



# *Growing Forward<sup>TM</sup>*

## *Population & Economic Trends in Colorado and Metro Denver*

Chris Akers

DRCOG Citizens Academy, September 24, 2019  
State Demography Office, Department of Local Affairs

[Demography.dola.colorado.gov](http://Demography.dola.colorado.gov)



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# *State Demography Office*

- State Agency
  - Responsible for population data needed by state agencies
- **Department of Local Affairs (DOLA)**
  - Prepare data and information in ways that account for local perspectives, needs
- **Public Information**
  - Make data and information readily available to the public, needs
- **Outreach**
  - Work with local governments and others to understand what the numbers are saying



# *Transitions to Watch*

- Population growing at a slowing rate
- Concentrated growth
- Migration - challenge of attracting and retaining the best and brightest. Can we continue to do it? Do we want to? And where do we put them?
- Aging - impacts everything... including the economy.
- Increase racial and ethnic diversity.
- Automation / changes to industries - retail, manuf., construction, accommodation & food, and etc.



# *Big Picture - 2017-2018 Pop Change*

- US - 327.2 million, + 2.02 million or .6%
- Colorado - 5,695,564
- Ranked 7<sup>th</sup> fastest 1.4% - NV, ID, UT, AZ, FL, WA
- 8<sup>th</sup> in total growth 79,662 - TX, FL, CA, AZ, NC, WA, GA
- Growth of 666,200 since 2010 and Ave. Annual Growth rate of 1.6% or 83,000/yr
- Range in Colorado Counties:
- +12,900 to -60



# *QUICK FACTS ON COLORADO'S POPULATION*

- 5th fastest growth Apr 2010 to July 2018 @ 13.2% - DC, TX, UT, and FL vs. 6.0% U.S.
- 8<sup>th</sup> most growth Apr 2010 to July 2018 @ 666,248 - TX, CA, FL, GA, WA, NC, AZ (61% of growth from migration)
- Median Age: 36.8 (11<sup>th</sup> lowest) - UT, DC, AK, TX, ND, ID
- 13.8% over age of 65 - AK, UT, DC, TX, GA
- 21.5% Hispanic - NM, TX, CA, AZ, NV, FL

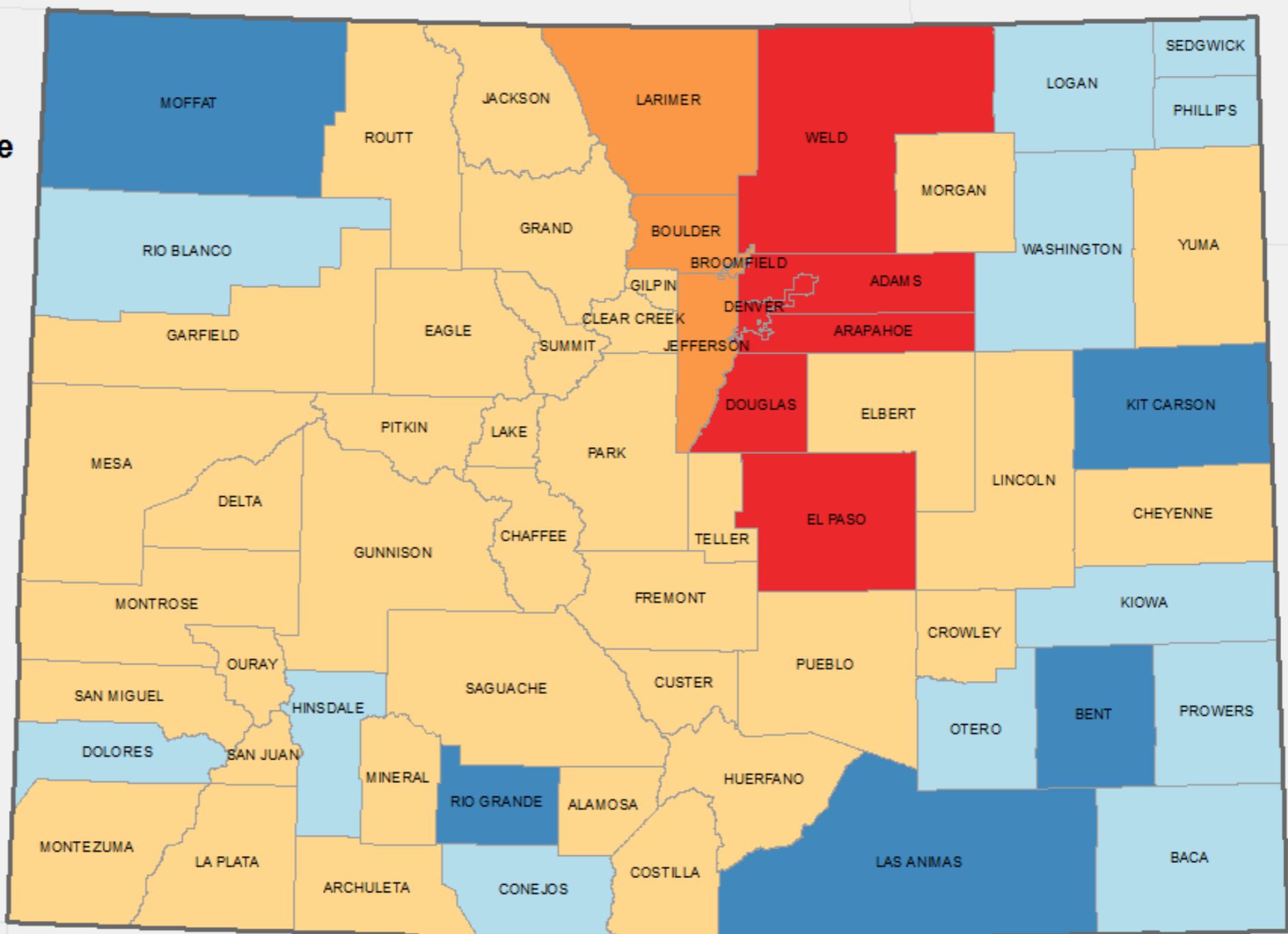
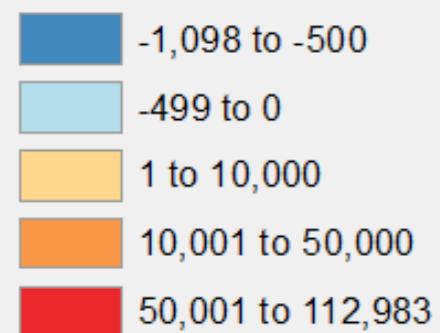


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# Colorado: Total Population Change

## 2010 - 2018

### Population Change



Colorado State Demography Office, 05/02/2019



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# County Population Rankings, 2018

## Population Growth (2010-2018)

1	Denver County	112,983
2	El Paso County	87,304
3	Arapahoe County	76,694
4	Adams County	68,009
5	Weld County	60,058
7	Larimer County	49,830

## Largest by Population

1	Denver County	717,862
2	El Paso County	714,536
3	Arapahoe County	651,513
4	Jefferson County	579,877
5	Adams County	511,720
6	Larimer County	350,434
7	Douglas County	342,937

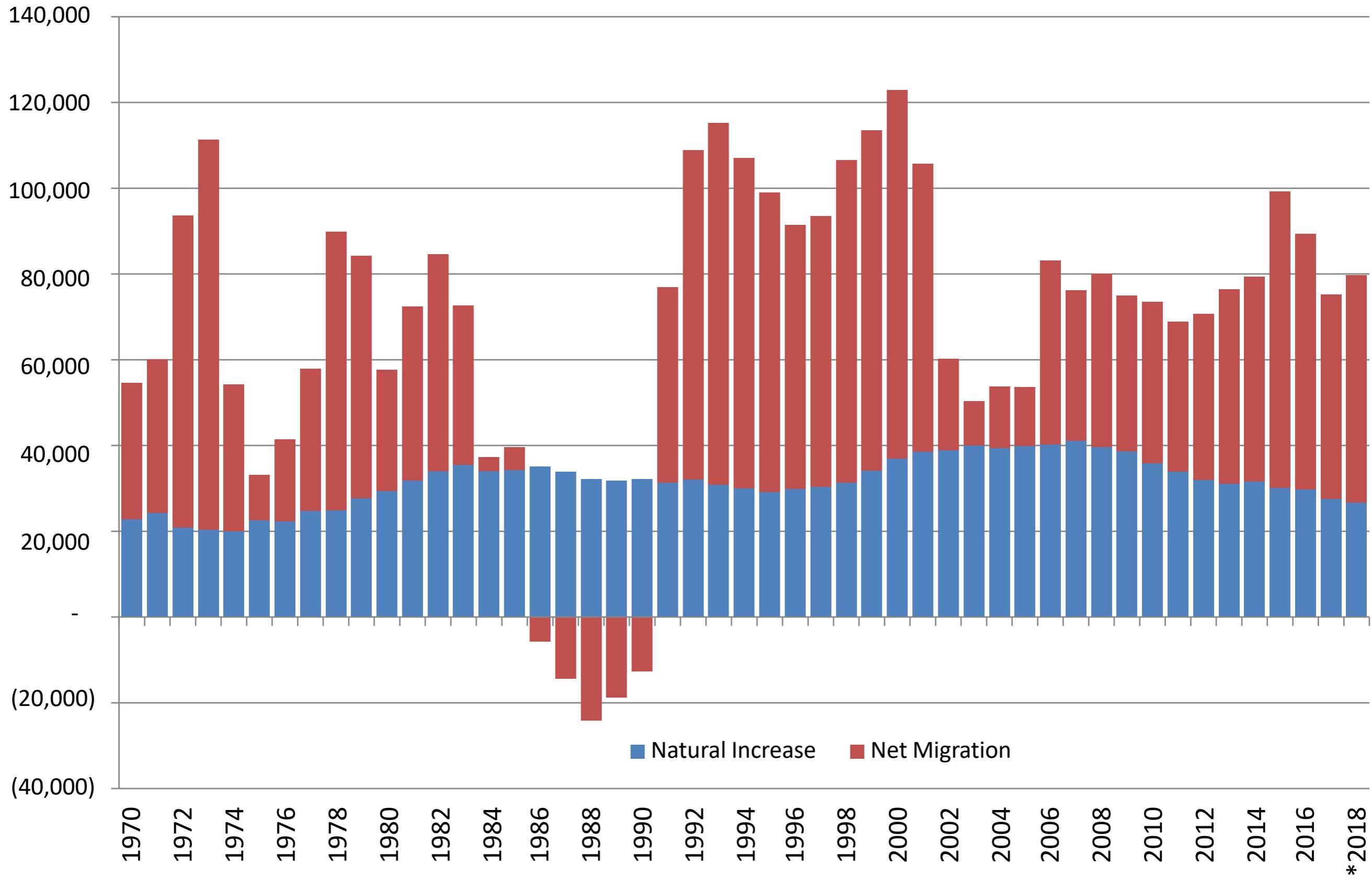
## Percent Growth (2010-2018)

1	Weld County	24%
2	Broomfield County	23%
3	Douglas County	19%
4	Denver County	19%
5	Larimer County	17%

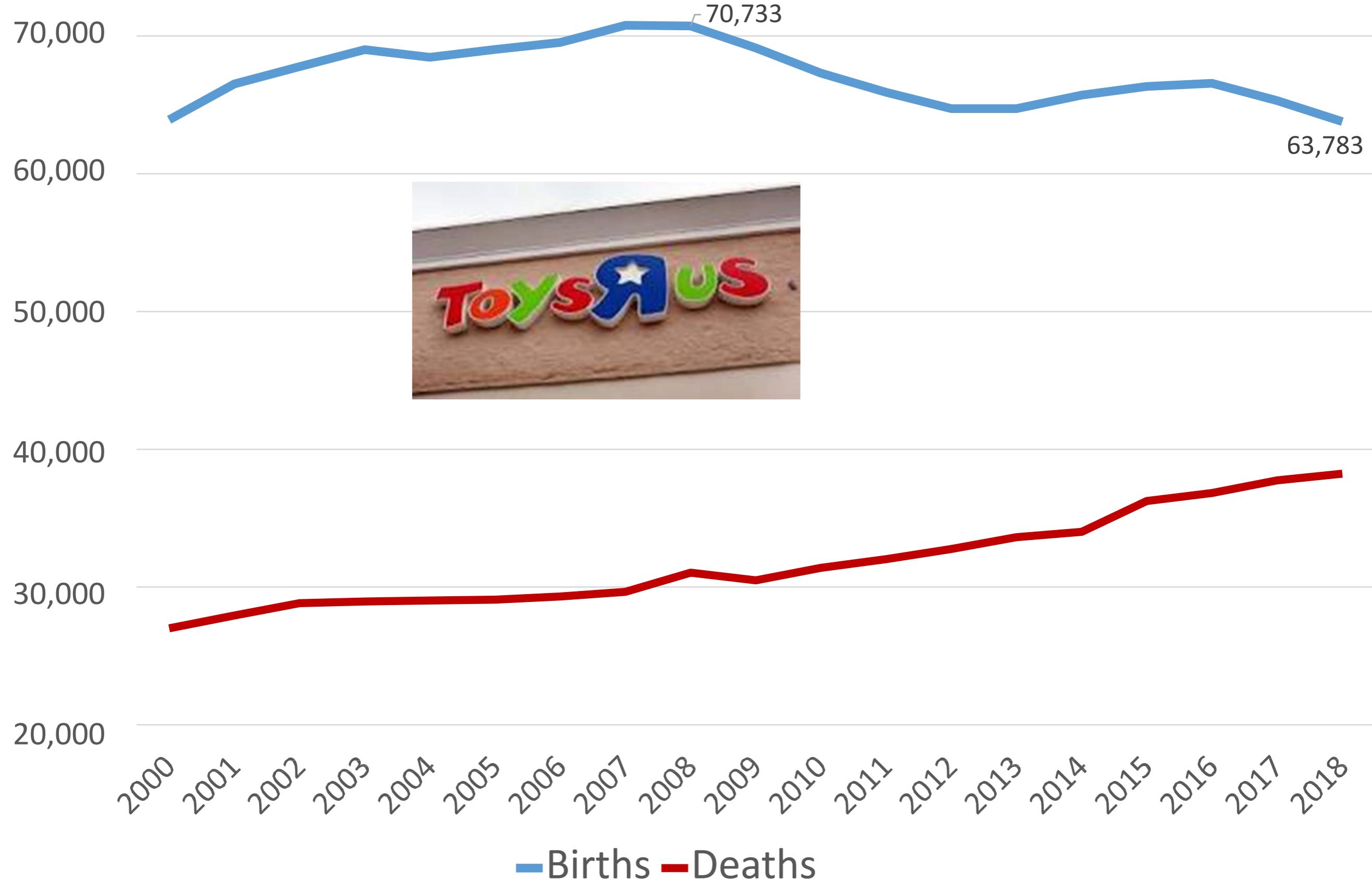
8	Boulder County	325,520
9	Weld County	314,288
10	Pueblo County	167,081
11	Mesa County	153,628
12	Broomfield	69,130



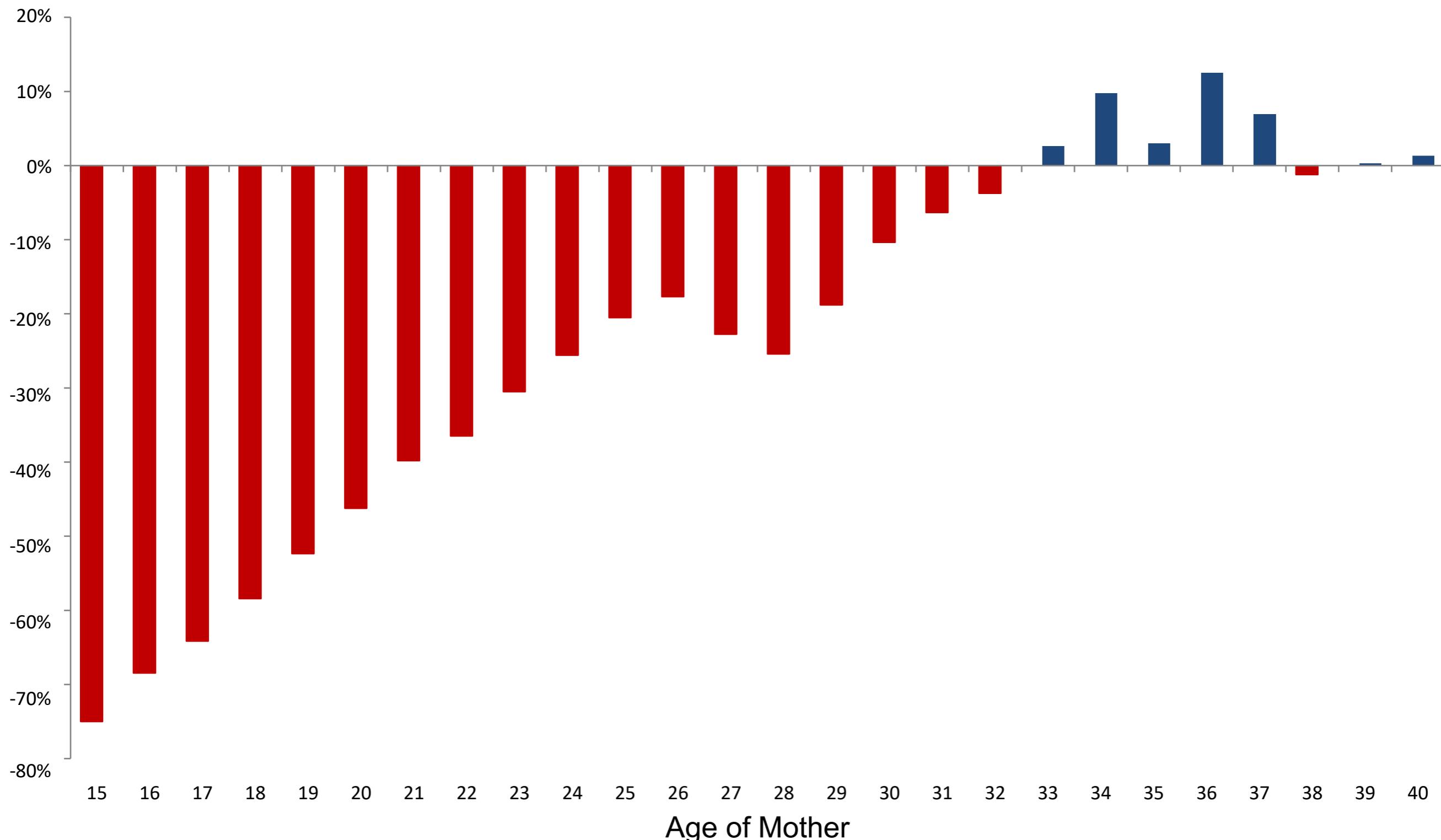
# Components of Population Change 1970-2018



# Colorado Births and Deaths since 2000



# PERCENT CHANGE IN BIRTH RATE BY AGE 2009-17



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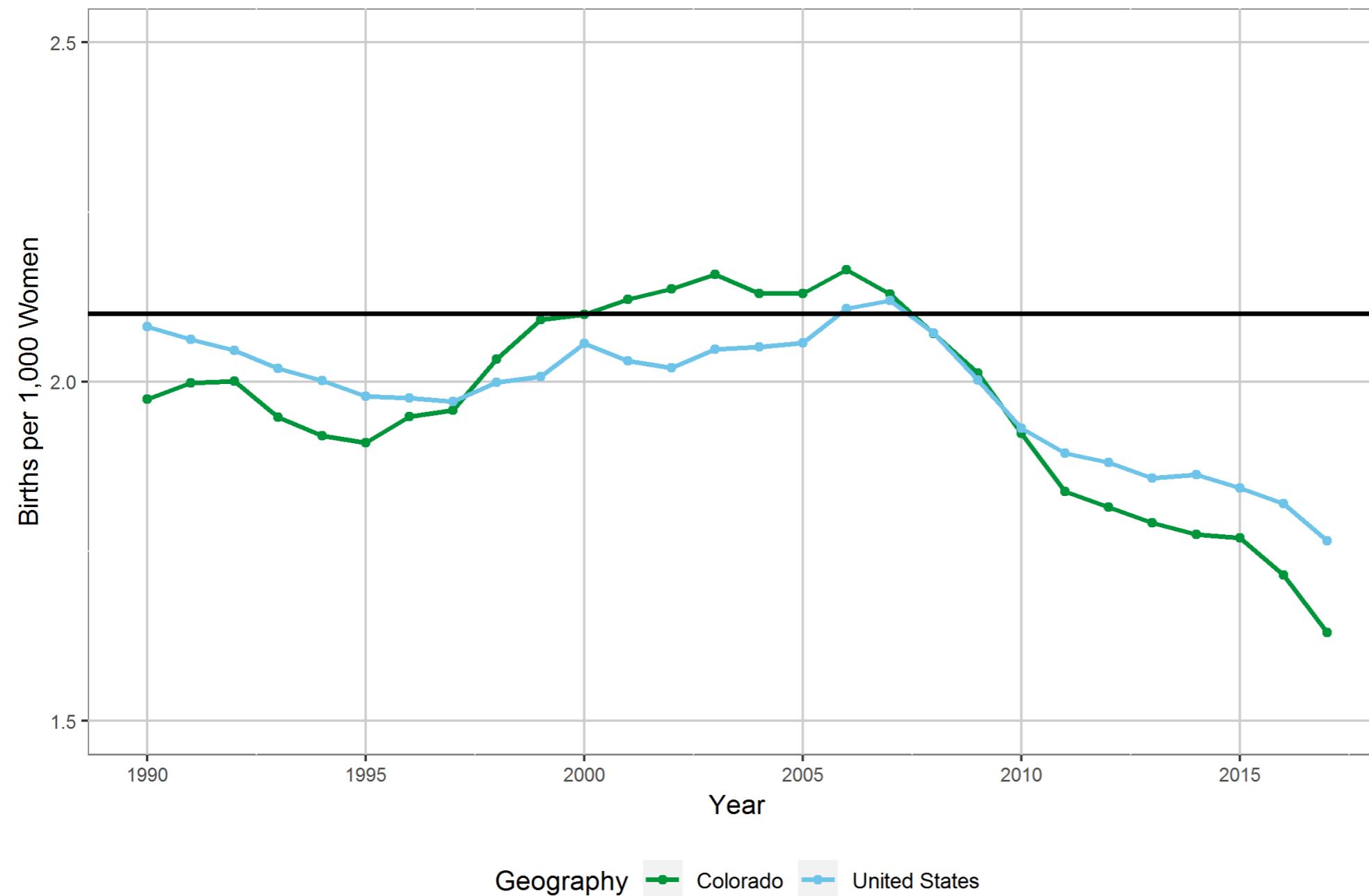
Birth Rates from Colorado Department of Public Health and Environment, 2018

# Colorado vs. National Fertility

Births per 1,000 Women: 1990-2017

Colorado and United States

- The fertility rate for both Colorado and the United States has been below 2.1 births per 1,000 women (the replacement level) since 2007
- Recently, the fertility rate for Colorado is lower than the rate for the United States



Geography    ● Colorado    ● United States

Colorado Department of Public Health and Environment Date Printed: 03/08/2019

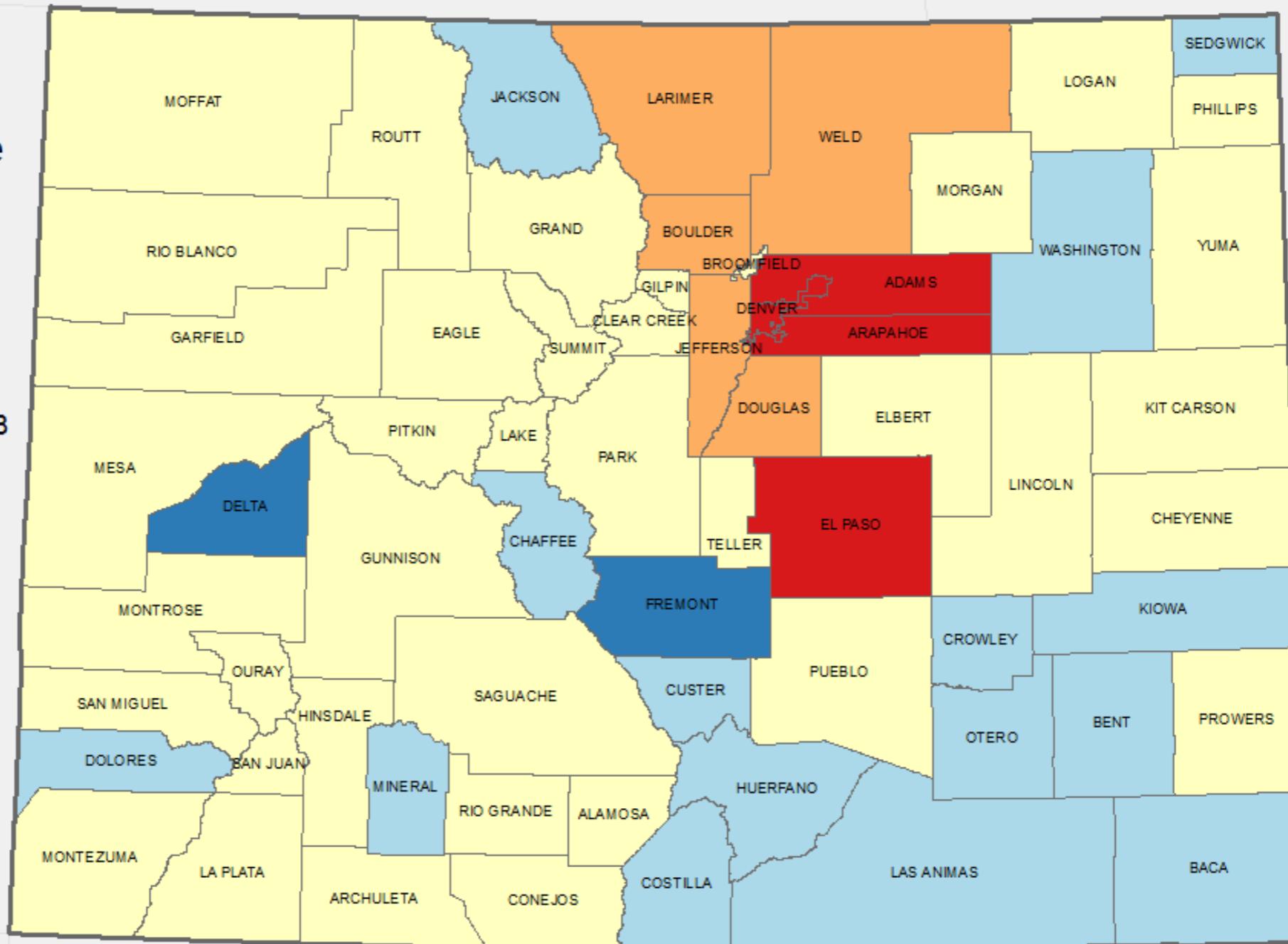
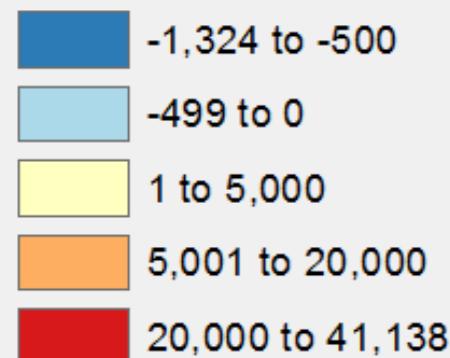


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# Colorado: Natural Population Change (Births and Deaths)

2010 - 2018

## Natural Increase



Colorado State Demography Office, 05/09/2019



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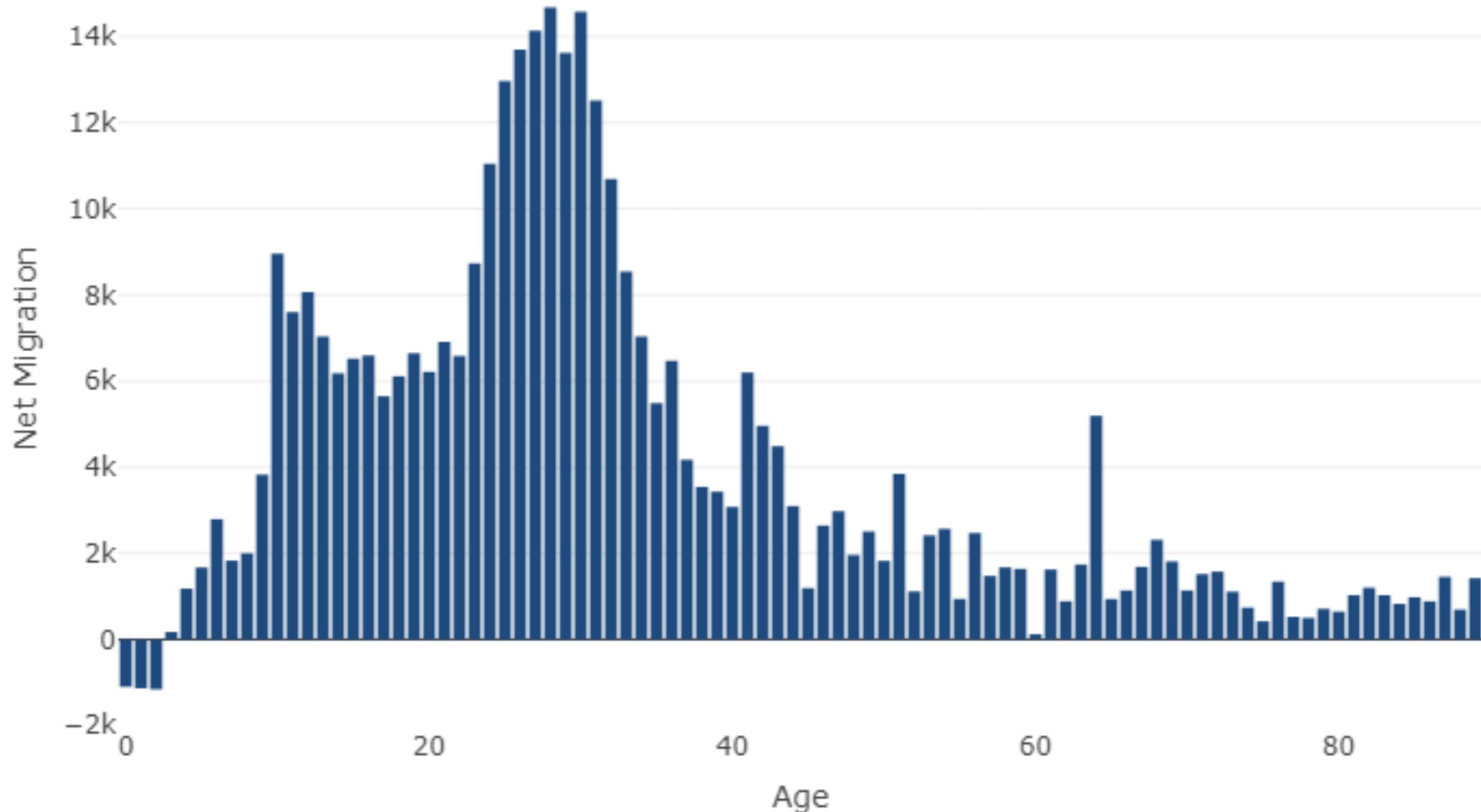
# *The Role of Migration*

- Migration is the most volatile component of Colorado's population
- In 2017, 226,933 people moved into Colorado while 194,296 moved out (per ACS)
- Since 1990 there has been a positive net-migration (more in-migrants than out-migrants) each year
  - Previous research suggests that in-migrants and out-migrants do not differ significantly
  - But, did these migrants move children?
  - Can the decline in school-age children be attributed to out-migration of families?
- Answering this question requires an analysis of households, using available data from the American Community Survey Public Use Microdata Sample (PUMS)



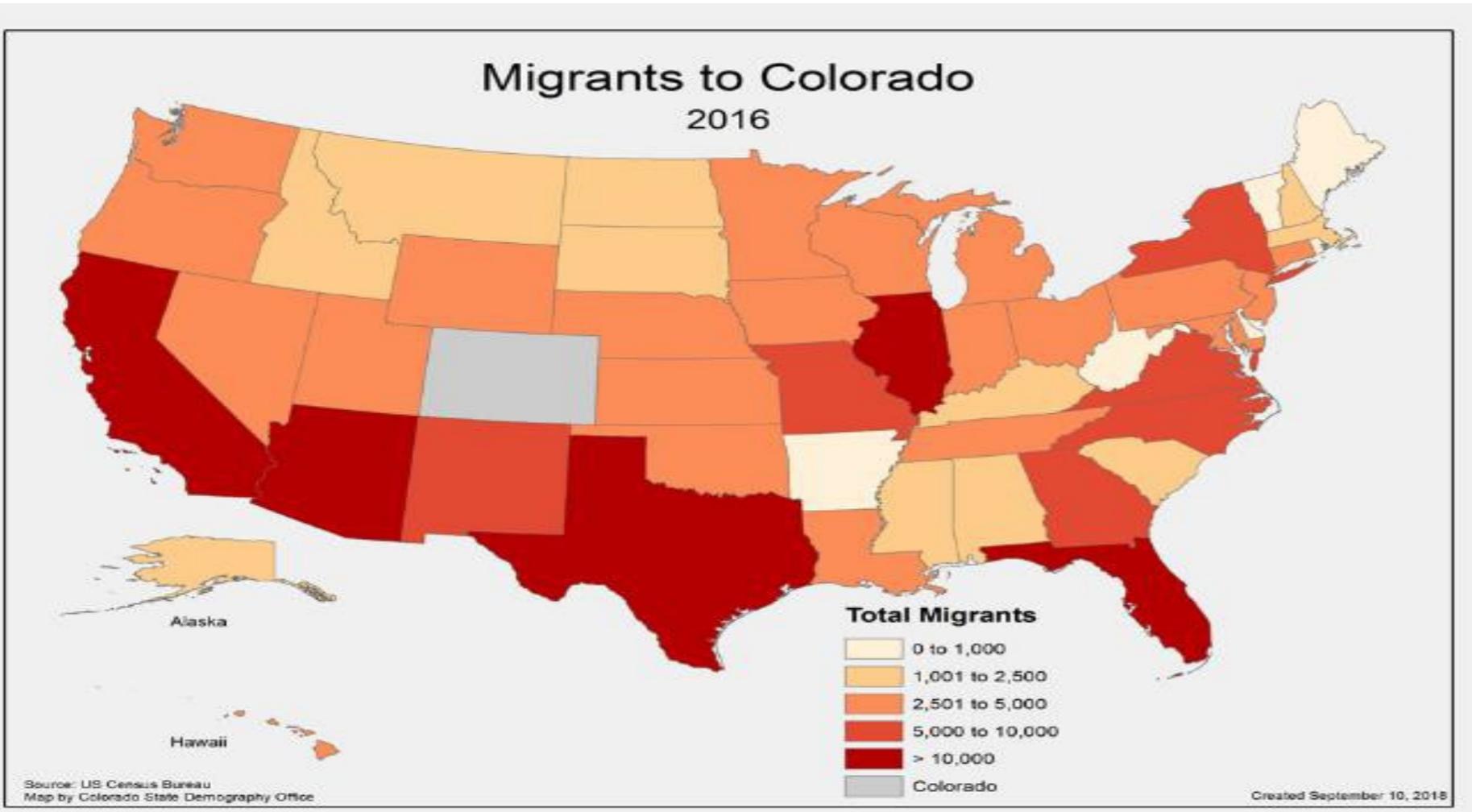
# Colorado

Net Migration by Age, 2000 to 2010



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# Migration to Colorado



- In migration ave. 170,000-230,000 /yr.
- Out migration ave. 150,000-190,000 /yr.

They are:

- Younger
- Lower Income
- Higher educational attainment than the Colorado average.

## 2016 State to State Migration

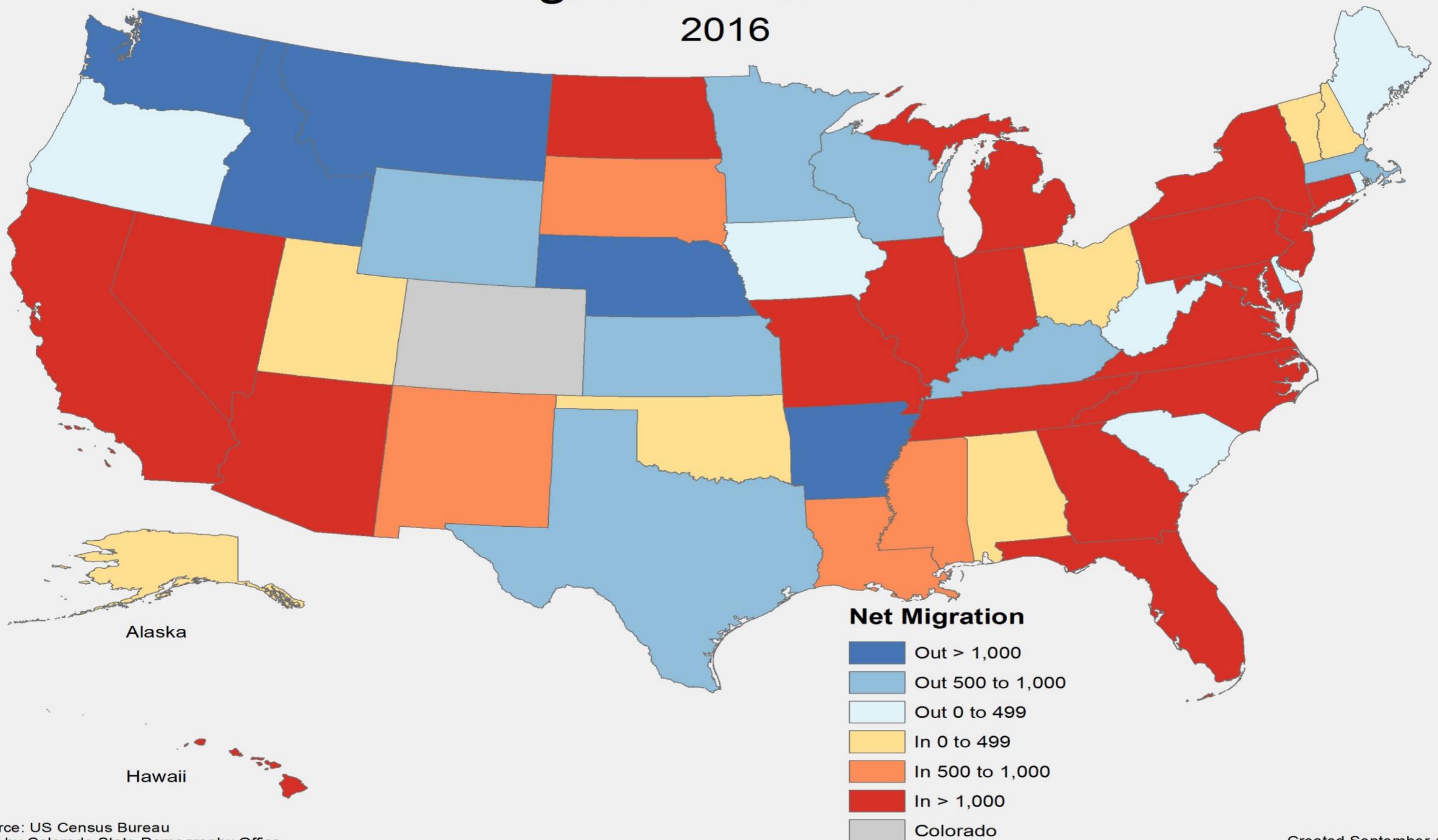
In (#)	Out (#)	Net (#)
California (26,900)	California (22,500)	Illinois (8,100)
Texas (20,700)	Texas (21,600)	New York (5,100)
Florida (13,500)	Washington (13,000)	California (4,400)
Arizona (13,000)	Arizona (11,900)	Virginia (3,900)
Illinois (11,400)	Florida (9,900)	Florida (3,700)



# Colorado Net Migration

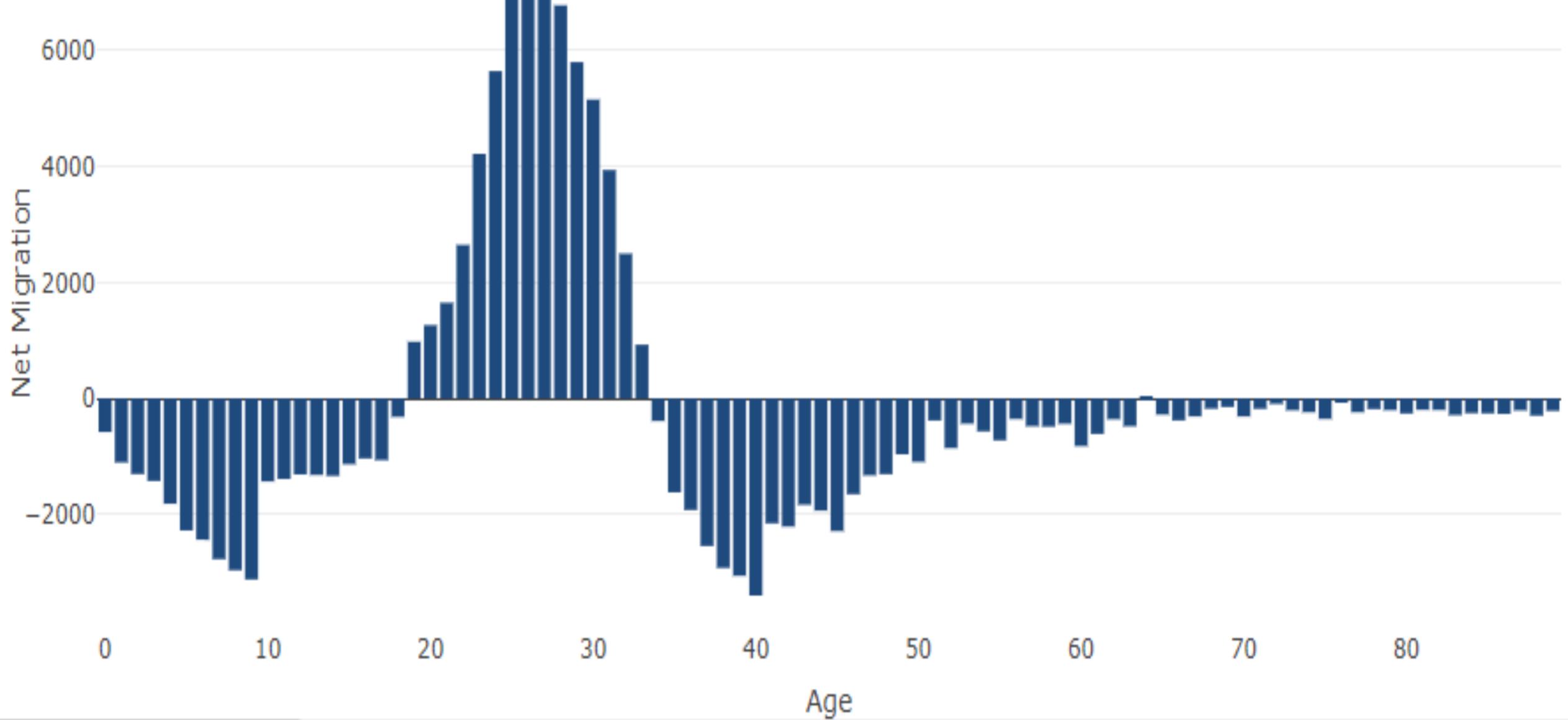
## Net Migrants from Colorado

2016



# Denver County

Net Migration by Age, 2000 to 2010

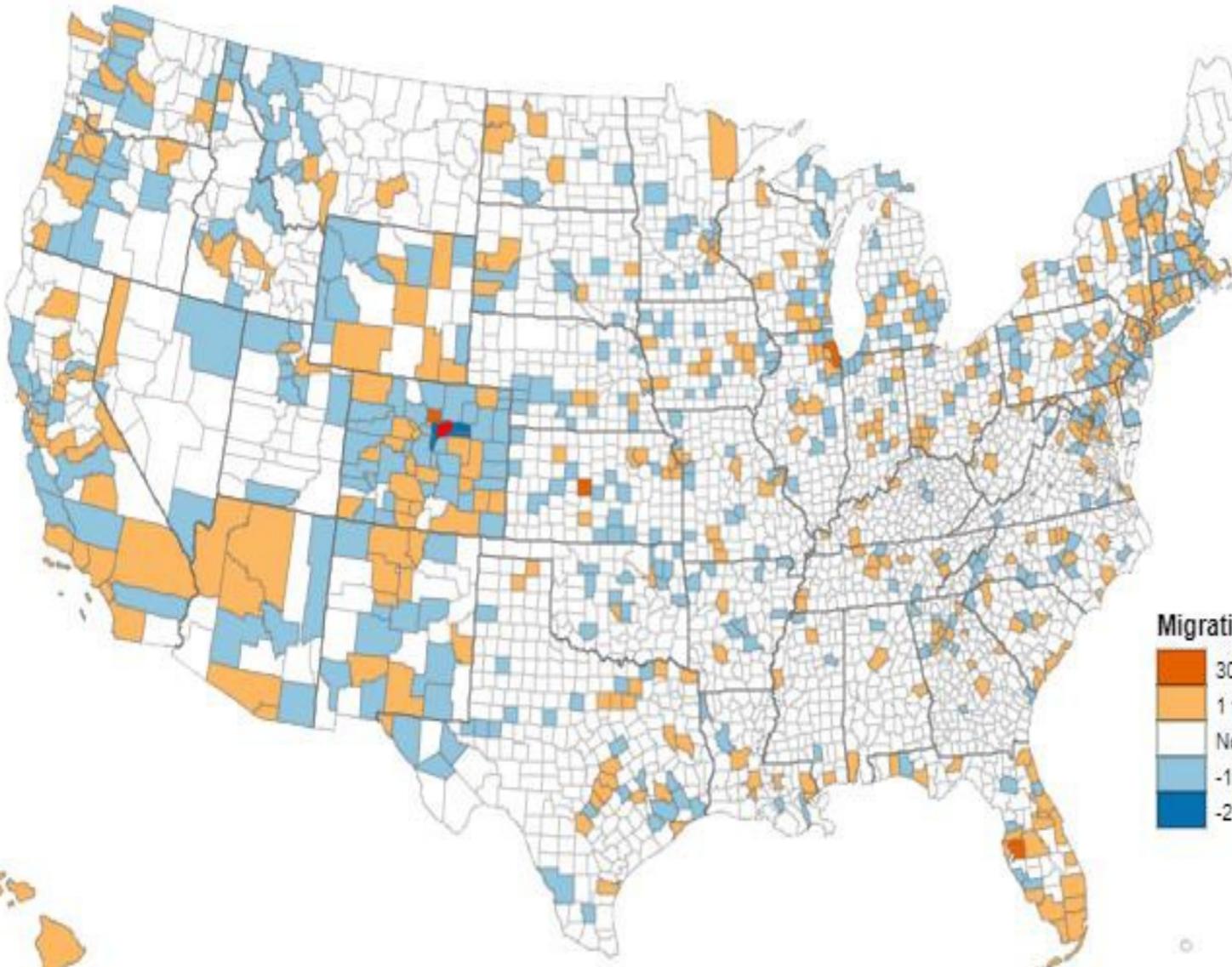


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# Net Migration from Denver



Total Net Migration Flows  
for Denver County, Colorado



Source: U.S. Census Bureau, 2013-2017 5-year American Community Survey

United States  
Census  
Bureau



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<https://flowsmapper.geo.census.gov/map.html#>

## Net Out-Migration

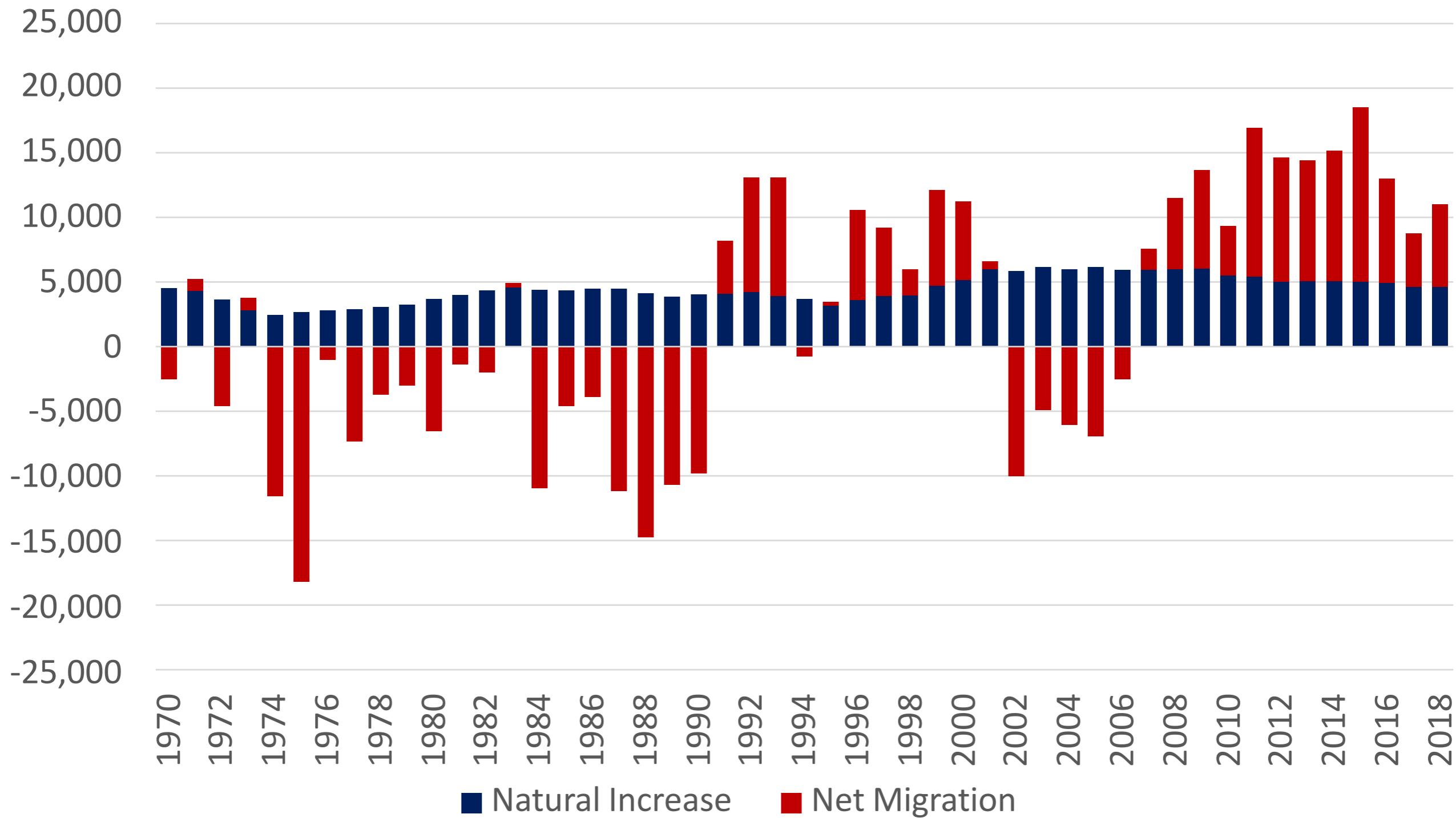
1. Arapahoe	- 2,600
2. Adams	- 1,921
3. Jefferson	- 1,476
4. Douglas	- 560
5. El Paso	- 509
6. Broomfield	- 472
7. King, WA	- 386
8. Larimer	- 356
9. Weld	- 298
391 Counties	- 19,878

## Net In-Migration

1. Boulder	914
2. Cook, IL	700
3. Hillsborough, FL	572
4. Barton, KS	443
5. Dist. Of Columbia	302
6. Alameda, CA	286
7. Eagle	267
8. San Francisco, CA	249
359 Counties	+18,423

# Denver County Components of Change

Denver County Components of Change 1970 -2018



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<https://flowsmapper.geo.census.gov/map.html#>

# Colorado forecast highlights

2050 Population 8.1 million

Slower growth

Continued rapid aging

Increasing diversity



# Expectations of Growth 2015-2050

## Metropolitan Front Range

### North Front Range

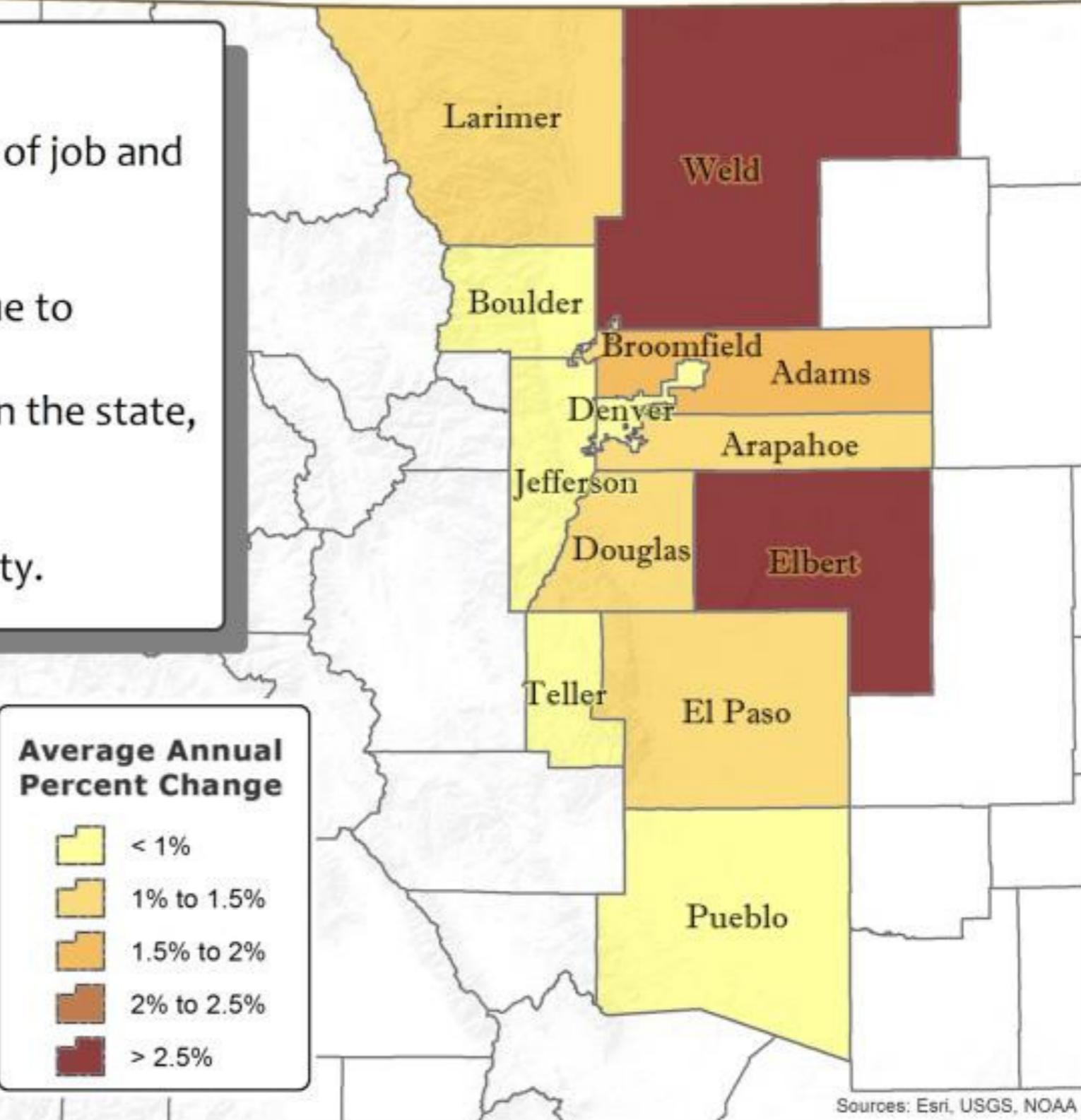
- Leads state in forecast rate of job and population growth.

### Denver Metropolitan Area

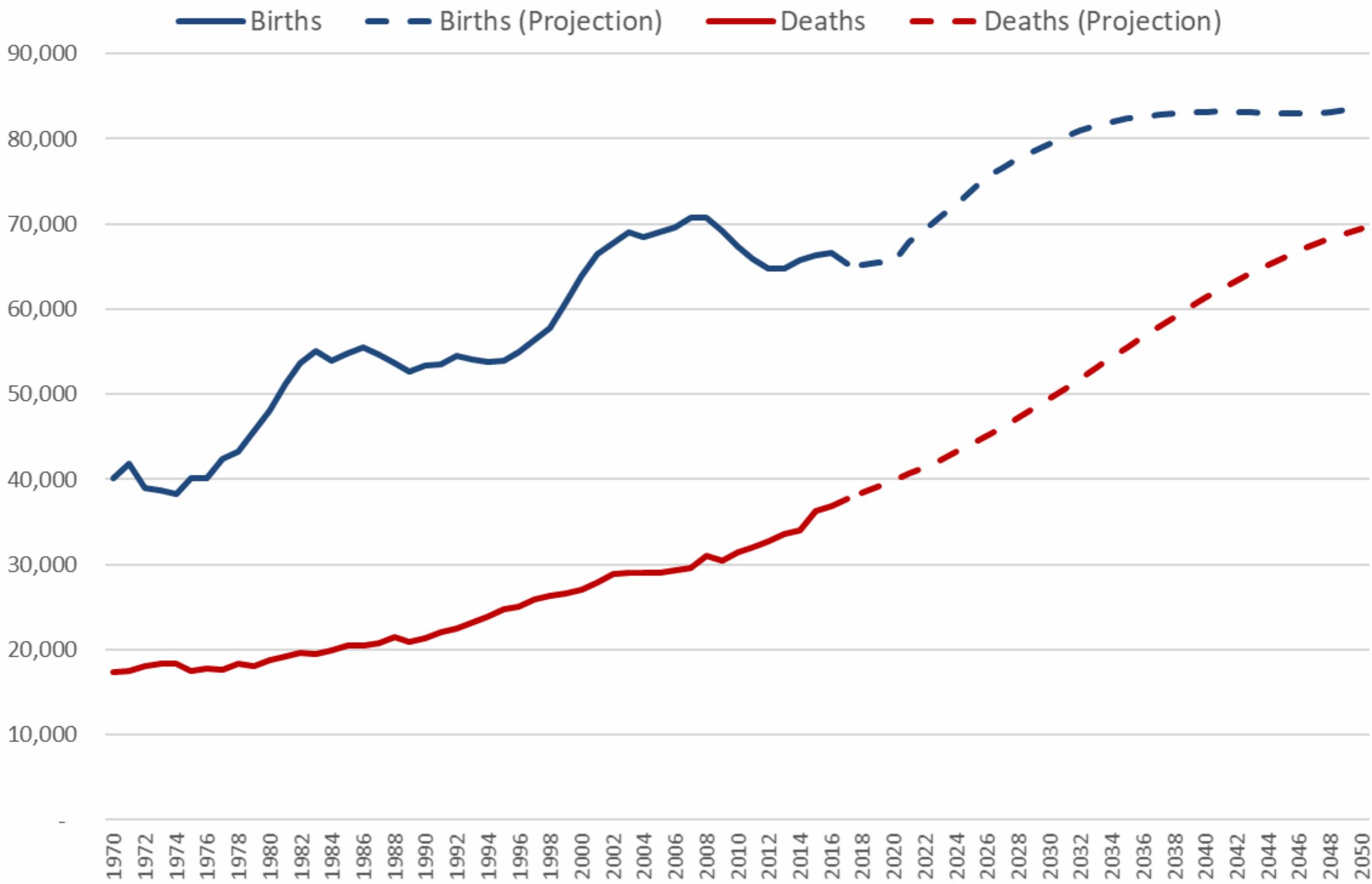
- Forecast revised upward due to stronger job forecasts.
- Currently youngest region in the state, is aging fastest.

### Southern Front Range

- Growth led by El Paso County.



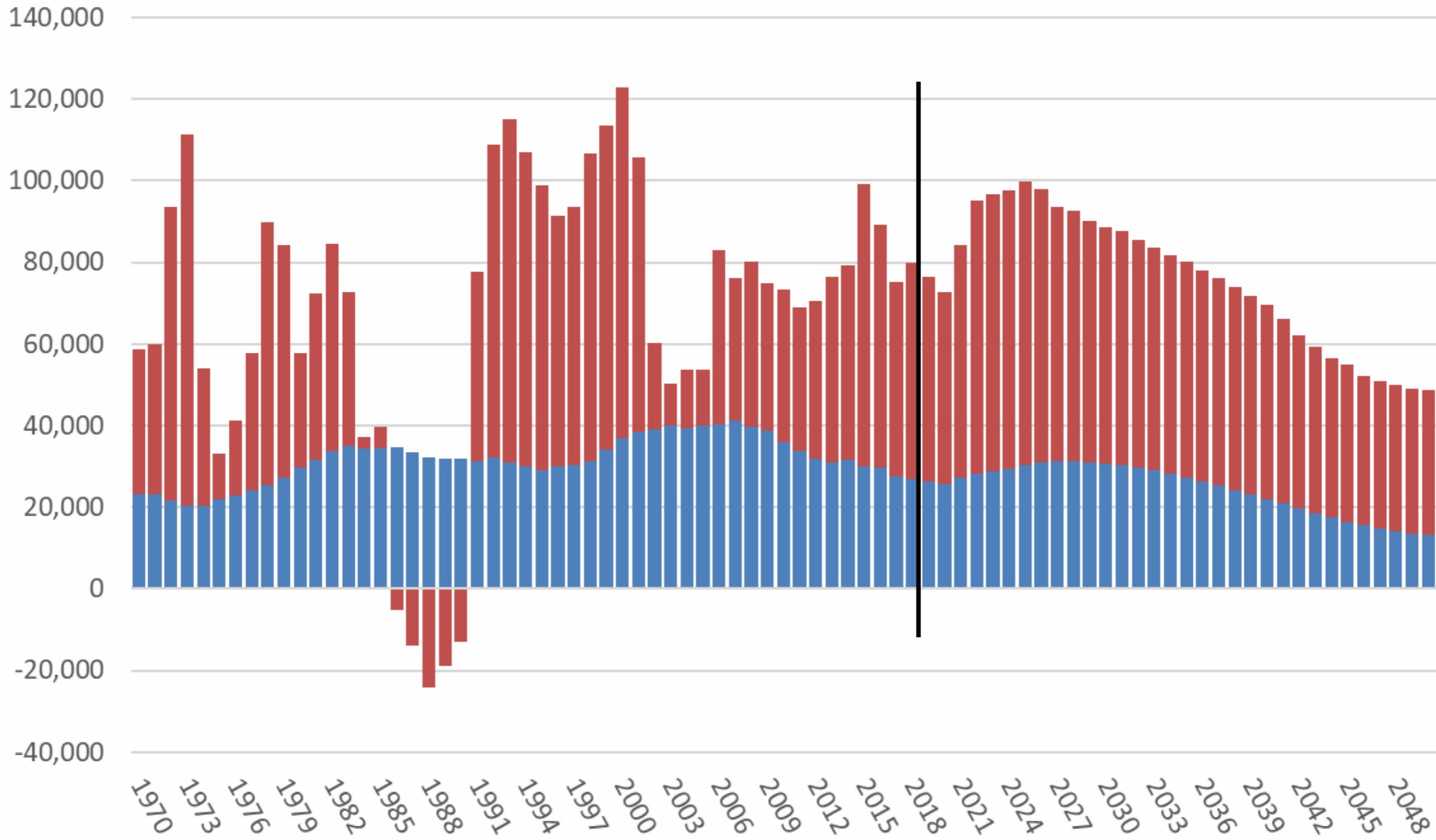
## Colorado Births and Deaths, 1970 to 2050



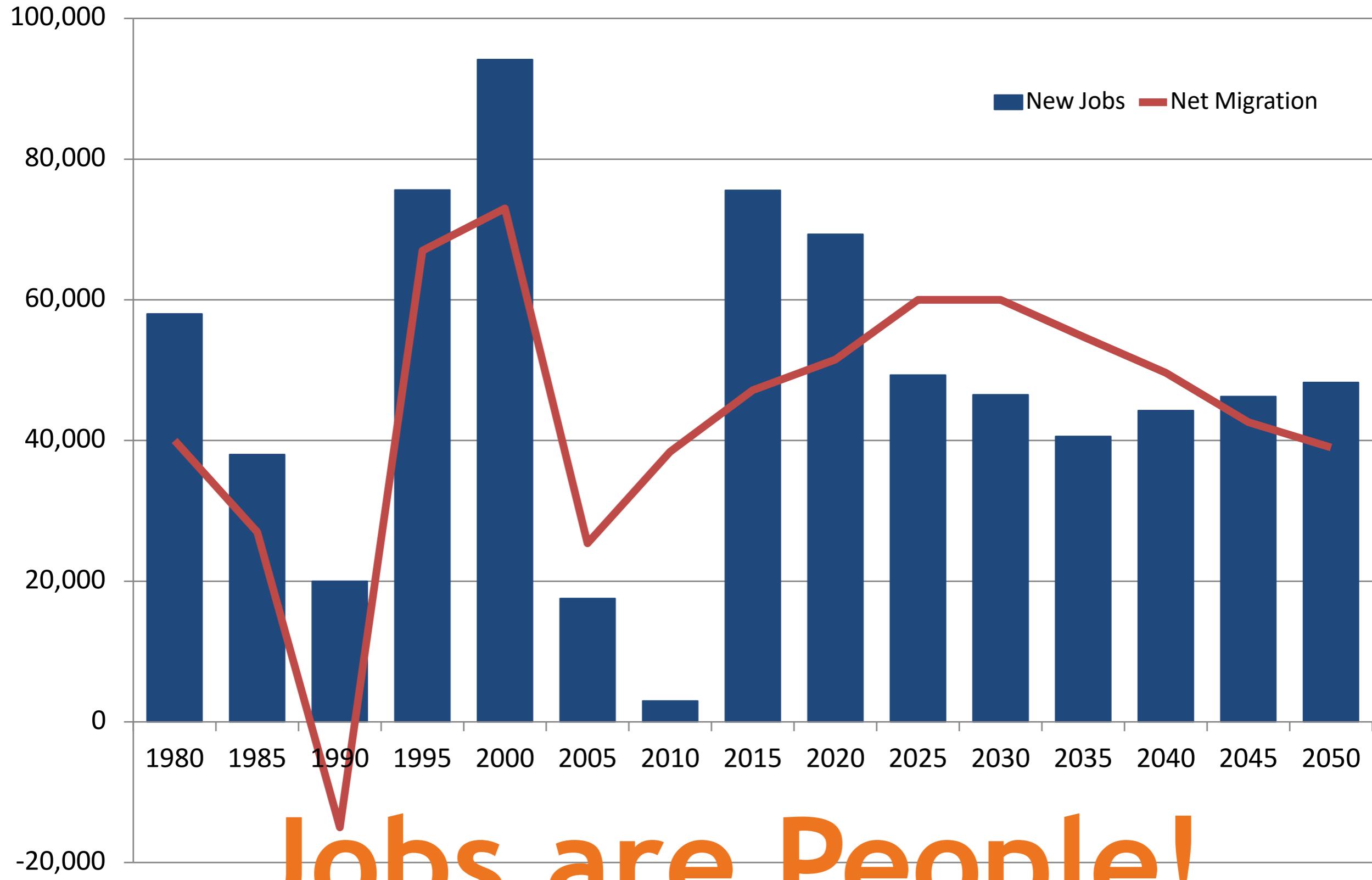
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# Colorado Population Change 1970-2050

■ Natural Increase (Births-Deaths) ■ Net Migration



# Colorado New Jobs and Net Migration



**Jobs are People!**



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State Demography Office v2017

# 2017 Job Estimates Highlights

Colorado is estimated to have 3,309,400 jobs

Total jobs consist of:

- 2,795,300 wage and salary (W&S) jobs
- 514,100 self-employed proprietor jobs.

The 2017 total jobs figure is an increase of 2.4%, or 77,600

– 3<sup>rd</sup> largest increase since 2001 ('15 = 97K & '14 = 94K)

Highest Job Total in Colorado History – 382k above '08

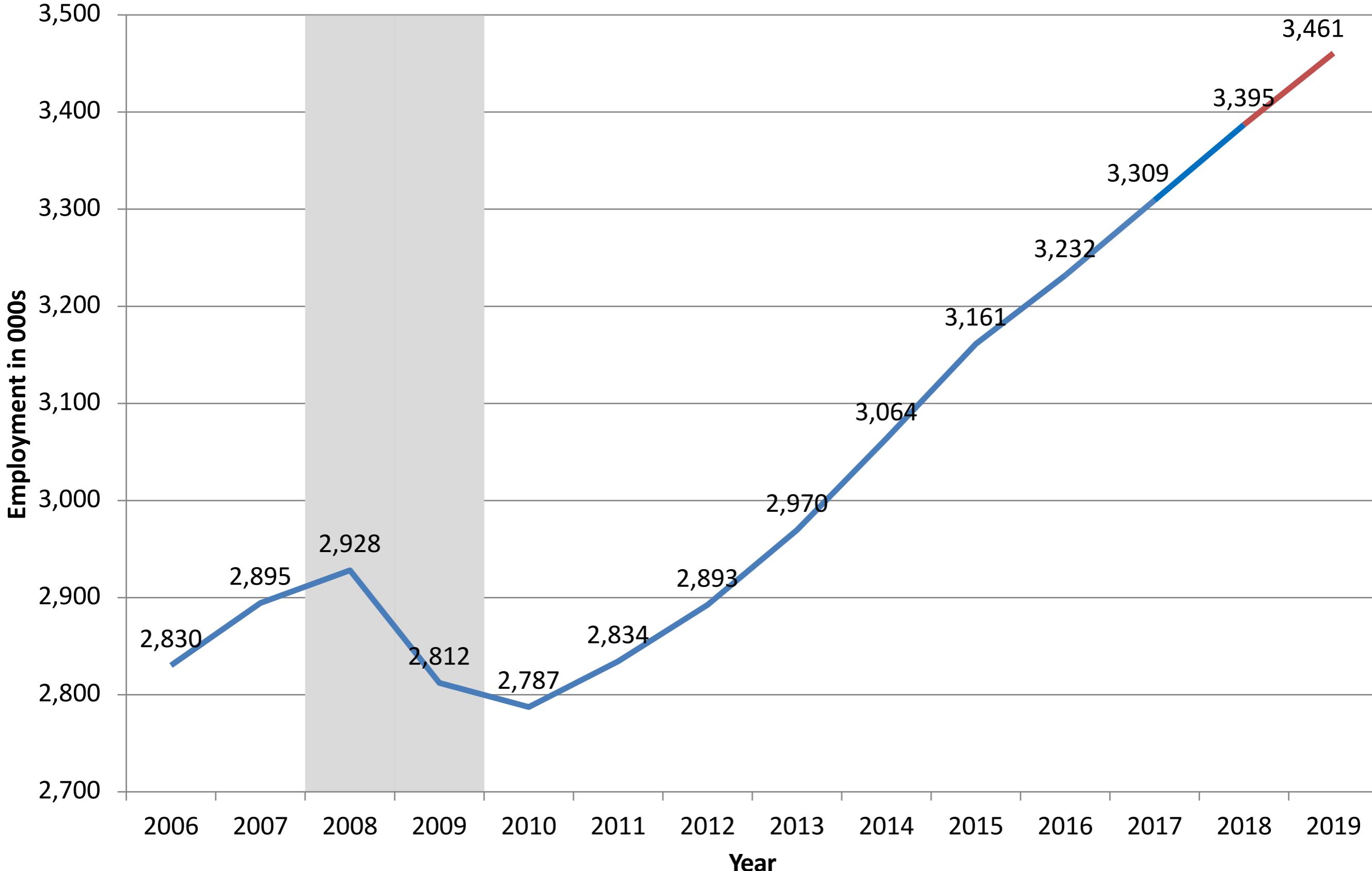
Most growth concentrated in Front Range and Mountain  
Resort counties

34 out of 64 counties have more jobs than before the  
Great Recession (2007 to 2009).

<https://demography.dola.colorado.gov/economy-labor-force/data/jobs-by-sector/#jobs-by-sector-naics>



# Colorado Total Estimated Jobs (2006-18 Actual, 2019 Forecast)



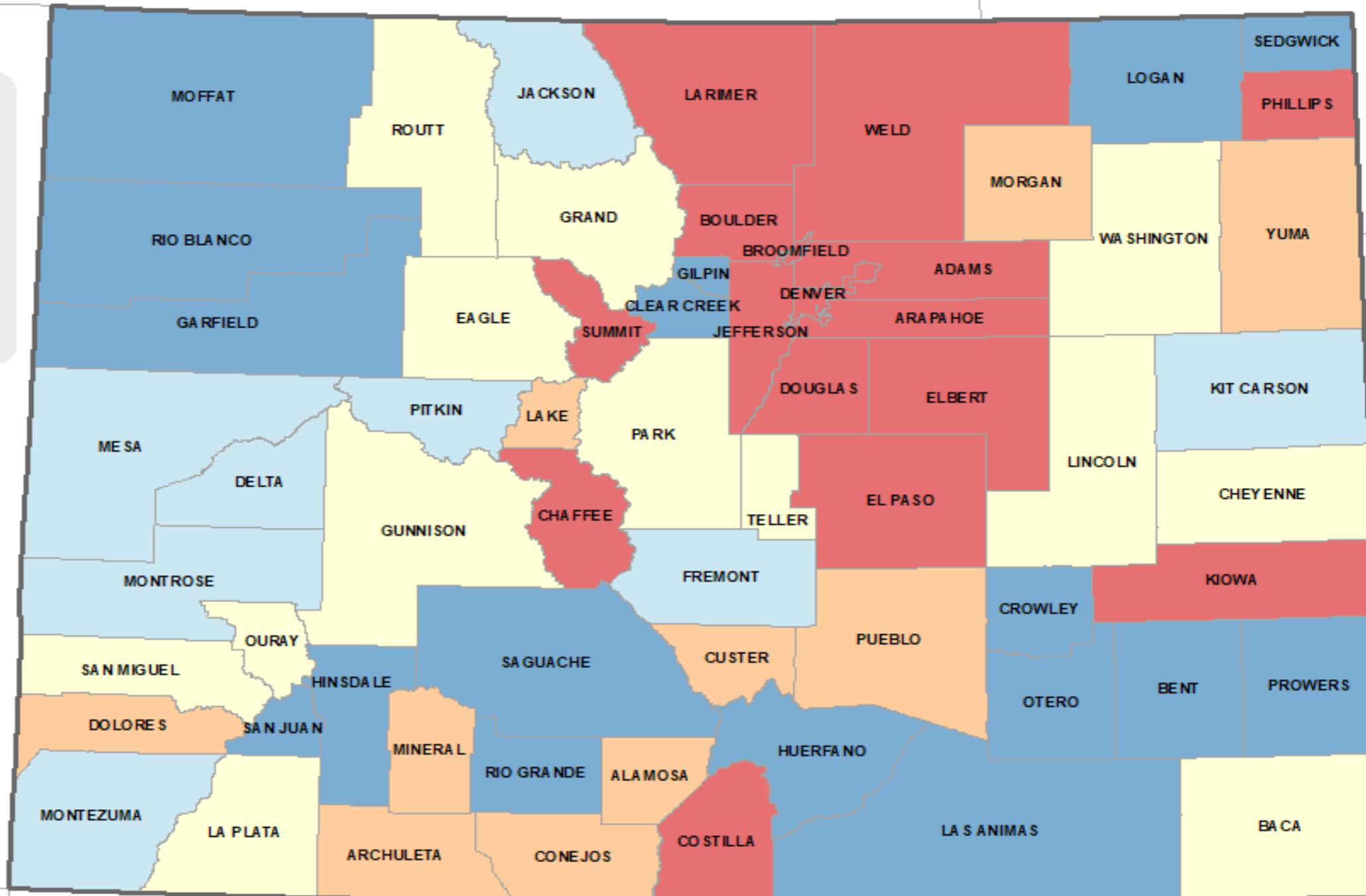
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# 2018 Jobs Relative to Pre-Recession Peak

Previous Peak: 2005-2009

## 2018 Jobs vs Pre-Recession Peak

- > 5% Fewer Jobs
- 0% to 5% Fewer Jobs
- 0% to 5% More Jobs
- 5% to 10% More Jobs
- > 10% More Jobs



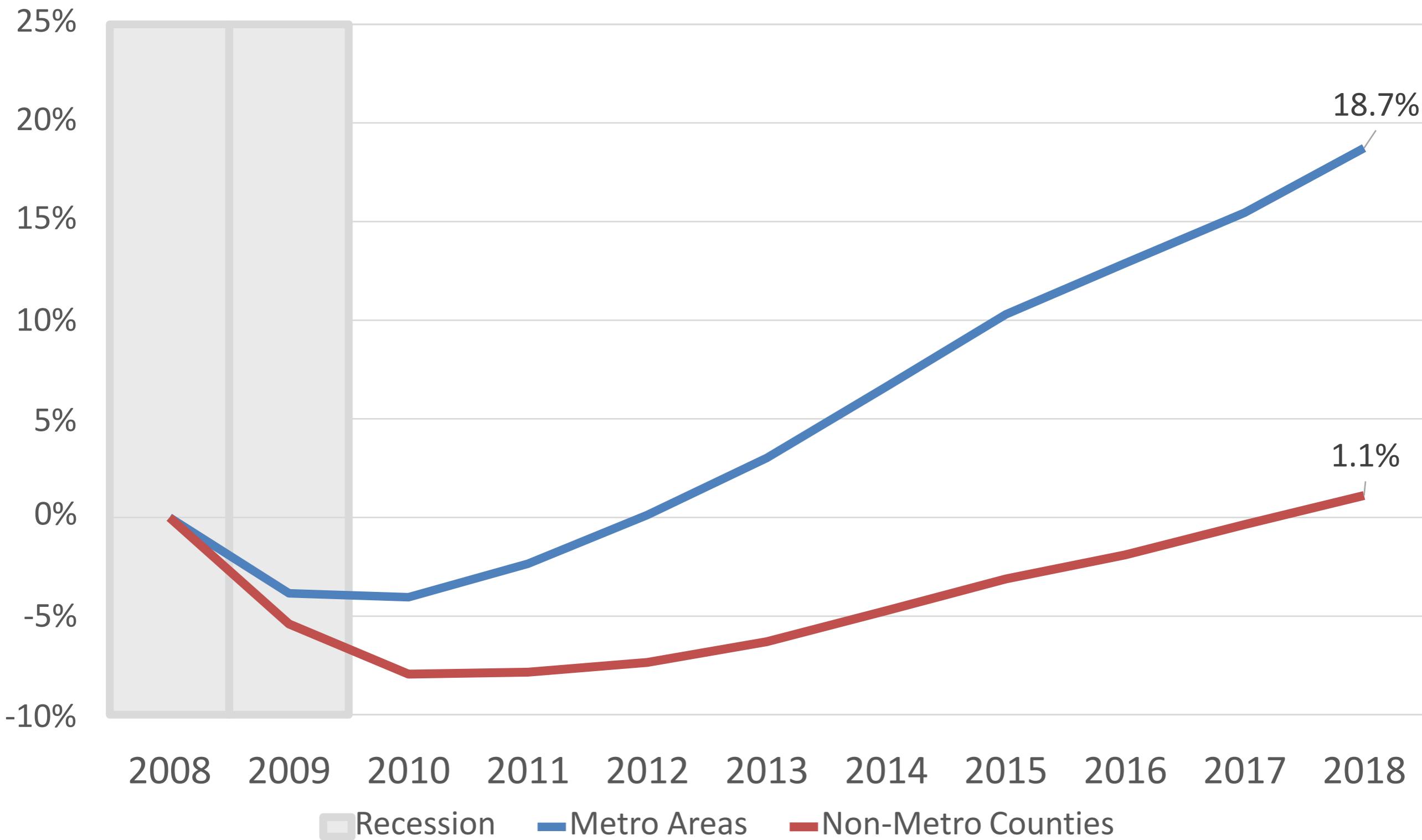
Colorado State Demography Office, 07/16/2019



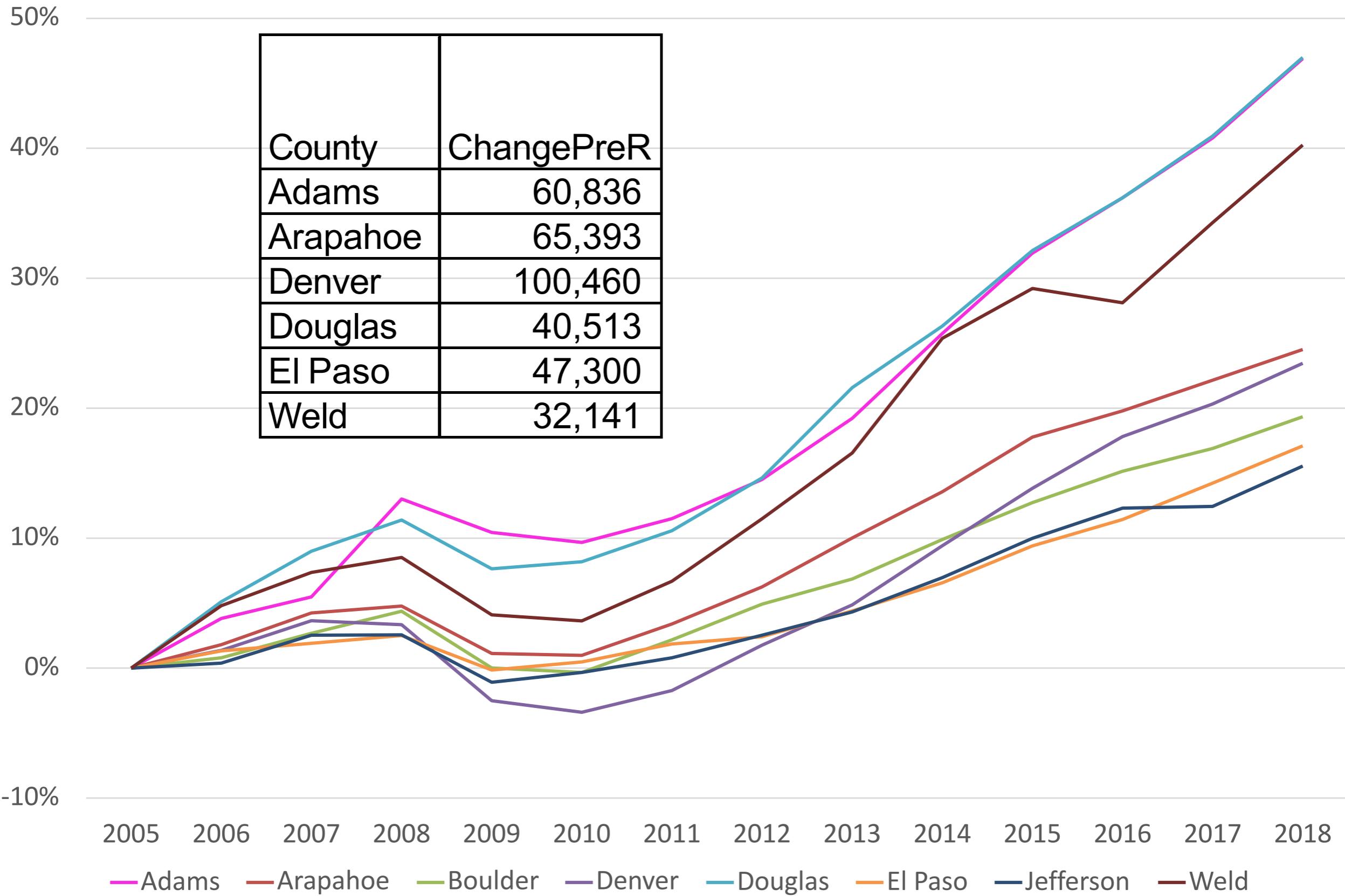
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# An Uneven Recovery - Colorado Metro Area vs. Non-Metro Area

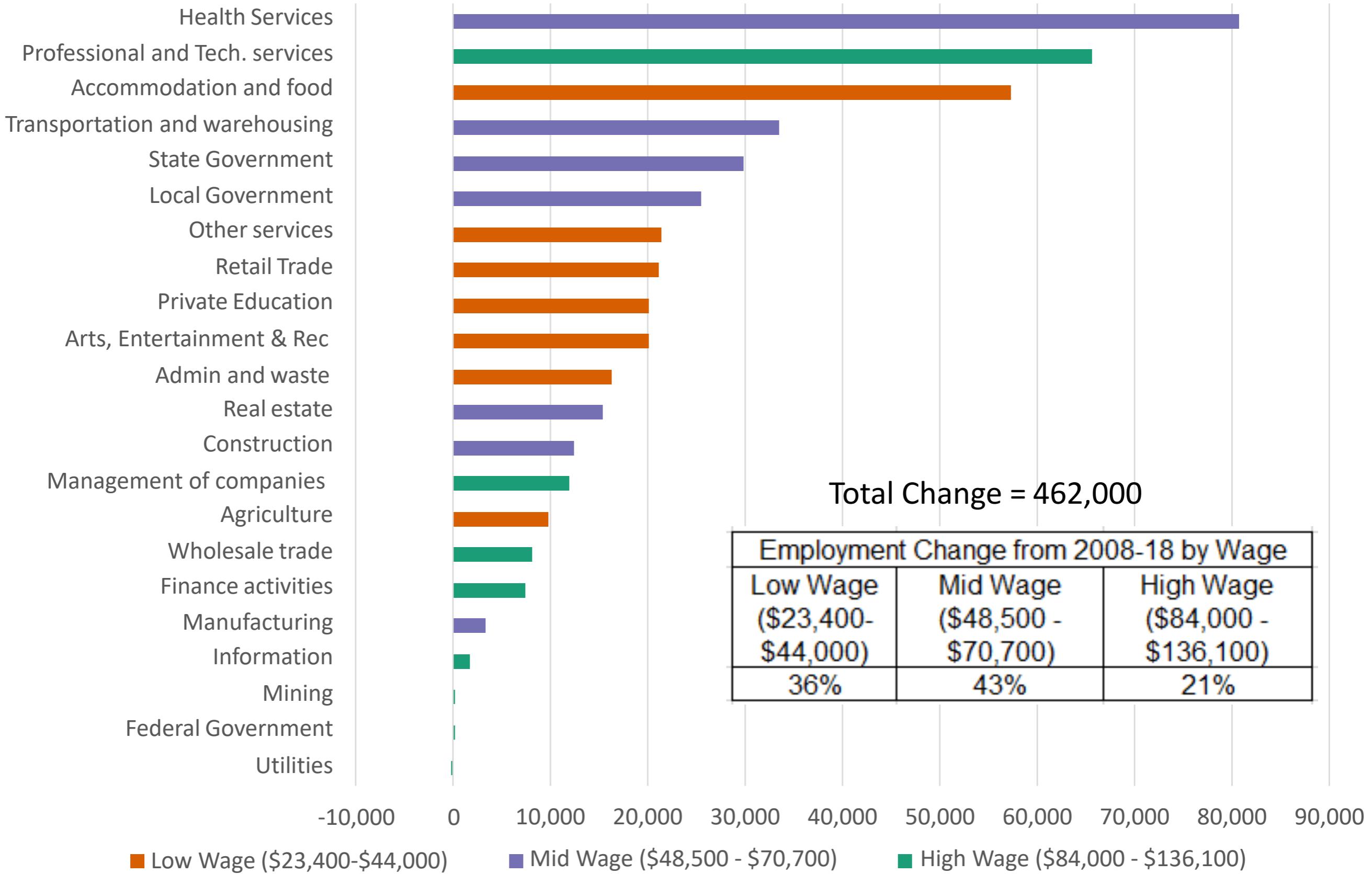
## Employment Change from 2008



## Employment Trend Indexed to 2005



# Colorado Employment Change from 2008 to 2018



# Rapid Aging

- Colorado's median age will increase by approx. 4 years to 41.2 by 2050.
- Currently very few people over the age of 65.
  - In 2010, Colorado had 4<sup>th</sup> lowest share in US (10%).
  - Today, 6<sup>th</sup> lowest (13.8%)
- Majority of change occurs between now and 2030
  - Baby Boomers, 1.3 million in Colorado
  - First turned 65 just after 2010
- Between 2010 and 2020, 155 Coloradans turning 65 daily.
- Senior Pop growing by ~ 37,000/year thru 2030

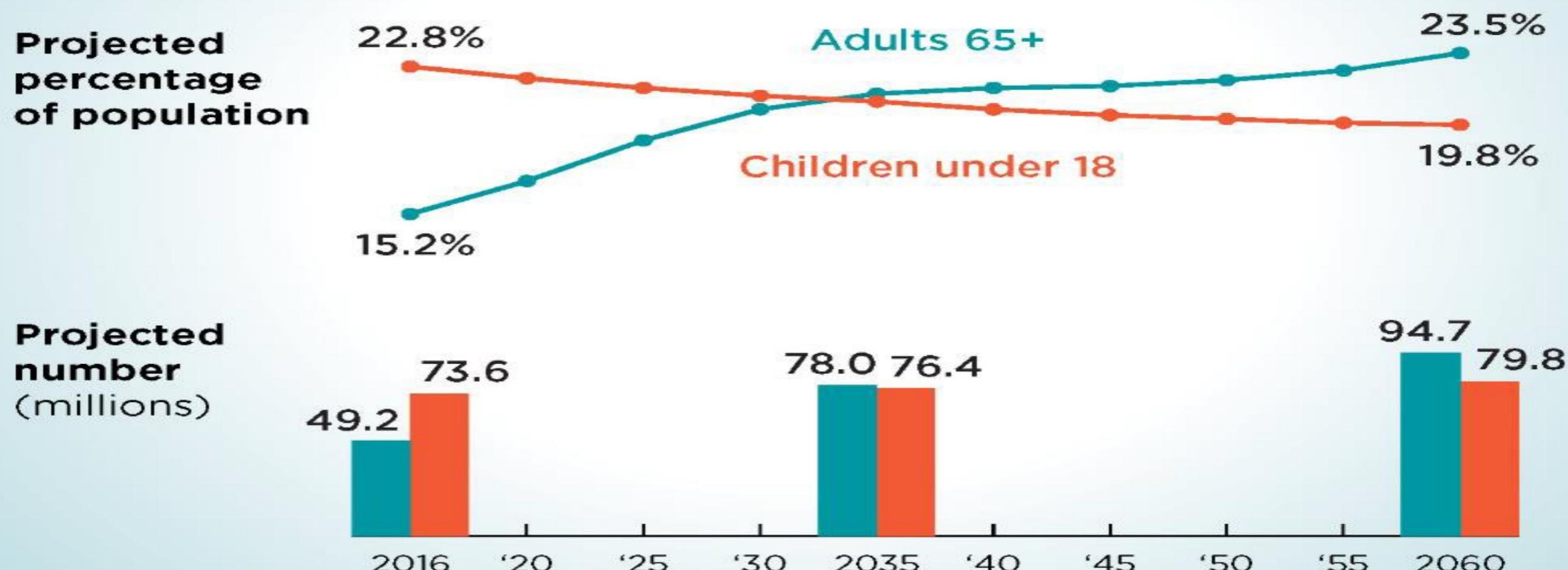




# An Aging Nation

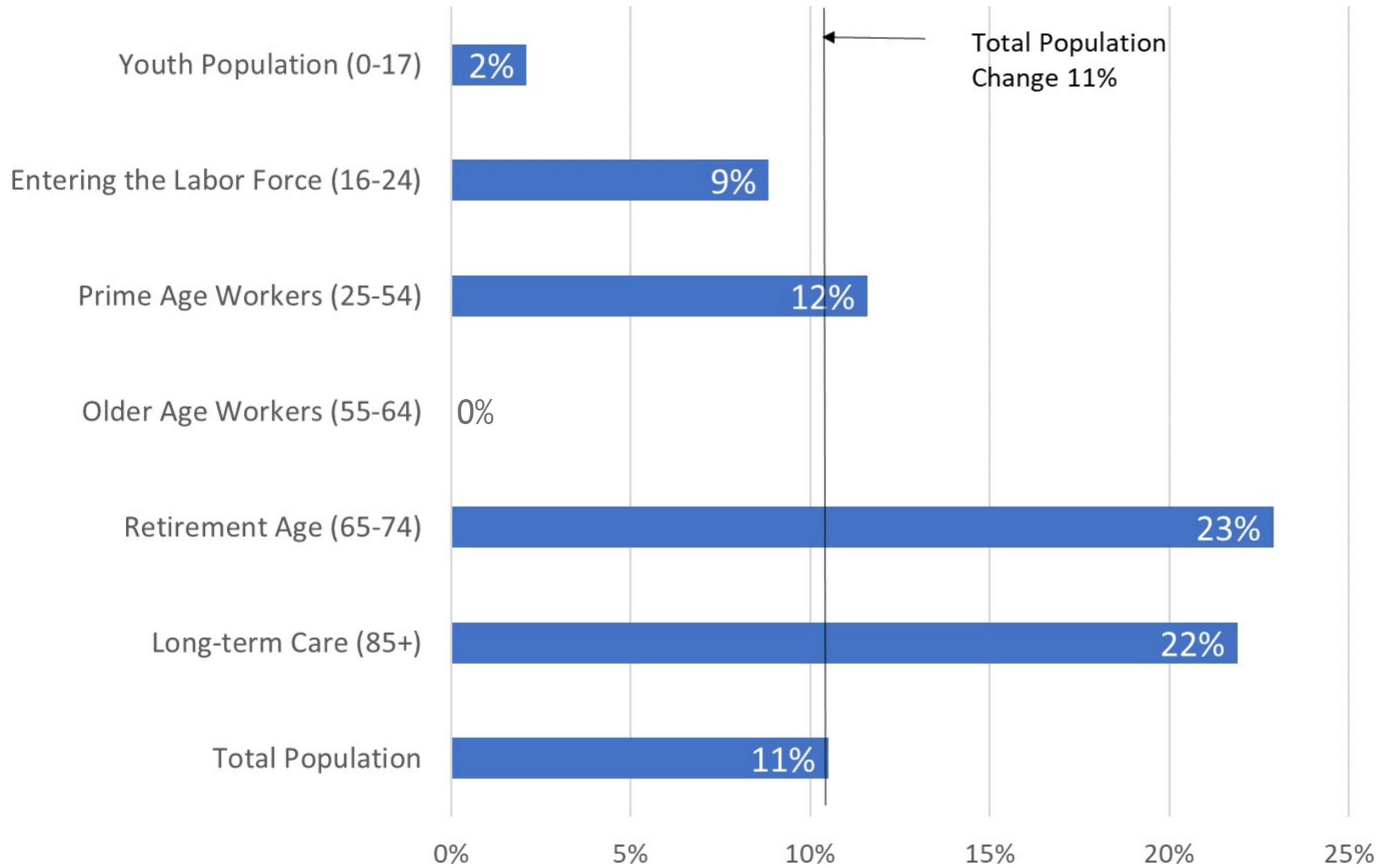
## Projected Number of Children and Older Adults

For the First Time in U.S. History Older Adults Are Projected to Outnumber Children by 2035

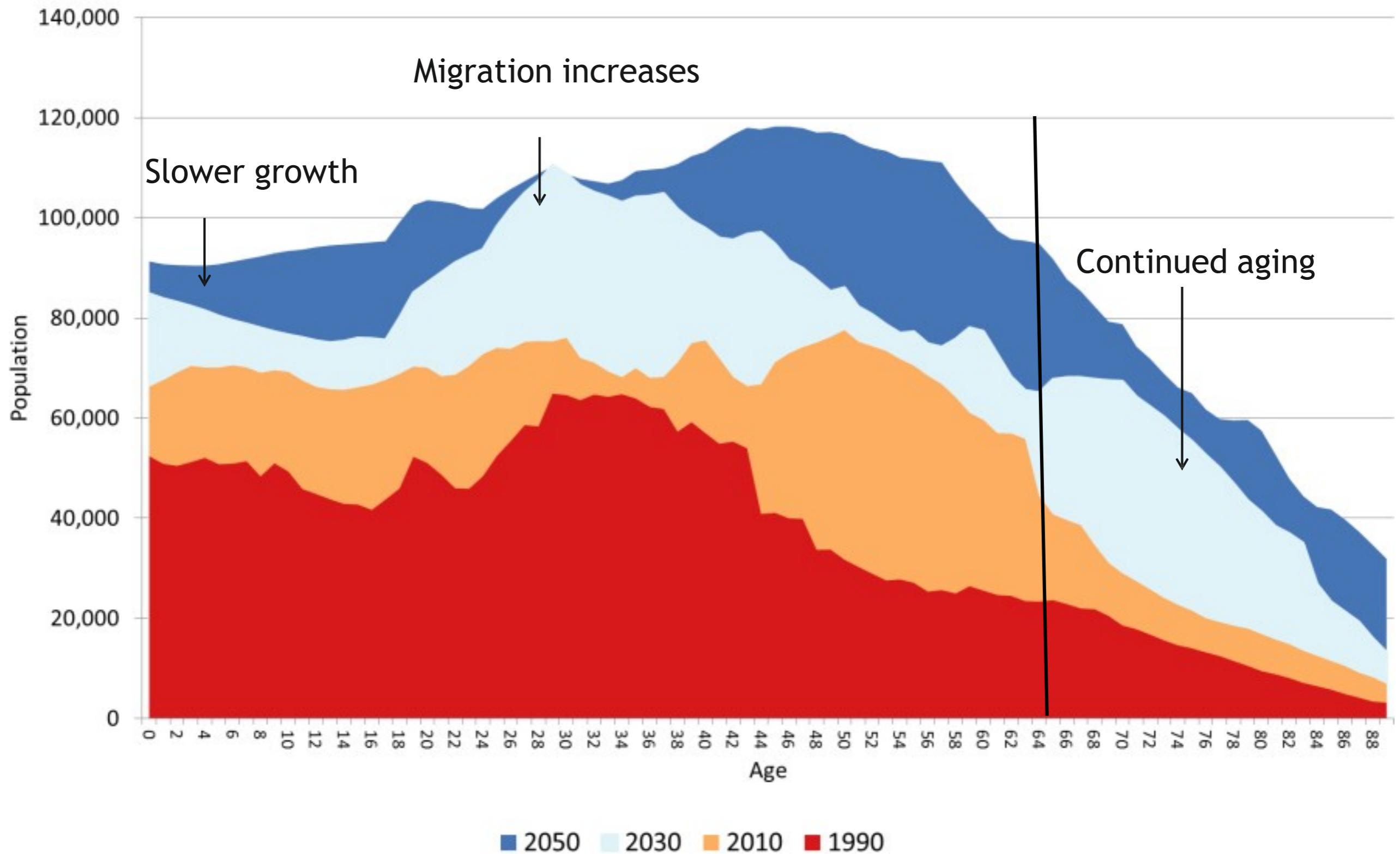


Note: 2016 data are estimates not projections.

## Projected Change in Specific Age Group Populations in Colorado, 2018 to 2025



## Colorado Population by Age 1990-2050



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# *Age Matters*

- Preferences - where people shop and what they buy.
- Housing - type, size, mobility
- Labor Force
- Income
- Service Demands



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# *Impacts of aging*

- Slower growth in the labor force
- Housing
  - Household type, size & mobility - single and smaller.
- Household income
  - Downward pressure on income, fewer earning
  - Occupational Mix - high and low wage service
- Public Finance
  - Downward pressure on income, sales, and property tax
- Disabilities and Transportation



# Preparing for Census 2020

## Its Important, Its Easy, Its Safe



Federal      State      Local      Community



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*April 1, 2020*

EVERYONE  
COUNTS Census  
2020

## It's Important

- Representation
- Distribution of Federal Funds - \$13 billion in Colo.
- Inform state and local decision-making

## It's Easy

- 10 questions, 10 minutes, online, phone, paper, in person

## It's Safe

- All respondent data and information is protected by law.

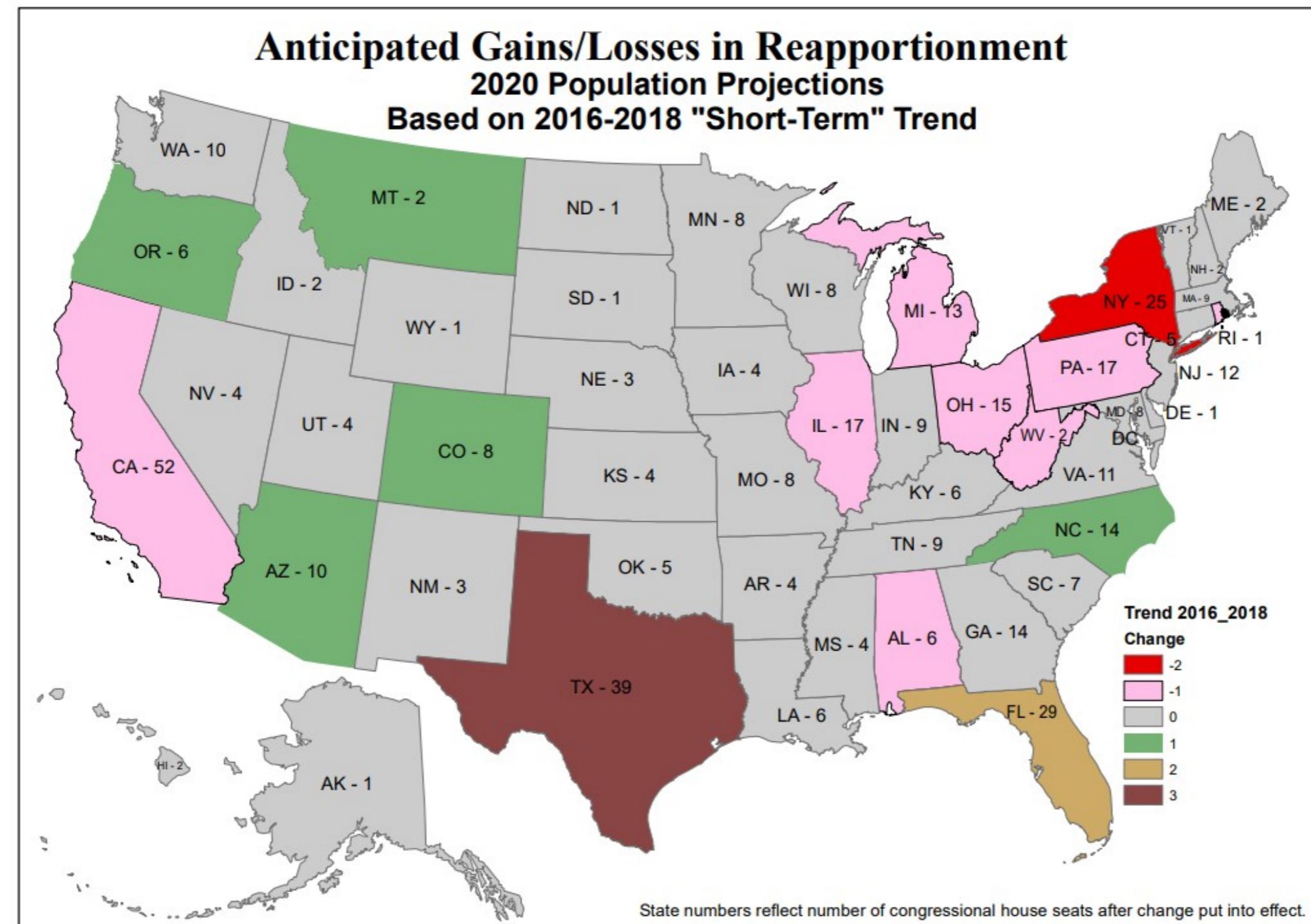


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[https://demography.dola.colorado.gov/census\\_2020/](https://demography.dola.colorado.gov/census_2020/)

# Reapportionment - Projection



Election Data Services

Based on Census Bureau estimates released 12/19/2018



**COLORADO** Source: Election Data Services Inc. December 19, 2018  
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# *Why is the Census 2020 important to Colorado and its Communities?*

\$900 billion in federal funding allocated nationally based on Census population counts

Estimated \$2,300 per person per year in Colorado or over \$13.1 billion

- Senior services (Medicare)
- Public libraries
- Health services (Medicaid)
- Community centers
- Road improvements
- Public Housing (Section 8)
- Title 1 Grants to Local Education Agencies
- Programs for Veterans
- Community colleges
- Tuition assistance
- Women, Infants & Children (WIC)
- Public Assistance (SNAP)
- School Lunch
- Health Centers



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[demography.dola.colorado.gov/census\\_2020/](http://demography.dola.colorado.gov/census_2020/)

# *It's Easy* 2020 Census Highlights

New methods of administering the Census.

Multiple collection formats

Online, Paper, Phone and In-Person Enumeration

Multiple Languages:

The online Census form and telephone assistance will be available in 13 languages

English, Spanish, Chinese, Vietnamese, Korean, Russian, Arabic, French, Tagalog, Polish, Haitian Creole, Portuguese and Japanese



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[https://www2.census.gov/programs-surveys/decennial/2020/program-management/memo-series/2020-memo-2018\\_06.pdf](https://www2.census.gov/programs-surveys/decennial/2020/program-management/memo-series/2020-memo-2018_06.pdf)

# Census 2020 Questions

10 questions directed to the householder and to each person living in a household.

- Name
- Phone Number – Just for Census use if necessary.
- Age
- Hispanic Origin
- Race
- Relationship to householder
- Sex
- Tenure – own/rent
- Number of persons in household
- Does the person usually stay or live somewhere else?



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<https://www2.census.gov/library/publications/decennial/2020/operations/planned-questions-2020-ac.pdf>

# Census Count Process

**Mid-March 2020 Mailings begin:**

Census Bureau sends letters to all addresses

Respondents in areas with low internet connectivity receive paper form along with login instructions

**April 1 2020 CENSUS DAY**

**Mid-April** Reminder postcards sent to non-respondents

**Early May** Non-Response Follow-Up begins

**August** Data Collection Ends

**December 31, 2020** Delivery of Reapportionment File to President



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# *It's Safe*

## *The Census is Confidential*

- Census will never share a respondents personal information with other government agencies
- Only summary data is released – no individual records
- Records are confidential for 72 years by law (Title 44, U.S. Code)
- All Census Bureau employees swear a lifetime oath to protect respondent information.
- Penalty for wrongful disclosure is up to 5 years imprisonment and/or a fine of \$250,000



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[https://www.census.gov/history/www/reference/privacy\\_confidentiality/title\\_13\\_us\\_code.html](https://www.census.gov/history/www/reference/privacy_confidentiality/title_13_us_code.html)

# Colorado Census 2020 Website

[Home](#) > Colorado Census 2020 Main



**EVERYONE  
COUNTS** Census 2020

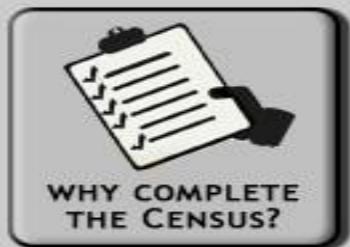
**Colorado Census 2020**  
It's Important. It's Easy. It's Safe.

Welcome to the Colorado Census 2020 Homepage  
Census Day is April 1, 2020.

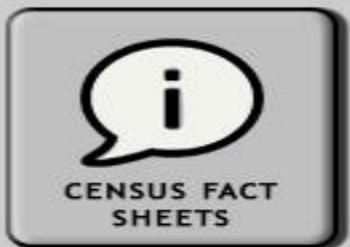
Recent updates: 8/6/2019 [Census FAQ: Address Canvassing](#)  
8/19/2019 [Census Jobs Resources for Communities](#)



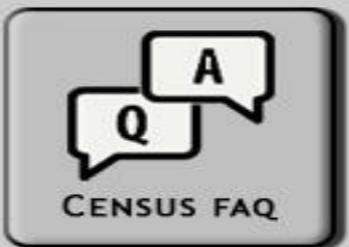
CENSUS 2020  
OUTREACH GRANT  
PROGRAM



WHY COMPLETE  
THE CENSUS?



CENSUS FACT  
SHEETS



CENSUS FAQ



CENSUS JOBS



COLORADO 2020  
CENSUS SUPPORT  
PROGRAM



CENSUS  
NEWS



COMPLETE COUNT  
COMMITTEE



RESOURCES FOR  
COMMUNITIES



CENSUS DATA  
TOOLS



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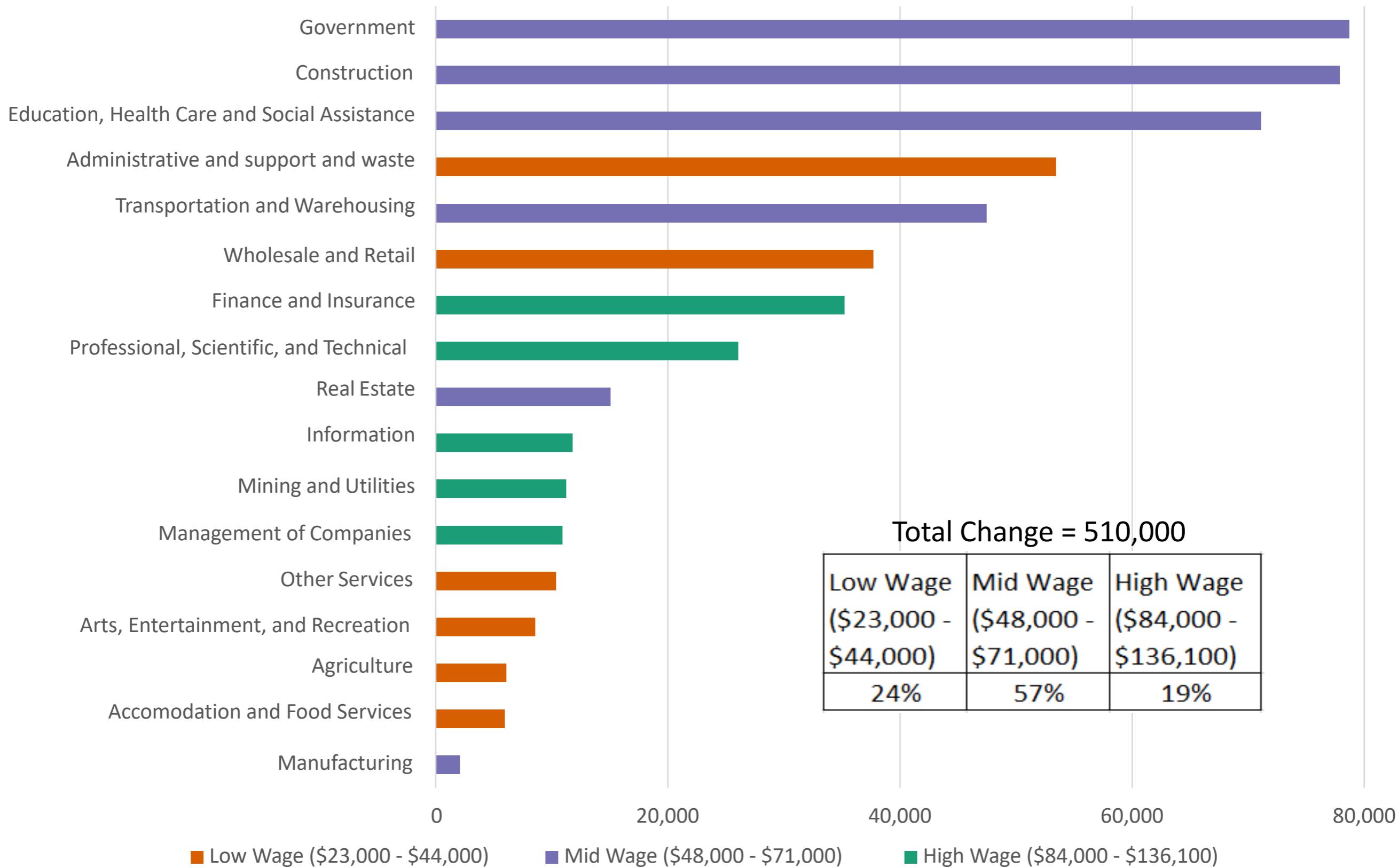
[demography.dola.colorado.gov/census\\_2020/](http://demography.dola.colorado.gov/census_2020/)

# *Job & Population Forecast*

- Employment growth of **1 million** jobs expected over next 20 years
- 660K gain in Local Resident Service Jobs
- Slower job growth after 2020 as need for replacement workers grows due to Baby Boomers retiring.
- Population growth of **2.4 million** over next 3 decades - with 83% (2 million) expected in the Front Range
- Aging - will lead to 1.2 million Coloradans aged 65+ by 2030 (up from 800K in 2018)

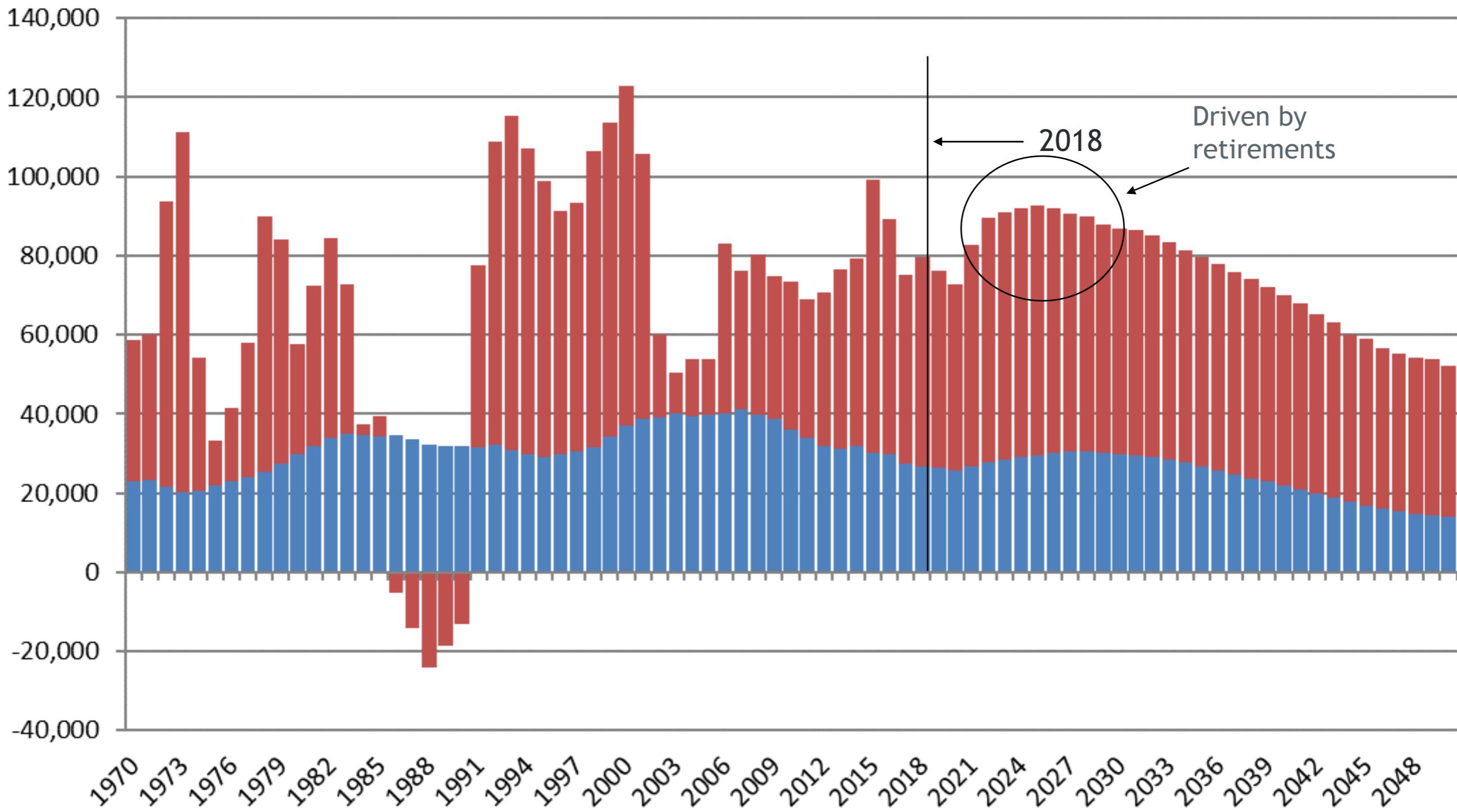


## Colorado Projected Employment Change from 2018 to 2028

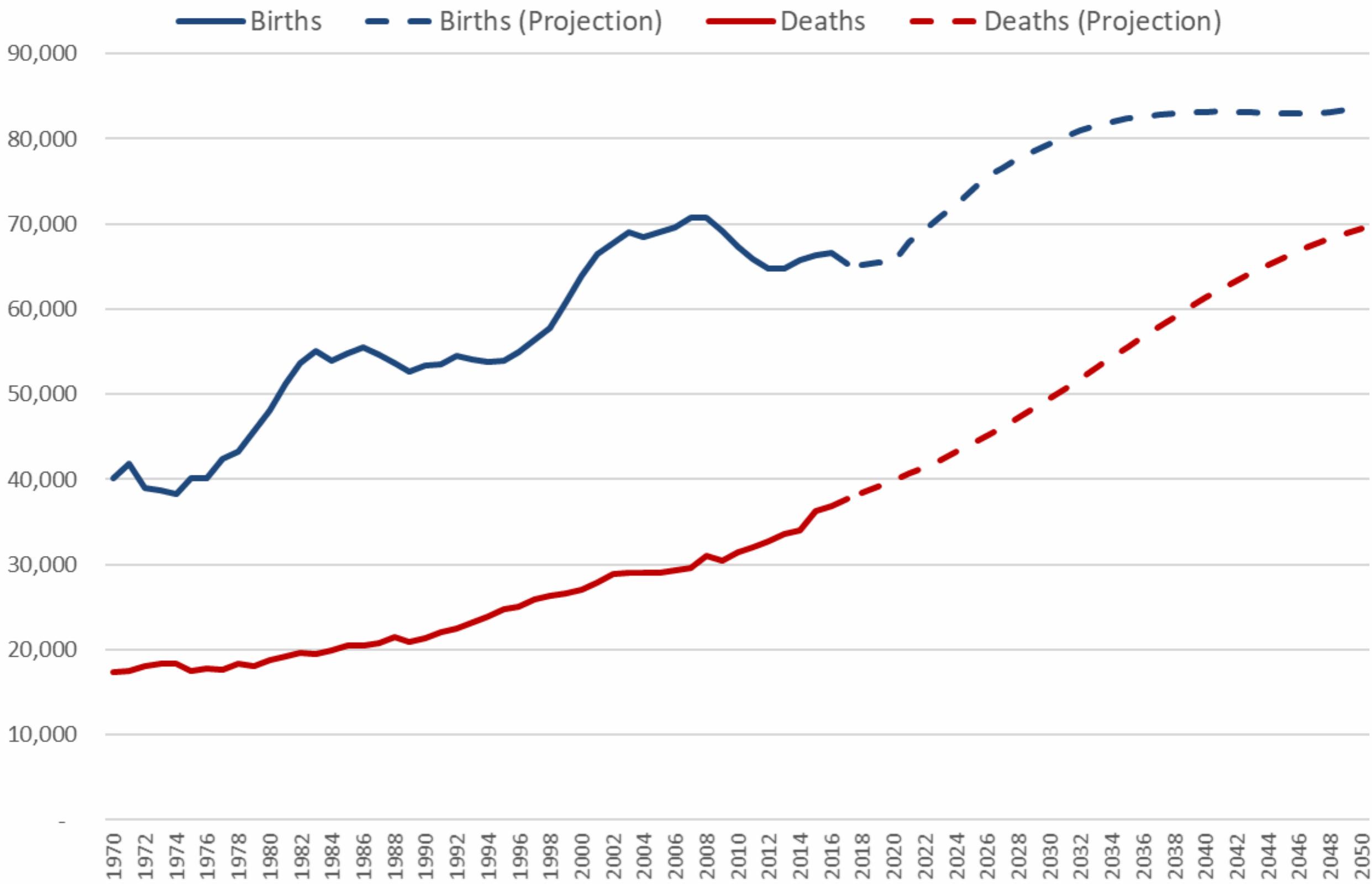


# Colorado Population Change 1970-2050

■ Natural Increase (Births - Deaths) ■ Net Migration

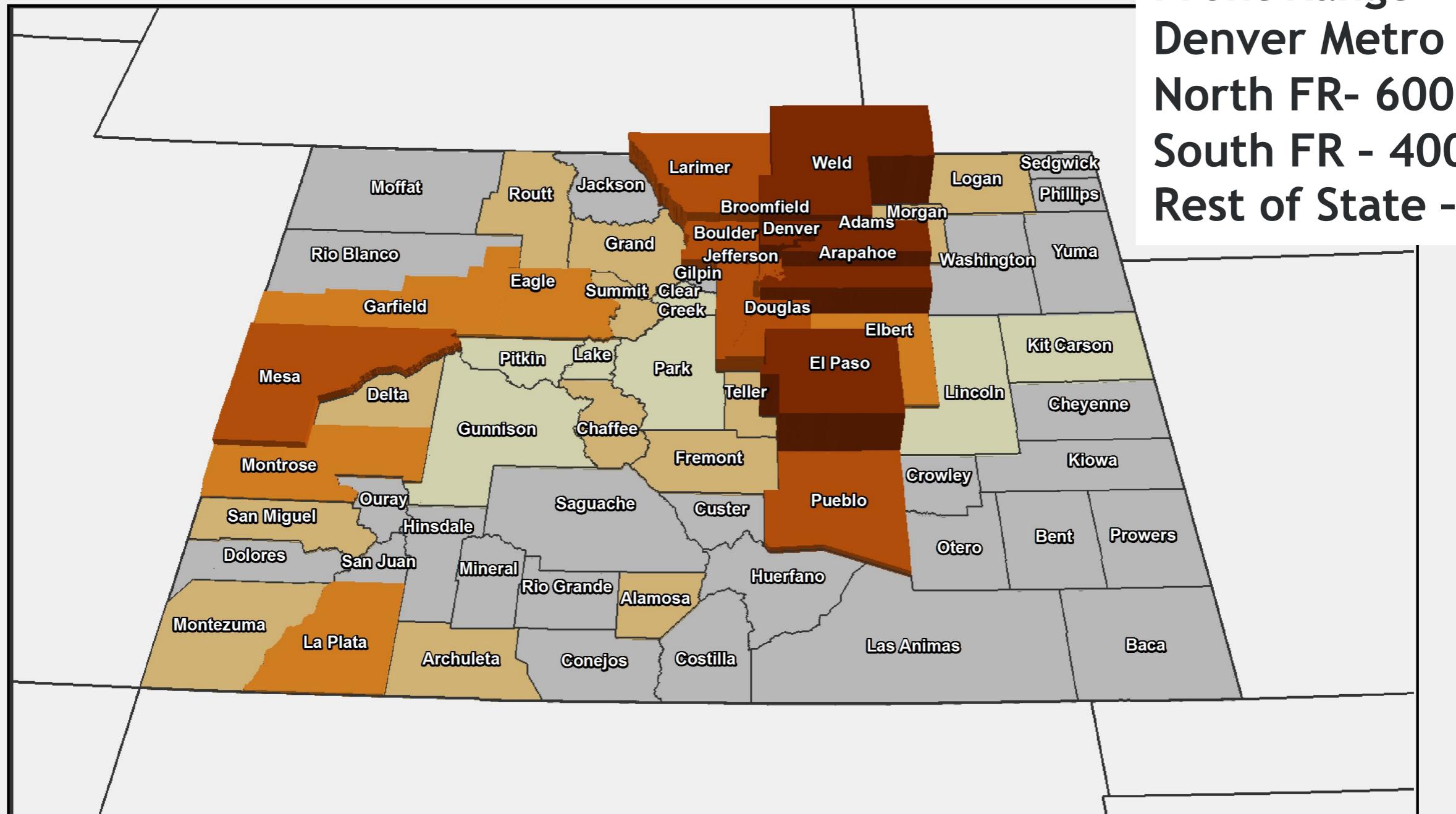


## Colorado Births and Deaths, 1970 to 2050



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**State - 2.4 million**  
**Front Range - 2M**  
**Denver Metro - 1M**  
**North FR- 600K**  
**South FR - 400K**  
**Rest of State - 400K**



## Projected Population Change 2018 to 2050

Colorado State Demography Office, 11/2/2018

< 1,000
1,001 to 5,000
5,001 to 20,000
20,001 to 50,000
50,001 to 200,000
> 200,000



# *Risks to the Forecast +/-*

- Housing - supply, price, type, location - 5<sup>th</sup> highest MHV
- National Growth - National Policies - Intl' immigration
- Water
- Infrastructure/Transportation
- State Budget/Policy
- Aging - labor force, prepared labor force
- Industry changes - boom/bust, competitiveness, automation
- Natural disasters - nationally

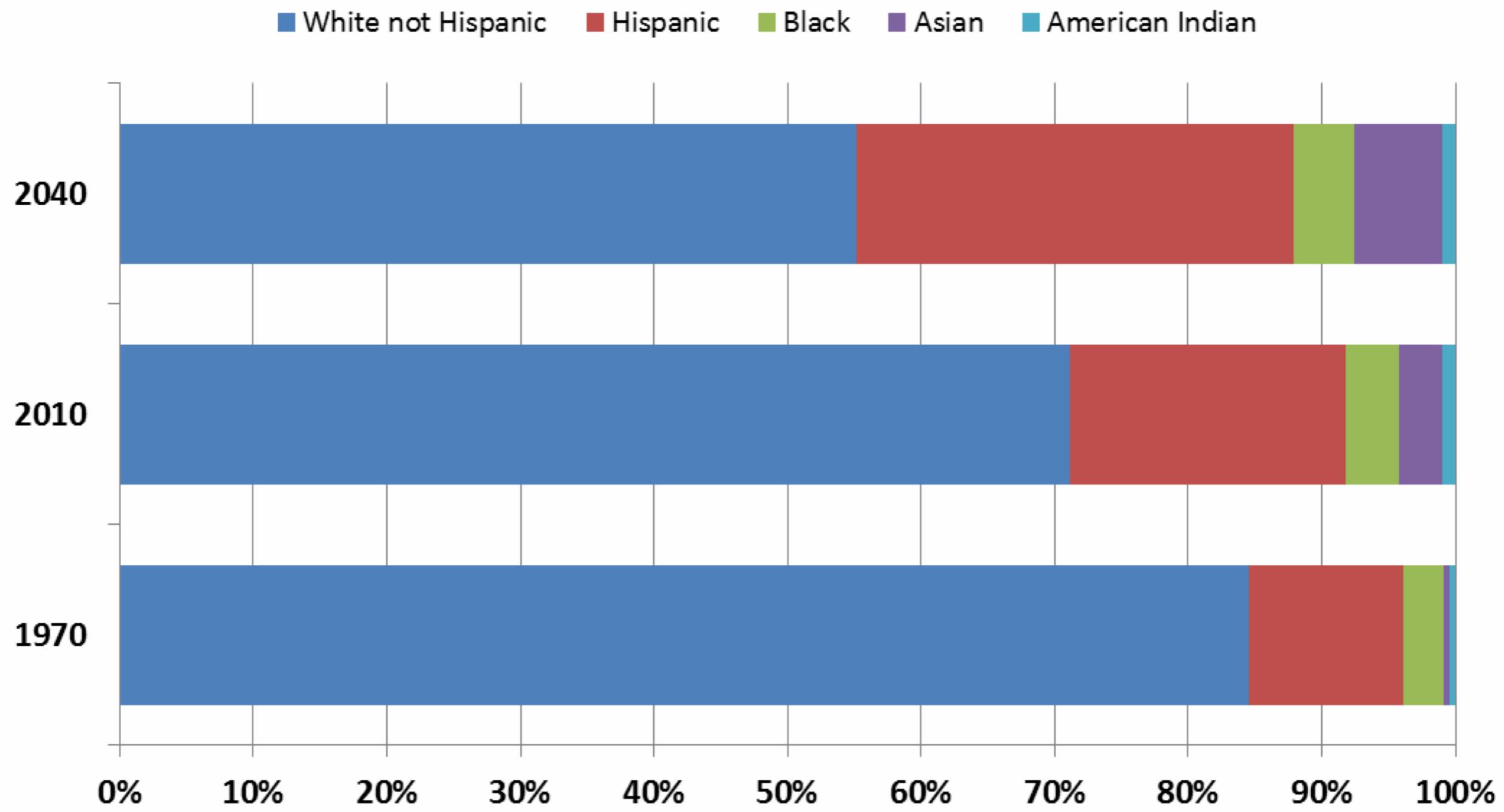


# Ethnicity/Race increasing



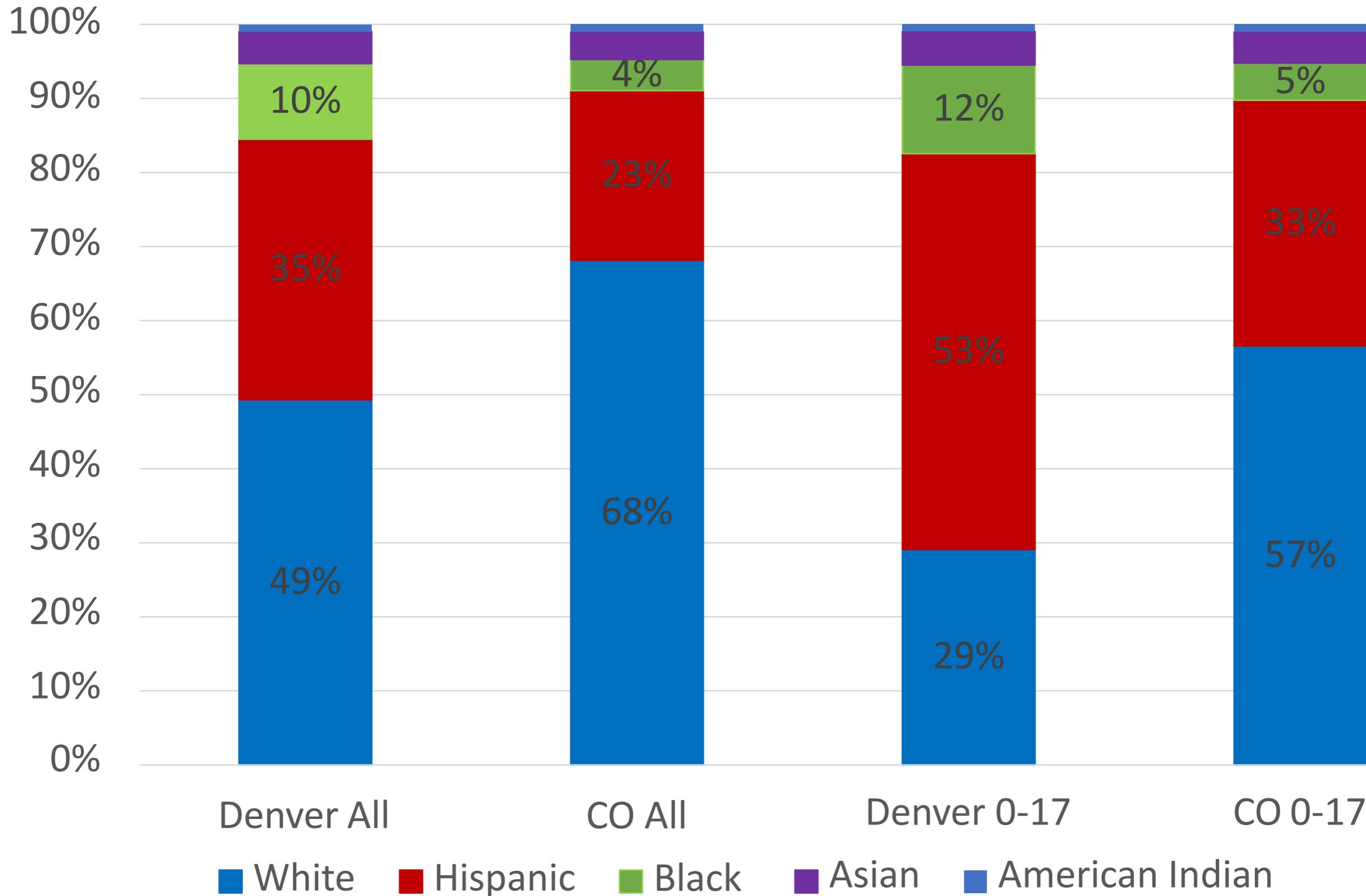
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# Colorado Population by Race/Ethnicity



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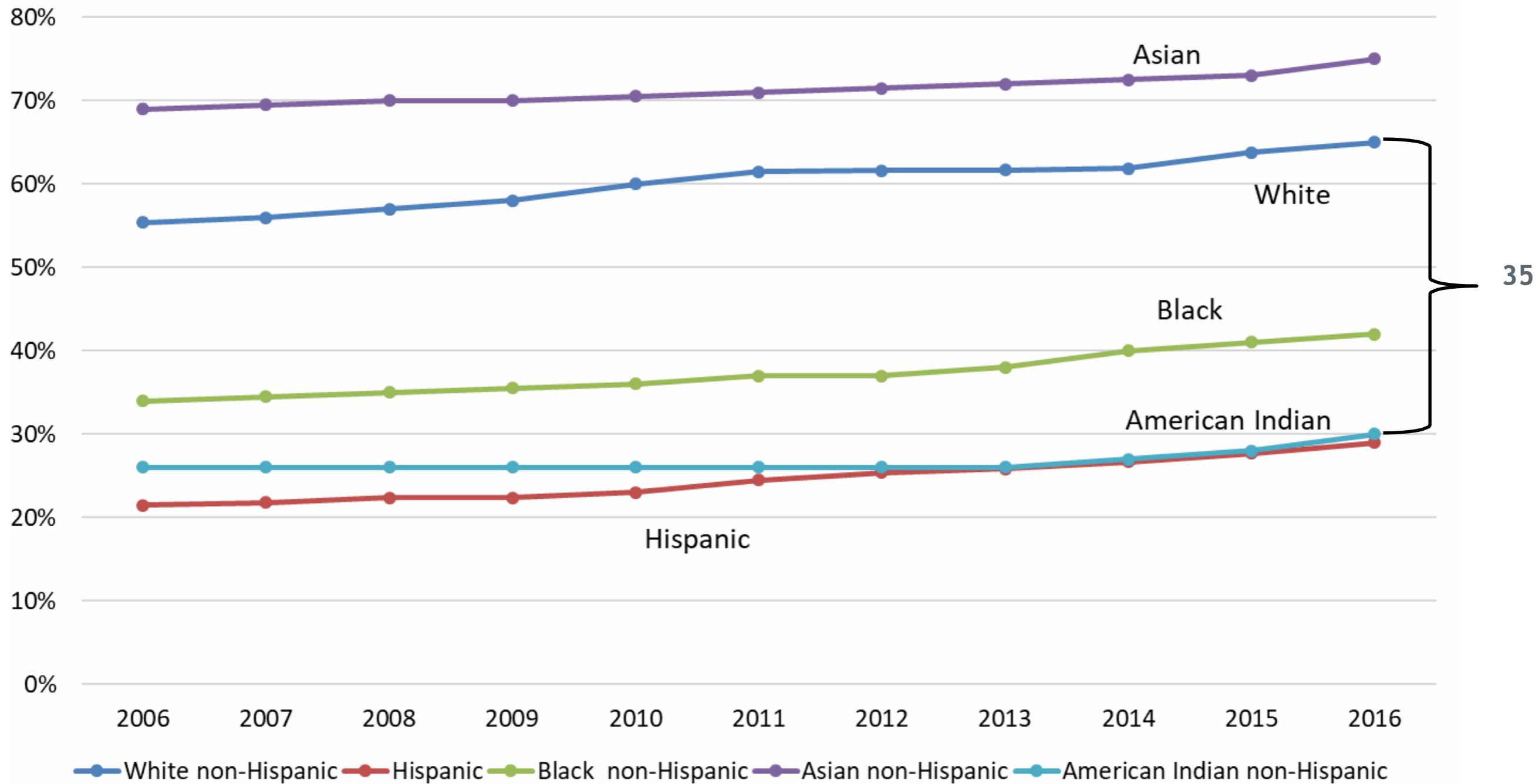
# 2017 CO vs. Denver Population by Race/Ethnicity



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SDO Race/Ethnicity Estimates

## Share of Colorado Population Ages 25 to 34 with Associate's Degree or Above by Race and Ethnicity



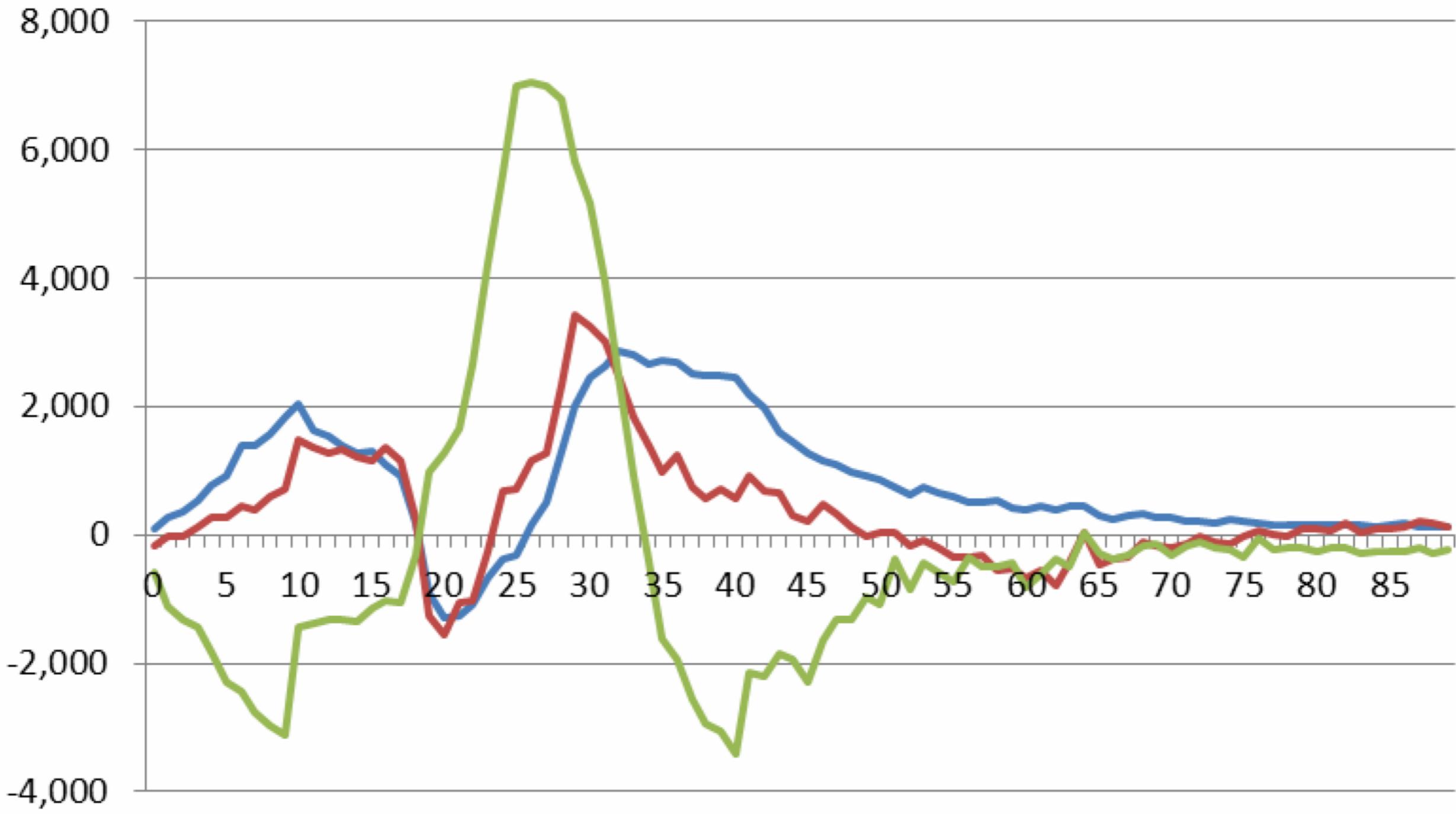
# Metro Denver



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# Migration by Age 2000-10

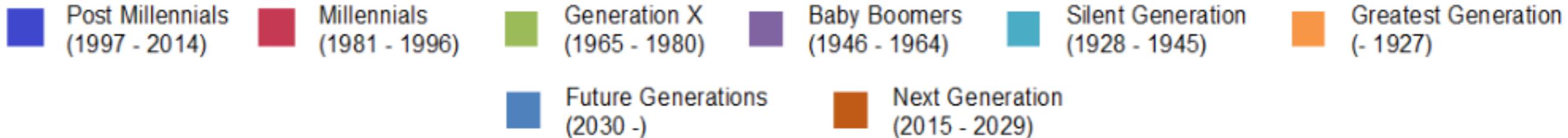
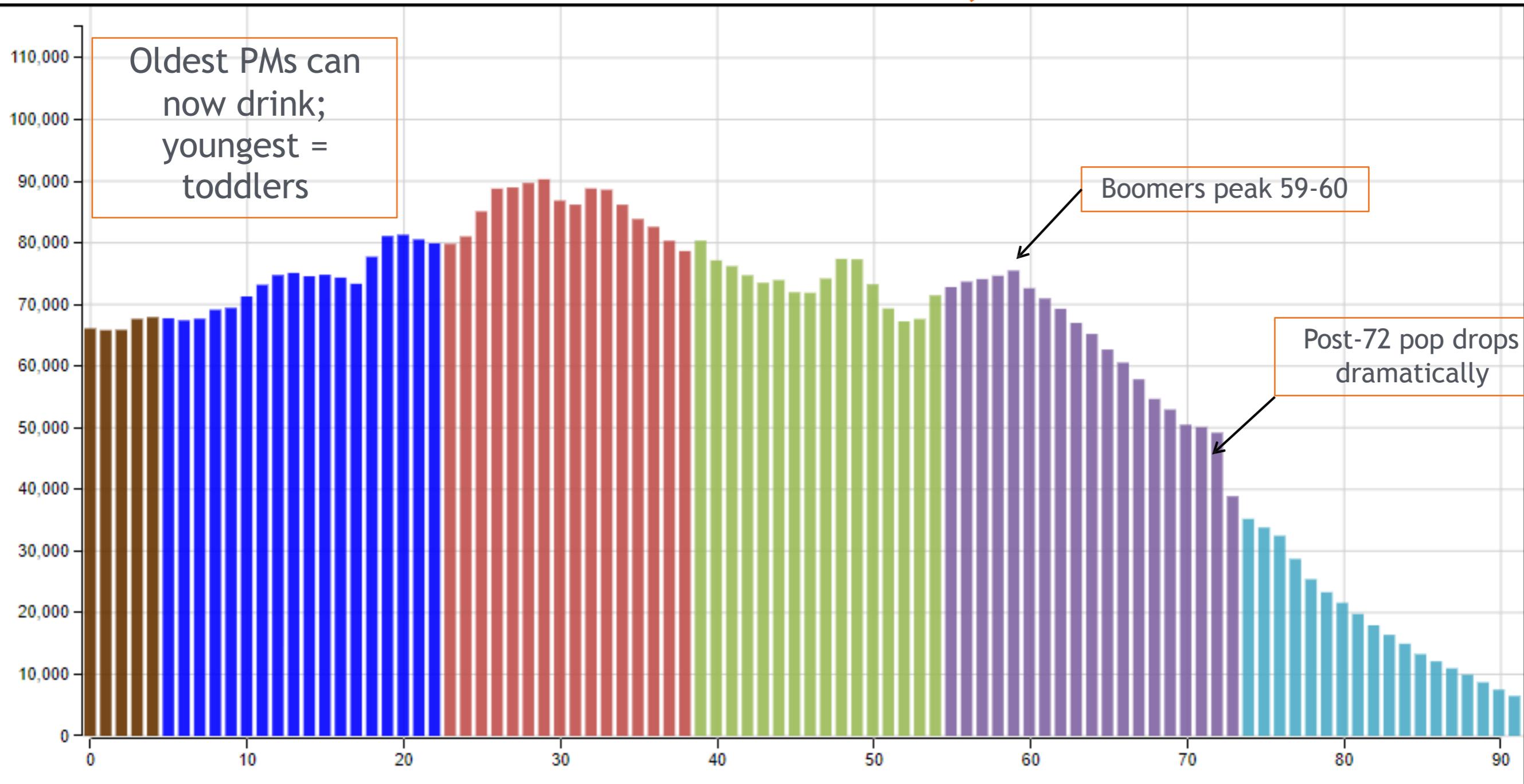
Douglas Arapahoe Denver



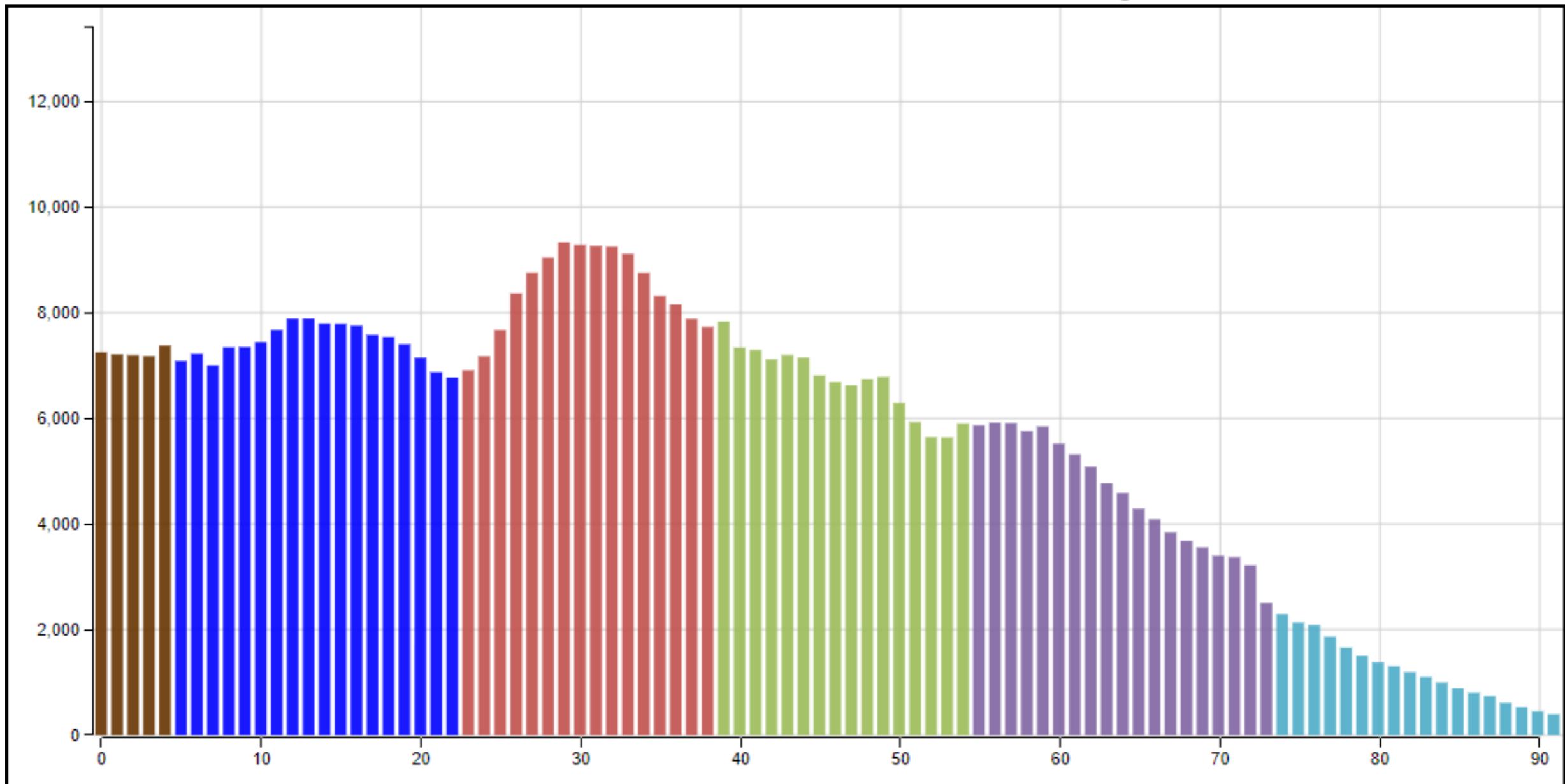
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Source: State Demography Office

# COLORADO BY GENERATION, 2019



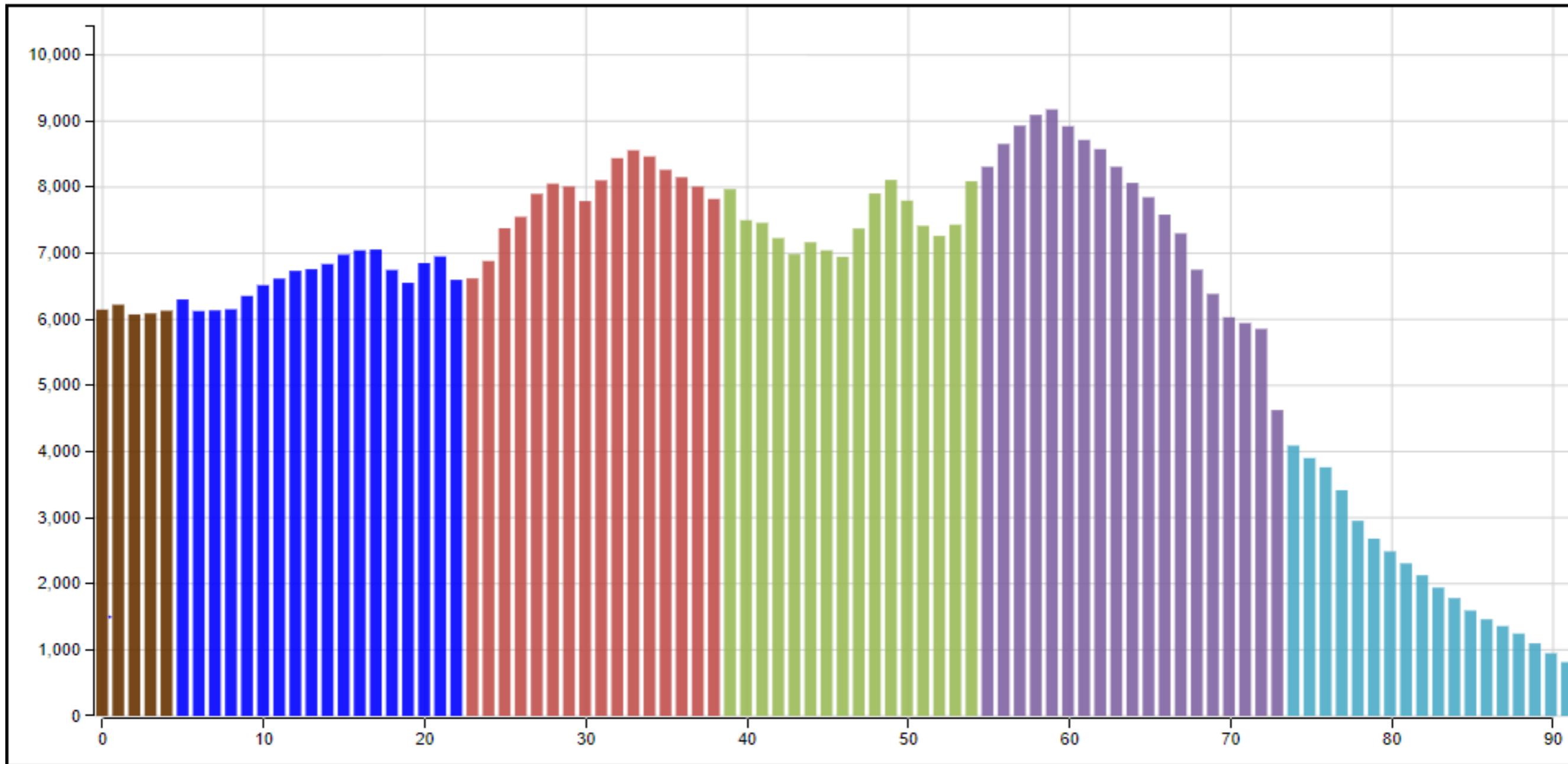
# ADAMS COUNTY BY GENERATION, 2019



- █ Post Millennials (1997 - 2014)
- █ Millennials (1981 - 1996)
- █ Generation X (1965 - 1980)
- █ Baby Boomers (1946 - 1964)
- █ Silent Generation (1928 - 1945)
- █ Greatest Generation (- 1927)
- 
- █ Future Generations (2030 -)
- █ Next Generation (2015 - 2029)

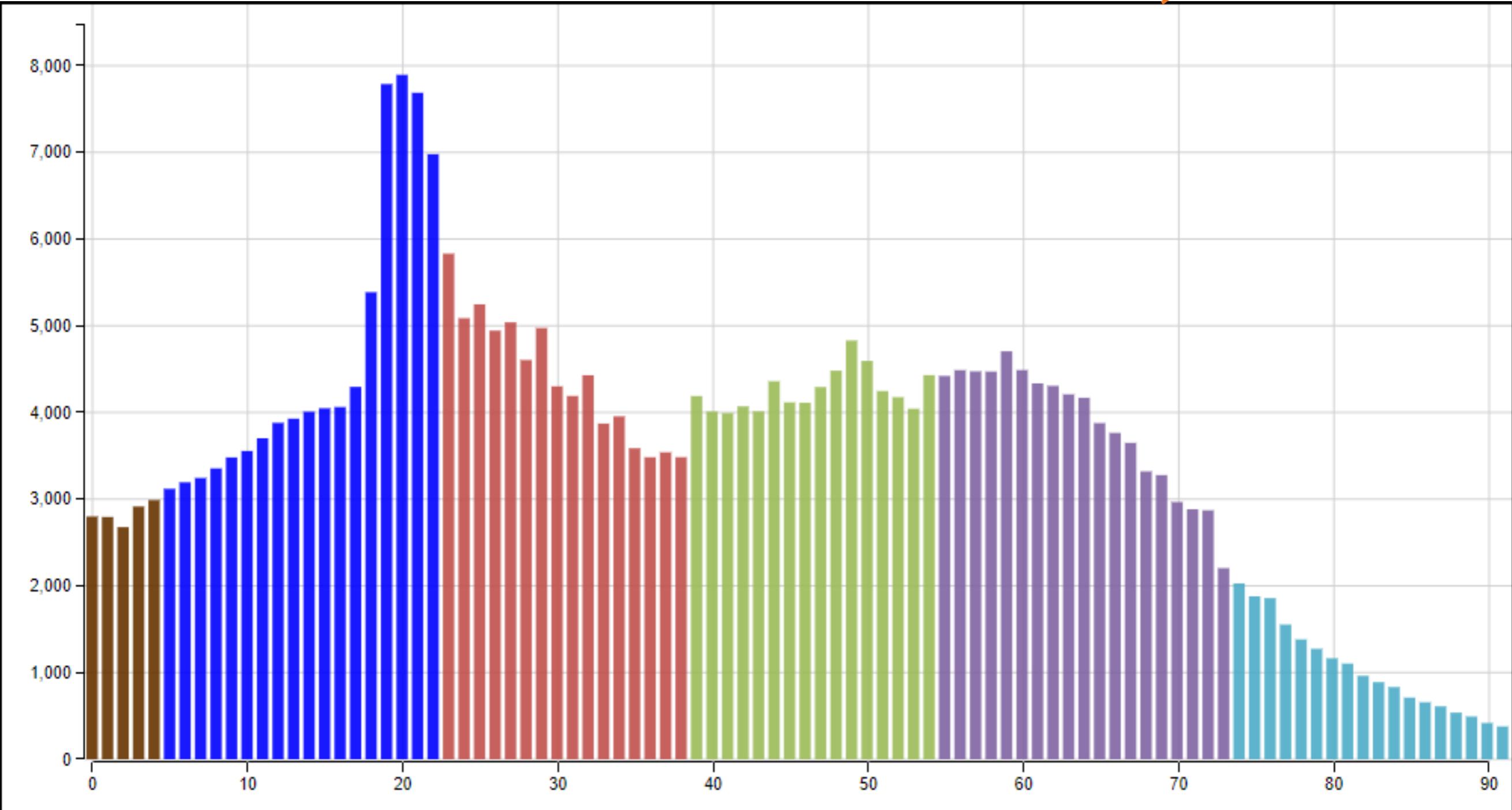


# JEFFERSON COUNTY BY GENERATION, 2019



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# BOULDER COUNTY BY GENERATION, 2019



- █ Post Millennials (1997 - 2014)      █ Millennials (1981 - 1996)      █ Generation X (1965 - 1980)      █ Baby Boomers (1946 - 1964)      █ Silent Generation (1928 - 1945)      █ Greatest Generation (- 1927)
  
- █ Future Generations (2030 -)      █ Next Generation (2015 - 2029)



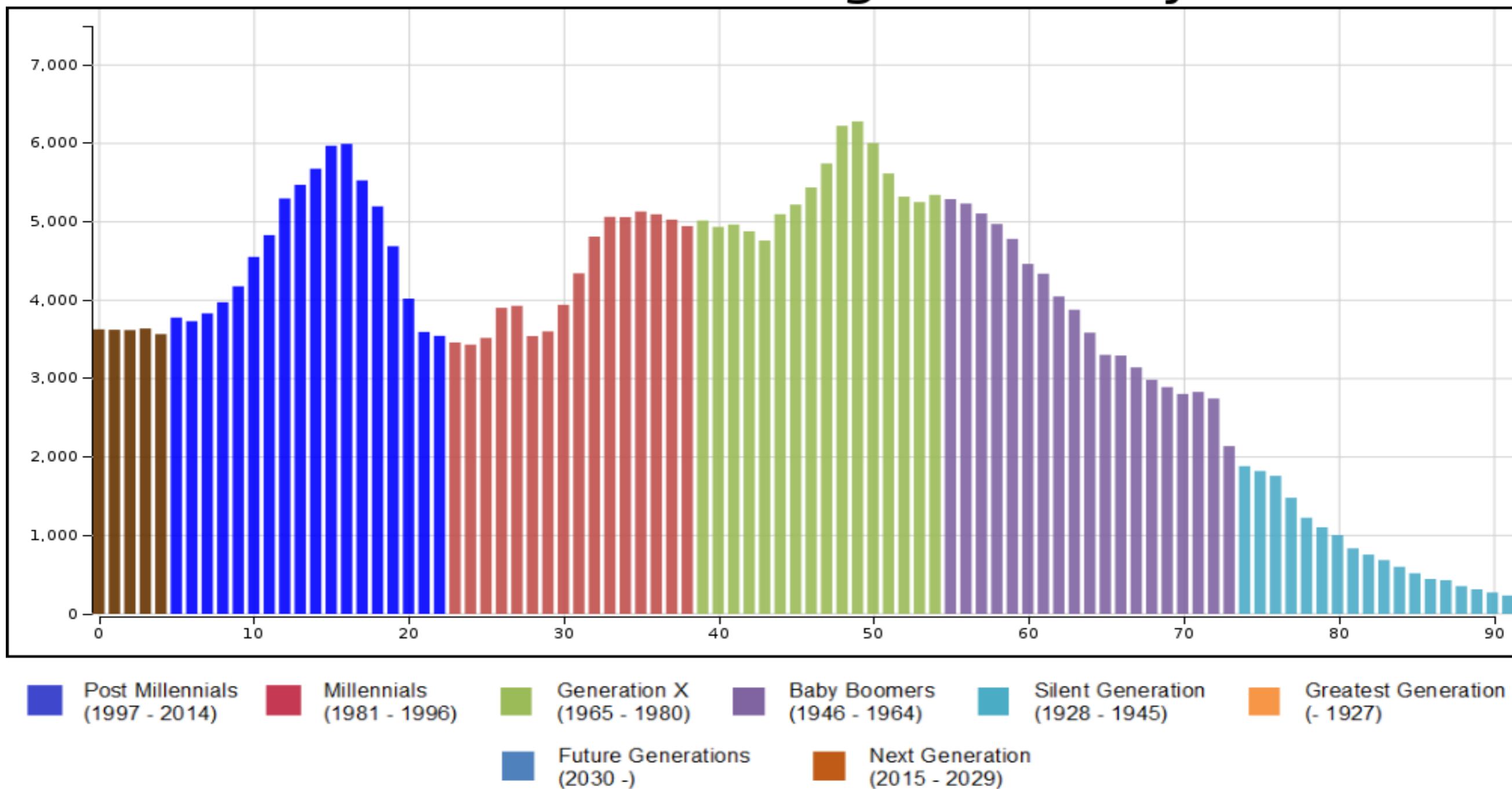
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# DOUGLAS BY GENERATION, 2019

[demography.dola.colorado.gov/gis/map-gallery](https://demography.dola.colorado.gov/gis/map-gallery)

Douglas County

2019



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# DENVER BY GENERATION, 2019

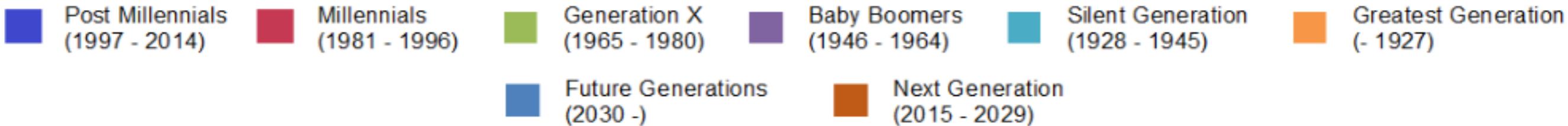
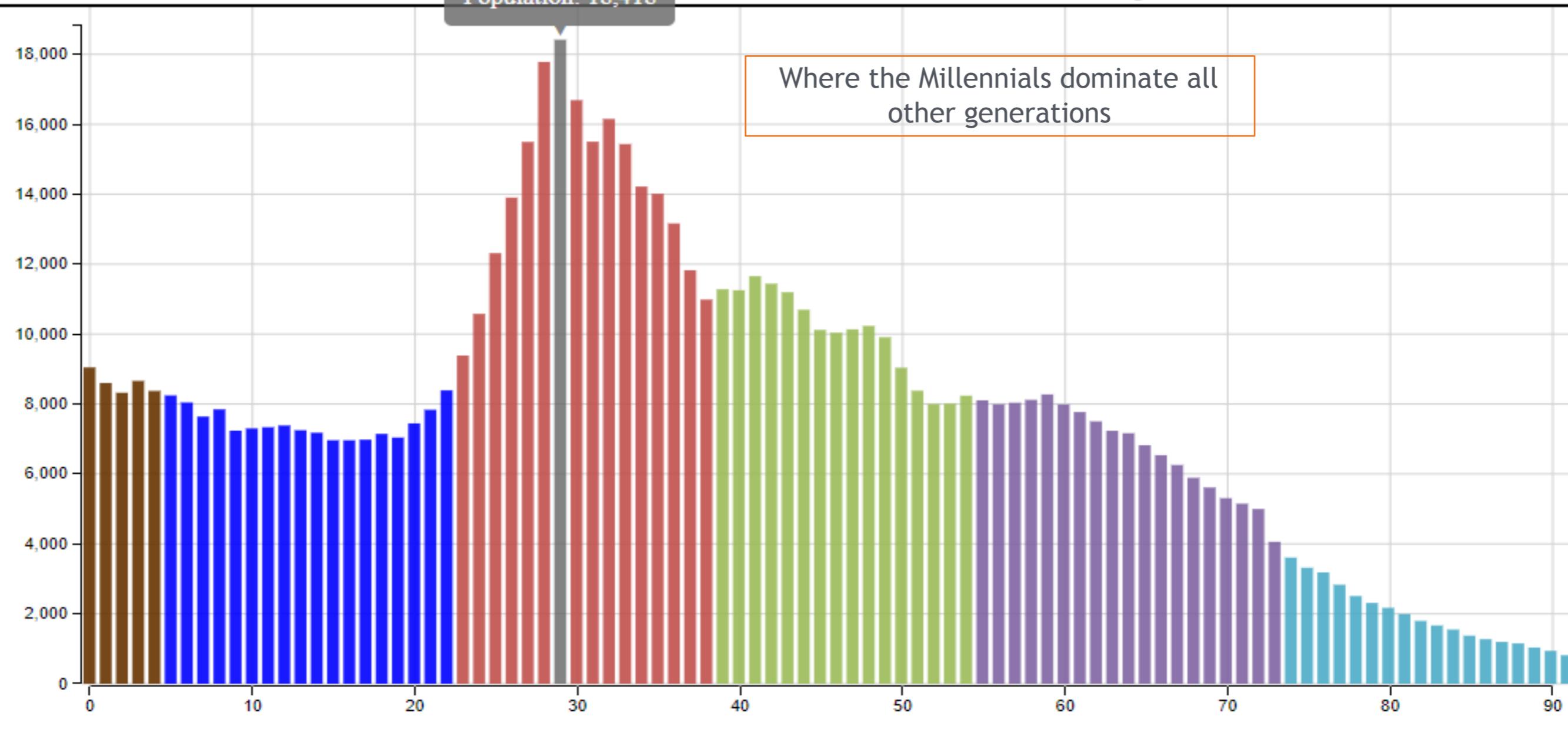
Denver ▼ 2019 ▼  
Download Image

Animate  
Age: 29  
Birth Year: 1990  
Population: 18,418

## Denver County

2019

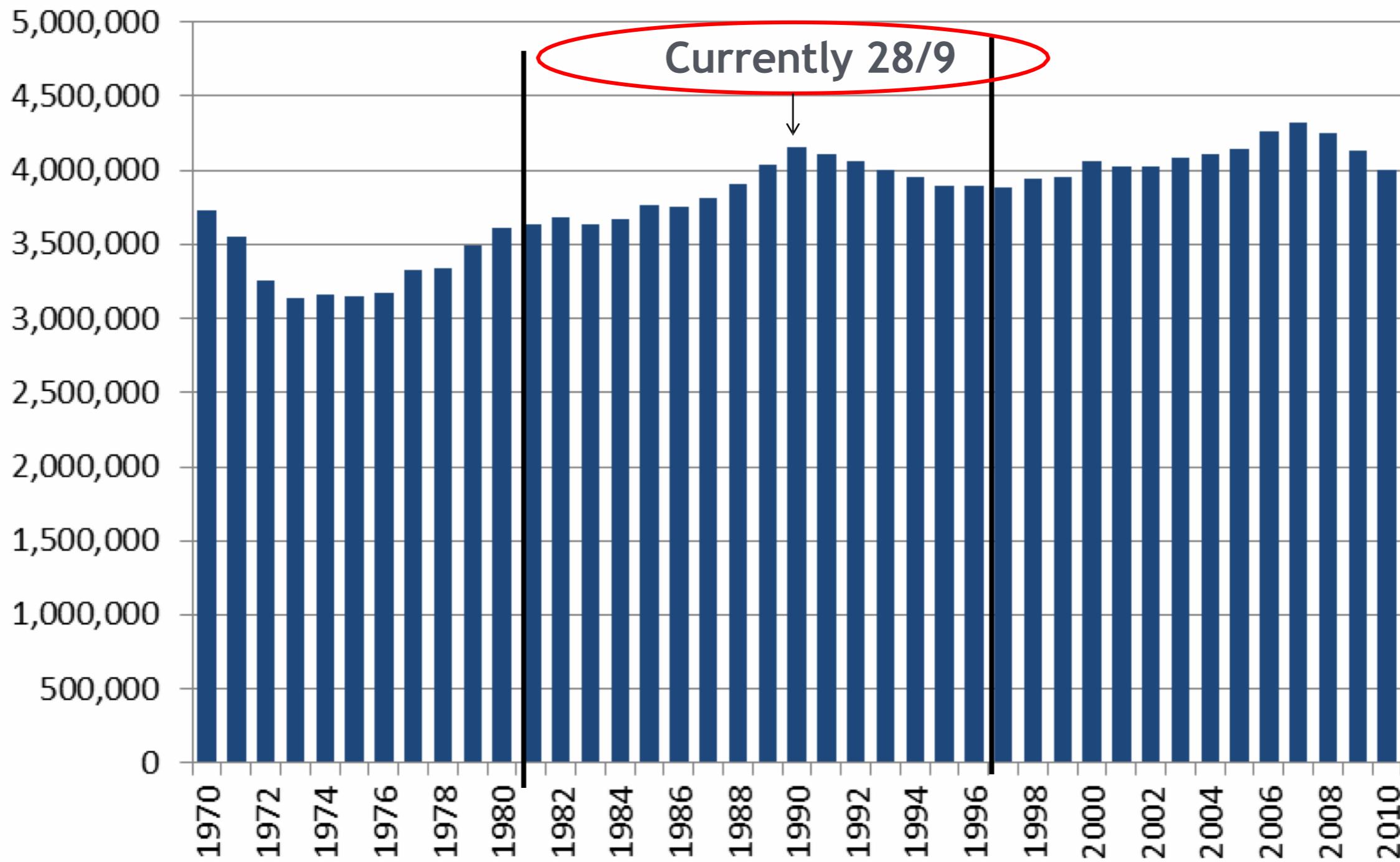
Where the Millennials dominate all other generations



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# Millennials Driving Growth for Housing?

## US Births By Year

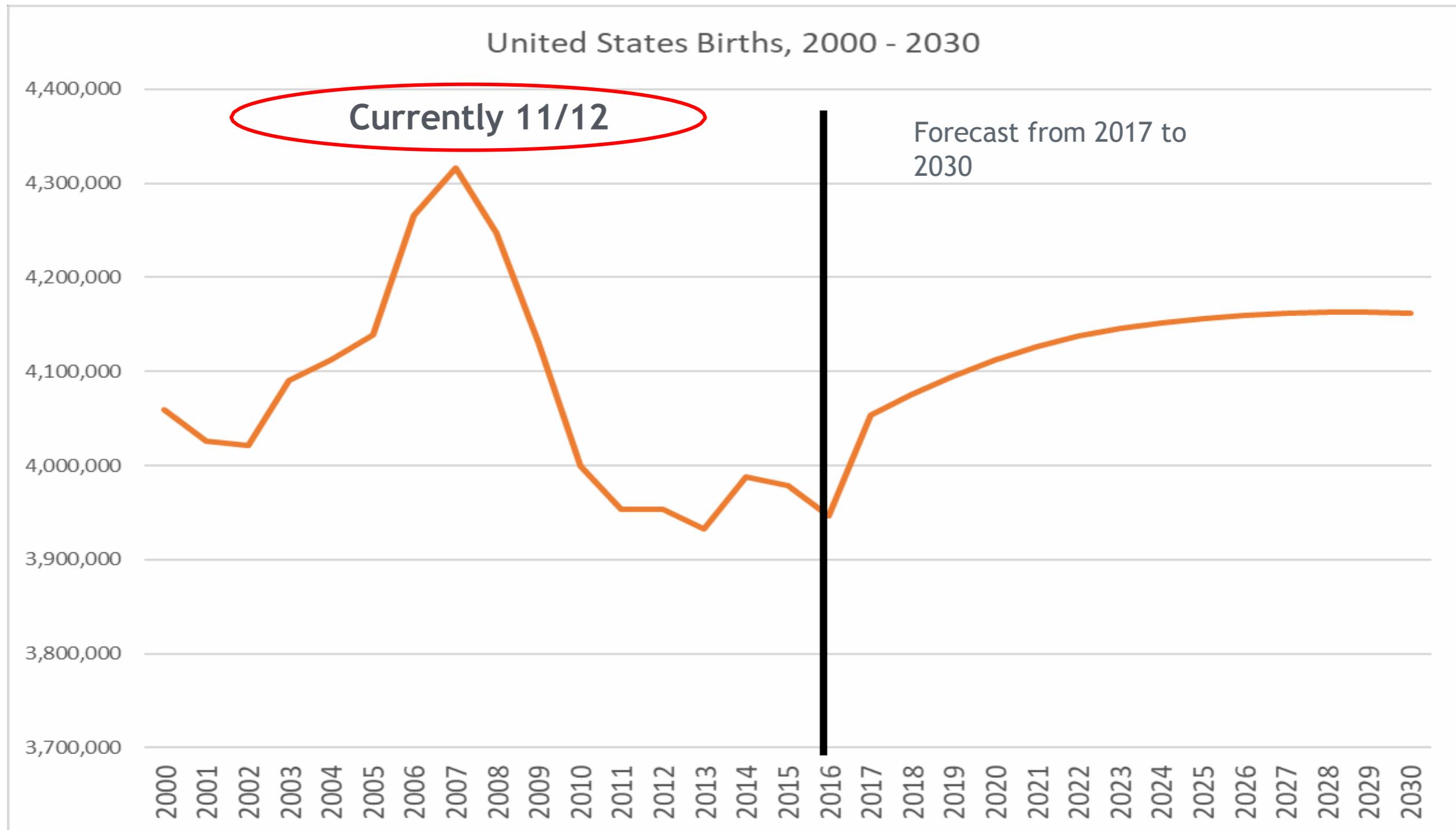


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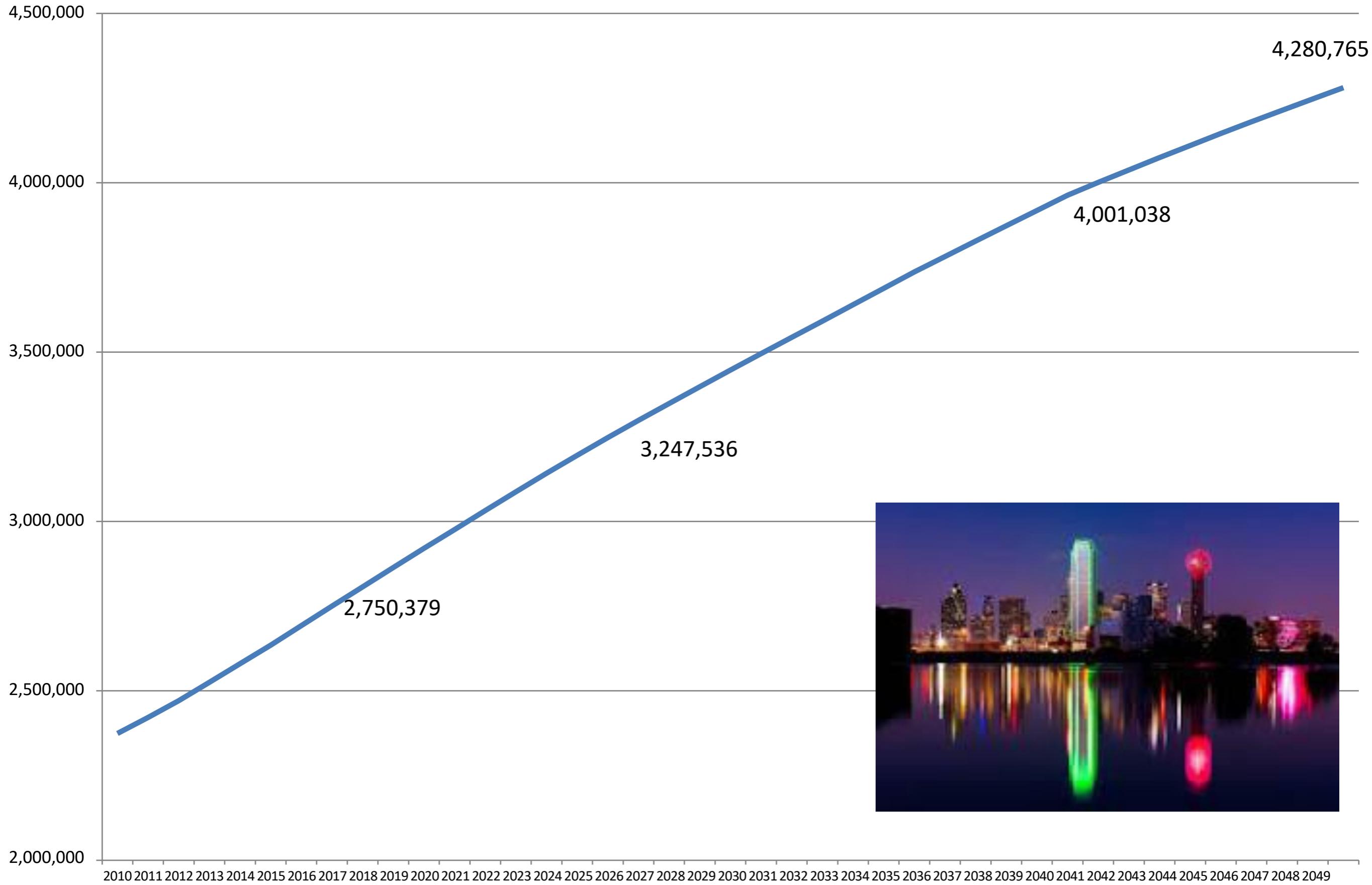
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Source: State Demography Office

# NEXT POST-MILLENNIAL Housing PUSH IN 2038?



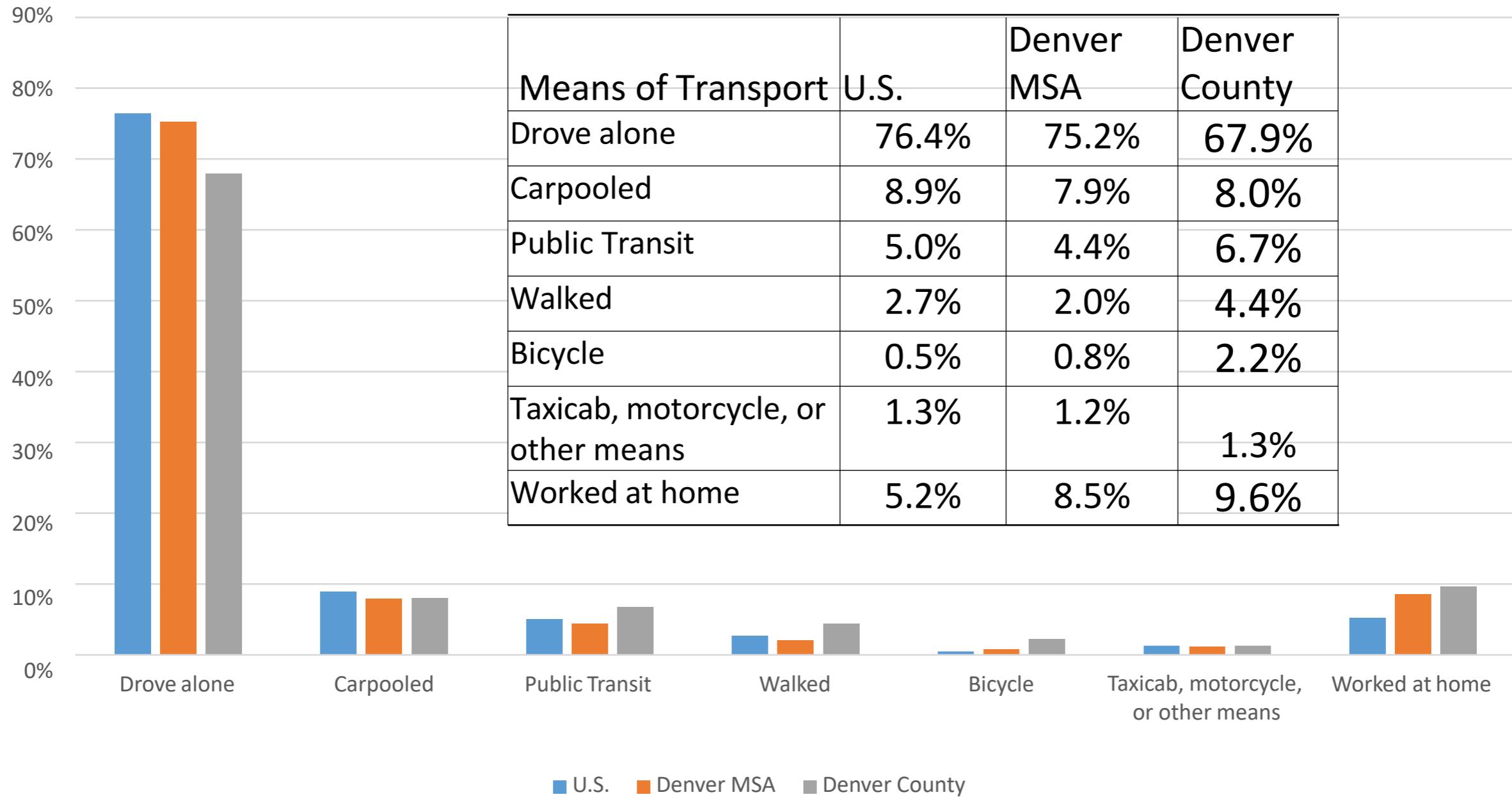
## Population 16+ in Denver-Boulder-Greeley CMSA 2010 - 2050



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# Commuter Transportation

2017 Means of Transportation to Work



Source: American Community Survey 2017 1-year estimate Table: S0801



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# Mean Travel Time to Work (2017 vs. '16)

Place	Minutes (2017)	Minutes (2016)	OTY Change	Annual Increase in Commute Minutes
<b>United States</b>	<b>26.9</b>	<b>26.6</b>	0.3	78.3
<b>Colorado</b>	<b>25.9</b>	<b>25</b>	0.9	234.9
Adams County	30.7	28.3	2.4	626.4
Arapahoe County	27.8	27.6	0.2	52.2
Boulder County	23.7	22.1	1.6	417.6
Broomfield County	26.9	25.4	1.5	391.5
Denver County	26	25.4	0.6	156.6
Douglas County	28.2	27.1	1.1	287.1
Jefferson County	27.7	27.5	0.2	52.2
DENVER MSA	28.1	27.3	0.8	208.8
El Paso County	24.3	22.5	1.8	469.8
Larimer County	24.5	22.9	1.6	417.6
Weld County	27.6	27.5	0.1	26.1

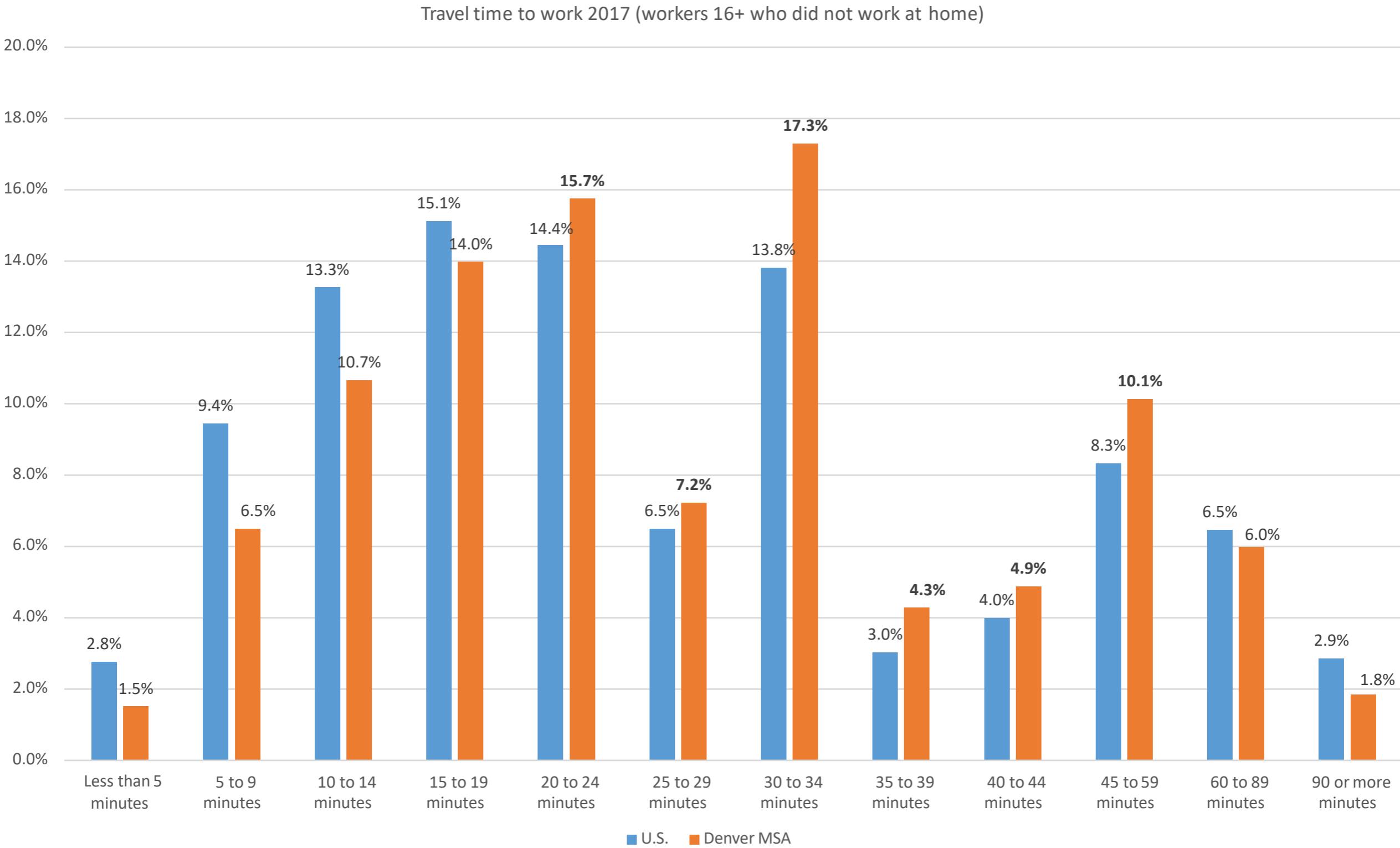


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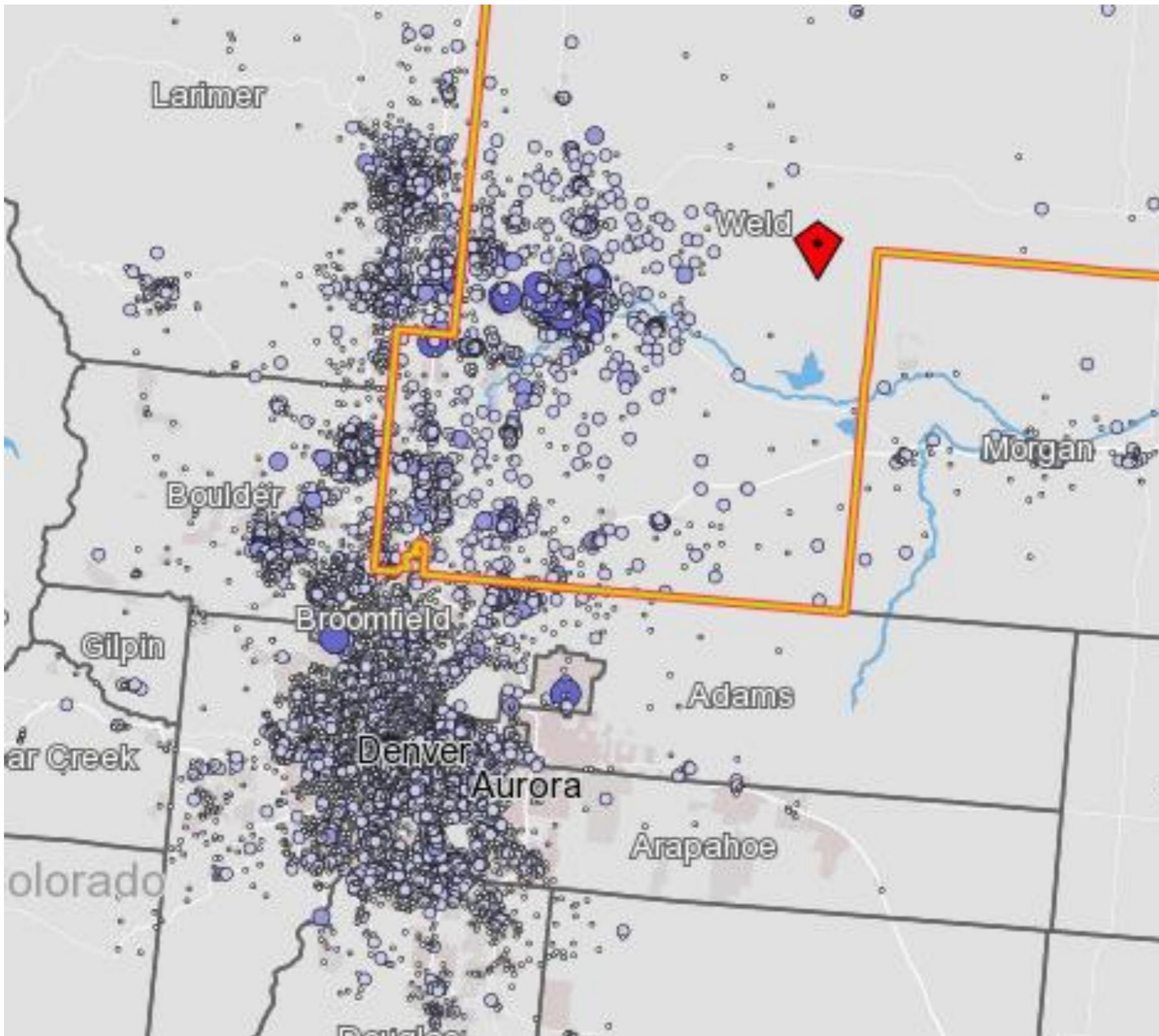
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Source: 2016 and 2017 ACS (1-yr estimates) Table: GCT0801

# Travel Time to Work (2017 ACS)



# Home (*Weld*) to Work Commuting



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Source: OntheMap 2015

# SUMMARY

- Disparate growth across the state - concentrated in Metros
- Slowing birth rates
- Age transitions - workforce and voting block
- Can we continue to attract and retain the best and brightest migrants for the labor force?
- Increasing racial and ethnic diversity.
- Everything is connected - population to jobs to education to housing to daycare to infrastructure to population...
- Importance to Good Data and Census 2020 Counts





Thank you  
State Demography Office  
Department of Local Affairs

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