

Oregon Population Forecast Program

Regional Forecast Meeting – March 13, 2019

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

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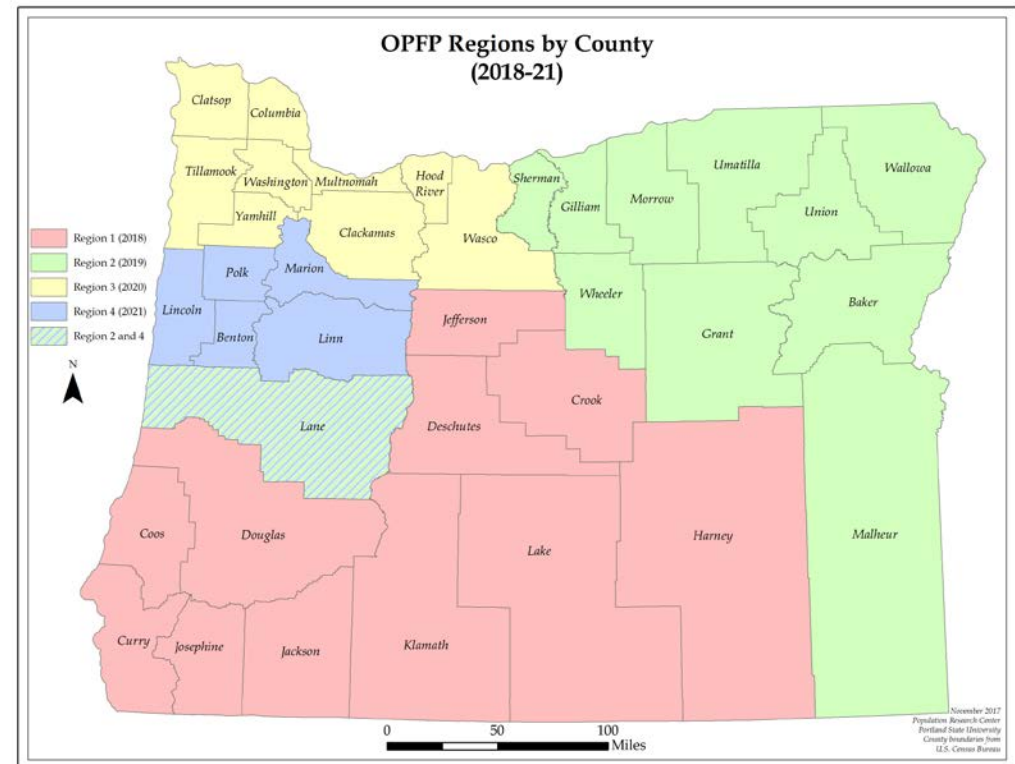
Charles Rynerson,
Research Consultant

Agenda

- Present and discuss preliminary forecast results
 - Proposed Forecasts by March 31st, 2019; 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

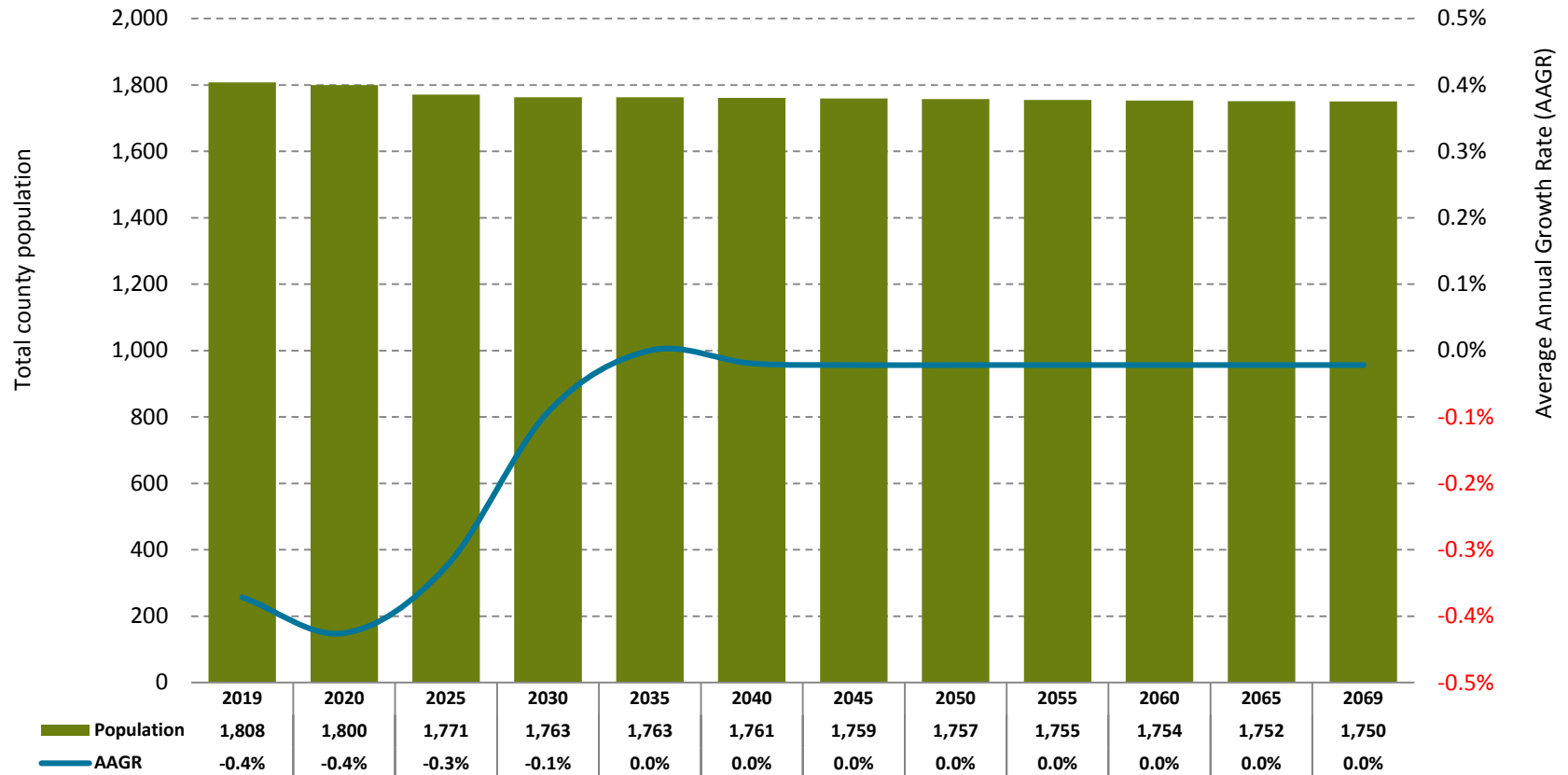
- Modified Methodology (50 Year Period)
- Forecast Methods (2019-44)
 - Cohort-Component and Housing Unit Model
- Modified Method (2044-69):
 - County: AAGR of the last 5 year period (2040-45) is extrapolated out for the remaining 25 years.
 - Sub-areas: Trend the sub-area share of the County for the remaining 25 years.



Assumptions for Gilliam County and Larger Sub-Area Forecasts

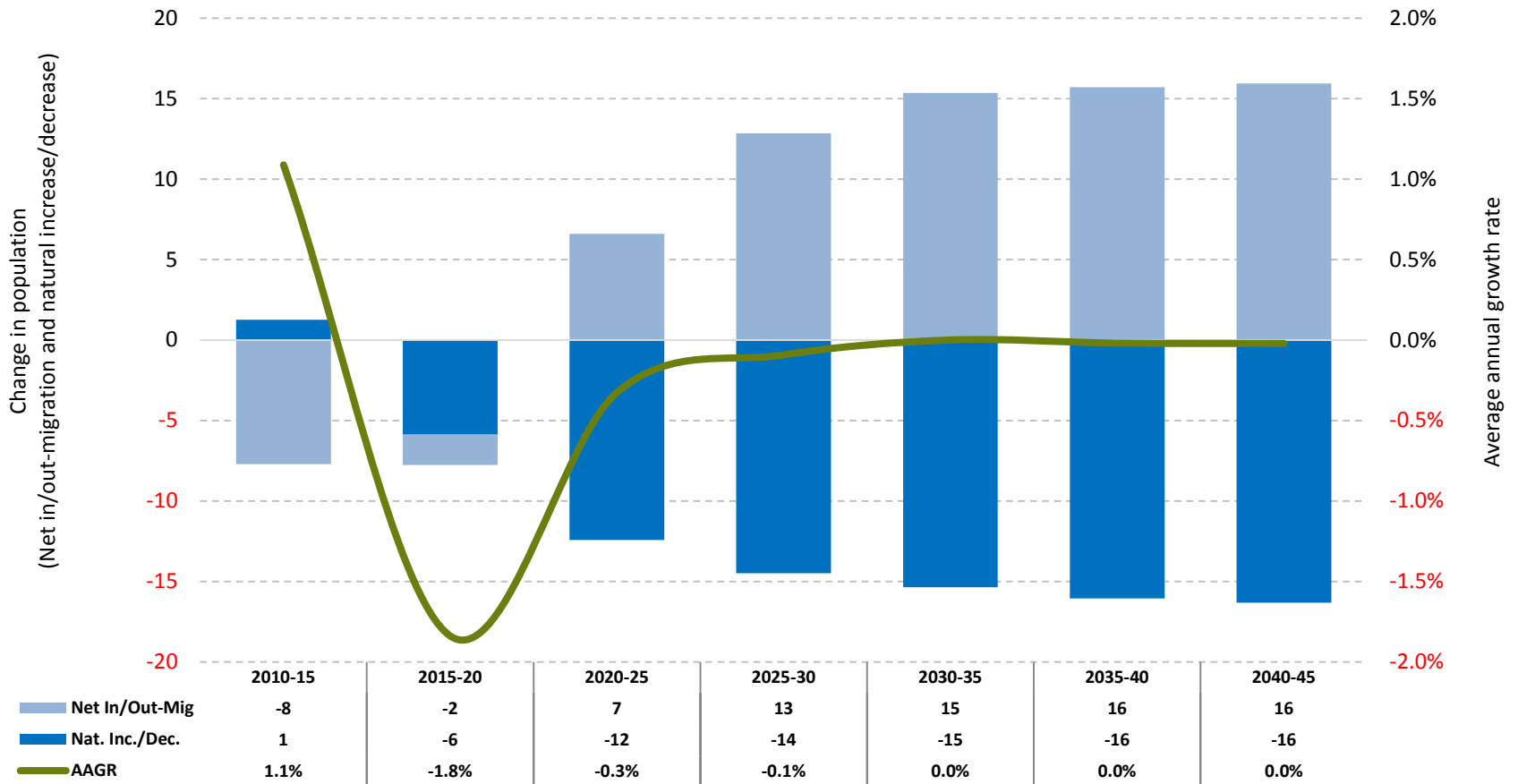
1. As the economy strengthens, we assume housing construction to persist through the 2010-2020 decade.
 - a) We expect population decline to steepen in the 2020-25 period as job growth slows and Oregon's population ages.
 - b) Net in-migration will increase steadily over the forecast period in tandem with deaths as housing becomes available.
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 2040s.
 - b) Total fertility rates decline throughout the period, but births stagnate.
 - 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.

Gilliam County—Total Population by Five-year Intervals (2019-2069)



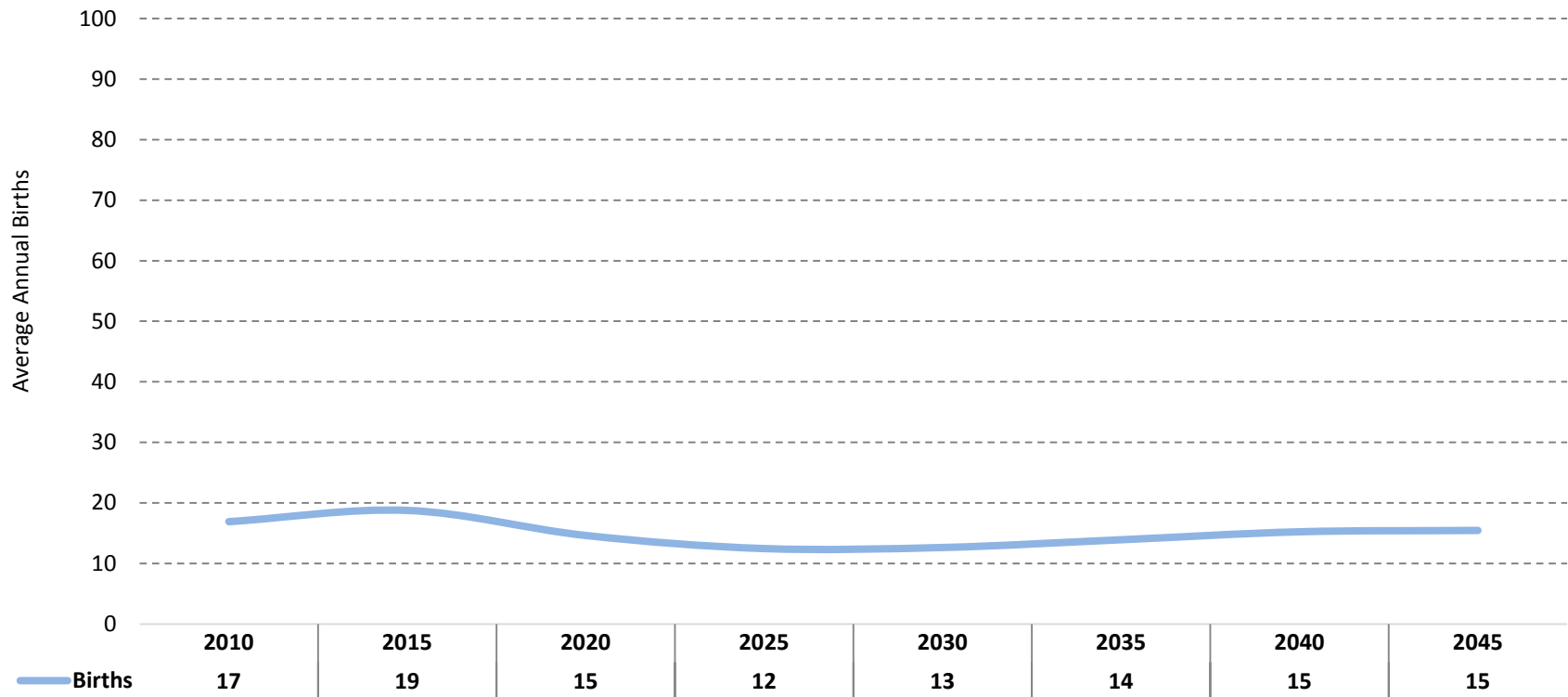
Source: Forecast by Population Research Center (PRC).

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



Source: Forecast by Population Research Center (PRC)

Gilliam County—Average Annual Births



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.

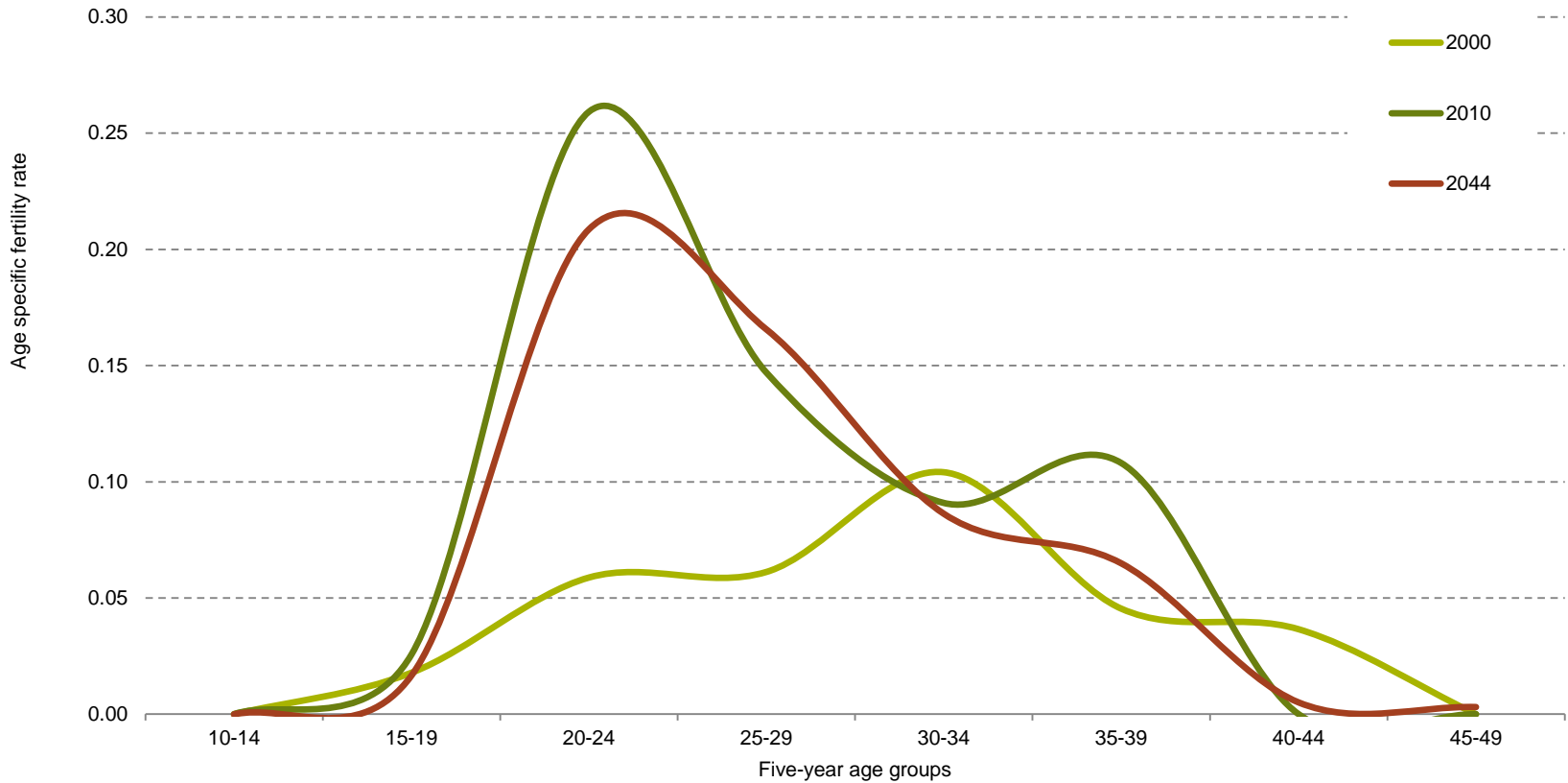
Total Fertility Rate (TFR)

	2000	2010	2044
Gilliam County	1.62	3.15	2.75
Region 2	2.32	2.37	2.24

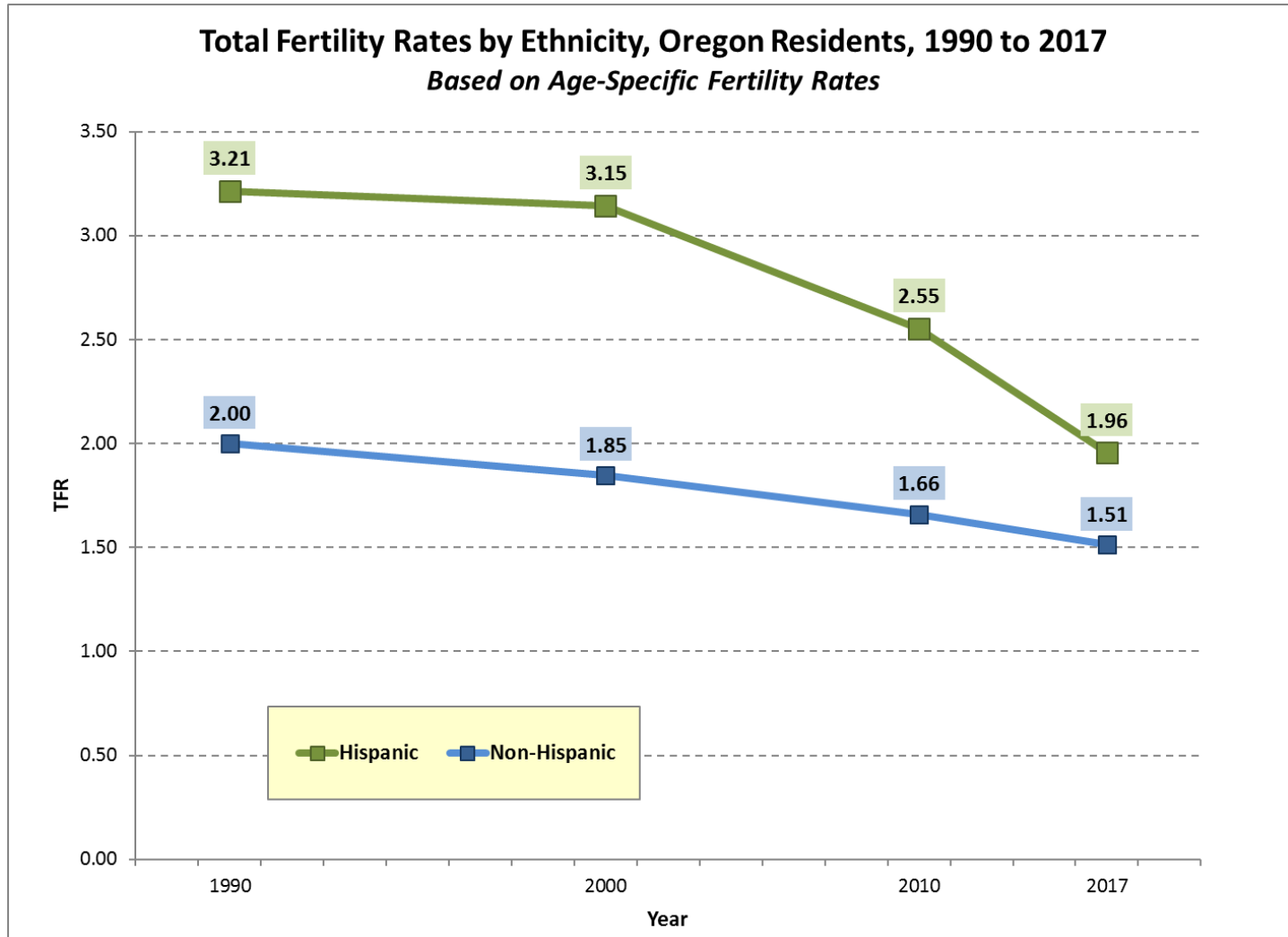
Sources: U.S. Census Bureau, 2000 and 2010 Censuses. PRC Estimates. Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).

Note: 2000 and 2010 are annual, whereas TFR for 2044 is calculated for the 2040 to 2045 forecast period.

Gilliam County—Age Specific Fertility Rate (2000, 2010, and 2044)



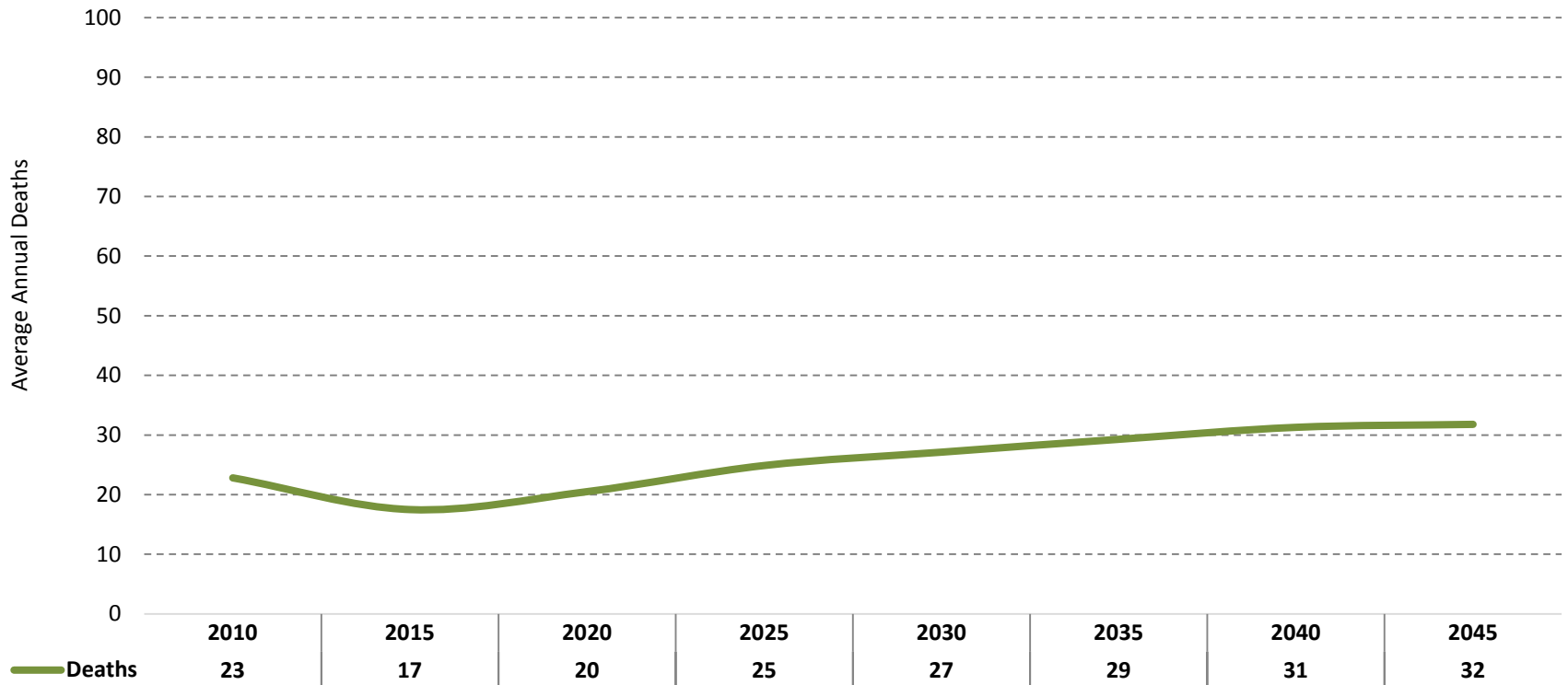
Sources: U.S. Census Bureau, 2000 and 2010 Censuses. PRC Estimates. Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).



Sources: PEPASR6H-Geography-OregonYear- July 1, 2017 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, 2017
Population Research Center (PRC), 2017 Population Estimates

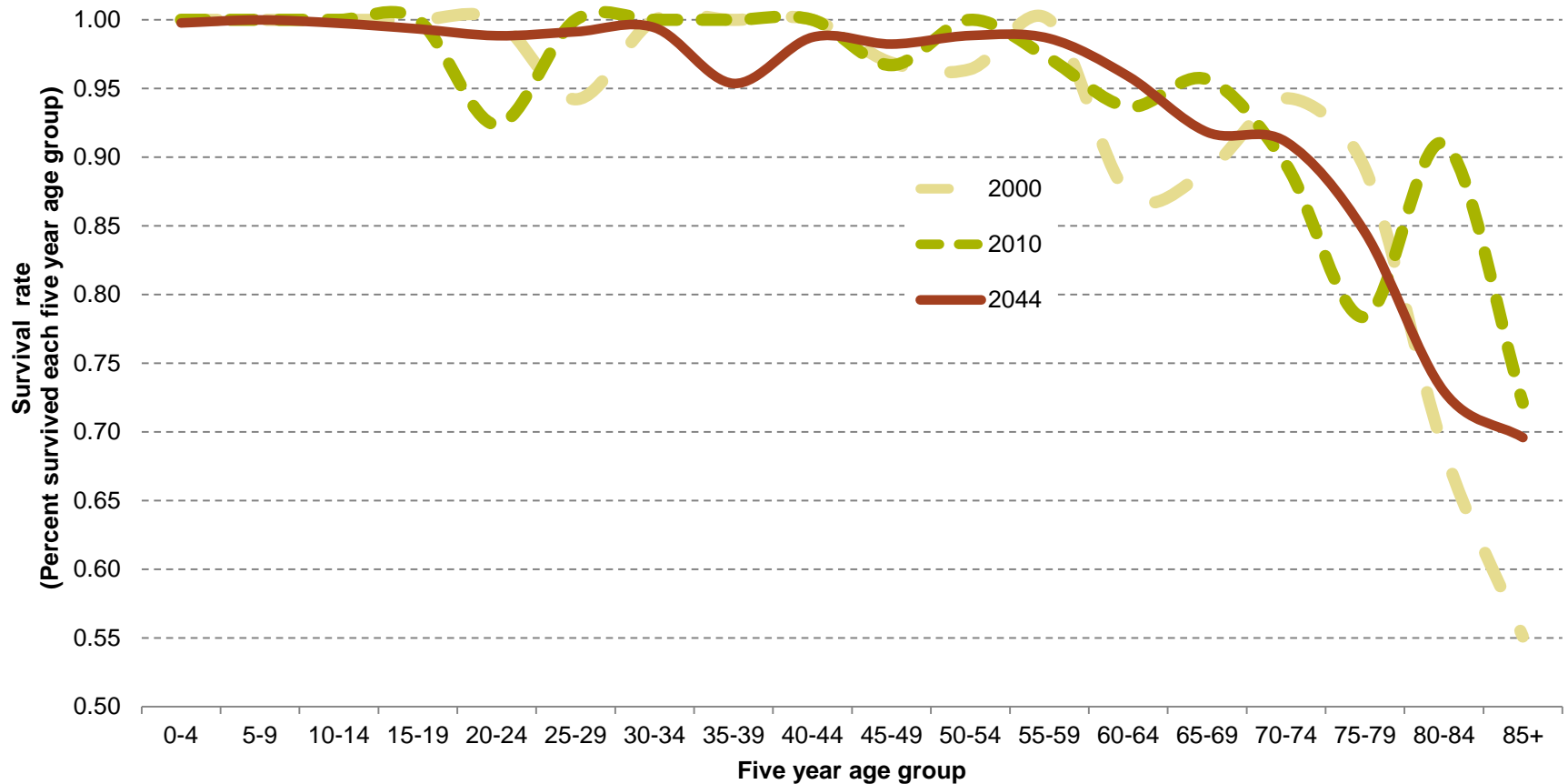
Gilliam County—Average Annual Deaths



Sources: Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).

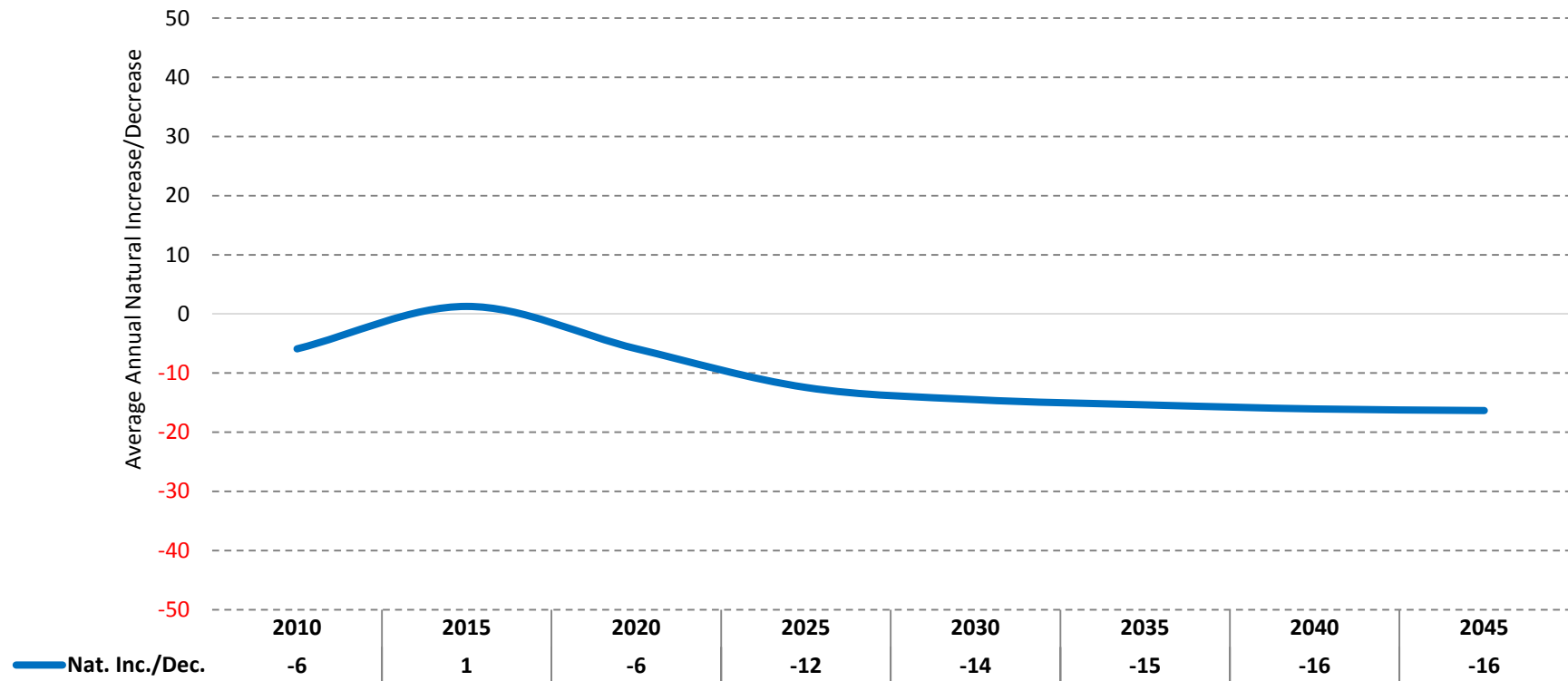
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.

Gilliam County – Age Specific Survival Rates



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

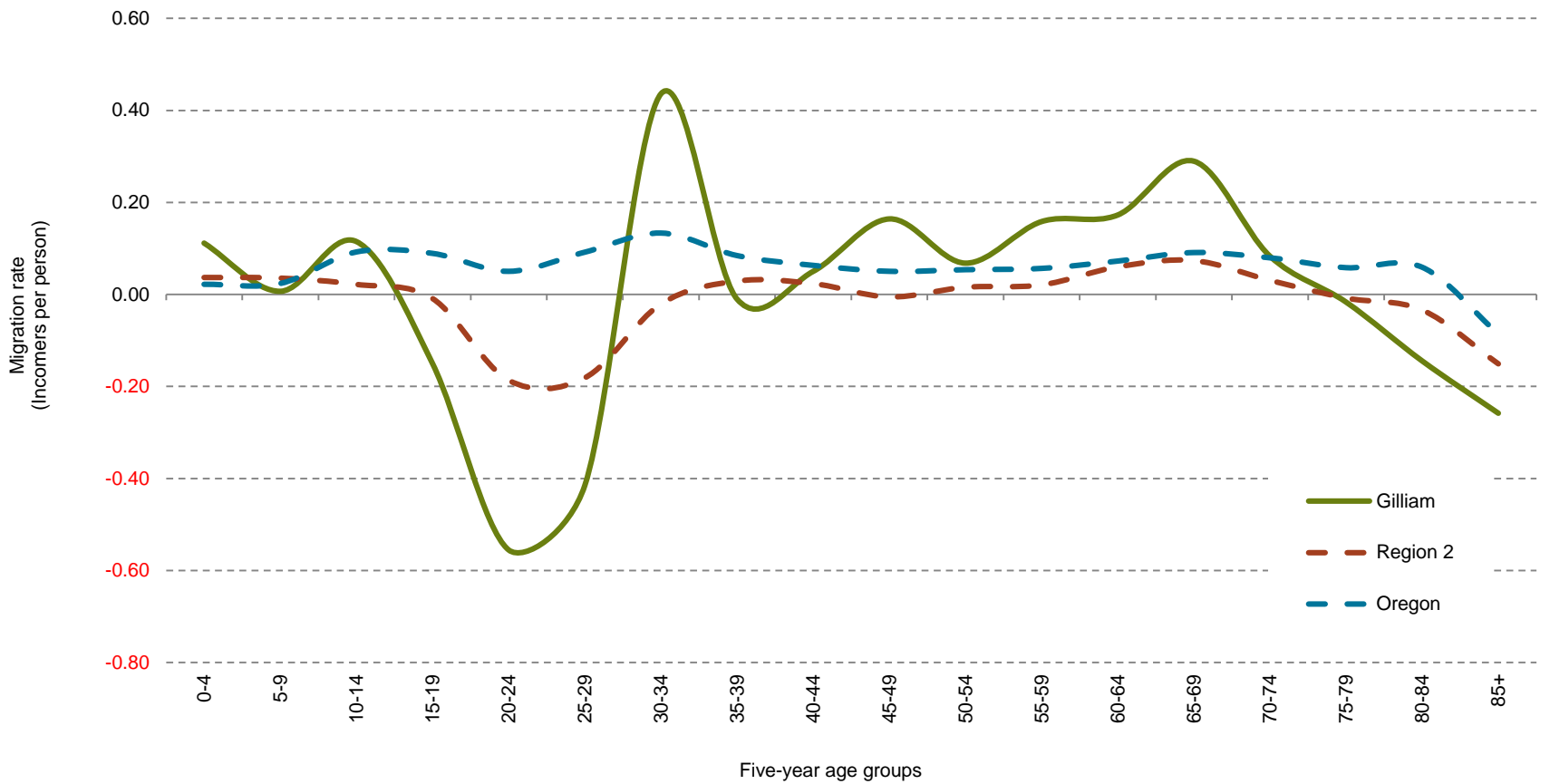
Gilliam County—Average Annual Natural Increase/Decrease



Sources: Oregon Health Authority, Center for Health Statistics. Calculations and Forecast by Population Research Center (PRC).

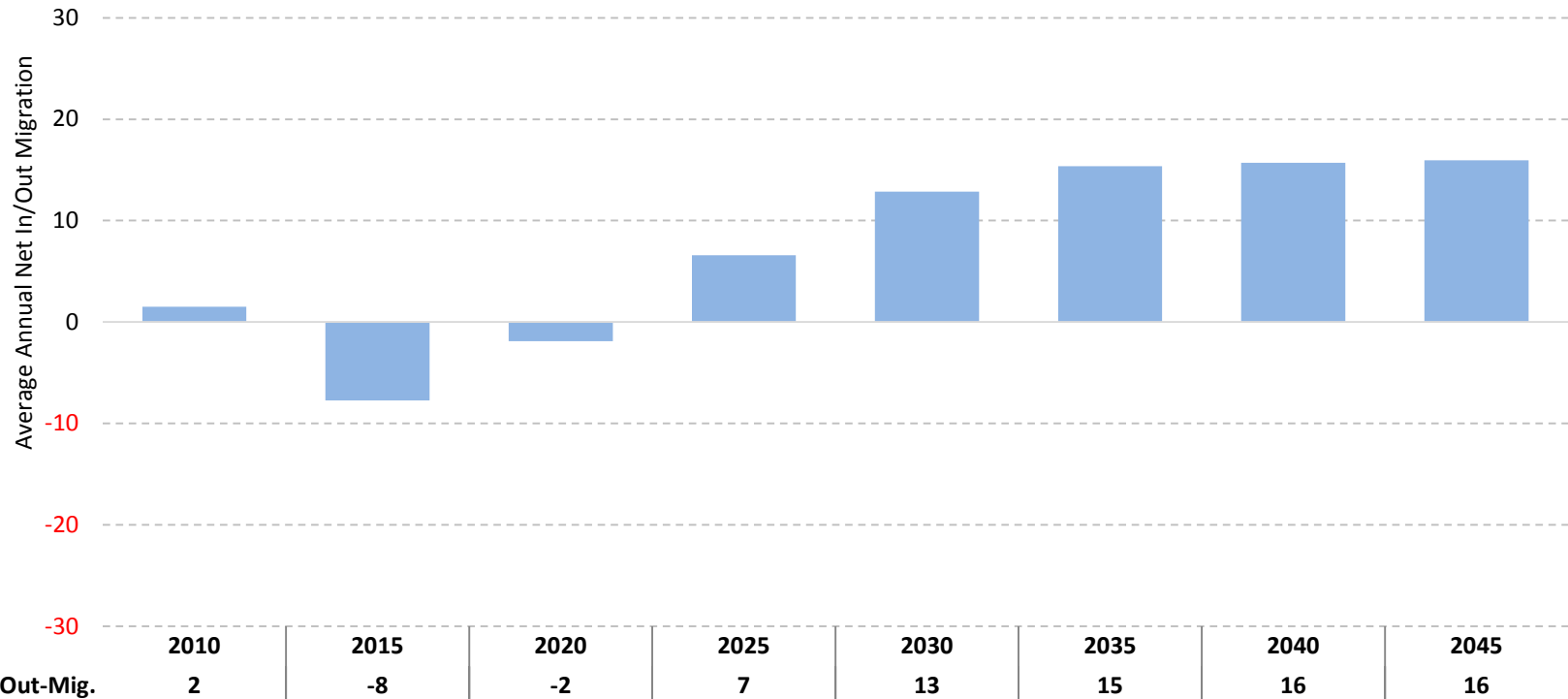
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.

Gilliam County, Region 2, and Oregon—Ten Year Migration Rates (2000-2010)



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

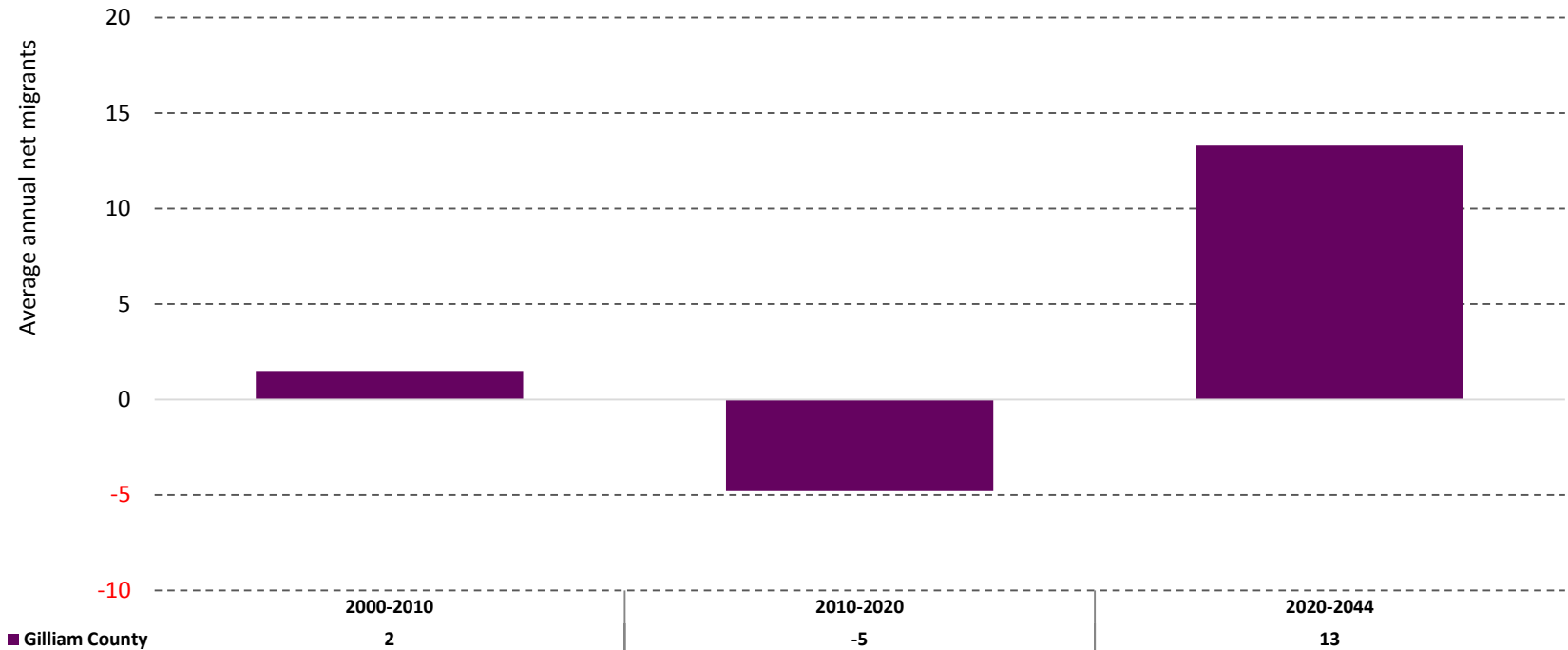
Gilliam County—Average Annual Net In/Out-Migration



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

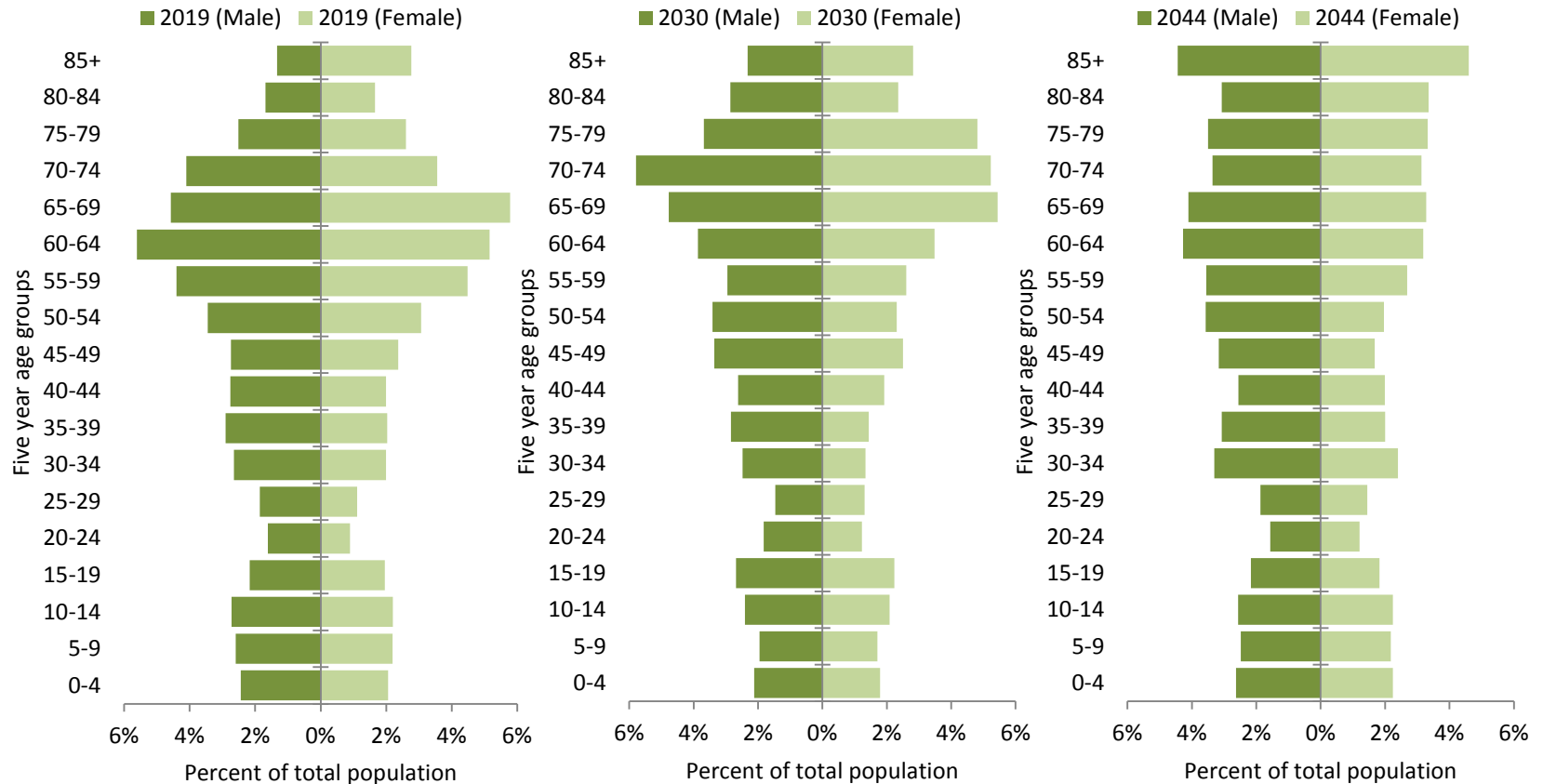
Note: The years signify the end of the period for which average annual numbers were calculated. The average annual numbers for "2010" were calculated for the 2000-2010 period, with the remaining years calculated for their preceding five-year periods.

Gilliam 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 24 year period (2020-2044).

Gilliam County—Age Structure of the Population



Source: Forecast by Population Research Center (PRC)

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

	Historical			Forecast					
	2000	2010	AAGR (2000-2010)	2019	2044	2069	AAGR (2010-2019)	AAGR (2019-2044)	AAGR (2044-2069)
Gilliam County	1,915	1,871	-0.2%	1,808	1,760	1,750	-0.4%	-0.1%	0.0%
Arlington	538	645	1.8%	673	768	874	0.5%	0.5%	0.5%
Condon	759	683	-1.0%	631	603	588	-0.8%	-0.2%	-0.1%
Lonerock	24	21	-1.3%	19	16	13	-0.9%	-0.7%	-0.8%
Outside UGBs	594	522	-1.3%	484	372	275	-0.8%	-1.0%	-1.2%

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.

Assumptions for Smaller Sub-Area Forecasts

1. For UGBs experiencing population growth, we assume future housing construction will follow historic patterns. For 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.
2. If planned housing units were reported in the surveys, then we account for them being constructed over the next 5-10 years.
3. With fewer children on the horizon, we expect Persons per Household (PPH) rates to decline steadily over time.

County and Sub-Areas—Population and Average Annual Growth Rate (AAGR) (2019, 2044, and 2069)

	2019	2044	2069	AAGR (2019-2044)	AAGR (2044-2069)	Share of County 2019	Share of County 2044	Share of County 2069
Gilliam County	1,808	1,760	1,750	-0.1%	0.0%	--	--	--
Arlington	673	768	874	0.5%	0.5%	37.2%	43.7%	49.9%
Condon	631	603	588	-0.2%	-0.1%	34.9%	34.3%	33.6%
Lonerock	19	16	13	-0.7%	-0.8%	1.1%	0.9%	0.7%
Outside UGBs	484	372	275	-1.0%	-1.2%	26.8%	21.2%	15.7%

Source: Forecast by Population Research Center (PRC)

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

2020 Census

www.census2020now.org

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Oregon Partnership Specialist: Nick Brown (nicholas.a.brown@2020census.gov)
Umatilla Partnership Specialist: Sarah Bushore (sarah.m.bushore@2020census.gov)

CENSUS 20/20

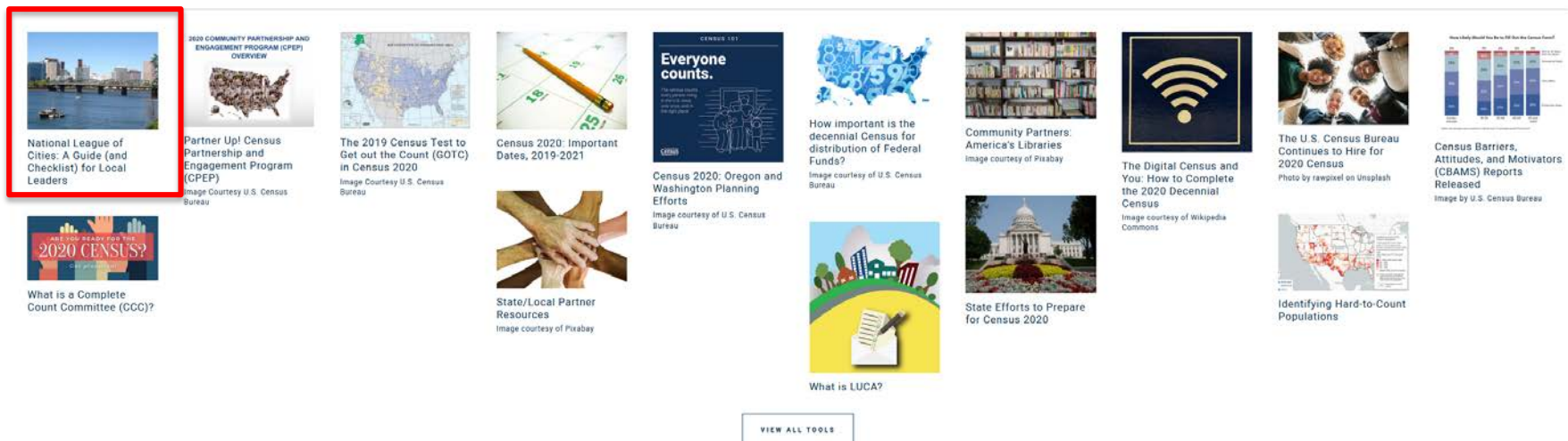
ABOUT PAGES CHALLENGES TOOLS

TOOLS & RESOURCES

BEST PRACTICES TO GET OUT THE COUNT

The Tools page shares information and best practices to foster community preparedness and inspire individual action for a fair and accurate count in the 2020 census.

Get ready to count everyone. Now.



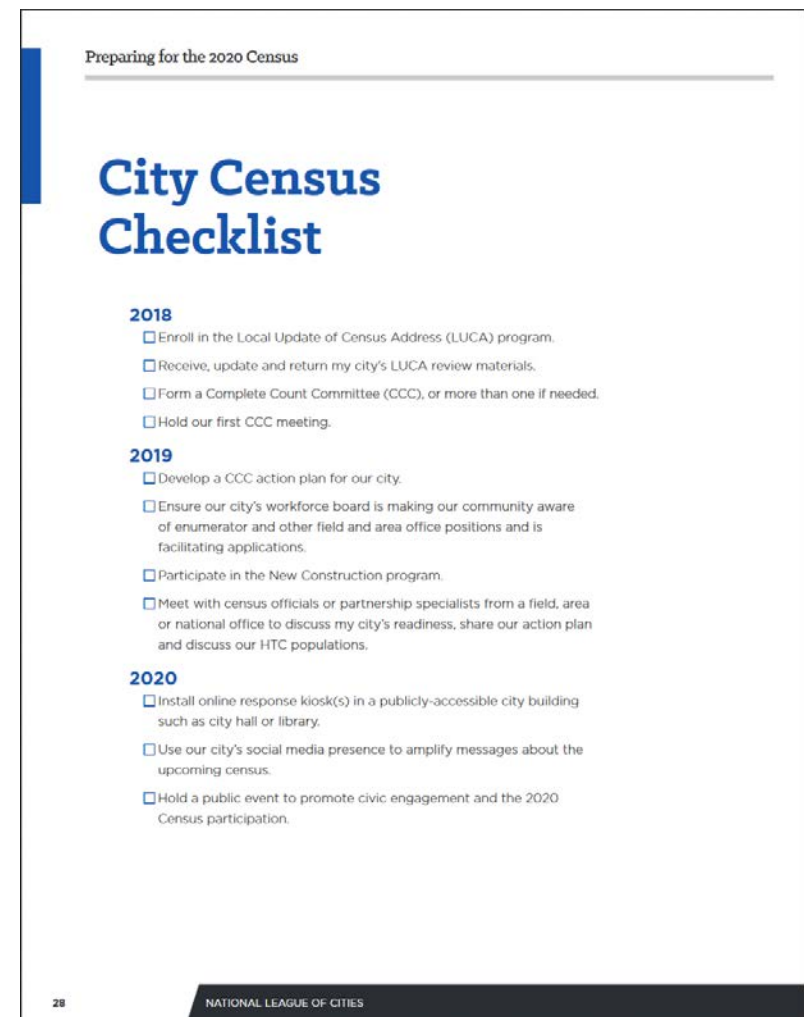
The screenshot shows a grid of resource cards. The first card, 'National League of Cities: A Guide (and Checklist) for Local Leaders', is highlighted with a red border. Other visible cards include 'Partner Up! Census Partnership and Engagement Program (CPEP) Overview', 'The 2019 Census Test to Get out the Count (GOTC) in Census 2020', 'Census 2020: Important Dates, 2019-2021', 'Everyone counts.', 'How important is the decennial Census for distribution of Federal Funds?', 'Community Partners: America's Libraries', 'The Digital Census and You: How to Complete the 2020 Decennial Census', 'The U.S. Census Bureau Continues to Hire for 2020 Census', 'Census Barriers, Attitudes, and Motivators (CBAMS) Reports Released', 'What is a Complete Count Committee (CCC)?', 'State/Local Partner Resources', 'What is LUCA?', and 'Identifying Hard-to-Count Populations'. A 'VIEW ALL TOOLS' button is located at the bottom center of the grid.

National League of Cities



The screenshot shows the NLC website with a navigation bar at the top containing links for Career Center, Newsroom, Partnerships, Why Join?, and MyNLC. Below the navigation bar are tabs for Topics, Advocacy, Events, Membership, Education, and About NLC, along with a search icon. The main content area features a large image of a family with a date stamp of November 7, 2018. A quote reads: "Municipal governments have an important relationship with the census — both as consumers of the invaluable data it gathers and as partners in ensuring the complete and accurate count of our cities." Below the image is a paragraph about the NLC's support for the Census Bureau's mission. A prominent orange button says "READ OUR CENSUS ACTION GUIDE". On the left side, there are sections for "Read our Census Action Guide", "Tags" (Guides, Research Report), "Program Area" (Center for City Solutions, Federal Advocacy), and "Related Topics" (Leadership & Management, Data Management, Race & Equity, Local).

City Census Checklist



The screenshot shows a checklist titled "City Census Checklist" under the heading "Preparing for the 2020 Census". The checklist is organized by year:

- 2018**
 - Enroll in the Local Update of Census Address (LUCA) program.
 - Receive, update and return my city's LUCA review materials.
 - Form a Complete Count Committee (CCC), or more than one if needed.
 - Hold our first CCC meeting.
- 2019**
 - Develop a CCC action plan for our city.
 - Ensure our city's workforce board is making our community aware of enumerator and other field and area office positions and is facilitating applications.
 - Participate in the New Construction program.
 - Meet with census officials or partnership specialists from a field, area or national office to discuss my city's readiness, share our action plan and discuss our HTC populations.
- 2020**
 - Install online response kiosk(s) in a publicly-accessible city building such as city hall or library.
 - Use our city's social media presence to amplify messages about the upcoming census.
 - Hold a public event to promote civic engagement and the 2020 Census participation.

The page footer includes the number "28" and the text "NATIONAL LEAGUE OF CITIES".

2020 Census Jobs

The U.S. Census Bureau is recruiting thousands of people across the country to assist with the 2020 Census count.

<https://2020census.gov/jobs.html>

1-855-JOB-2020 (1-855-562-2020)

- select option 1 for technical assistance or option 3 to speak with someone at your area census office.

Local Input and Additional Information

- Questions?
- Discussion time