ | | | | 2.9% | | |

- 1. Forecast for 2012-13 by PSU-PRC, baseline 2010-11 enrollment, January 2011.
- 2. Forecasts for MHS and MACA combined for comparability to Fall 2012 enrollment.
- 3. Mean absolute percent error for individual schools.

APPENDIX

2000 AND 2010 CENSUS PROFILE

Approximation based on census blocks

| POPULATION | 200 | 00 | 201 | 10 | Change | |
|--------------------|---|--------|--------|--------|--------|--------|
| SEX AND AGE | | | | | | |
| Total population | 33,106 | 100.0% | 40,134 | 100.0% | 7,028 | 21.2% |
| Under 5 years | 2,445 | 7.4% | 2,864 | 7.1% | 419 | 17.1% |
| 5 to 9 years | 2,483 | 7.5% | 2,850 | 7.1% | 367 | 14.8% |
| 10 to 14 years | 2,420 | 7.3% | 2,921 | 7.3% | 501 | 20.7% |
| 15 to 19 years | 2,861 | 8.6% | 3,220 | 8.0% | 359 | 12.5% |
| 20 to 24 years | 2,981 | 9.0% | 3,080 | 7.7% | 99 | 3.3% |
| 25 to 29 years | 2,102 | 6.3% | 2,433 | 6.1% | 331 | 15.7% |
| 30 to 34 years | 2,229 | 6.7% | 2,511 | 6.3% | 282 | 12.7% |
| 35 to 39 years | 2,282 | 6.9% | 2,457 | 6.1% | 175 | 7.7% |
| 40 to 44 years | 2,292 | 6.9% | 2,470 | 6.2% | 178 | 7.8% |
| 45 to 49 years | 2,154 | 6.5% | 2,443 | 6.1% | 289 | 13.4% |
| 50 to 54 years | 1,828 | 5.5% | 2,477 | 6.2% | 649 | 35.5% |
| 55 to 59 years | 1,393 | 4.2% | 2,422 | 6.0% | 1,029 | 73.9% |
| 60 to 64 years | 1,057 | 3.2% | 2,119 | 5.3% | 1,062 | 100.5% |
| 65 to 69 years | 1,059 | 3.2% | 1,676 | 4.2% | 617 | 58.3% |
| 70 to 74 years | 1,060 | 3.2% | 1,239 | 3.1% | 179 | 16.9% |
| 75 to 79 years | 1,047 | 3.2% | 1,019 | 2.5% | -28 | -2.7% |
| 80 to 84 years | 753 | 2.3% | 891 | 2.2% | 138 | 18.3% |
| 85 years and over | 660 | 2.0% | 1,042 | 2.6% | 382 | 57.9% |
| Median age (years) | 32 | | 35. | | 2.6 | |
| Under 18 years | 8,799 | 26.6% | 10,328 | 25.7% | 1,529 | 17.4% |
| 18 to 64 years | 19,728 | 59.6% | 23,939 | 59.6% | 4,211 | 21.3% |
| 65 years and over | 4,579 | 13.8% | 5,867 | 14.6% | 1,288 | 28.1% |
| | , | | | | , | |
| Male population | 16,166 | 100.0% | 19,540 | 100.0% | 3,374 | 20.9% |
| Under 5 years | 1,211 | 7.5% | 1,476 | 7.6% | 265 | 21.9% |
| 5 to 9 years | 1,299 | 8.0% | 1,473 | 7.5% | 174 | 13.4% |
| 10 to 14 years | 1,229 | 7.6% | 1,448 | 7.4% | 219 | 17.8% |
| 15 to 19 years | 1,418 | 8.8% | 1,594 | 8.2% | 176 | 12.4% |
| 20 to 24 years | 1,463 | 9.0% | 1,539 | 7.9% | 76 | 5.2% |
| 25 to 29 years | 1,124 | 7.0% | 1,261 | 6.5% | 137 | 12.2% |
| 30 to 34 years | 1,127 | 7.0% | 1,214 | 6.2% | 87 | 7.7% |
| 35 to 39 years | 1,183 | 7.3% | 1,240 | 6.3% | 57 | 4.8% |
| 40 to 44 years | 1,107 | 6.8% | 1,236 | 6.3% | 129 | 11.7% |
| 45 to 49 years | 1,076 | 6.7% | 1,193 | 6.1% | 117 | 10.9% |
| 50 to 54 years | 915 | 5.7% | 1,195 | 6.1% | 280 | 30.6% |
| 55 to 59 years | 660 | 4.1% | 1,150 | 5.9% | 490 | 74.2% |
| 60 to 64 years | 502 | 3.1% | 1,006 | 5.1% | 504 | 100.4% |
| 65 to 69 years | 458 | 2.8% | 755 | 3.9% | 297 | 64.8% |
| 70 to 74 years | 452 | 2.8% | 586 | 3.0% | 134 | 29.6% |
| 75 to 79 years | 421 | 2.6% | 448 | 2.3% | 27 | 6.4% |
| 80 to 84 years | 291 | 1.8% | 373 | 1.9% | 82 | 28.2% |
| 85 years and over | 230 | 1.8% | 353 | 1.9% | 123 | 53.5% |

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1. Tabulated by Population Research Center, Portland State University.

Approximation based on census blocks

| | | | Д | OXIIIIation | pasea on cer | iouo bioone | |
|--|--------|--------|--------|-------------|--------------|-------------|--|
| POPULATION (continued) | 2000 | | 2010 | | Cha | nge | |
| Male population (continued) | | | | | | | |
| Median age (years) | 31 | .5 | 34. | .0 | 2.5 | | |
| Under 18 years | 4,478 | 27.7% | 5,277 | 27.0% | 799 | 17.8% | |
| 18 to 64 years | 9,836 | 60.8% | 11,748 | 60.1% | 1,912 | 19.4% | |
| 65 years and over | 1,852 | 11.5% | 2,515 | 12.9% | 663 | 35.8% | |
| Female population | 16,940 | 100.0% | 20,594 | 100.0% | 3,654 | 21.6% | |
| Under 5 years | 1,234 | 7.3% | 1,388 | 6.7% | 154 | 12.5% | |
| 5 to 9 years | 1,184 | 7.0% | 1,377 | 6.7% | 193 | 16.3% | |
| 10 to 14 years | 1,191 | 7.0% | 1,473 | 7.2% | 282 | 23.7% | |
| 15 to 19 years | 1,443 | 8.5% | 1,626 | 7.9% | 183 | 12.7% | |
| 20 to 24 years | 1,518 | 9.0% | 1,541 | 7.5% | 23 | 1.5% | |
| 25 to 29 years | 978 | 5.8% | 1,172 | 5.7% | 194 | 19.8% | |
| 30 to 34 years | 1,102 | 6.5% | 1,297 | 6.3% | 195 | 17.7% | |
| 35 to 39 years | 1,099 | 6.5% | 1,217 | 5.9% | 118 | 10.7% | |
| 40 to 44 years | 1,185 | 7.0% | 1,234 | 6.0% | 49 | 4.1% | |
| 45 to 49 years | 1,078 | 6.4% | 1,250 | 6.1% | 172 | 16.0% | |
| 50 to 54 years | 913 | 5.4% | 1,282 | 6.2% | 369 | 40.4% | |
| 55 to 59 years | 733 | 4.3% | 1,272 | 6.2% | 539 | 73.5% | |
| 60 to 64 years | 555 | 3.3% | 1,113 | 5.4% | 558 | 100.5% | |
| 65 to 69 years | 601 | 3.5% | 921 | 4.5% | 320 | 53.2% | |
| 70 to 74 years | 608 | 3.6% | 653 | 3.2% | 45 | 7.4% | |
| 75 to 79 years | 626 | 3.7% | 571 | 2.8% | -55 | -8.8% | |
| 80 to 84 years | 462 | 2.7% | 518 | 2.5% | 56 | 12.1% | |
| 85 years and over | 430 | 2.5% | 689 | 3.3% | 259 | 60.2% | |
| Median age (years) | 34. | .2 | 36 | .7 | 2. | 5 | |
| Under 18 years | 4,321 | 25.5% | 5,051 | 24.5% | 730 | 16.9% | |
| 18 to 64 years | 9,892 | 58.4% | 12,191 | 59.2% | 2,299 | 23.2% | |
| 65 years and over | 2,727 | 16.1% | 3,352 | 16.3% | 625 | 22.9% | |
| AREA AND DENSITY | | | | | | | |
| Land Area - Acres ¹ | 75,1 | 23 | 74,8 | 65 | | | |
| Persons per acre | 0.4 | 4 | 0. | 5 | 0.1 | 21.6% | |
| Persons per square mile | 28 | 2 | 34 | 3 | 61 | 21.6% | |
| RACE | | | | | | | |
| Total population | 33,106 | 100.0% | 40,134 | 100.0% | 7,028 | 21.2% | |
| White alone | 28,905 | 87.3% | 33,487 | 83.4% | 4,582 | 15.9% | |
| Black or African American alone | 200 | 0.6% | 262 | 0.7% | 62 | 31.0% | |
| American Indian and Alaska Native alone | 455 | 1.4% | 496 | 1.2% | 41 | 9.0% | |
| Asian alone | 382 | 1.2% | 556 | 1.4% | 174 | 45.5% | |
| Native Hawaiian and Other Pacific Islander alone | 55 | 0.2% | 64 | 0.2% | 9 | 16.4% | |
| Some Other Race alone | 2,218 | 6.7% | 3,914 | 9.8% | 1,696 | 76.5% | |
| Two or More Races | 891 | 2.7% | 1,355 | 3.4% | 464 | 52.1% | |

Sources: U.S. Census Bureau, 2010 Census, Summary File 1; 2000 Census, Summary File 1. Tabulated by Population Research Center, Portland State University.

Approximation based on census blocks

| Approximation based on census blo | | | | | | | |
|---|---------------------------------------|--------|--------|--------|-------|--------|--|
| POPULATION (continued) | (continued) 2000 2010 | | Cha | nge | | | |
| RACE (continued) | | | | | | | |
| Race alone or in combination with one or more other | races ² | | | | | | |
| White | 29,719 | 89.8% | 34,757 | 86.6% | 5,038 | 17.0% | |
| Black or African American | 302 | 0.9% | 428 | 1.1% | 126 | 41.7% | |
| American Indian and Alaska Native | 749 | 2.3% | 1,002 | 2.5% | 253 | 33.8% | |
| Asian | 622 | 1.9% | 923 | 2.3% | 301 | 48.4% | |
| Native Hawaiian and Other Pacific Islander | 130 | 0.4% | 188 | 0.5% | 58 | 44.6% | |
| Some Other Race | 2,537 | 7.7% | 4,302 | 10.7% | 1,765 | 69.6% | |
| HISPANIC OR LATINO AND RACE | | | | | | | |
| Total population | 33,106 | 100.0% | 40,134 | 100.0% | 7,028 | 21.2% | |
| Hispanic or Latino | 4,569 | 13.8% | 7,749 | 19.3% | 3,180 | 69.6% | |
| Not Hispanic or Latino | 28,537 | 86.2% | 32,385 | 80.7% | 3,848 | 13.5% | |
| White alone | 26,968 | 81.5% | 30,160 | 75.1% | 3,192 | 11.8% | |
| Black or African American alone | 116 | 0.4% | 209 | 0.5% | 93 | 80.2% | |
| American Indian and Alaska Native alone | 407 | 1.2% | 428 | 1.1% | 21 | 5.2% | |
| Asian alone | 374 | 1.1% | 542 | 1.4% | 168 | 44.9% | |
| Native Hawaiian and Other Pacific Islander alone | 50 | 0.2% | 62 | 0.2% | 12 | 24.0% | |
| Some Other Race alone | 36 | 0.1% | 74 | 0.2% | 38 | 105.6% | |
| Two or More Races | 586 | 1.8% | 910 | 2.3% | 324 | 55.3% | |
| RELATIONSHIP | | | | | | | |
| Total population | 33,106 | 100.0% | 40,134 | 100.0% | 7,028 | 21.2% | |
| In households | 31,460 | 95.0% | 38,409 | 95.7% | 6,949 | 22.1% | |
| In family households | 26,863 | 81.1% | 32,493 | 81.0% | 5,630 | 21.0% | |
| Householder | 8,267 | 25.0% | 9,947 | 24.8% | 1,680 | 20.3% | |
| Spouse ³ | 6,577 | 19.9% | 7,437 | 18.5% | 860 | 13.1% | |
| Child | 9,635 | 29.1% | 11,635 | 29.0% | 2,000 | 20.8% | |
| Own child under 18 years | 8,052 | 24.3% | 9,220 | 23.0% | 1,168 | 14.5% | |
| Other relatives | 1,519 | 4.6% | 2,246 | 5.6% | 727 | 47.9% | |
| Nonrelatives | 865 | 2.6% | 1,228 | 3.1% | 363 | 42.0% | |
| In nonfamily households | 4,597 | 13.9% | 5,916 | 14.7% | 1,319 | 28.7% | |
| Householder | 3,377 | 10.2% | 4,530 | 11.3% | 1,153 | 34.1% | |
| Nonrelatives | 1,220 | 3.7% | 1,386 | 3.5% | 166 | 13.6% | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Population under 18 in households | 8,794 | 99.9% | 10,310 | 99.8% | 1,516 | 17.2% | |
| Population 18 to 64 in households | 18,436 | 93.5% | 22,426 | 93.7% | 3,990 | 21.6% | |
| Population 65 and over in households | 4,230 | 92.4% | 5,673 | 96.7% | 1,443 | 34.1% | |
| | | | | | | | |
| In group quarters | 1,646 | 5.0% | 1,725 | 4.3% | 79 | 4.8% | |

Approximation based on census blocks

| POPULATION (continued) | 200 | 00 | 2010 | | Cha | nge | |
|--|-------|--------|-------|--------|------|--------|--|
| GROUP QUARTERS | 1 | | | | 1 | | |
| Total group quarters population | 1,646 | 100.0% | 1,725 | 100.0% | 79 | 4.8% | |
| Institutionalized population | 572 | 34.8% | 396 | 23.0% | -176 | -30.8% | |
| Male | 311 | 18.9% | 247 | 14.3% | -64 | -20.6% | |
| Female | 261 | 15.9% | 149 | 8.6% | -112 | -42.9% | |
| Noninstitutionalized population | 1,074 | 65.2% | 1,329 | 77.0% | 255 | 23.7% | |
| Male | 439 | 26.7% | 563 | 32.6% | 124 | 28.2% | |
| Female | 635 | 38.6% | 766 | 44.4% | 131 | 20.6% | |
| | | | | | | | |
| Population under 18 in group quarters | 5 | 0.1% | 18 | 0.2% | 13 | 260.0% | |
| Population 18 to 64 in group quarters | 1,292 | 6.5% | 1,513 | 6.3% | 221 | 17.1% | |
| Population 65 and over in group quarters | 349 | 7.6% | 194 | 3.3% | -155 | -44.4% | |

| HOUSEHOLDS | 2000 | | 2010 | | Change | |
|---|--------|--------|--------|--------|--------|-------|
| Total households | 11,644 | 100.0% | 14,477 | 100.0% | 2,833 | 24.3% |
| Family households (families) ⁴ | 8,267 | 71.0% | 9,947 | 68.7% | 1,680 | 20.3% |
| With own children under 18 years | 4,162 | 35.7% | 4,676 | 32.3% | 514 | 12.3% |
| Husband-wife family | 6,577 | 56.5% | 7,437 | 51.4% | 860 | 13.1% |
| With own children under 18 years | 3,055 | 26.2% | 3,094 | 21.4% | 39 | 1.3% |
| Male householder, no wife present | 528 | 4.5% | 746 | 5.2% | 218 | 41.3% |
| With own children under 18 years | 320 | 2.7% | 436 | 3.0% | 116 | 36.3% |
| Female householder, no husband present | 1,162 | 10.0% | 1,764 | 12.2% | 602 | 51.8% |
| With own children under 18 years | 787 | 6.8% | 1,146 | 7.9% | 359 | 45.6% |
| Nonfamily households ⁴ | 3,377 | 29.0% | 4,530 | 31.3% | 1,153 | 34.1% |
| Householder living alone | 2,609 | 22.4% | 3,551 | 24.5% | 942 | 36.1% |
| Male | 936 | 8.0% | 1,305 | 9.0% | 369 | 39.4% |
| 65 years and over | 228 | 2.0% | 397 | 2.7% | 169 | 74.1% |
| Female | 1,673 | 14.4% | 2,246 | 15.5% | 573 | 34.2% |
| 65 years and over | 986 | 8.5% | 1,245 | 8.6% | 259 | 26.3% |
| | | | | | | |
| Households with individuals under 18 years | 4,488 | 38.5% | 5,134 | 35.5% | 646 | 14.4% |
| Households with individuals 65 years and over | 3,022 | 26.0% | 4,151 | 28.7% | 1,129 | 37.4% |
| | | | | | | |
| Average household size | 2.7 | 2.70 | | 2.65 | | -1.8% |
| Average family size ⁴ | 3.1 | 3.14 | | 3.14 | | -0.1% |

Approximation based on census blocks

| 2000 | | 2010 | | Change | | | | | |
|--------|---|--------|---|--|---|--|--|--|--|
| 12,258 | 100.0% | 15,408 | 100.0% | 3,150 | 25.7% | | | | |
| 11,644 | 95.0% | 14,477 | 94.0% | 2,833 | 24.3% | | | | |
| 7,503 | 64.4% | 8,988 | 62.1% | 1,485 | 19.8% | | | | |
| N/A | | 6,485 | 72.2% | | | | | | |
| N/A | | 2,503 | 27.8% | | | | | | |
| 4,141 | 35.6% | 5,489 | 37.9% | 1,348 | 32.6% | | | | |
| 614 | 5.0% | 931 | 6.0% | 317 | 51.6% | | | | |
| 272 | 44.3% | 380 | 40.8% | 108 | 39.7% | | | | |
| 139 | 22.6% | 233 | 25.0% | 94 | 67.6% | | | | |
| 36 | 5.9% | 43 | 4.6% | 7 | 19.4% | | | | |
| 50 | 8.1% | 87 | 9.3% | 37 | 74.0% | | | | |
| 2 | 0.3% | 0 | 0.0% | -2 | -100.0% | | | | |
| 115 | 18.7% | 188 | 20.2% | 73 | 63.5% | | | | |
| | | | | | | | | | |
| 7,503 | 64.4% | 8,988 | 62.1% | 1,485 | 19.8% | | | | |
| 20,527 | | 24,072 | | 3,545 | 17.3% | | | | |
| 2.74 | | 2.6 | 2.68 | | -2.2% | | | | |
| 4,141 | 35.6% | 5,489 | 37.9% | 1,348 | 32.6% | | | | |
| 10,933 | | 14,337 | | 3,404 | 31.1% | | | | |
| 2.64 | | 2.61 | | -0.03 | -1.1% | | | | |
| | 12,258 11,644 7,503 N// 4,141 614 272 139 36 50 2 115 7,503 20,5 2,7 4,141 10,9 | 12,258 | 12,258 100.0% 15,408 11,644 95.0% 14,477 7,503 64.4% 8,988 N/A 6,485 N/A 2,503 4,141 35.6% 5,489 614 5.0% 931 272 44.3% 380 139 22.6% 233 36 5.9% 43 50 8.1% 87 2 0.3% 0 115 18.7% 188 7,503 64.4% 8,988 20,527 24,0 2.74 2.6 4,141 35.6% 5,489 10,933 14,3 | 12,258 100.0% 15,408 100.0% 11,644 95.0% 14,477 94.0% 7,503 64.4% 8,988 62.1% N/A 6,485 72.2% N/A 2,503 27.8% 4,141 35.6% 5,489 37.9% 614 5.0% 931 6.0% 272 44.3% 380 40.8% 139 22.6% 233 25.0% 36 5.9% 43 4.6% 50 8.1% 87 9.3% 2 0.3% 0 0.0% 115 18.7% 188 20.2% 7,503 64.4% 8,988 62.1% 20,527 24,072 2.68 4,141 35.6% 5,489 37.9% 10,933 14,337 | 12,258 100.0% 15,408 100.0% 3,150 11,644 95.0% 14,477 94.0% 2,833 7,503 64.4% 8,988 62.1% 1,485 N/A 6,485 72.2% 72.2% 72.2% N/A 2,503 27.8% 27.8% 1,348 614 5.0% 931 6.0% 317 272 44.3% 380 40.8% 108 139 22.6% 233 25.0% 94 36 5.9% 43 4.6% 7 50 8.1% 87 9.3% 37 2 0.3% 0 0.0% -2 115 18.7% 188 20.2% 73 7,503 64.4% 8,988 62.1% 1,485 20,527 24,072 3,545 2.74 2.68 -0.06 4,141 35.6% 5,489 37.9% 1,348 10,933 14,337 | | | | |

- 1. Land area of the census blocks that approximate the area. The same boundaries were used for both 2000 and 2010; any differences in land area between 2000 and 2010 reflect changes to census block geography.
- 2. In combination with one or more of the other races listed. The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.
- 3. "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."
- 4. "Family households" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples unless there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.
- 5. Percentage distribution of ownership categories ("owned with a mortgage or a loan" and "owned free and clear") adds to 100 percent.
- 6. Percentage distribution of vacancy categories ("for rent," etc.) adds to 100 percent.