# **Exploring Population Estimates and Components of Demographic Change for Counties in the Pacific Northwest**

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This presentation is released to inform parties of ongoing research and to encourage discussion in progress. Any opinions and conclusions expressed herein are those of the author and do not reflect the views of the U.S. Census Bureau.



## **Overview**

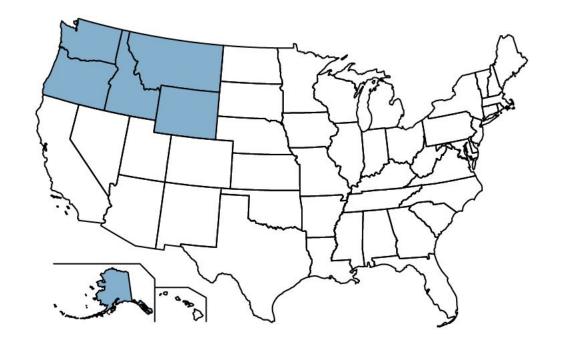
- Data and methods
- Historical patterns
- Population estimates
- Components of population change
- Racial and ethnic diversity





## **Data and Methods**

- Pacific Northwest Region as defined by PNREC
  - Alaska, Idaho, Montana, Oregon, Washington, Wyoming
- Data
  - Decennial Census
  - Population Estimates Program
  - American Community Survey (ACS)
- Methods
  - Growth rates
  - Components of change analysis
  - Migration flows
  - Racial and ethnic diversity measures



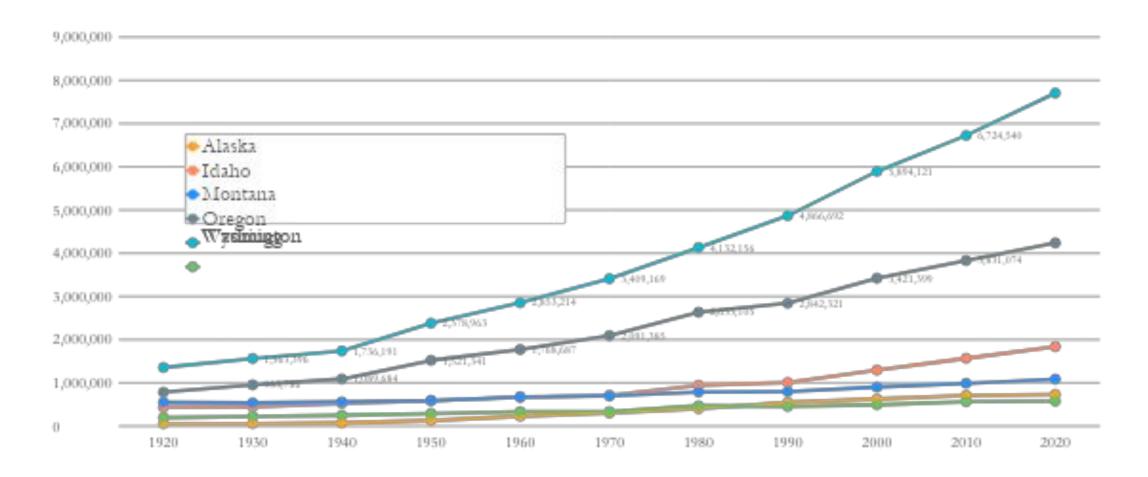


## **Historical Patterns**

- Decennial Census data show dramatic population growth in the Pacific Northwest over the past 100 years
- During this time, the population in some states has grown more than others
- As a region, the population of the Pacific Northwest shows a "boom or bust" pattern
- Many of the historical patterns are continuing today

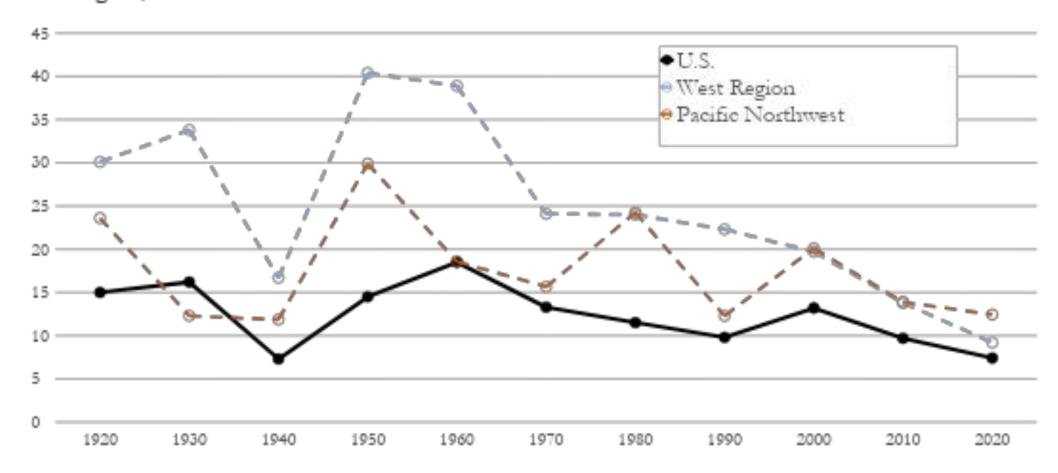


#### Resident Population in the Decennial Census for the Pacific Northwest by State: 1920 to 2020



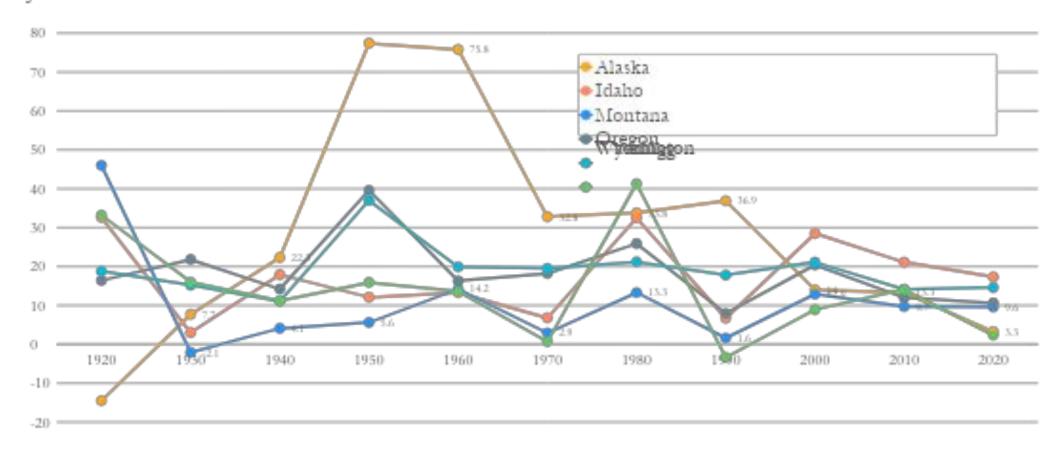


#### Population Growth Rate in the Decennial Census for the United States, West Region, and Pacific Northwest: 1920 to 2020





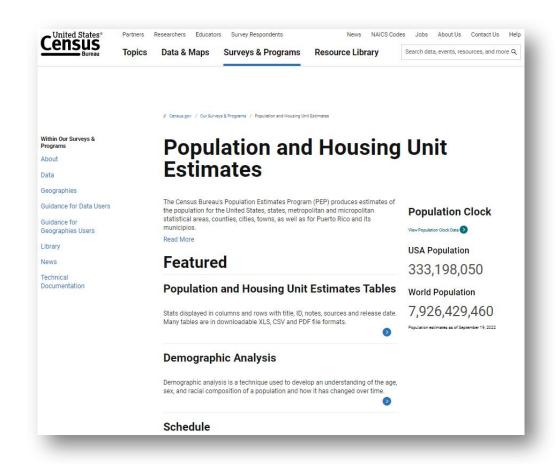
#### Population Growth Rate in the Decennial Census for the Pacific Northwest by State: 1920 to 2020





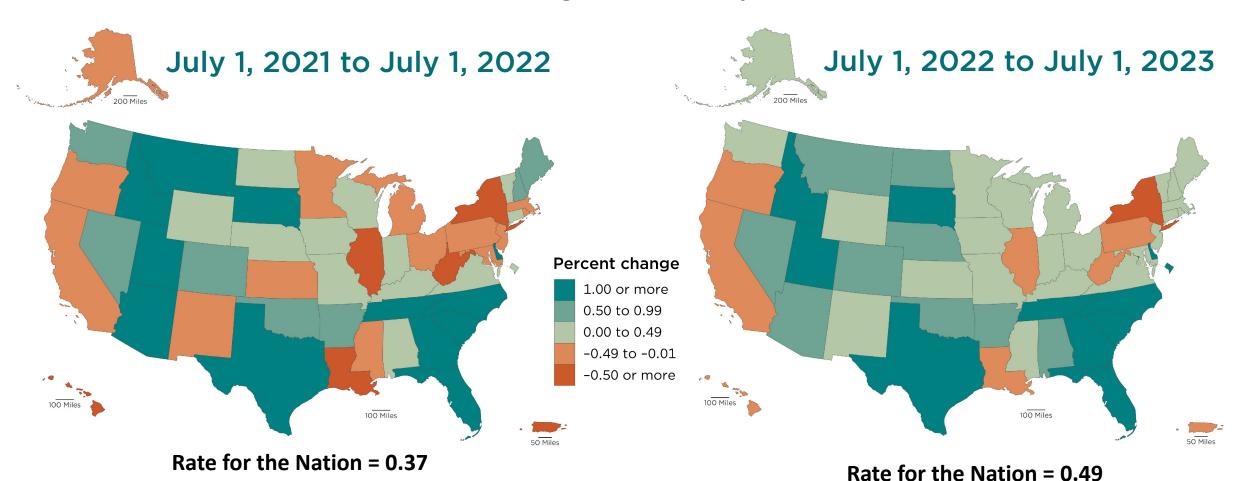
## **Population Estimates Program**

- The Population Estimates Program (PEP) disseminates official measures of population and housing units between decennial censuses
- Developed as per Title 13, U.S. Code, Section 181
- Use cases include:
  - Population controls and denominators
  - Academic and business research
  - Program planning in the public and private sectors
- Time series are released annually featuring data for the date of the last census through the vintage year, which represents the latest year of estimates available
- Vintage 2023 is the current series
  - Contains estimates for April 1, 2020 to July 1, 2023





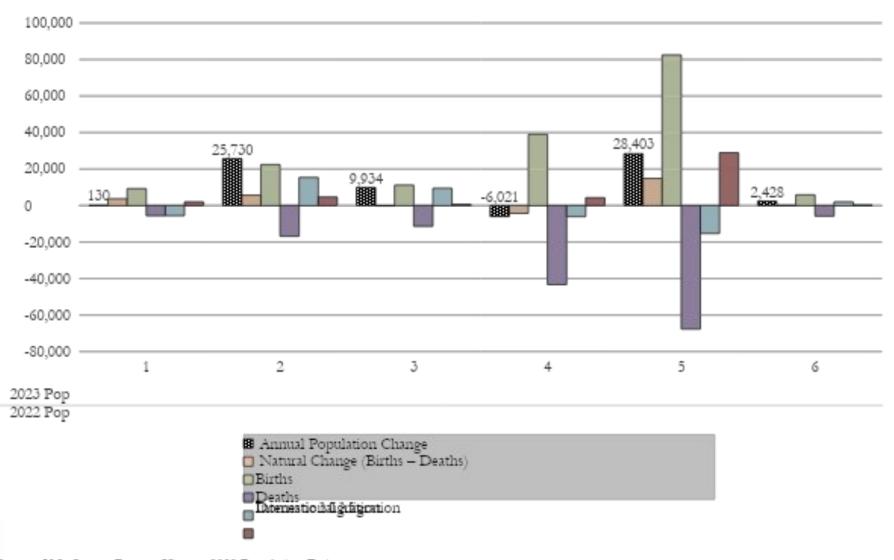
#### **Percent Change in State Population**



Source: Vintage 2023 Population Estimates.



#### Components of Change by State, 2022-2023





#### Ten Counties with the Largest Population in the Pacific Northwest Region: July 1, 2023

State	County	April 1, 2020 (Estimates Base)	July 1, 2020	July 1, 2021	July 1, 2022	July 1, 2023
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Washington	King County	2,269,697	2,274,282	2,252,980	2,265,311	2,271,380
Washington	Pierce County	921,147	923,589	927,402	926,479	928,696
Washington	Snohomish County	827,953	829,933	836,097	840,452	844,761
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Oregon	Multnomah County	815,418	816,514	805,319	794,563	789,698
Oregon	Washington County	600,369	601,130	602,453	600,086	598,865
Washington	Spokane County	539,340	541,175	545,510	549,740	551,455
Idaho	Ada County	494,961	498,278	513,025	519,004	524,673
Washington	Clark County	503,306	505,338	512,583	516,737	521,150
Oregon	Clackamas County	421,398	422,468	423,804	423,118	423,173
Oregon	Lane County	382,983	383,308	384,121	382,181	381,181
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Source: U.S. Census Bureau, Population Division, Vintage 2023 Population Estimates.



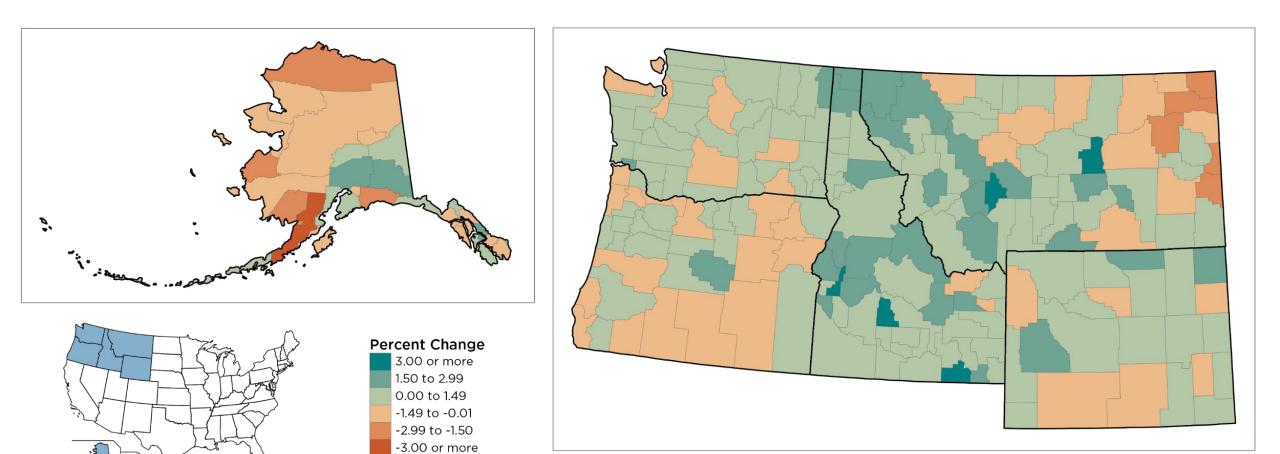
#### Ten Counties with the Smallest Population in the Pacific Northwest Region: July 1, 2023

		April 1, 2020 (Estimates					
State	County	Base)	July 1, 2020	July 1, 2021	July 1, 2022	July 1, 2023	
Montana	Petroleum County	495	499	518	521	554	
Alaska	Yakutat City and Borough	663	682	710	685	687	
Montana	Treasure County	760	759	768	754	772	
Idaho	Clark County	789	792	793	810	801	
Montana	Golden Valley County	824	821	815	826	835	
Alaska	Bristol Bay Borough	843	830	842	870	844	
Montana	Wibaux County	937	935	936	927	910	
Alaska	Skagway Municipality	1,240	1,238	1,147	1,092	1,095	
Montana	Prairie County	1,091	1,091	1,097	1,108	1,112	
Montana	Garfield County	1,172	1,172	1,208	1,218	1,211	
Source: U.S. Census Bureau, Population Division, Vintage 2023 Population Estimates.							



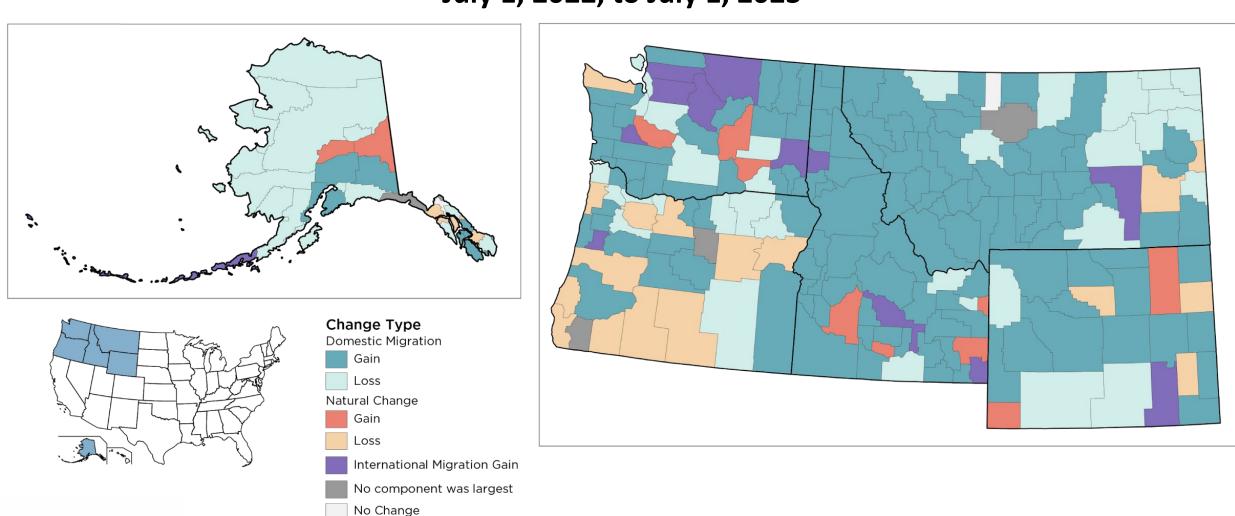


#### Percent Change in Population for Select Counties: July 1, 2022, to July 1, 2023





# Largest Component of Population Change for Counties in the Pacific Northwest: July 1, 2022, to July 1, 2023





## **ACS Migration Data**

Largest Source of Domestic Migration for States in the Pacific Northwest Region: 2022

	State of		
Current	Residence One		
Residence	Year Ago	Estimate	MOE
Alaska	Utah	4,215	+/- 3,992
Idaho	California	26,887	+/- 4,189
Montana	Washington	5,225	+/- 1,311
Oregon	California	36,429	+/- 4,777
Washington	California	49,968	+/- 4,813
Wyoming	Colorado	5,076	+/- 1,464

Source: U.S. Census Bureau, 2022 American Community Survey, 1-year estimates.



**Table 1. State-to-State Migration Flows: 2022** 

Universe: Population 1 year and over

	Abroad 1 year ago							
	Total		Puerto Rico		U.S. Island Area		Foreign Country	
Current residence	Estimate	MOE	Estimate	MOE	Estimate	MOE	Estimate	MOE
United States	2,141,842	+/- 43,237	42,990	+/- 6,039	19,460	+/- 3,718	2,079,392	+/- 42,837
Alaska	5,191	+/- 1,914	129	+/- 190	265	+/- 439	4,797	+/- 1,855
Idaho	9,124	+/- 2,728	63	+/- 106	115	+/- 216	8,946	+/- 2,713
Montana	2,885	+/- 1,059	0	+/- 182	0	+/- 182	2,885	+/- 1,059
Oregon	17,749	+/- 2,936	0	+/- 214	325	+/- 312	17,424	+/- 2,930
Washington	57,785	+/- 6,814	195	+/- 190	2,884	+/- 1,755	54,706	+/- 6,470
Wyoming	1,702	+/- 723	4	+/- 1	221	+/- 395	1,477	+/- 546

#### Footnotes:

Movers within Puerto Rico are included in the column labeled "Same state of residence 1 year ago"

MOE - Margin of error based on 90% confidence interval

N/A - Not Applicable

For more information on state migration flows see https://www.census.gov/topics/population/migration/guidance/state-to-state-migration-flows.html
The Census Bureau reviewed this data product for unauthorized disclosure of confidential information and approved the disclosure avoidance practices applied to this release. CBDRB-FY23-0390.

 $Source: U.S.\ Census\ Bureau,\ 2022\ American\ Community\ Survey,\ 1-year\ estimates.$ 

For more information on the ACS, see https://www.census.gov/programs-surveys/acs/



## **Racial and Ethnic Diversity**

- The Census Bureau used several measures of racial and ethnic diversity to highlight the results of the 2020 Census
  - Diversity Index
  - Prevalence Rankings
  - Prevalence Maps

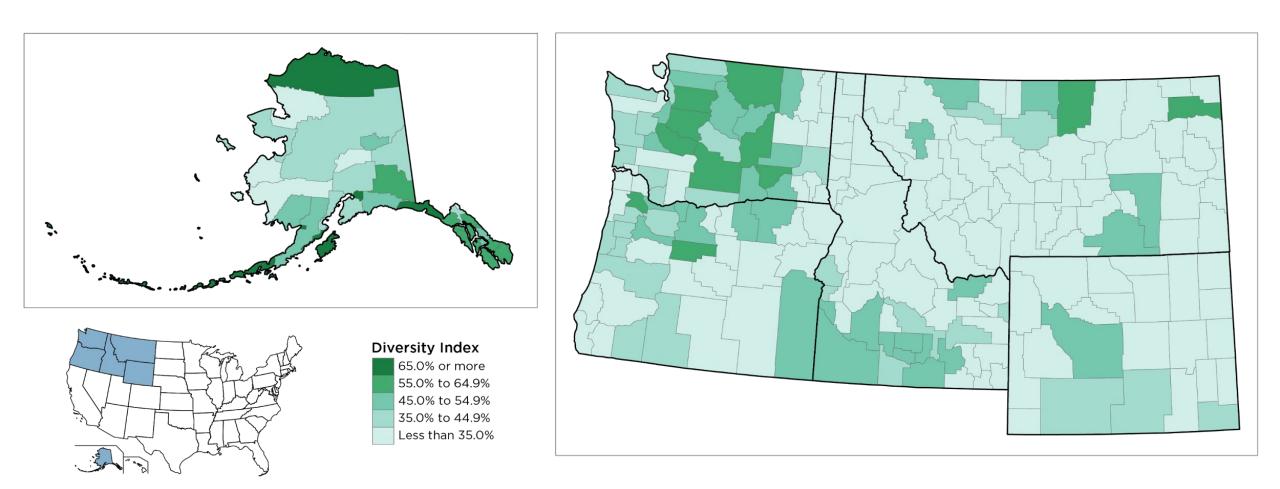
https://www.census.gov/library/stories/202 1/08/2020-united-states-population-more-r acially-ethnically-diverse-than-2010.html

#### **Definition**

The concept of racial and ethnic diversity we use refers to the representation and relative size of different racial and ethnic groups within a population and is maximized when all groups are represented in an area and have equal shares of the population.

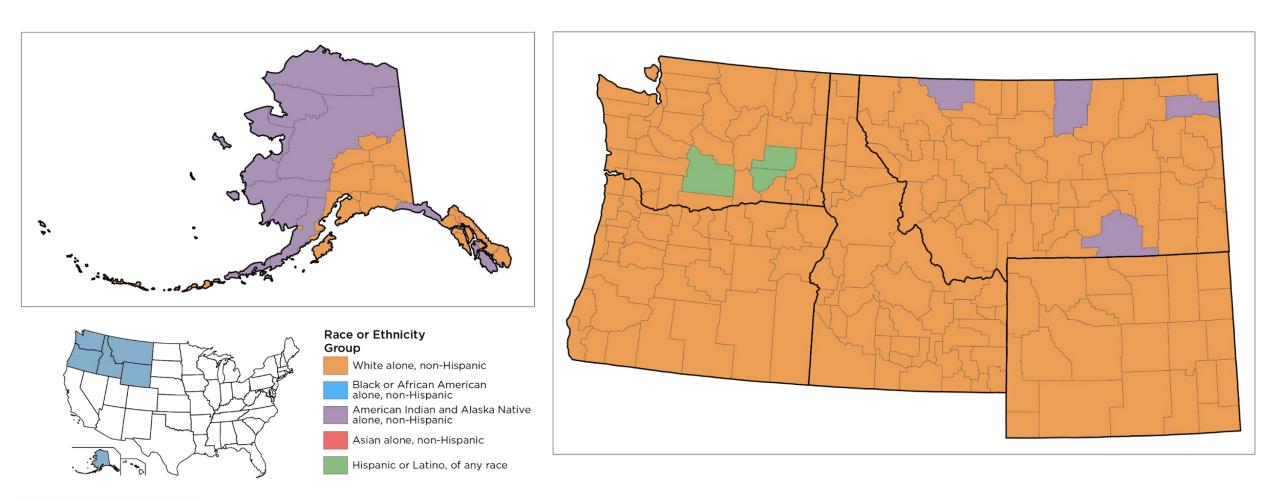


#### Diversity Index for Counties in the Pacific Northwest: April 1, 2020





#### Most Prevalent Race or Ethnic Group for Counties in the Pacific Northwest: April 1, 2020

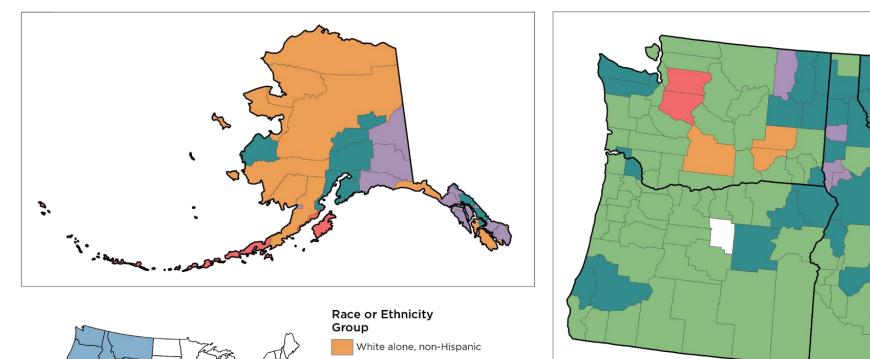




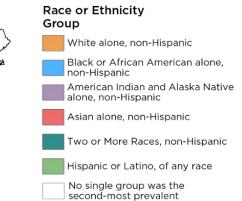
Note: Native Hawaiian and Other Pacific Islander alone, non-Hispanic, Some Other Race alone, non-Hispanic, and
Two or More Races, non-Hispanic were not the most prevalent group in any county.

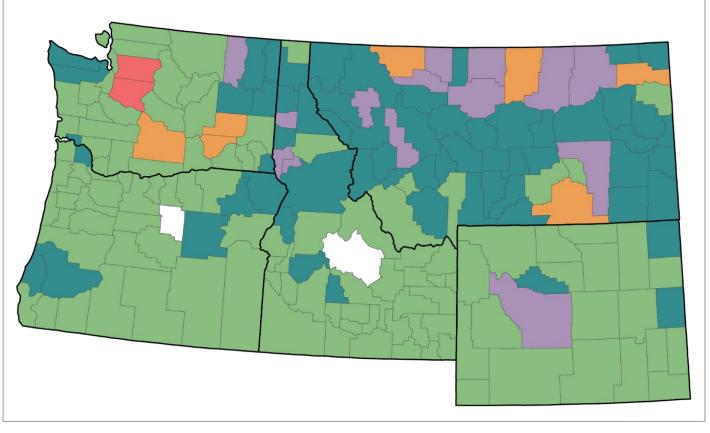
Source: U.S. Census Bureau, 2020 Census Redistricting Data (Public Law 94-171) Summary File.

# Second-Most Prevalent Race or Ethnic Group for Counties in the Pacific Northwest: April 1, 2020











Note: Native Hawaiian and Other Pacific Islander alone, non-Hispanic, and Some Other Race alone, non-Hispanic were not the second most prevalent group in any county.

Source: U.S. Census Bureau, 2020 Census Redistricting Data (Public Law 94-171) Summary File.

## Conclusion

- Historically, the population the Pacific Northwest Region has followed a boom or bust pattern
- There is variation by state and county in the components of demographic change
- Domestic migration is both a driver for population gain and population loss in the Pacific Northwest
- Much of the migration into the region is coming from states outside the Pacific Northwest
- There is some variation in racial and ethnic diversity by county



## Questions?

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