Oregon Population Forecast Program
Regional Forecast Meeting – March 18, 2015

Preliminary Coordinated Forecasts for Douglas County, its Urban Growth Boundaries (UGBs), and the Area Outside UGBs
 Agenda

• Present and discuss preliminary forecast results
  • Proposed Forecast – March 31, 2015; Posted on Oregon Population Forecast Program (OPFP) website: http://www.pdx.edu/prc/opfp

• Explain our assumptions for future change

• Obtain your feedback
Assumptions for County and Larger Sub-Area Forecasts

1. In general, as the economy continues to strengthen we assume an increase in net in-migration and a corresponding growth in housing construction.
   a) Net in-migration will accelerate in the near-term and then stabilize over time.
2. We incorporate national trends into our assumptions for fertility and mortality rates.
   a) As a result of aging Baby Boomers, deaths increase and peak in 2030, with total deaths tapering through 2050.
   b) Total fertility rates decline throughout the entire forecast period; although only slightly in some areas.
      i. As a result areas will experience natural decrease, or if it is already occurring, a natural decrease of a larger magnitude.
3. Population increases will become more dependent on net in-migration.
   a) Some areas will experience population decreases due to natural decrease around 2030-2040, and will only increase if net in-migration accelerates.
Preliminary Forecast Results

Douglas County—Total Population by Five-year Intervals (2015-2065)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total County Population</th>
<th>AAGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>110,051</td>
<td>0.4%</td>
</tr>
<tr>
<td>2020</td>
<td>115,209</td>
<td>0.9%</td>
</tr>
<tr>
<td>2025</td>
<td>121,408</td>
<td>1.1%</td>
</tr>
<tr>
<td>2030</td>
<td>127,618</td>
<td>1.0%</td>
</tr>
<tr>
<td>2035</td>
<td>132,587</td>
<td>0.8%</td>
</tr>
<tr>
<td>2040</td>
<td>136,945</td>
<td>0.6%</td>
</tr>
<tr>
<td>2045</td>
<td>140,271</td>
<td>0.5%</td>
</tr>
<tr>
<td>2050</td>
<td>143,545</td>
<td>0.5%</td>
</tr>
<tr>
<td>2055</td>
<td>147,033</td>
<td>0.5%</td>
</tr>
<tr>
<td>2060</td>
<td>150,321</td>
<td>0.4%</td>
</tr>
<tr>
<td>2065</td>
<td>153,136</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

Source: Forecast by Population Research Center (PRC)

These numbers represent **Preliminary** Forecast Results
Preliminary Forecast Results

Douglas County—Components of Population Change by Five-year Intervals (2015-2065)

<table>
<thead>
<tr>
<th>Year</th>
<th>Net Migration</th>
<th>Natural Increase</th>
<th>Average Annual Population Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>-1,623</td>
<td>0.4%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2020</td>
<td>4,007</td>
<td>0.9%</td>
<td>0.1%</td>
</tr>
<tr>
<td>2025</td>
<td>6,814</td>
<td>1.1%</td>
<td>0.6%</td>
</tr>
<tr>
<td>2030</td>
<td>7,982</td>
<td>1.0%</td>
<td>0.8%</td>
</tr>
<tr>
<td>2035</td>
<td>8,281</td>
<td>0.8%</td>
<td>0.9%</td>
</tr>
<tr>
<td>2040</td>
<td>7,696</td>
<td>0.5%</td>
<td>0.5%</td>
</tr>
<tr>
<td>2045</td>
<td>8,413</td>
<td>0.5%</td>
<td>0.5%</td>
</tr>
<tr>
<td>2050</td>
<td>7,751</td>
<td>0.5%</td>
<td>0.5%</td>
</tr>
<tr>
<td>2055</td>
<td>8,391</td>
<td>0.4%</td>
<td>0.5%</td>
</tr>
<tr>
<td>2060</td>
<td>8,410</td>
<td>0.4%</td>
<td>0.4%</td>
</tr>
<tr>
<td>2065</td>
<td>8,412</td>
<td>0.6%</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

Source: Forecast by Population Research Center (PRC)

These numbers represent Preliminary Forecast Results.
Historical and Forecast Trends

Douglas County—Average Annual Births

<table>
<thead>
<tr>
<th>Year</th>
<th>Births</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1,102</td>
</tr>
<tr>
<td>2015</td>
<td>1,078</td>
</tr>
<tr>
<td>2020</td>
<td>1,077</td>
</tr>
<tr>
<td>2025</td>
<td>1,095</td>
</tr>
<tr>
<td>2030</td>
<td>1,118</td>
</tr>
<tr>
<td>2035</td>
<td>1,045</td>
</tr>
<tr>
<td>2040</td>
<td>1,130</td>
</tr>
<tr>
<td>2045</td>
<td>1,036</td>
</tr>
<tr>
<td>2050</td>
<td>1,118</td>
</tr>
<tr>
<td>2055</td>
<td>1,120</td>
</tr>
<tr>
<td>2060</td>
<td>1,111</td>
</tr>
<tr>
<td>2065</td>
<td>1,087</td>
</tr>
</tbody>
</table>

Sources: Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.

These numbers represent Preliminary Forecast Results
Historical and Forecast Trends

Douglas County—Average Annual Deaths

<table>
<thead>
<tr>
<th>Year</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>1,244</td>
</tr>
<tr>
<td>2015</td>
<td>1,402</td>
</tr>
<tr>
<td>2020</td>
<td>1,408</td>
</tr>
<tr>
<td>2025</td>
<td>1,451</td>
</tr>
<tr>
<td>2030</td>
<td>1,533</td>
</tr>
<tr>
<td>2035</td>
<td>1,590</td>
</tr>
<tr>
<td>2040</td>
<td>1,941</td>
</tr>
<tr>
<td>2045</td>
<td>1,921</td>
</tr>
<tr>
<td>2050</td>
<td>2,142</td>
</tr>
<tr>
<td>2055</td>
<td>2,104</td>
</tr>
<tr>
<td>2060</td>
<td>2,139</td>
</tr>
<tr>
<td>2065</td>
<td>2,207</td>
</tr>
</tbody>
</table>

Sources: Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.

These numbers represent Preliminary Forecast Results
Historical and Forecast Trends

Douglas County—Average Annual Natural Increase

Sources: Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.

These numbers represent Preliminary Forecast Results
## Total Fertility Rate (TFR)

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2010</th>
<th>2015</th>
<th>2035</th>
<th>2065</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas County</td>
<td>1.96</td>
<td>1.91</td>
<td>1.88</td>
<td>1.85</td>
<td>1.80</td>
</tr>
<tr>
<td>Oregon</td>
<td>1.98</td>
<td>1.79</td>
<td>1.83</td>
<td>1.79</td>
<td>1.73</td>
</tr>
</tbody>
</table>

*Sources: U.S. Census Bureau, 2000 and 2010 Censuses. Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).*

*Note: 2000 and 2010 are annual TFRs, whereas the TFRs for 2015, 2035, and 2065 are for the preceding five-year forecast period. In other words the TFR for 2035 is calculated for the 2030 to 2035 forecast period.*

These numbers represent *Preliminary* Forecast Results.
### Life Expectancy (Years) — Both Genders

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2010</th>
<th>2060</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas County</td>
<td>76</td>
<td>78</td>
<td>85</td>
</tr>
<tr>
<td>Oregon</td>
<td>78</td>
<td>80</td>
<td>87</td>
</tr>
</tbody>
</table>

*Source: U.S. Census Bureau.*
Historical and Forecast Trends

These numbers represent **Preliminary** Forecast Results

**Douglas County—Average Annual Net Migration**

![Bar chart showing average annual net migration for Douglas County from 2010 to 2065.](image)


Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.
These numbers represent *Preliminary* Forecast Results.
Historical and Forecast Trends

Douglas County's Larger Sub-Areas—Average Annual Net Migrants

<table>
<thead>
<tr>
<th></th>
<th>2000-2010</th>
<th>2015-2035</th>
<th>2035-2065</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sutherlin</td>
<td>142</td>
<td>156</td>
<td>137</td>
</tr>
<tr>
<td>Roseburg</td>
<td>187</td>
<td>577</td>
<td>342</td>
</tr>
<tr>
<td>Outside UGBs</td>
<td>539</td>
<td>705</td>
<td>643</td>
</tr>
</tbody>
</table>

Note: The average annual numbers were calculated for the 10 year period (2000-2010), the 20 year period (2015-2035), and the 30 year period (2035-2065)

These numbers represent **Preliminary** Forecast Results
## Preliminary Forecast Results

### County and Larger Sub-Areas—Population and Average Annual Growth Rate (AAGR) (2015, 2035, and 2065)

<table>
<thead>
<tr>
<th>Area</th>
<th>2015</th>
<th>2035</th>
<th>2065</th>
<th>AAGR (2015-2035)</th>
<th>AAGR (2035-2065)</th>
<th>Share of County 2015</th>
<th>Share of County 2035</th>
<th>Share of County 2065</th>
</tr>
</thead>
<tbody>
<tr>
<td>Douglas County</td>
<td>110,051</td>
<td>132,587</td>
<td>153,136</td>
<td>0.9%</td>
<td>0.5%</td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
</tr>
<tr>
<td>Roseburg</td>
<td>30,007</td>
<td>39,802</td>
<td>49,241</td>
<td>1.4%</td>
<td>0.7%</td>
<td>27.3%</td>
<td>30.0%</td>
<td>32.2%</td>
</tr>
<tr>
<td>Sutherlin</td>
<td>8,298</td>
<td>11,096</td>
<td>13,994</td>
<td>1.5%</td>
<td>0.8%</td>
<td>7.5%</td>
<td>8.4%</td>
<td>9.1%</td>
</tr>
<tr>
<td>Smaller UGBs</td>
<td>25,569</td>
<td>30,438</td>
<td>37,088</td>
<td>0.9%</td>
<td>0.7%</td>
<td>23.2%</td>
<td>23.0%</td>
<td>24.2%</td>
</tr>
<tr>
<td>Outside UGBs</td>
<td>46,177</td>
<td>51,252</td>
<td>52,813</td>
<td>0.5%</td>
<td>0.1%</td>
<td>42.0%</td>
<td>38.7%</td>
<td>34.5%</td>
</tr>
</tbody>
</table>

Source: Forecast by Population Research Center (PRC)

1. For simplicity each UGB is referred to by its primary city’s name.
2. Smaller UGBs are those with populations less than 8,000 in forecast launch year.

These numbers represent **Preliminary** Forecast Results.
Assumptions for Smaller Sub-Area Forecasts

1. For UGBs experiencing population growth, we assume a higher growth rate in the near-term, with growth stabilizing over the remainder of the forecast period.
2. If planned housing units were reported in the surveys, then we account for them being constructed over the next 5-10 years.
3. For county sub-areas where population growth has been flat or declined, and there is no planned housing construction, we hold population growth stable with no change.
## Preliminary Forecast Results

### County and Smaller Sub-Areas—Population and AAGR (2015, 2035, and 2065)

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2035</th>
<th>2065</th>
<th>AAGR (2015-2035)</th>
<th>AAGR (2035-2065)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Douglas County</strong></td>
<td>110,051</td>
<td>132,587</td>
<td>153,136</td>
<td>0.9%</td>
<td>0.5%</td>
</tr>
<tr>
<td>Canyonville</td>
<td>2,101</td>
<td>3,243</td>
<td>4,672</td>
<td>2.2%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Drain</td>
<td>1,346</td>
<td>1,510</td>
<td>1,686</td>
<td>0.6%</td>
<td>0.4%</td>
</tr>
<tr>
<td>Elkton</td>
<td>207</td>
<td>293</td>
<td>420</td>
<td>1.7%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Glendale</td>
<td>968</td>
<td>1,189</td>
<td>1,529</td>
<td>1.0%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Myrtle Creek</td>
<td>7,491</td>
<td>8,323</td>
<td>9,141</td>
<td>0.5%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Oakland</td>
<td>1,108</td>
<td>1,221</td>
<td>1,250</td>
<td>0.5%</td>
<td>0.1%</td>
</tr>
<tr>
<td>Reedsport</td>
<td>4,237</td>
<td>4,723</td>
<td>4,903</td>
<td>0.5%</td>
<td>0.1%</td>
</tr>
<tr>
<td>Riddle</td>
<td>1,172</td>
<td>1,245</td>
<td>1,262</td>
<td>0.3%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Winston</td>
<td>5,851</td>
<td>7,560</td>
<td>11,095</td>
<td>1.3%</td>
<td>1.3%</td>
</tr>
<tr>
<td>Yoncalla</td>
<td>1,088</td>
<td>1,130</td>
<td>1,131</td>
<td>0.2%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Larger UGBs</td>
<td>38,306</td>
<td>50,898</td>
<td>63,235</td>
<td>1.4%</td>
<td>0.7%</td>
</tr>
<tr>
<td>Outside UGBs</td>
<td>46,177</td>
<td>51,252</td>
<td>52,813</td>
<td>0.5%</td>
<td>0.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Share of County 2015</th>
<th>Share of County 2035</th>
<th>Share of County 2065</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Douglas County</strong></td>
<td>100.0%</td>
<td>100.0%</td>
<td>100.0%</td>
</tr>
<tr>
<td>Canyonville</td>
<td>1.9%</td>
<td>2.4%</td>
<td>3.1%</td>
</tr>
<tr>
<td>Drain</td>
<td>1.2%</td>
<td>1.1%</td>
<td>1.1%</td>
</tr>
<tr>
<td>Elkton</td>
<td>0.2%</td>
<td>0.2%</td>
<td>0.3%</td>
</tr>
<tr>
<td>Glendale</td>
<td>0.9%</td>
<td>0.9%</td>
<td>1.0%</td>
</tr>
<tr>
<td>Myrtle Creek</td>
<td>6.8%</td>
<td>6.3%</td>
<td>6.0%</td>
</tr>
<tr>
<td>Oakland</td>
<td>1.0%</td>
<td>0.9%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Reedsport</td>
<td>3.8%</td>
<td>3.6%</td>
<td>3.2%</td>
</tr>
<tr>
<td>Riddle</td>
<td>1.1%</td>
<td>0.9%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Winston</td>
<td>5.3%</td>
<td>5.7%</td>
<td>7.2%</td>
</tr>
<tr>
<td>Yoncalla</td>
<td>1.0%</td>
<td>0.9%</td>
<td>0.7%</td>
</tr>
<tr>
<td>Larger UGBs</td>
<td>34.8%</td>
<td>38.4%</td>
<td>41.3%</td>
</tr>
<tr>
<td>Outside UGBs</td>
<td>42.0%</td>
<td>38.7%</td>
<td>34.5%</td>
</tr>
</tbody>
</table>

*Source: Forecast by Population Research Center (PRC)*

1. For simplicity each UGB is referred to by its primary city’s name.
2. Larger UGBs are those with populations greater than 8,000 in forecast launch year.
Historical and Forecast Populations for Douglas County and its Sub-Areas

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Douglas County</strong></td>
<td>100,399</td>
<td>107,667</td>
<td>0.7%</td>
<td>110,051</td>
<td>132,587</td>
</tr>
<tr>
<td>Canyonville</td>
<td>1,498</td>
<td>2,005</td>
<td>3.0%</td>
<td>2,101</td>
<td>3,243</td>
</tr>
<tr>
<td>Drain</td>
<td>1,204</td>
<td>1,352</td>
<td>1.2%</td>
<td>1,346</td>
<td>1,510</td>
</tr>
<tr>
<td>Elkton</td>
<td>169</td>
<td>195</td>
<td>1.4%</td>
<td>207</td>
<td>293</td>
</tr>
<tr>
<td>Glendale</td>
<td>946</td>
<td>979</td>
<td>0.3%</td>
<td>968</td>
<td>1,189</td>
</tr>
<tr>
<td>Myrtle Creek</td>
<td>6,998</td>
<td>7,478</td>
<td>0.7%</td>
<td>7,491</td>
<td>8,323</td>
</tr>
<tr>
<td>Oakland</td>
<td>1,117</td>
<td>1,097</td>
<td>-0.2%</td>
<td>1,108</td>
<td>1,221</td>
</tr>
<tr>
<td>Reedsport</td>
<td>4,437</td>
<td>4,244</td>
<td>-0.4%</td>
<td>4,237</td>
<td>4,723</td>
</tr>
<tr>
<td>Riddle</td>
<td>1,030</td>
<td>1,182</td>
<td>1.4%</td>
<td>1,172</td>
<td>1,245</td>
</tr>
<tr>
<td>Roseburg</td>
<td>26,599</td>
<td>28,344</td>
<td>0.6%</td>
<td>30,007</td>
<td>39,802</td>
</tr>
<tr>
<td>Sutherlin</td>
<td>6,883</td>
<td>8,138</td>
<td>1.7%</td>
<td>8,298</td>
<td>11,096</td>
</tr>
<tr>
<td>Winston</td>
<td>4,917</td>
<td>5,571</td>
<td>1.3%</td>
<td>5,851</td>
<td>7,560</td>
</tr>
<tr>
<td>Yoncalla</td>
<td>1,082</td>
<td>1,085</td>
<td>0.0%</td>
<td>1,088</td>
<td>1,130</td>
</tr>
<tr>
<td>Outside UGBs</td>
<td>43,519</td>
<td>45,997</td>
<td>0.6%</td>
<td>46,177</td>
<td>51,252</td>
</tr>
</tbody>
</table>

Sources: U.S. Census Bureau, 2000 and 2010 Censuses; Population Research Center (PRC)

1 For simplicity each UGB is referred to by its primary city's name.
Local Input and Additional Information

• Questions?
• Discussion time