

Oregon Population Forecast Program

Regional Forecast Meeting – February 28, 2018

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

Oregon Population Forecast Program Project Team

Nick Chun,
Population Forecast Program Manager

Kevin Rancik,
GIS and Research Analyst

Deborah Loftus,
Administrative Assistant

Rhey Haggerty,
Graduate Research Assistant

Joshua Ollinger,
Graduate Research Assistant

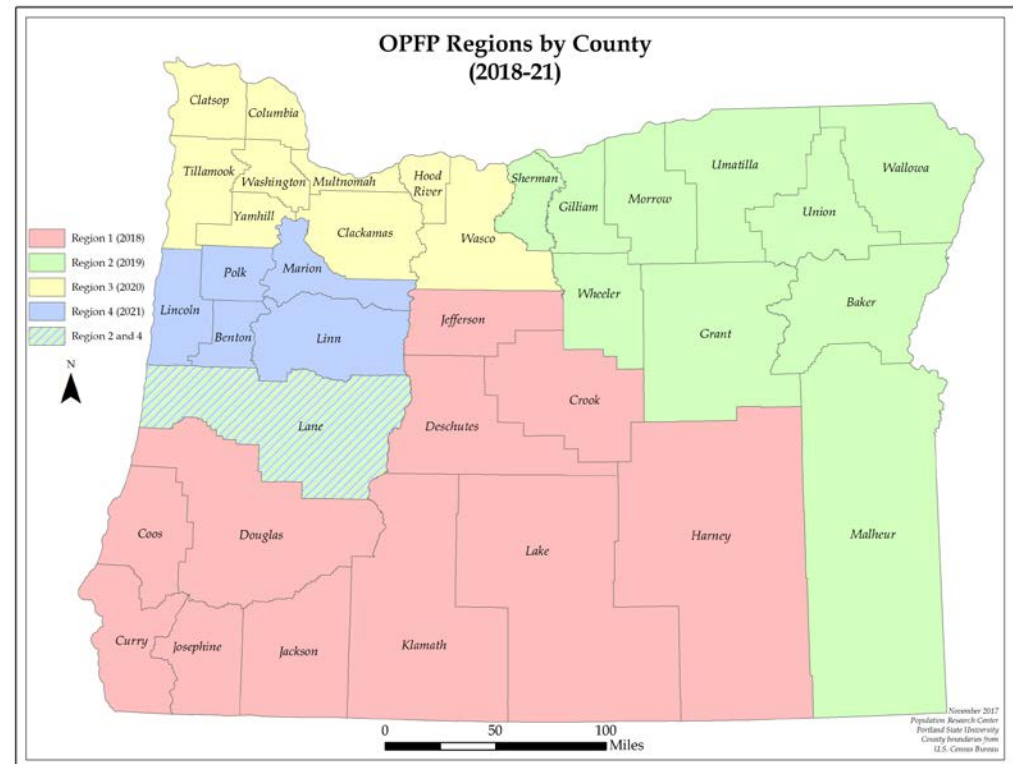
Charles Rynerson,
Research Consultant

Agenda

- Present and discuss preliminary forecast results
 - Proposed Forecasts by March 31st, 2018; To be posted on Oregon Population Forecast Program (OPFP) website:
<http://www.pdx.edu/prc/opfp>
- Explain our assumptions for future change
- Obtain your feedback

2018-2021 Update

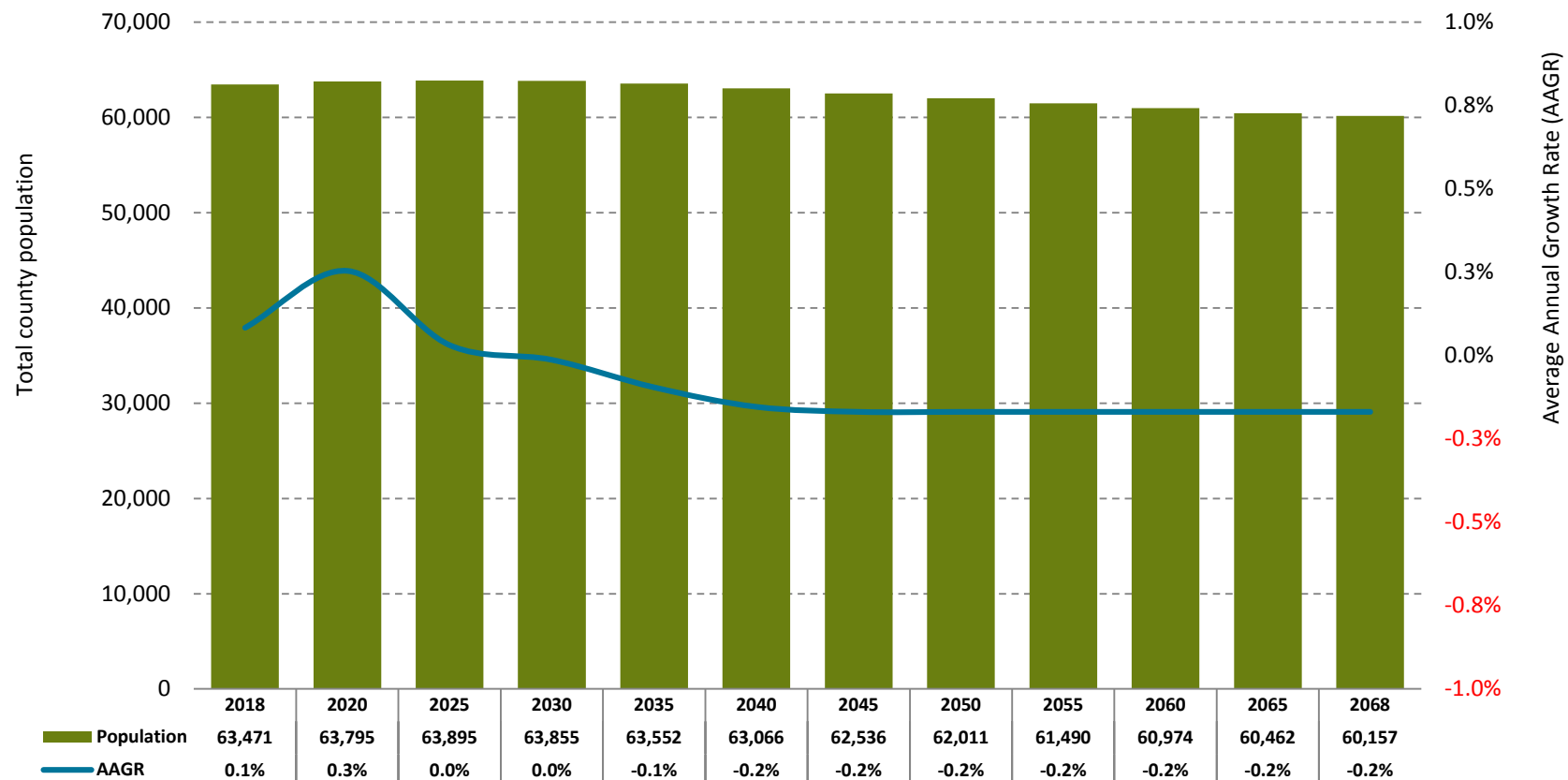
- Modified Methodology (50 Year Period)
- Forecast Methods (2018-43)
 - Cohort-Component and Housing Unit Model
- Modified Method (2043-68):
 - County: AAGR of the last 5 year period (2040-45) is extrapolated out for the remaining 25 years.
 - Sub-areas: Trend the sub-area share of the County for the remaining 25 years.



Assumptions for Coos County and Larger Sub-Area Forecasts

1. As the economy strengthens and Oregon's population ages, we assume net in-migration and housing construction to increase into the 2010-20 decade.
 - a) Despite the recent influx of net in-migration over the last few years, we expect growth to regress during early 2020's as the economy contracts.
 - b) Net in-migration will occur over the entire forecast horizon.
2. We incorporate state and local trends into our assumptions for fertility and mortality.
 - a) As a result of aging Baby Boomers, deaths increase and peak in the 2040's, with total deaths tapering through 2050.
 - b) Total fertility rates remain stable throughout the period.
 - c) As a result, the County and its sub-areas will continue to experience a natural decrease at a growing magnitude.
3. Total population is expected to decline as natural decrease outpaces net in-migration.

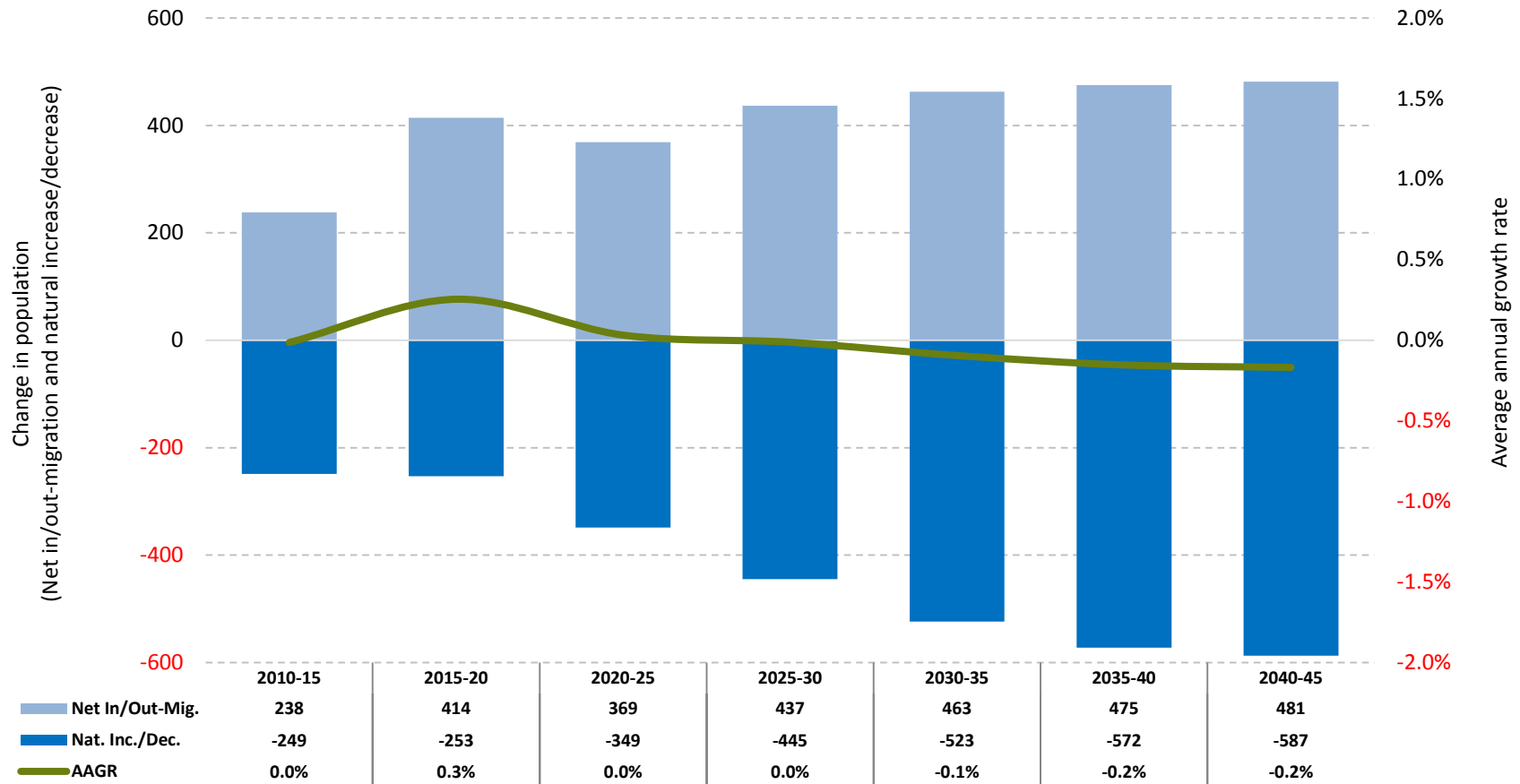
Coos County—Total Population by Five-year Intervals (2018-2068)



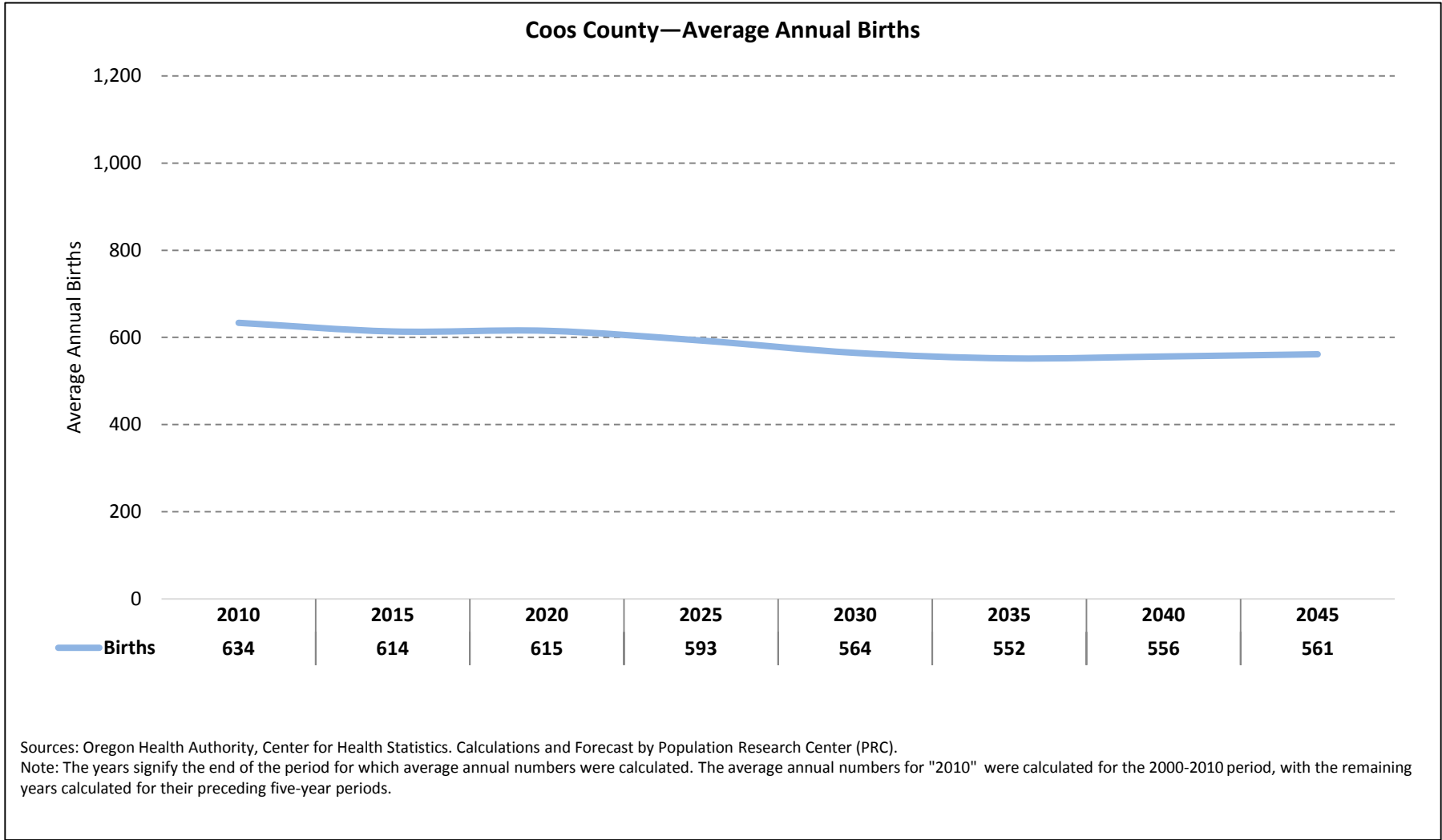
Source: Forecast by Population Research Center (PRC).

Preliminary Forecast Results

Coos County—Components of Population Change by Five-year Intervals (2015-2045)



Source: Forecast by Population Research Center (PRC)



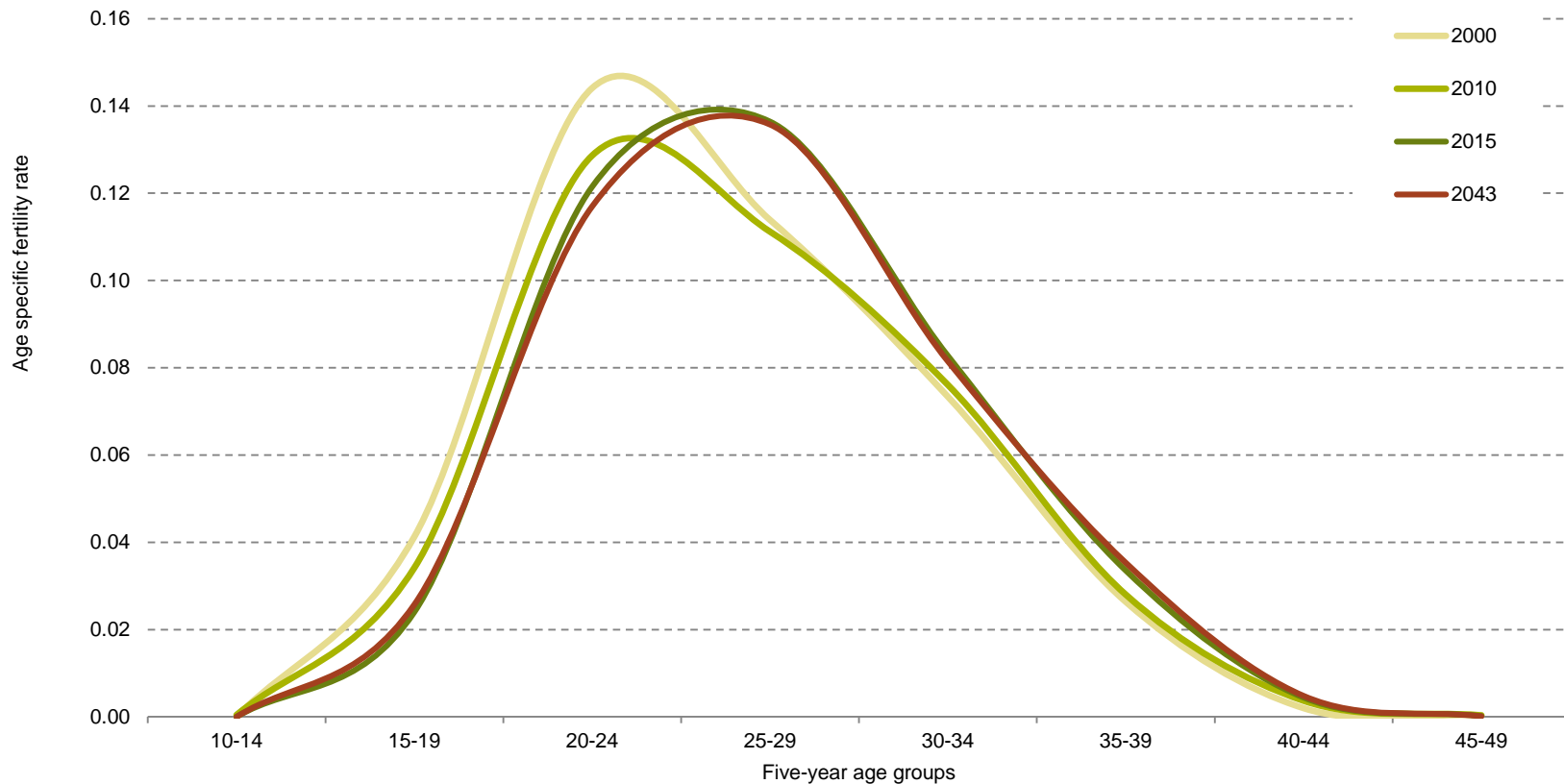
Total Fertility Rate (TFR)

	2000	2010	2015	2043
Coos County	2.01	1.91	2.01	2.00
Oregon	1.98	1.81	1.72	--

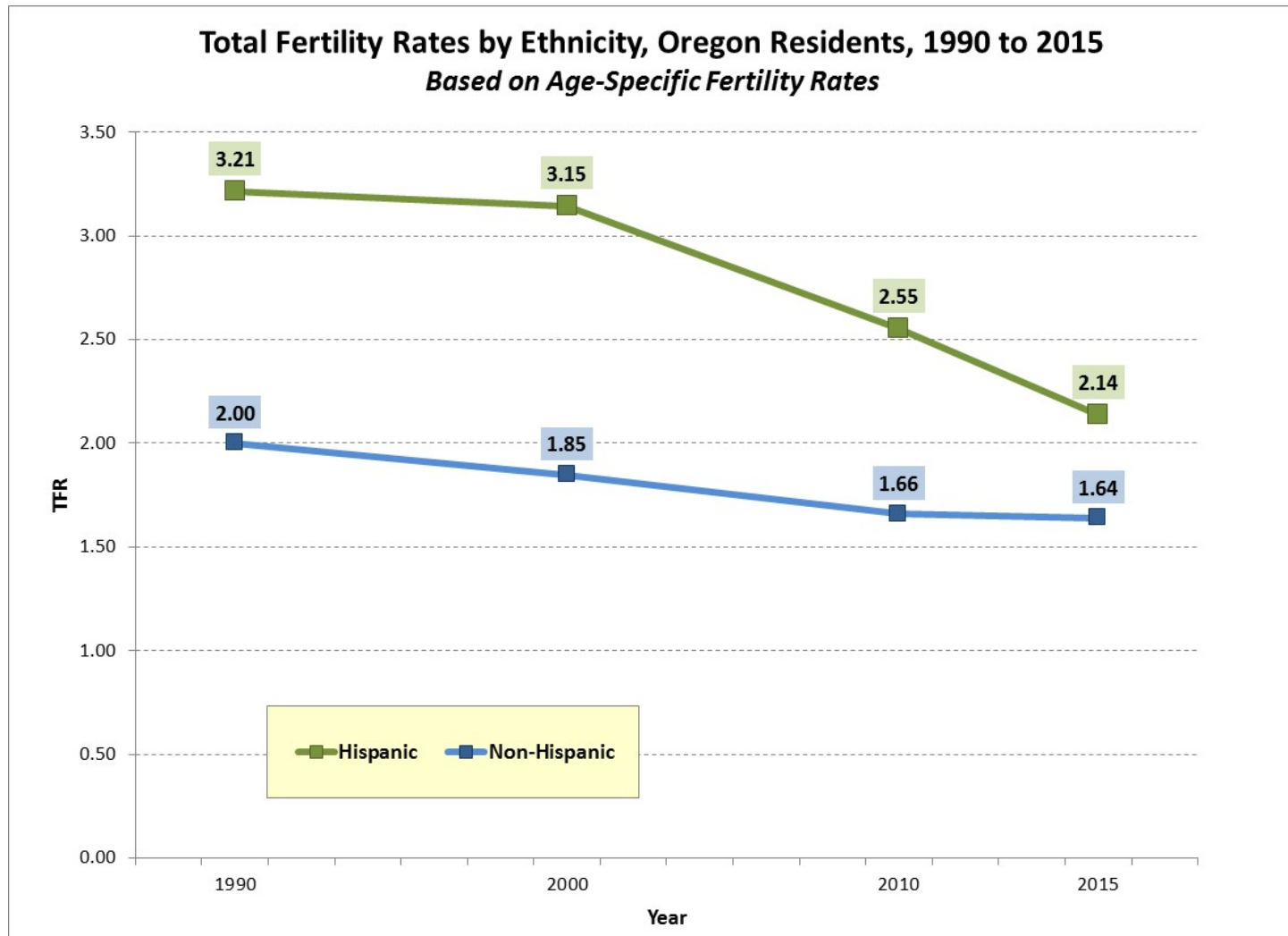
Sources: U.S. Census Bureau, 2000 and 2010 Censuses. PRC Estimates. Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).

Note: 2000, 2010 and 2015 are annual TFRs, whereas the TFR for 2043 is for the preceding five-year forecast period. In other words the TFR for 2043 is calculated for the 2040 to 2045 forecast period.

Coos County—Age Specific Fertility Rate (2000, 2010, 2015 and 2043)



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

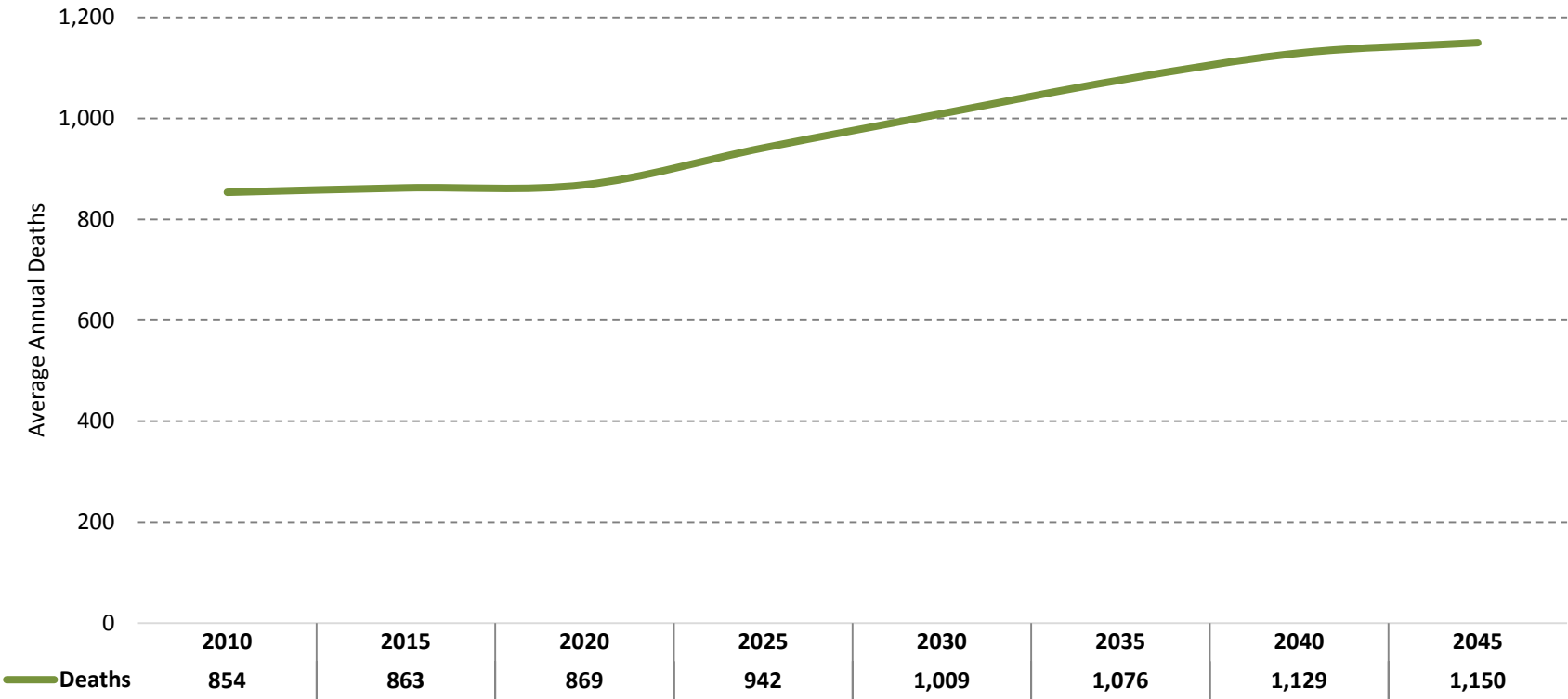


Sources: PEPASR6H-Geography-OregonYear-July 1, 2015 and July 1, 2010

Hispanic Origin-Hispanic: Annual Estimates of the Resident Population by Sex, Age, Race, and Hispanic Origin for the United States and States: April 1, 2010 to July 1, 2015

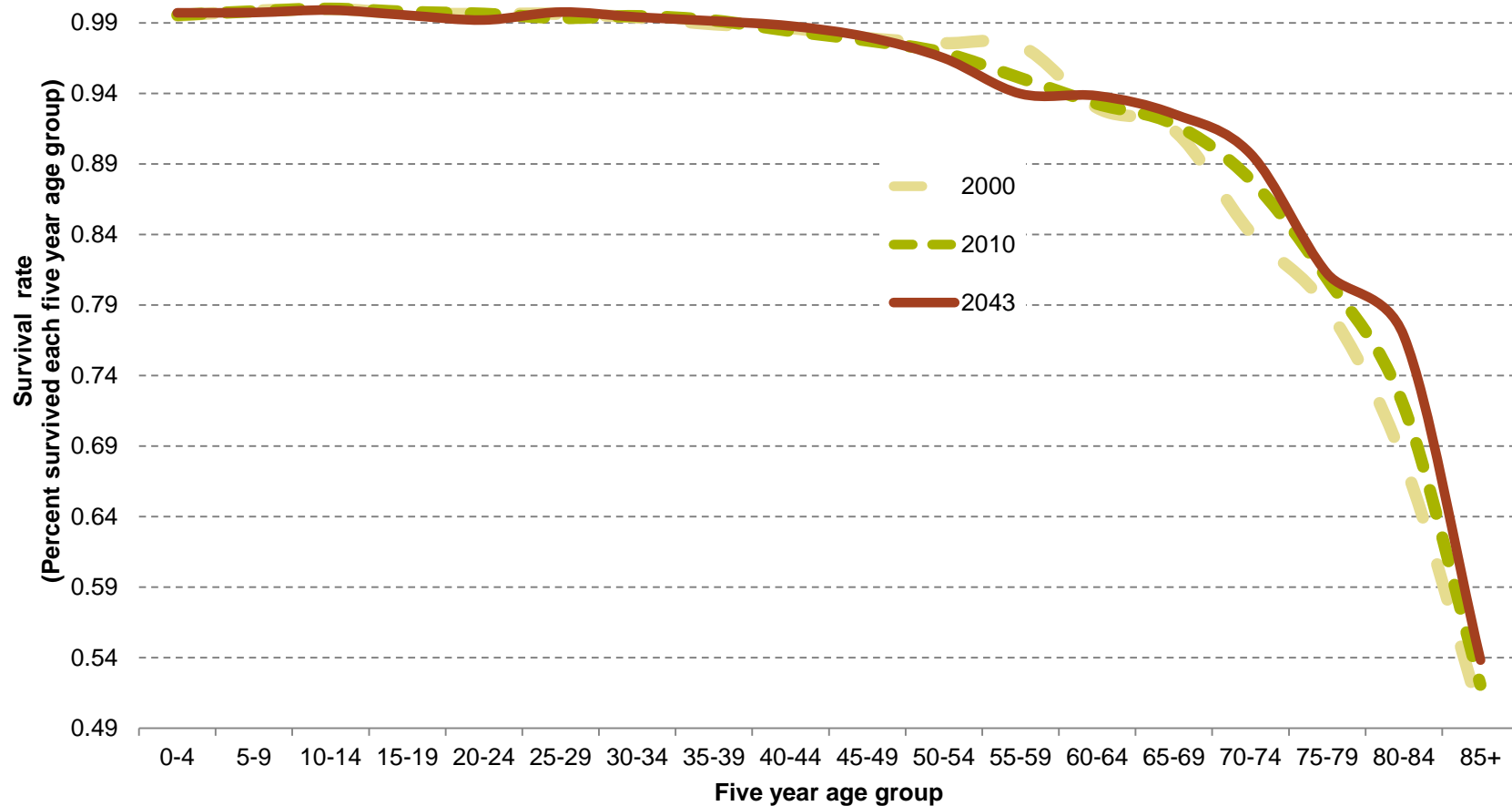
Population Research Center (PRC): 2015 Population Estimates

Coos County—Average Annual Deaths



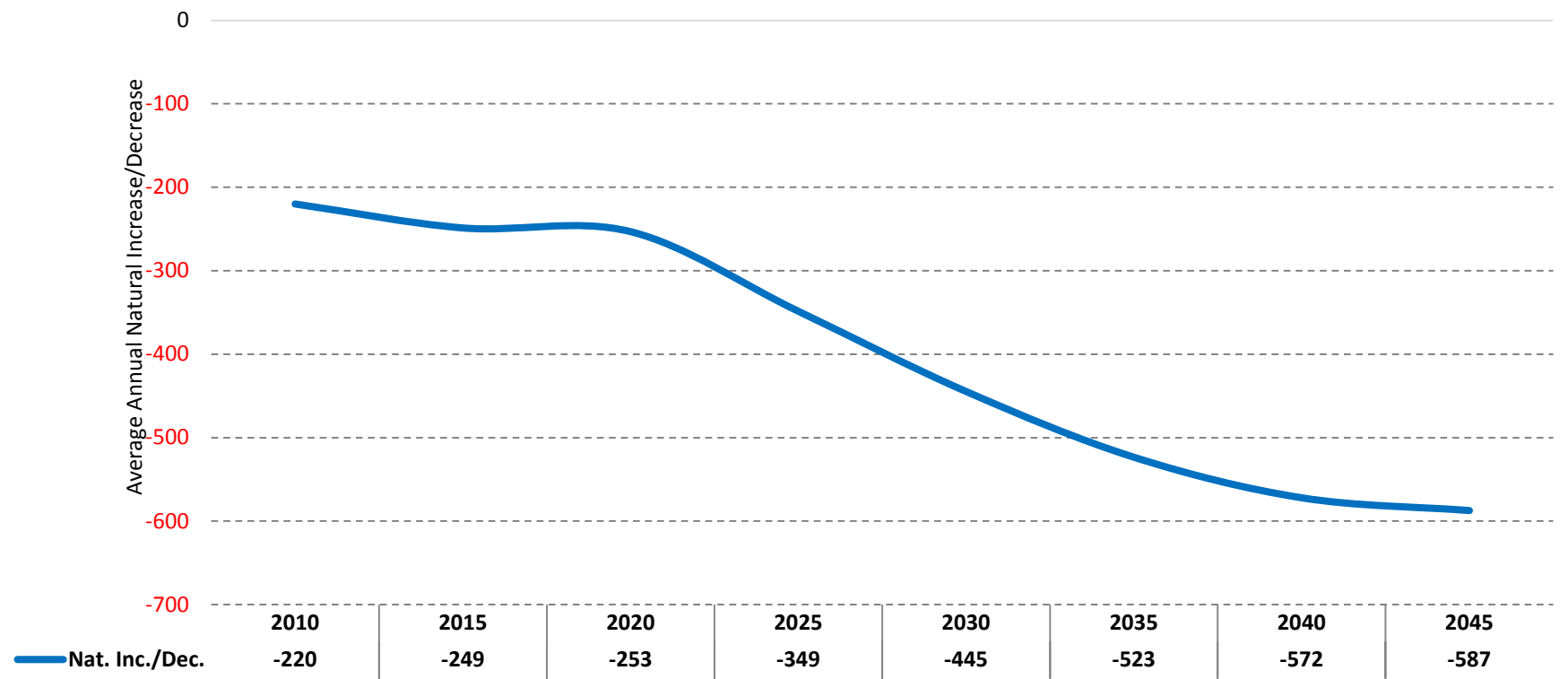
Sources: Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period,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

Coos County – Age Specific Survival Rates



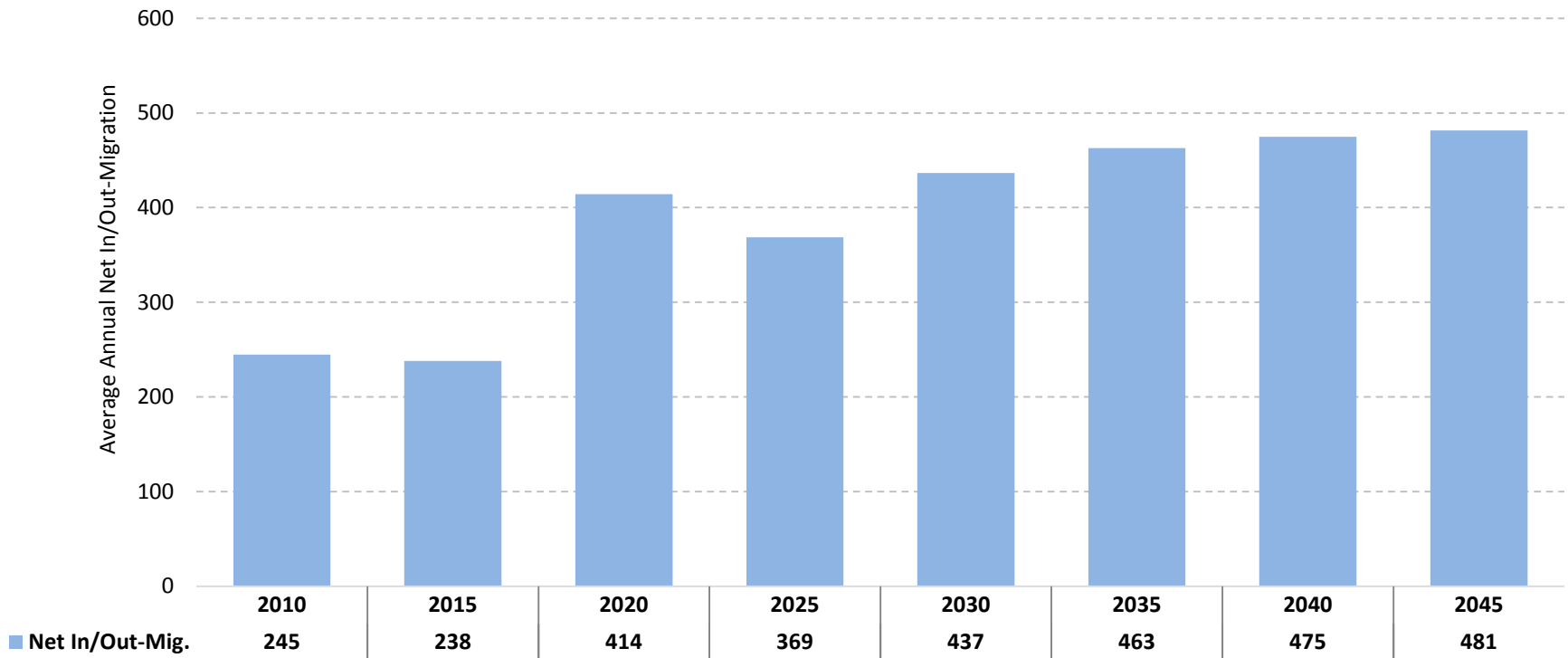
Sources: U.S. Census Bureau, 2000 and 2010 Censuses; Forecast by Population Research Center (PRC).

Coos County—Average Annual Natural Increase/Decrease



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.

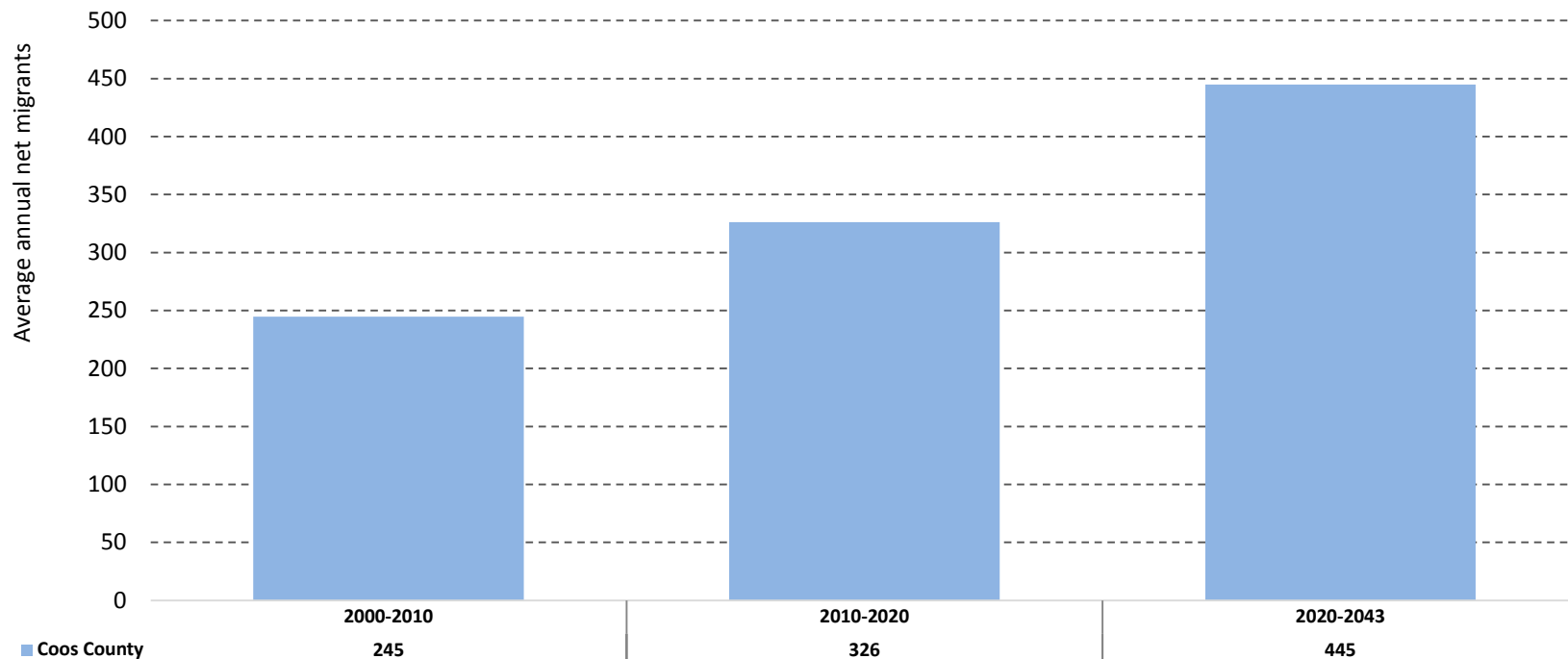
Coos County—Average Annual Net In/Out-Migration



Sources: U.S. Census Bureau, 2000 and 2010 Censuses. 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.

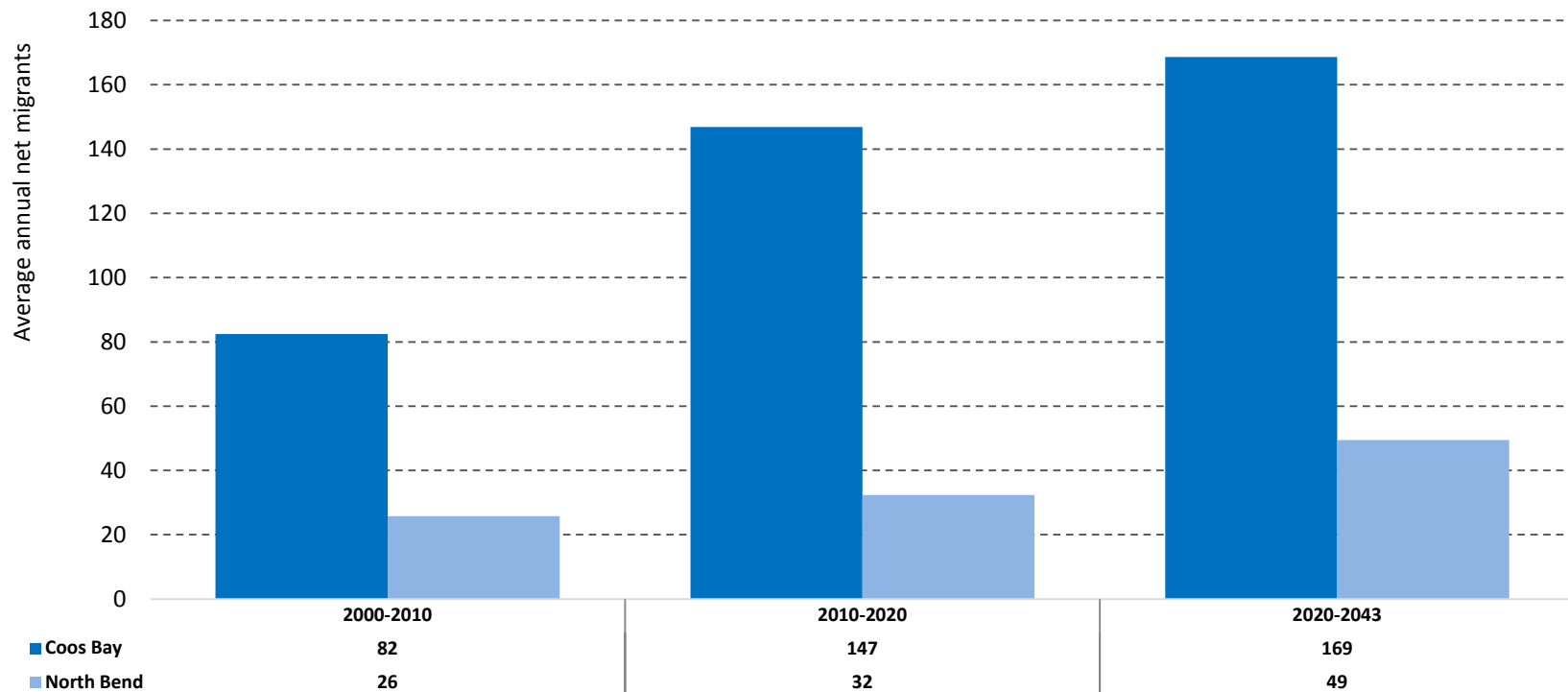
Coos County—Average Annual Net In/Out-Migration



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

Note: The average annual numbers were calculated for the 10 year periods (2000-2010 and 2010-2020) and the 23 year period (2020-2043).

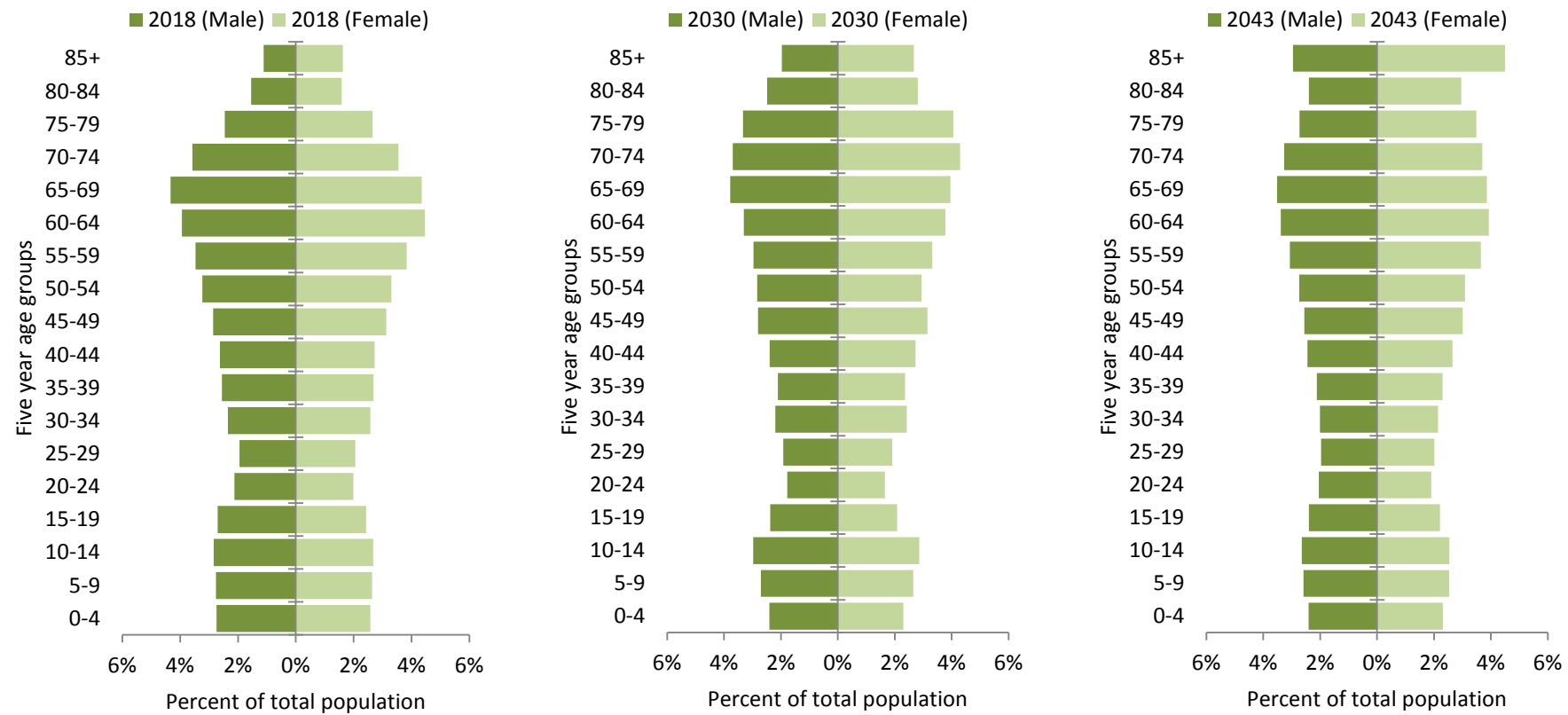
Coos County's Larger Sub-Areas—Average Annual Net In/Out-Migration



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

Note: The average annual numbers were calculated for the 10 year periods (2000-2010 and 2010-2020) and the 23 year period (2020-2043).

Coos County—Age Structure of the Population



Source: Forecast by Population Research Center (PRC)

Historical and Forecast Populations for Coos County and its Sub-Areas

	Historical			Forecast					
	2000	2010	AAGR (2000-2010)	2018	2043	2068	AAGR (2010-2018)	AAGR (2018-2043)	AAGR (2043-2068)
Coos County	62,788	63,035	0.0%	63,471	62,747	60,157	0.1%	0.0%	-0.1%
Bandon	3,104	3,333	0.7%	3,422	3,934	4,319	0.3%	0.6%	0.4%
Coos Bay	15,376	15,967	0.4%	16,824	18,393	19,300	0.6%	0.4%	0.2%
Coquille	4,358	3,963	-0.9%	3,950	4,031	4,061	0.0%	0.1%	0.0%
Lakeside	1,371	1,699	2.2%	1,696	2,376	2,984	0.0%	1.4%	0.9%
Myrtle Point	2,485	2,553	0.3%	2,575	2,734	2,836	0.1%	0.2%	0.1%
North Bend	9,537	9,717	0.2%	9,919	10,108	9,989	0.2%	0.1%	0.0%
Powers	743	707	-0.5%	707	741	756	0.0%	0.2%	0.1%
Outside UGBs	25,805	25,104	-0.3%	24,378	20,429	15,912	-0.4%	-0.7%	-1.0%

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

Note: For simplicity each UGB is referred to by its primary city's name.

County and Larger Sub-Areas—Population and Average Annual Growth Rate (AAGR) (2018, 2043 and 2068)

	2018	2043	2068	AAGR (2018-2043)	AAGR (2043-2068)	Share of County 2018	Share of County 2043	Share of County 2068
Coos County	63,471	62,747	60,157	0.0%	-0.2%	--	--	--
Coos Bay	16,824	18,393	19,300	0.4%	0.2%	26.5%	29.3%	32.1%
North Bend	9,919	10,108	9,989	0.1%	0.0%	15.6%	16.1%	16.6%
Outside UGBs	24,378	20,429	15,912	-0.7%	-1.0%	38.4%	32.6%	26.5%

Source: Forecast by Population Research Center (PRC)

Note: For simplicity each UGB is referred to by its primary city's name.

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 tend to temper losses over the forecast period.

County and Smaller Sub-Areas—Population and AAGR (2018, 2043 and 2068)

	2018	2043	2068	AAGR (2018-2043)	AAGR (2043-2068)	Share of County 2018	Share of County 2043	Share of County 2068
<i>Coos County</i>	63,471	62,747	60,157	0.0%	-0.2%	--	--	--
Bandon	3,422	3,934	4,319	0.6%	0.4%	5.4%	6.3%	7.2%
Coquille	3,950	4,031	4,061	0.1%	0.0%	6.2%	6.4%	6.8%
Lakeside	1,696	2,376	2,984	1.4%	0.9%	2.7%	3.8%	5.0%
Myrtle Point	2,575	2,734	2,836	0.2%	0.1%	4.1%	4.4%	4.7%
Powers	707	741	756	0.2%	0.1%	1.1%	1.2%	1.3%
Outside UGBs	24,378	20,429	15,912	-0.7%	-1.0%	38.4%	32.6%	26.5%

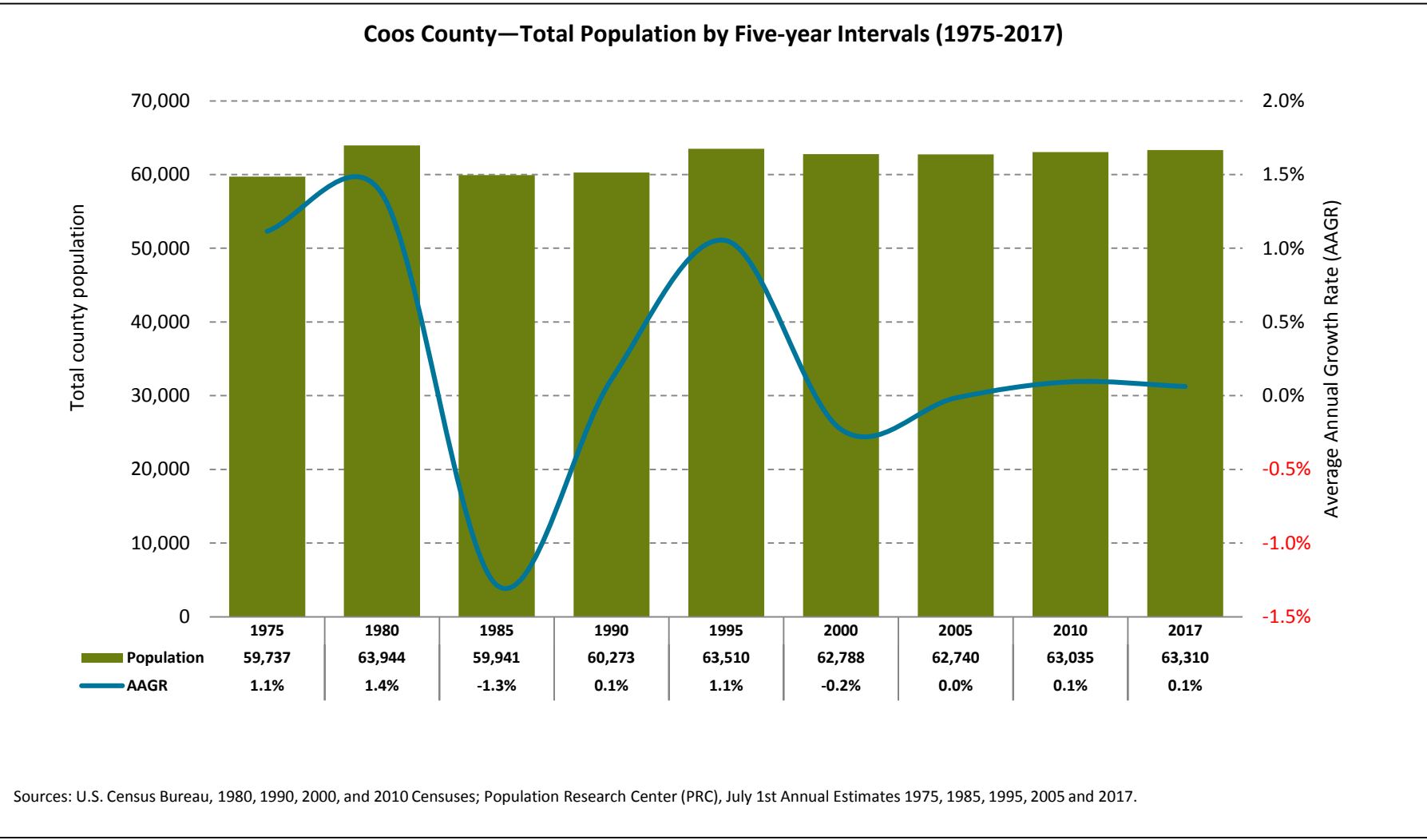
Source: Forecast by Population Research Center (PRC)

Note: For simplicity each UGB is referred to by its primary city's name.

Local Input and Additional Information

- Questions?
- Discussion time

Additional Historical Trends: Coos County



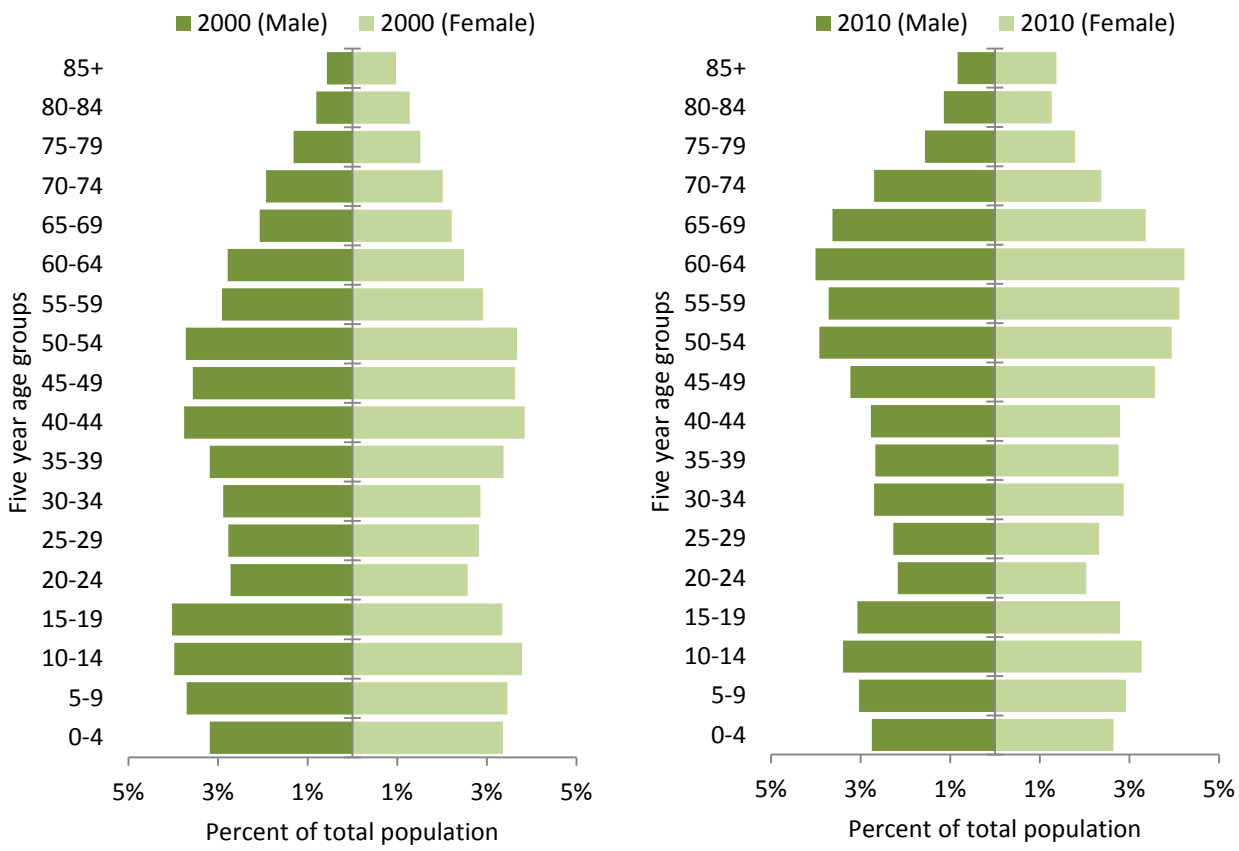
County and Sub-Areas—Population and Average Annual Growth Rate (AAGR) (2000-2010)

	2000	2010	AAGR (2000-2010)	Share of County 2000	Share of County 2010	Change (2000-2010)
<i>Coos County</i>	62,788	63,035	0.0%	100.0%	100.0%	0.0%
Bandon	3,104	3,333	0.7%	4.9%	5.3%	0.3%
Coos Bay	15,376	15,967	0.4%	24.5%	25.3%	0.8%
Coquille	4,358	3,963	-0.9%	6.9%	6.3%	-0.7%
Lakeside	1,371	1,699	2.2%	2.2%	2.7%	0.5%
Myrtle Point	2,485	2,553	0.3%	4.0%	4.1%	0.1%
North Bend	9,537	9,717	0.2%	15.2%	15.4%	0.2%
Powers	743	707	-0.5%	1.2%	1.1%	-0.1%
Outside UGBs	25,805	25,104	-0.3%	41.1%	39.8%	-1.3%

Sources: U.S. Census Bureau, 2000 and 2010 Censuses.

Note: For simplicity each UGB is referred to by its primary city's name.

Coos County—Age Structure of the Population (2000 and 2010)

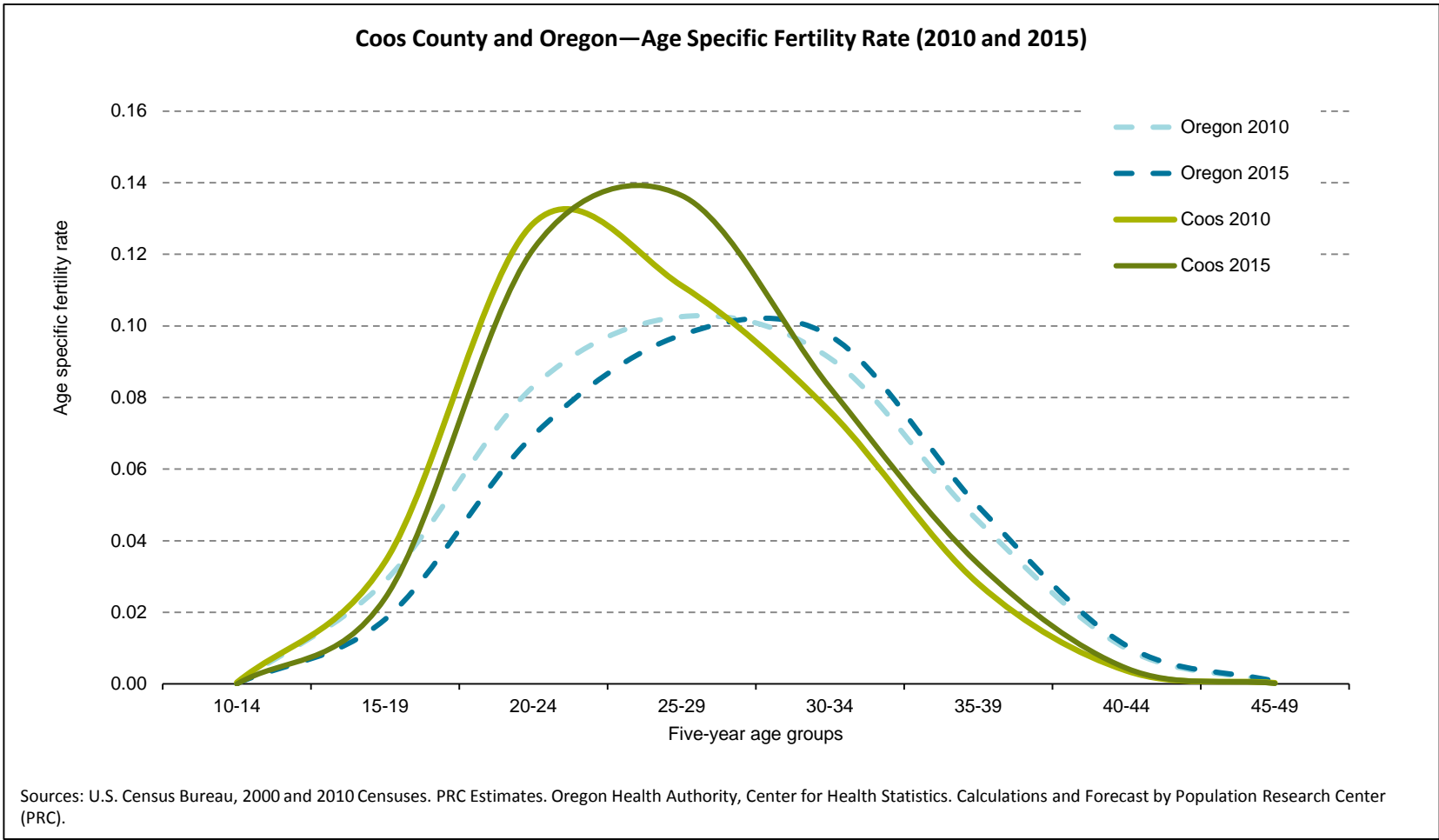


Sources: U.S. Census Bureau, 2000 and 2010 Censuses

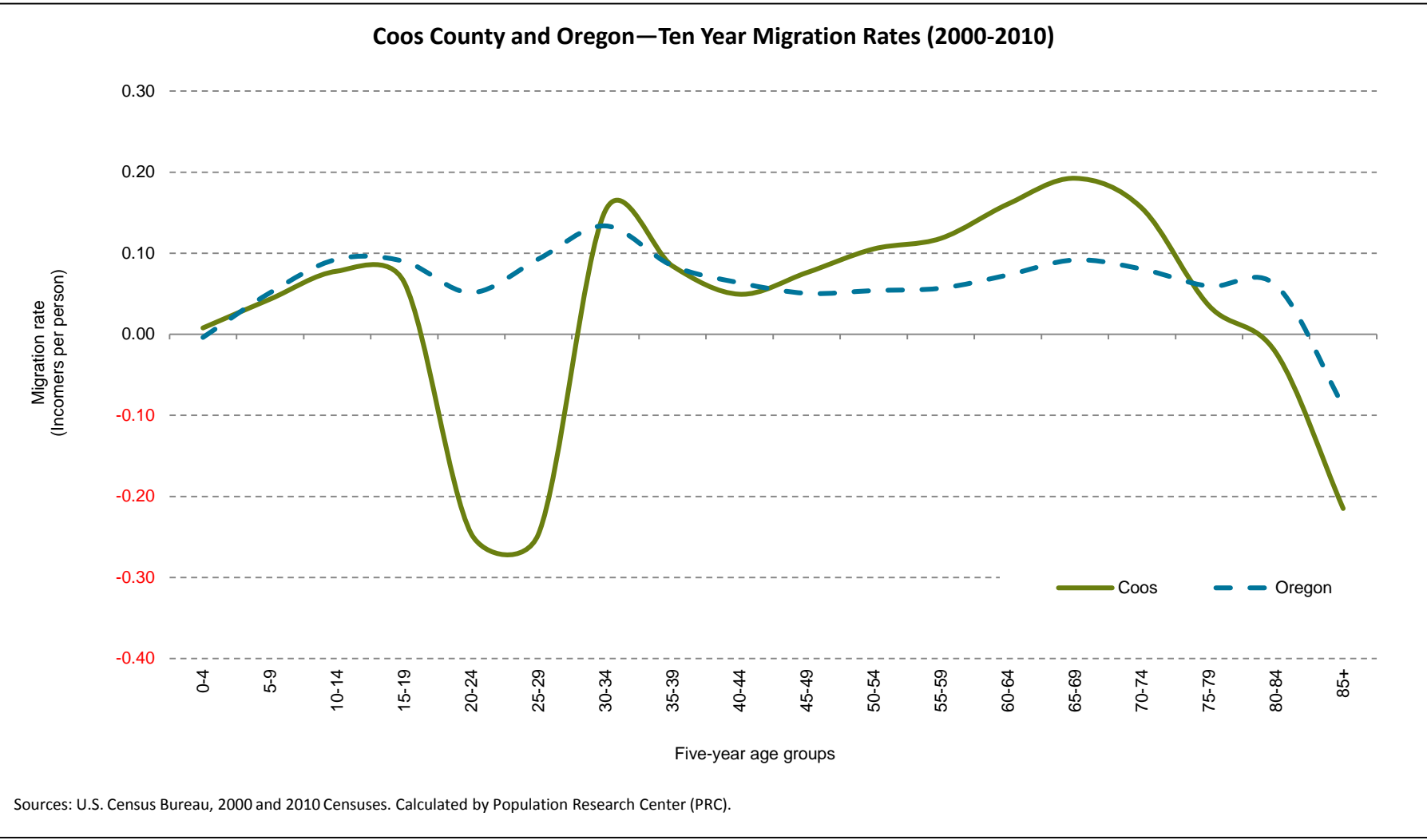
Coos County—Hispanic or Latino and Race (2000 and 2010)

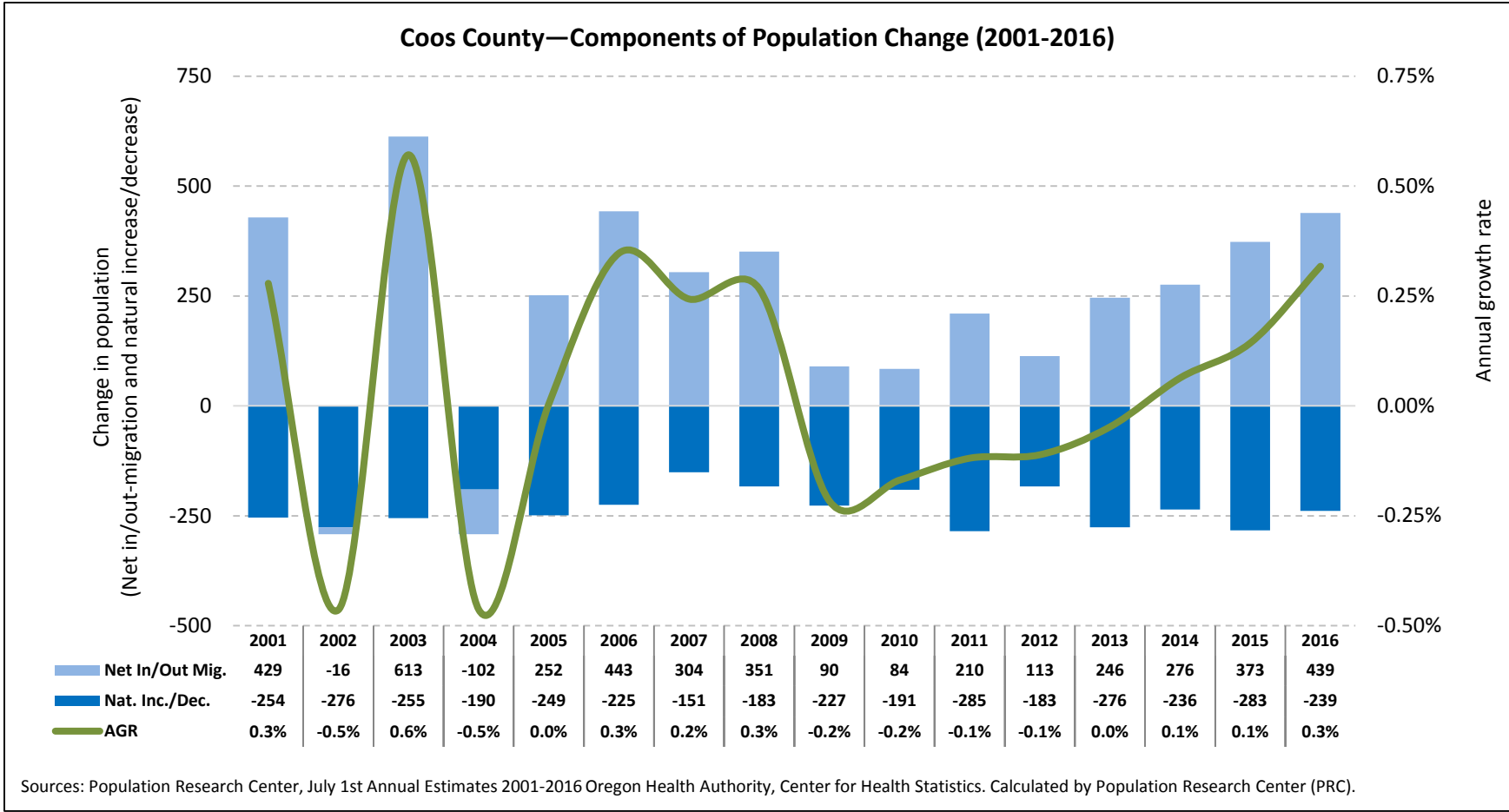
Hispanic or Latino and Race	2000		2010		Absolute Change	Relative Change
<i>Total population</i>	62,779	100.0%	63,043	100.0%	264	0.4%
Hispanic or Latino	2,133	3.4%	3,391	5.4%	1,258	59.0%
Not Hispanic or Latino	60,646	96.6%	59,652	94.6%	-994	-1.6%
White alone	56,616	90.2%	54,820	87.0%	-1,796	-3.2%
Black or African American alone	169	0.3%	234	0.4%	65	38.5%
American Indian and Alaska Native alone	1,412	2.2%	1,467	2.3%	55	3.9%
Asian alone	553	0.9%	644	1.0%	91	16.5%
Native Hawaiian and Other Pacific Islander alone	99	0.2%	104	0.2%	5	5.1%
Some Other Race alone	66	0.1%	75	0.1%	9	13.6%
Two or More Races	1,731	2.8%	2,308	3.7%	577	33.3%

Sources: U.S. Census Bureau, 2000 and 2010 Censuses.



Total Fertility Rate (TFR)		
	2000	2010
Coos County	2.01	1.91
Oregon	1.98	1.81





Coos County and Sub-Areas—Total Housing Units (2000 and 2010)

	2000	2010	AAGR (2000-2010)	Share of County 2000	Share of County 2010	Change (2000-2010)
<i>Coos County</i>	29,247	30,593	0.5%	100.0%	100.0%	0.0%
Bandon	1,684	2,017	1.8%	5.8%	6.6%	0.8%
Coos Bay	7,095	7,542	0.6%	24.3%	24.7%	0.4%
Coquille	1,935	1,867	-0.4%	6.6%	6.1%	-0.5%
Lakeside	764	967	2.4%	2.6%	3.2%	0.5%
Myrtle Point	1,127	1,150	0.2%	3.9%	3.8%	-0.1%
North Bend	4,288	4,460	0.4%	14.7%	14.6%	-0.1%
Powers	406	385	-0.5%	1.4%	1.3%	-0.1%
Outside UGBs	11,948	12,205	0.2%	40.9%	39.9%	-1.0%

Sources: U.S. Census Bureau, 2000 and 2010 Censuses

Note: For simplicity each UGB is referred to by its primary city's name.

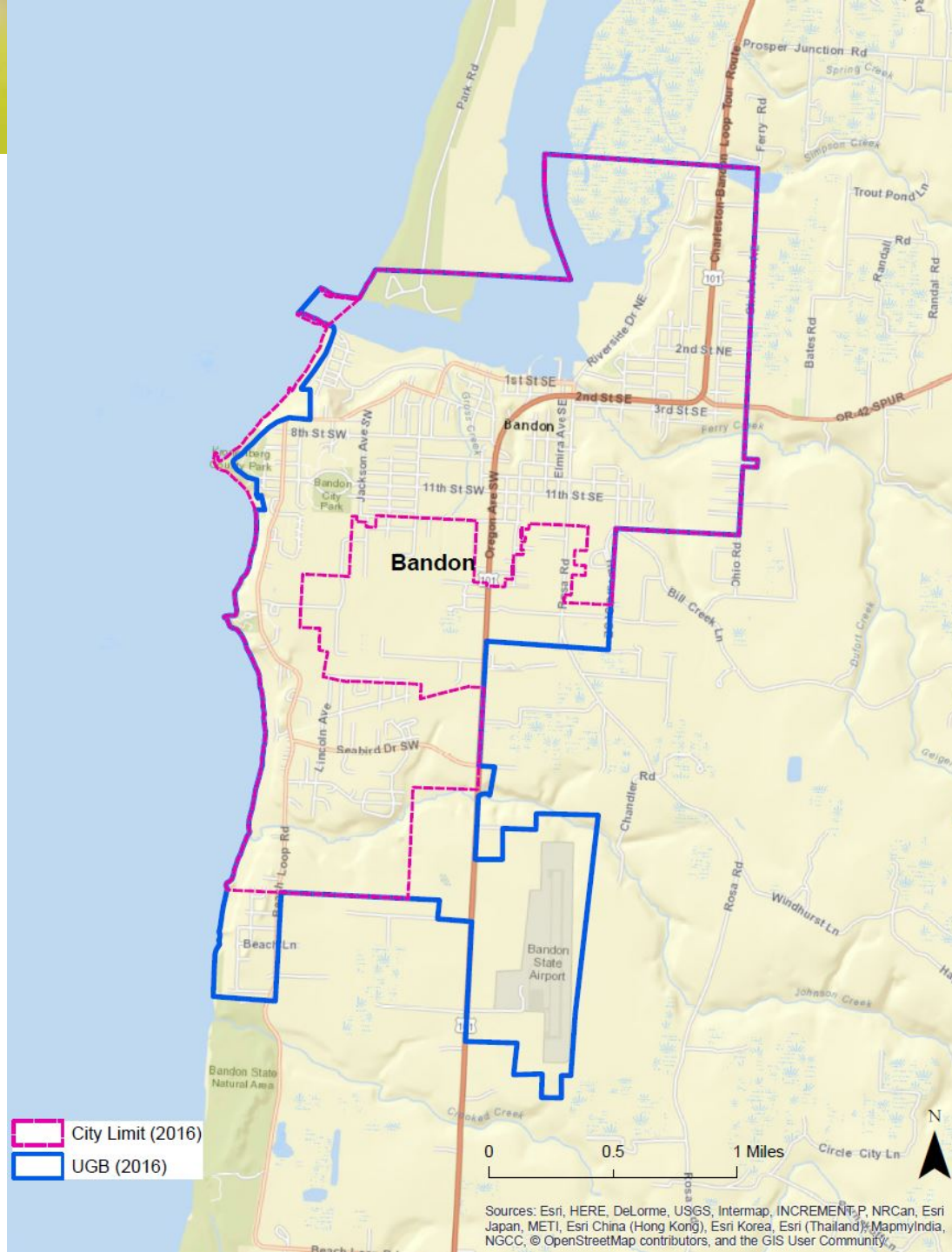
Coos County and Sub-Areas—Persons Per Household (PPH) and Occupancy Rate (2000 and 2010)

	Persons Per Household (PPH)			Occupancy Rate		
	2000	2010	Change 2000-2010	2000	2010	Change 2000-2010
Coos County	2.3	2.3	-2.3%	89.63%	88.69%	-0.9%
Bandon	2.3	2.0	-13.5%	83.31%	78.73%	-4.6%
Coos Bay	2.1	2.3	7.1%	91.59%	92.15%	0.6%
Coquille	2.3	2.3	0.7%	91.06%	89.82%	-1.2%
Lakeside	2.4	2.1	-11.7%	84.95%	83.35%	-1.6%
Myrtle Point	2.1	2.4	13.9%	89.17%	91.04%	1.9%
North Bend	2.4	2.3	-4.2%	92.49%	92.42%	-0.1%
Powers	2.4	2.2	-6.2%	83.00%	83.12%	0.1%
Outside UGBs	2.2	2.3	5.6%	88.66%	87.04%	-1.6%

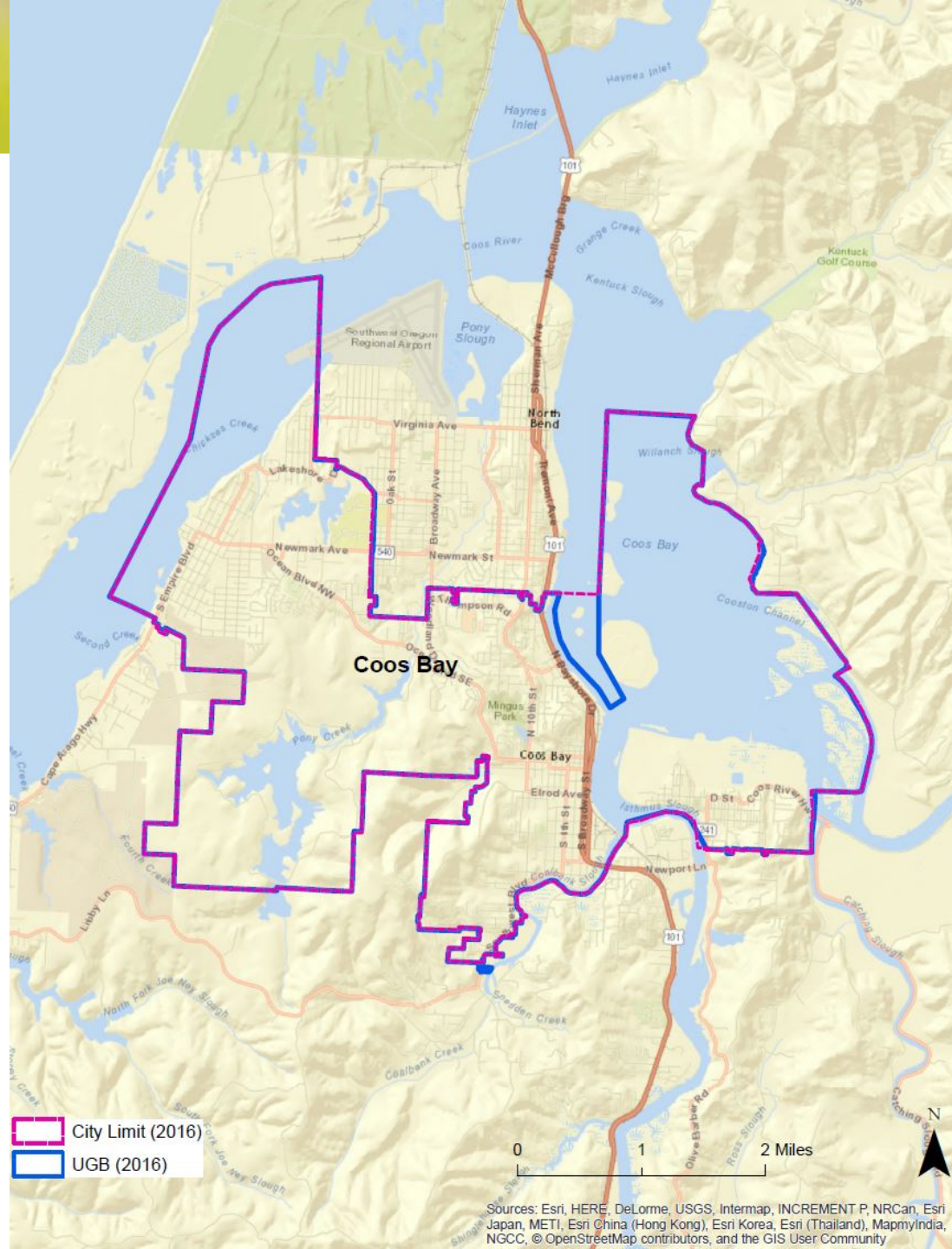
Sources: U.S. Census Bureau, 2000 and 2010 Censuses. Calculated by Population Research Center (PRC)

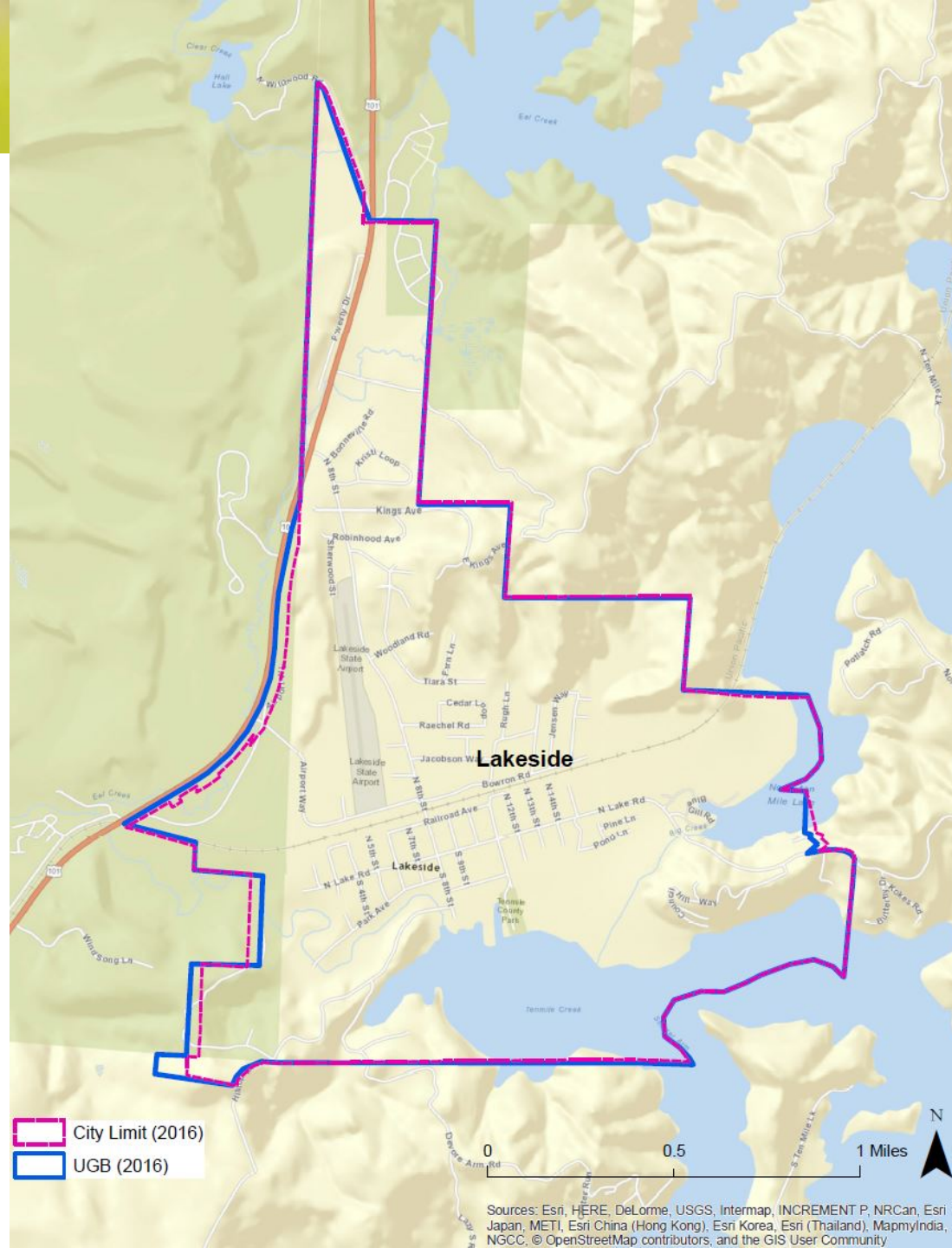
Note: For simplicity each UGB is referred to by its primary city's name.

Coos County UGBs



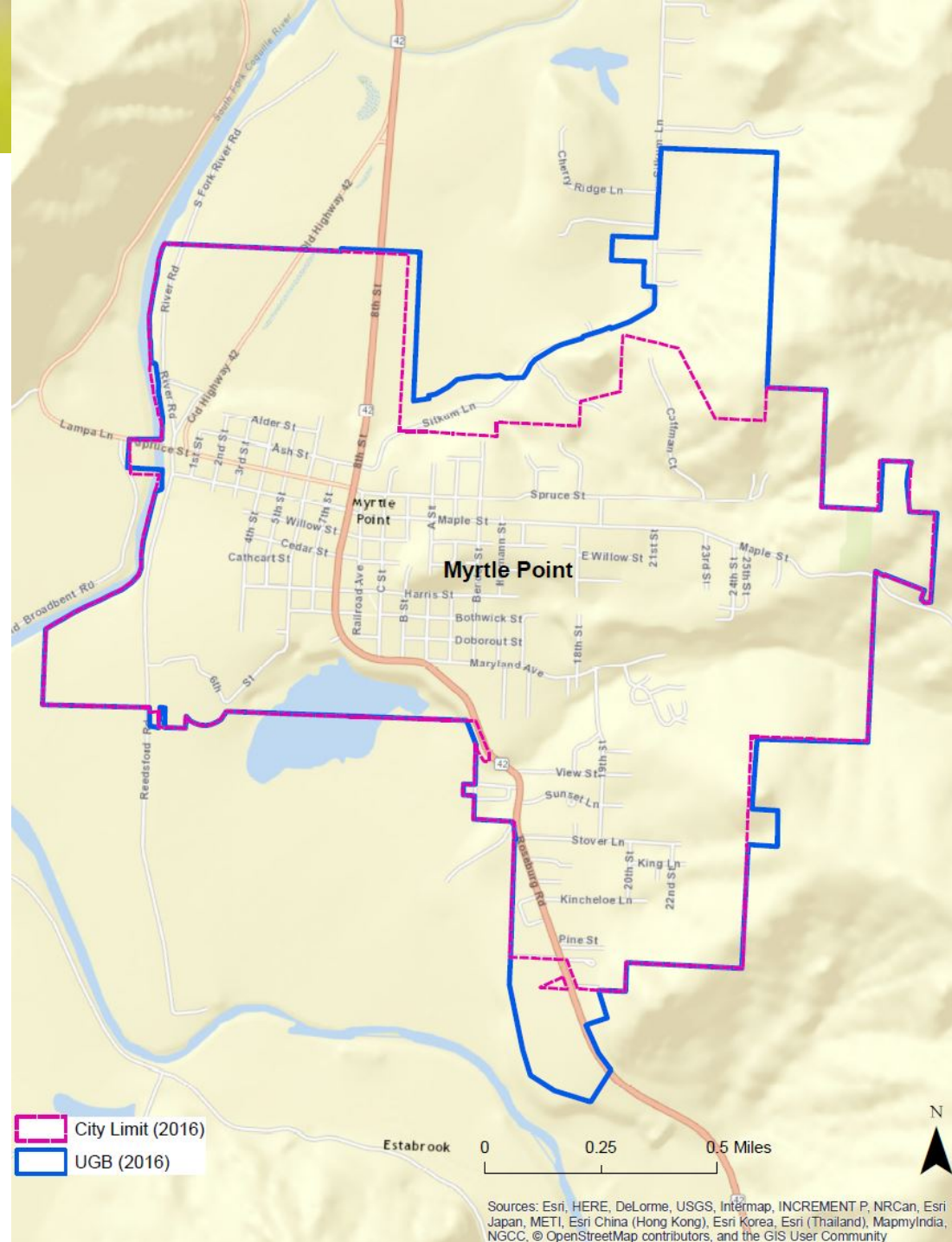
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

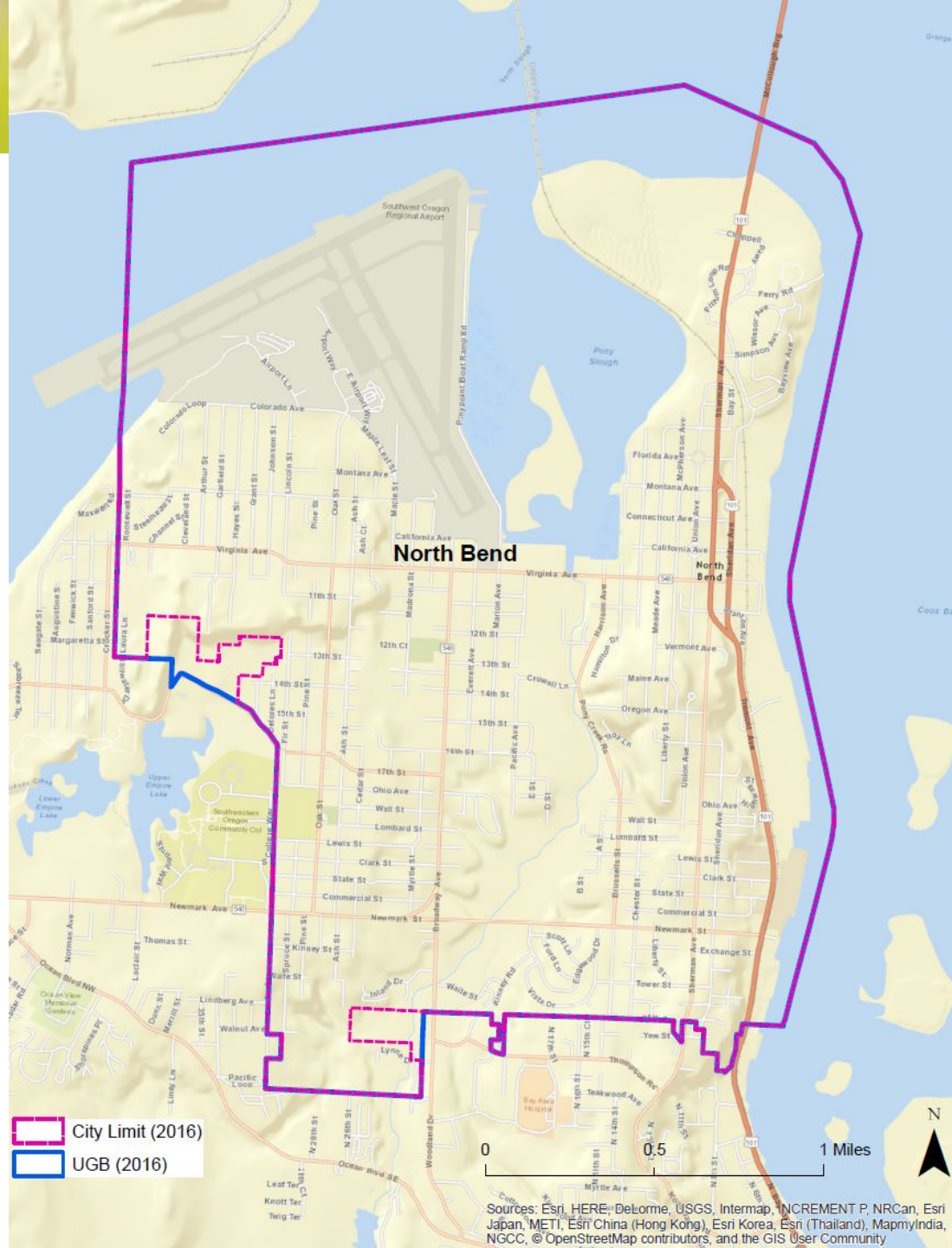




City Limit (2016)
UGB (2016)

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community





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