# Population change in the United States

Ernesto F. L. Amaral

September 11–16, 2024
Population and Society (SOCI 312)

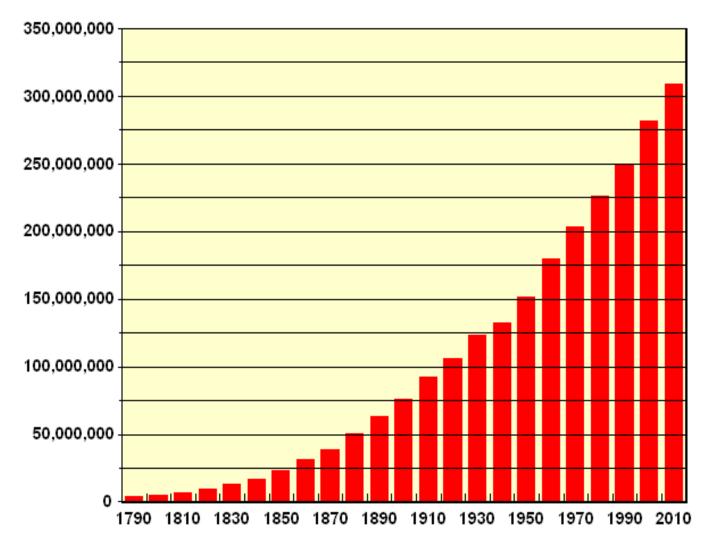
www.ernestoamaral.com



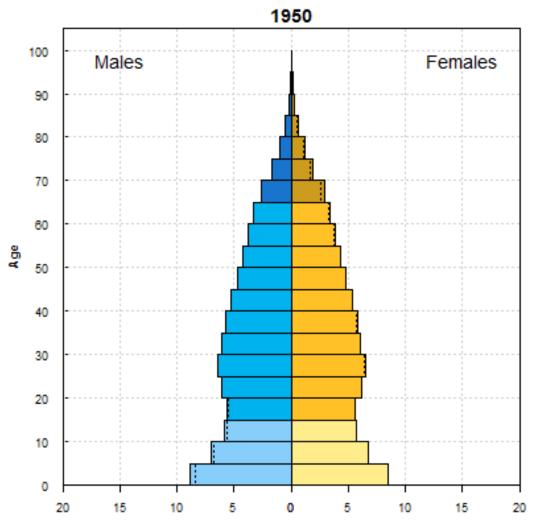
#### Outline

- Population change in the United States
- Major demographic topics in the United States
  - 1. High fertility rate among developed countries
  - 2. Majority-minority society around 2044
  - 3. Changes of origin of undocumented immigrants
  - 4. Increasing ages at first marriage
  - 5. Decreasing percentages of persons marrying
  - 6. Increasing levels of cohabitation
  - 7. Increasing percentages of births to unwed mothers

### Population change in the United States

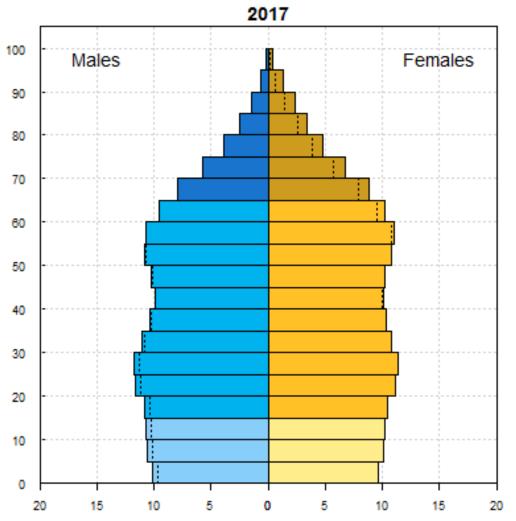


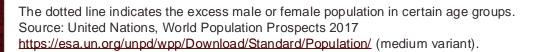




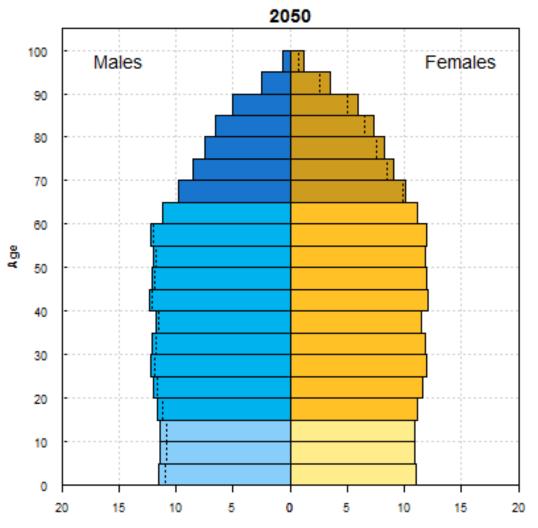






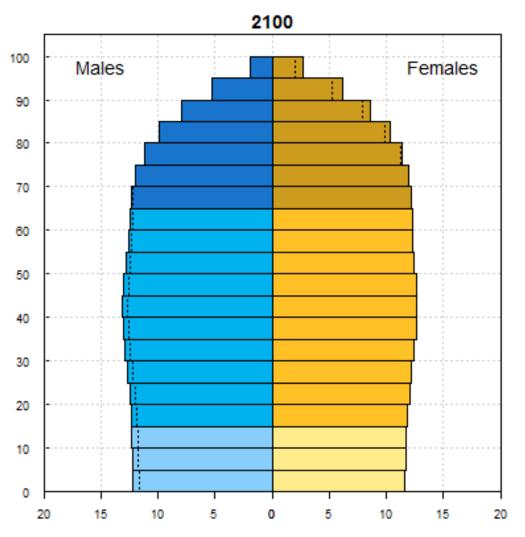


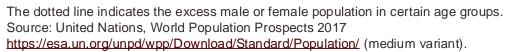








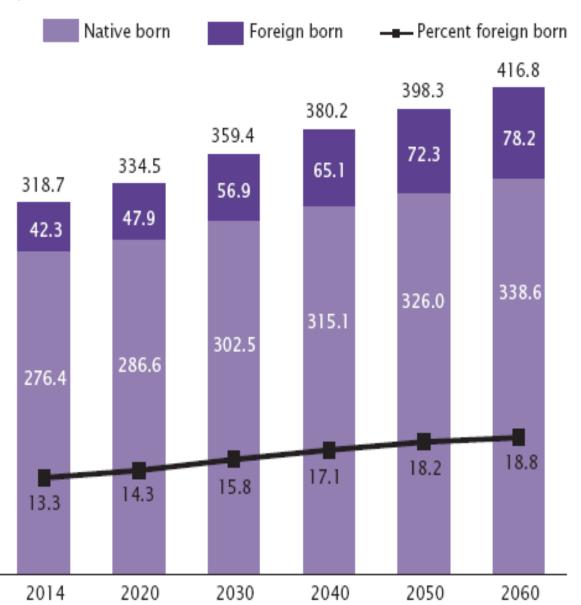






#### U.S. Population by Nativity: 2014 to 2060

(Population in millions)





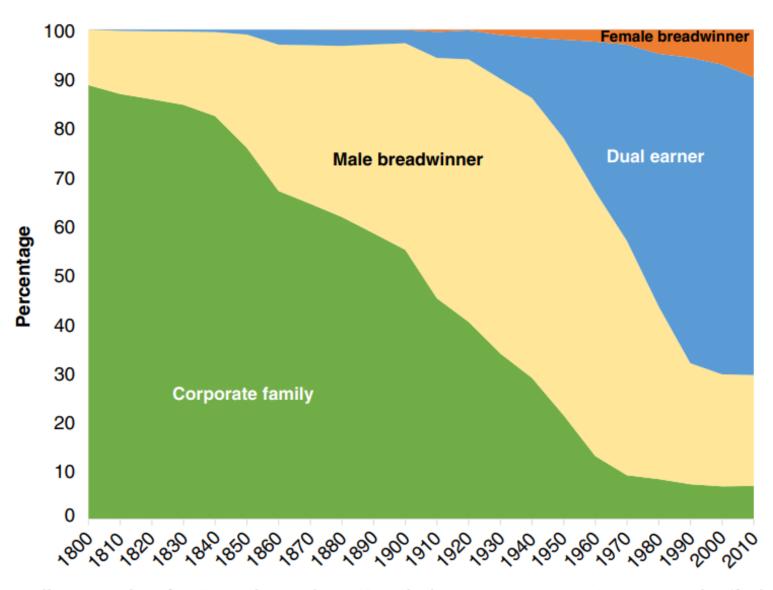
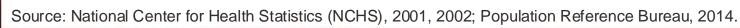


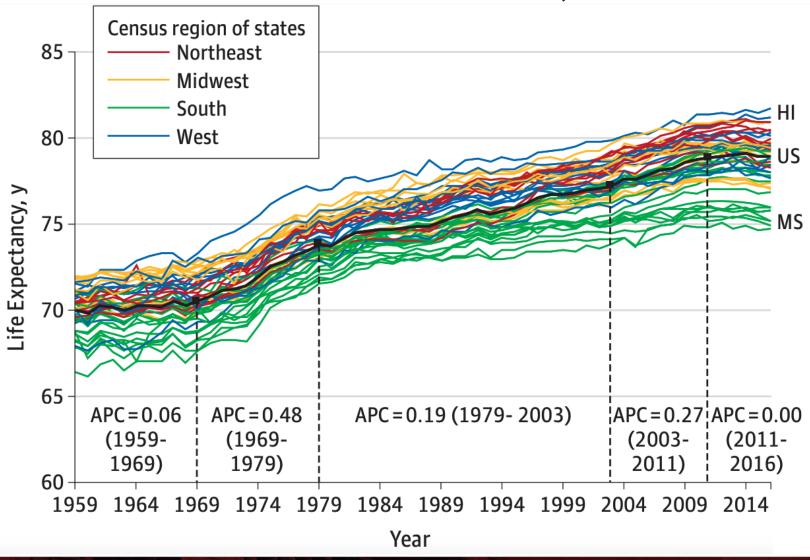
Fig. 4 Family economies of U.S. couples aged 18–64: United States, 1800–2010. Source: Ruggles (forthcoming)

#### Mortality in the United States, 1940–2013

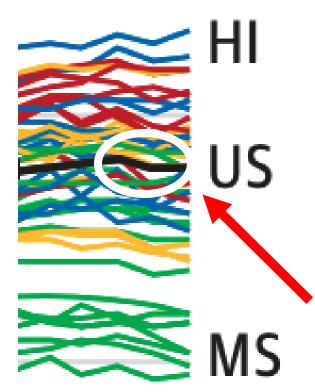
Year	Crude death rate (CDR)	Life expectancy at birth	
		Male	Female
2013	8.0	76.0	81.0
2000	8.5	74.3	79.7
1990	8.6	71.8	79.8
1980	8.8	70.0	77.4
1970	9.5	67.1	74.7
1960	9.5	66.6	73.1
1950	9.6	65.6	71.1
1940	10.8	60.8	65.2



## Life expectancy at birth United States and 50 states, 1959–2016



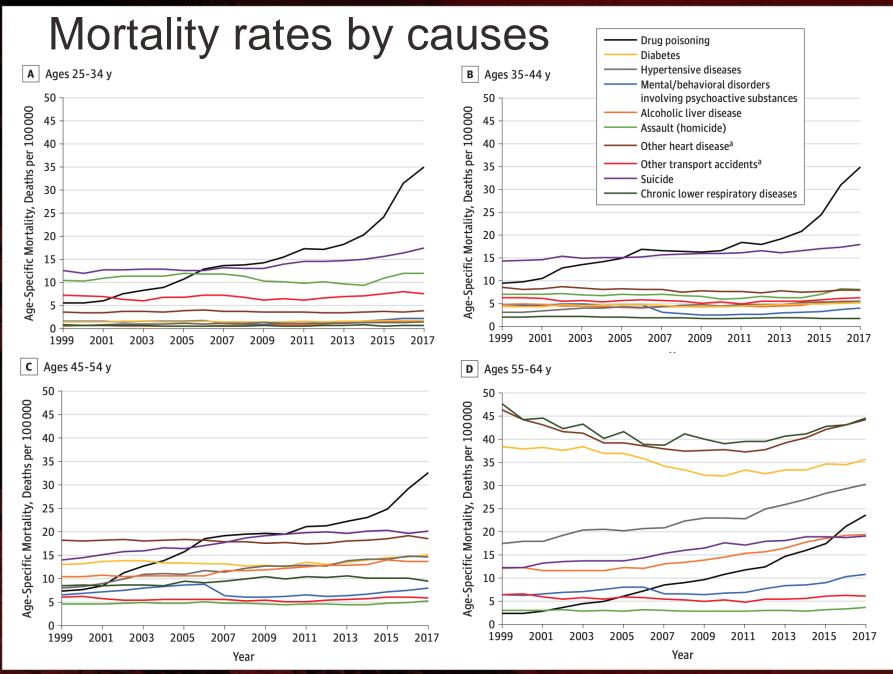
### Life expectancy at birth United States and 50 states



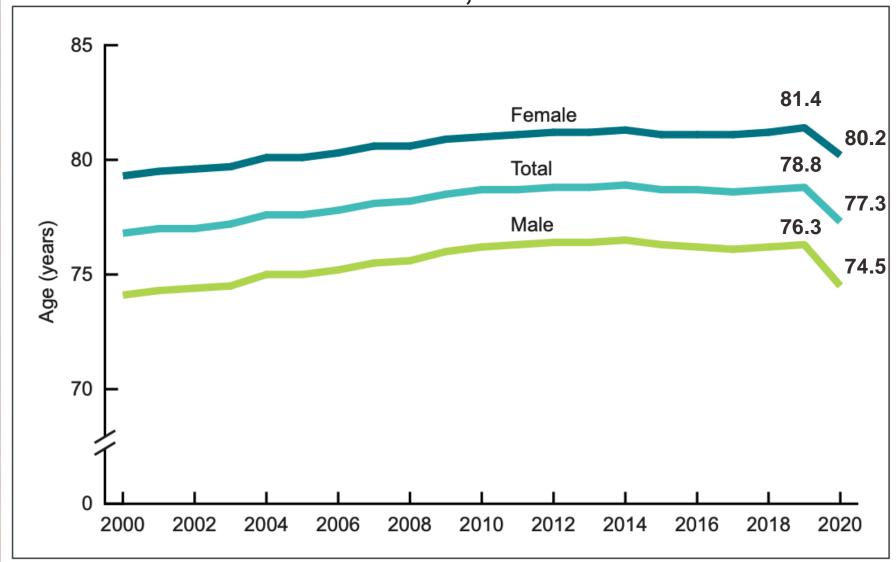
US life expectancy increased for most of the time between 1959 and 2016

However, the rate of increase slowed over time and life expectancy decreased after 2014

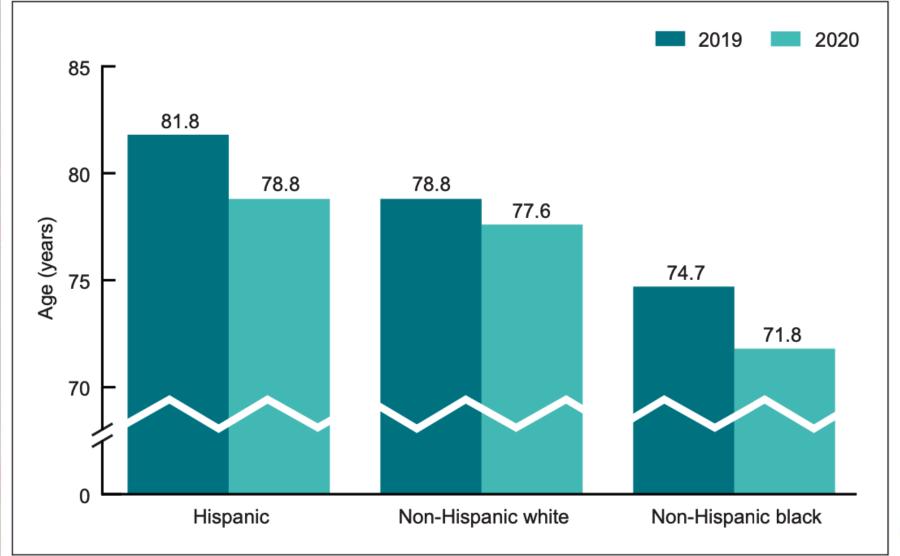




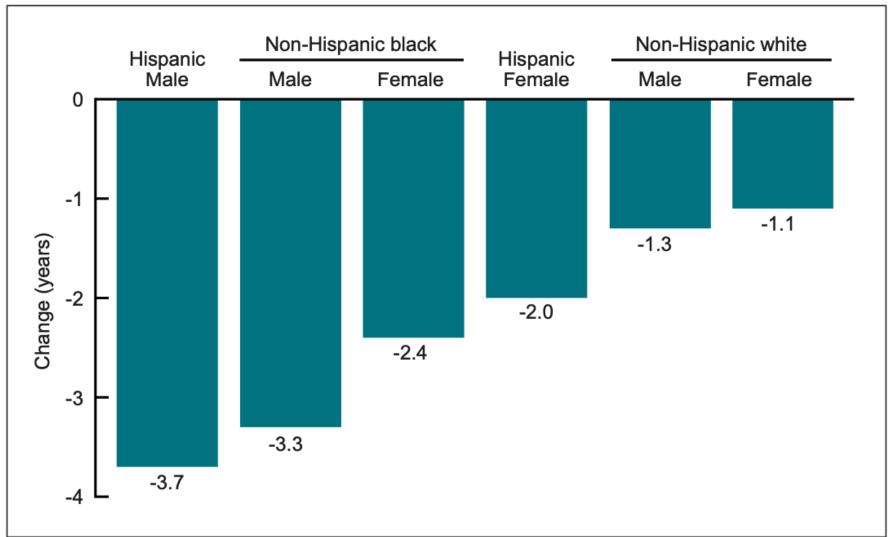
### Life expectancy at birth by sex United States, 2000–2020



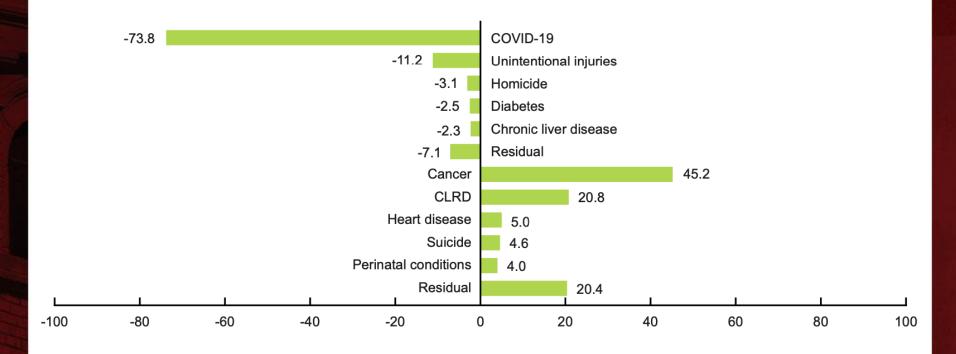
## Life expectancy at birth by race/ethnicity United States, 2019 and 2020



## Change in life expectancy at birth United States, 2019–2020



# Contribution of leading causes of death to the change in life expectancy by sex United States, 2019–2020





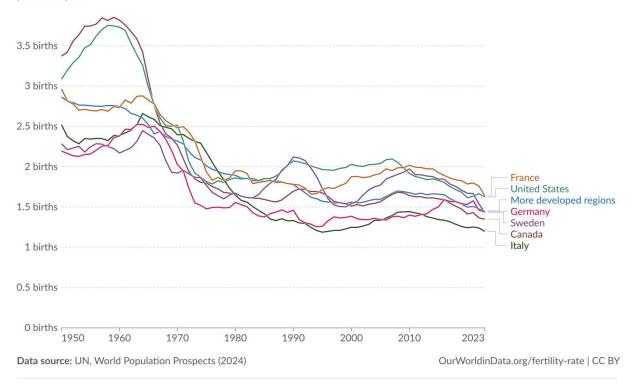


# 1. High fertility rate among developed countries

#### Fertility rate: children per woman



The fertility rate<sup>1</sup>, expressed as the number of children per woman, is based on age-specific fertility rates in one particular year.



1. Fertility rate: The total fertility rate is a period metric. It summarizes fertility rates across all age groups in one particular year. For a given year, the total fertility rate represents the average number of children that would be born to a hypothetical woman if she (1) lived to the end of her childbearing years, and (2) experienced the same age-specific fertility rates throughout her whole reproductive life as the age-specific fertility rates seen in that particular year. It is different from the actual average number of children that women have. The fertility rate should not be confused with biological fertility, which is about the ability of a person to conceive. Read more: Fertility rate



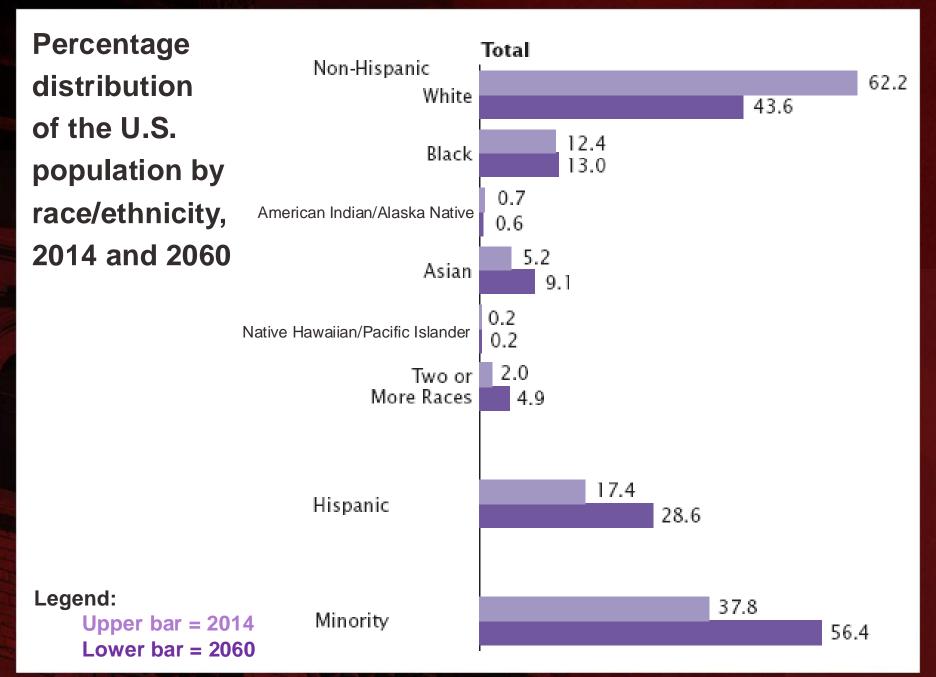
# 2. Majority-minority society around 2044

Non-Hispanic White population in the U.S.

1930	89.8%	1980	80.5%
1940	90.1%	1990	<b>75.6%</b>
1950	89.5%	2000	69.1%
1960	88.6%	2010	63.4%
1970	83.0%	2020	57.8%

- Around 2044, the U.S. should be a majorityminority society
  - Less than 50% will be non-Hispanic White





### Majority-minority states, 2020

State	White percentage	
Hawaii	22.9	
District of Columbia	36.1	
California	34.7	
New Mexico	36.8	
Texas	39.7	
Nevada	39.7	
Maryland	48.7	
Georgia	50.1	
Florida	51.5	
New York	52.0	
New Jersey	52.1	
Arizona	53.4	
Louisiana	53.8	
Mississippi	54.6	



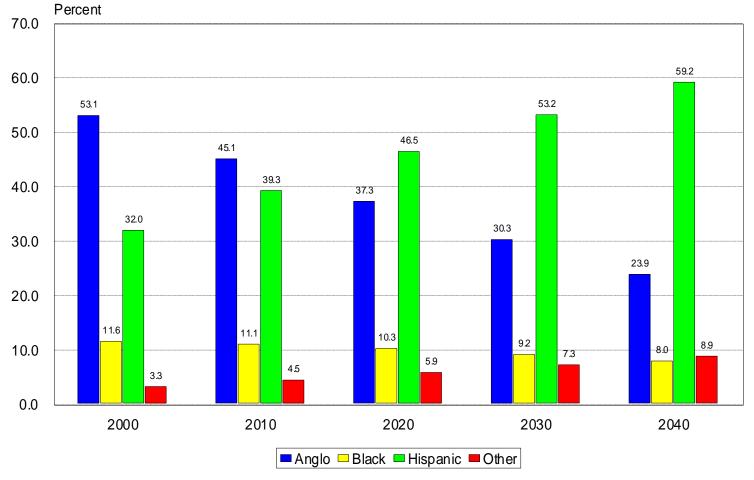
### Diversity in Texas

- Texas already is a majority-minority state
  - The non-Hispanic White population dropped below 50% in 2004

- The demographic destiny of Texas is with the Hispanic population
  - Texas will become majority Hispanic in the next few years



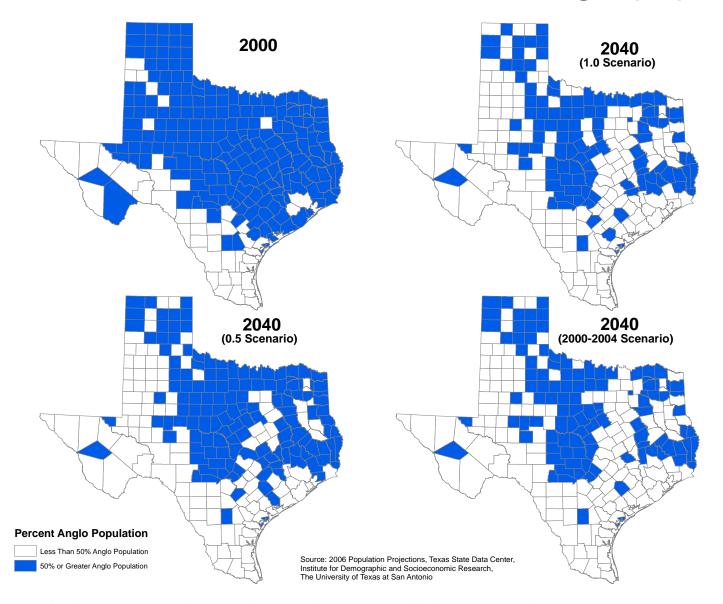
# Projected population by race/ethnicity in Texas, 2000–2040







#### Texas counties with 50% or more of Anglo population



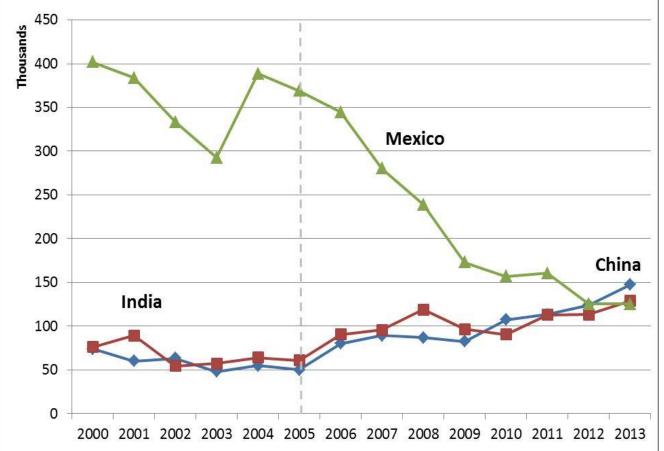


# 3. Changes of origin of undocumented immigrants

- Until now, Mexico has supplied the United States, with immigrant workers to fill low-wage jobs
  - Unprecedented decline in Mexican immigration
- Chinese workers could replace Mexican immigrants (Poston, Morrison 2011)
  - New influx of immigrant workers who will be fleeing hopeless conditions in China
  - Many of them will enter the U.S. undocumented
     <a href="http://www.chron.com/disp/story.mpl/editorial/outlook/7695428.html">http://www.chron.com/disp/story.mpl/editorial/outlook/7695428.html</a>



### Foreign-Born Population Whose Residence One Year Ago Was Abroad by Selected Places of Birth: 2000-2013



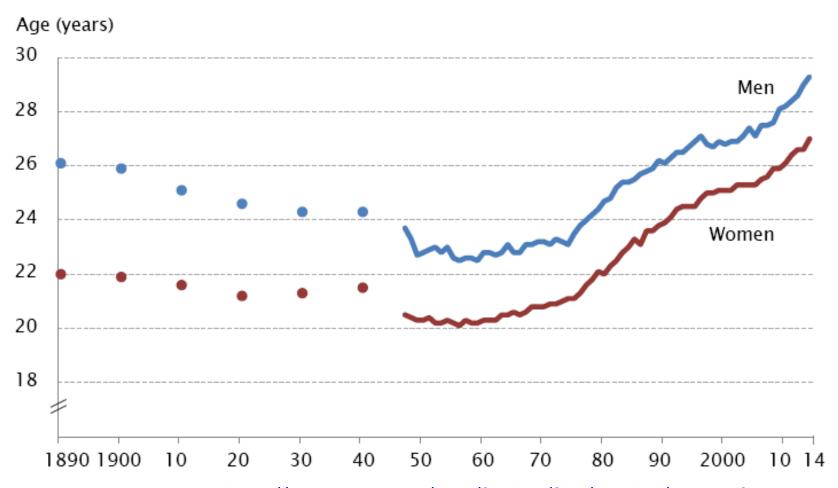
Note: The ACS did not include the group quarters population until 2006. The time series from 2000 to 2005 represents immigration for the household population while the time series from 2006 to 2013 represents immigration for the resident population.

Source: U.S. Census Bureau, Population Division, 2000 to 2013 Single-Year American Community Survey. For information on sampling and nonsampling error in the ACS, see <a href="http://www.census.gov/acs/www/methodology/methodology\_main/">http://www.census.gov/acs/www/methodology/methodology\_main/</a>>.



### 4. Increasing ages at first marriage

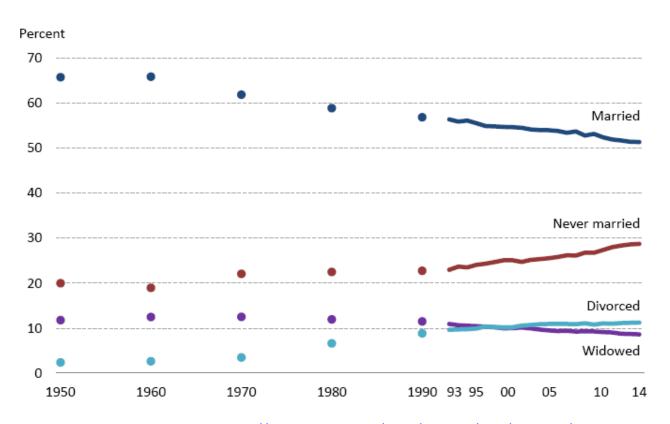
Median Age at First Marriage: United States, 1890-2014



Source: U.S. Census Bureau, <a href="https://www.census.gov/hhes/families/files/graphics/MS-2.pdf">https://www.census.gov/hhes/families/files/graphics/MS-2.pdf</a>

# 5. Decreasing percentages of persons marrying

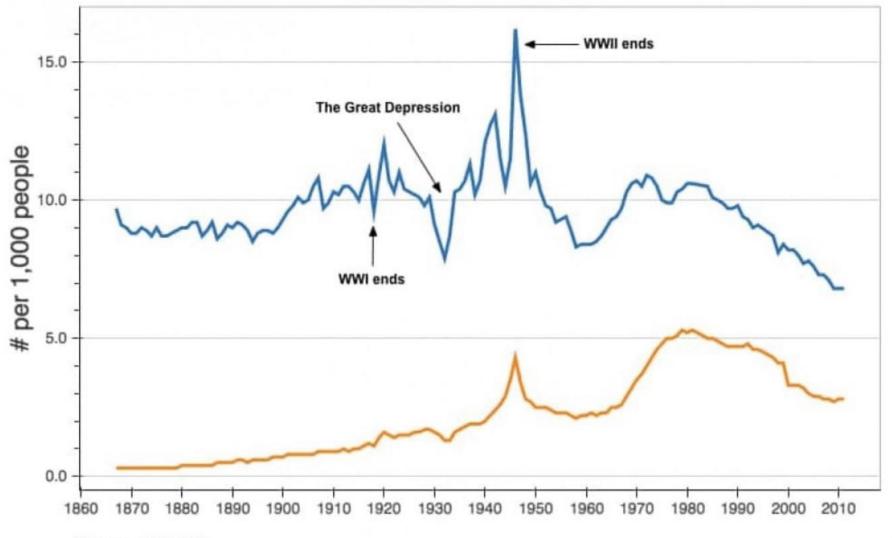
Marital Status of Women 15 years of Age and Older: United States, 1950 - 2014





Source: Us. Bureau of the Census. <a href="https://www.census.gov/hhes/families/files/graphics/MS-1b.pdf">https://www.census.gov/hhes/families/files/graphics/MS-1b.pdf</a>

#### 144 years of marriage and divorce in the U.S.

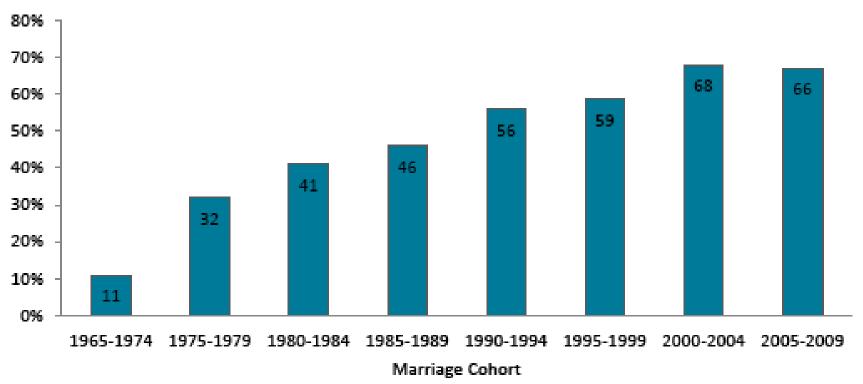


Data source: CDC NCHS

Author: Randy Olson (@randal\_olson / randalolson.com)

### 6. Increasing levels of cohabitation

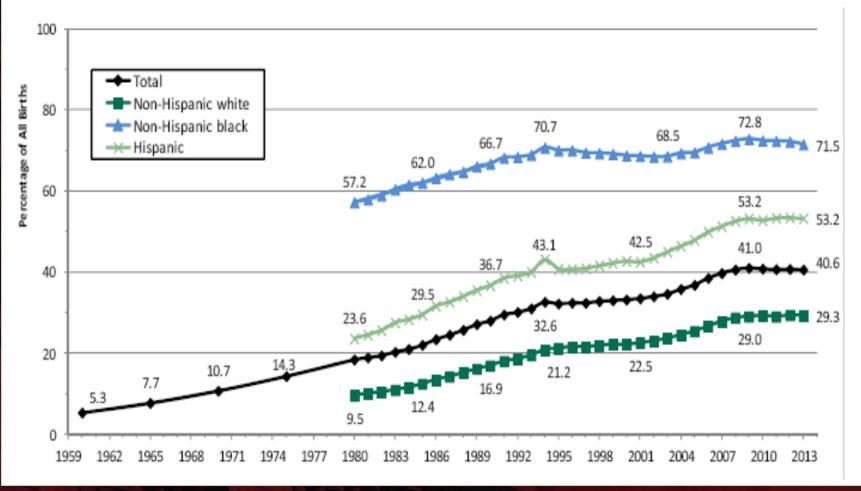
Percentages of Women (ages 19-44) Who Cohabited
Prior to Their First Marriage:
United States, 1965-74 to 2005-09





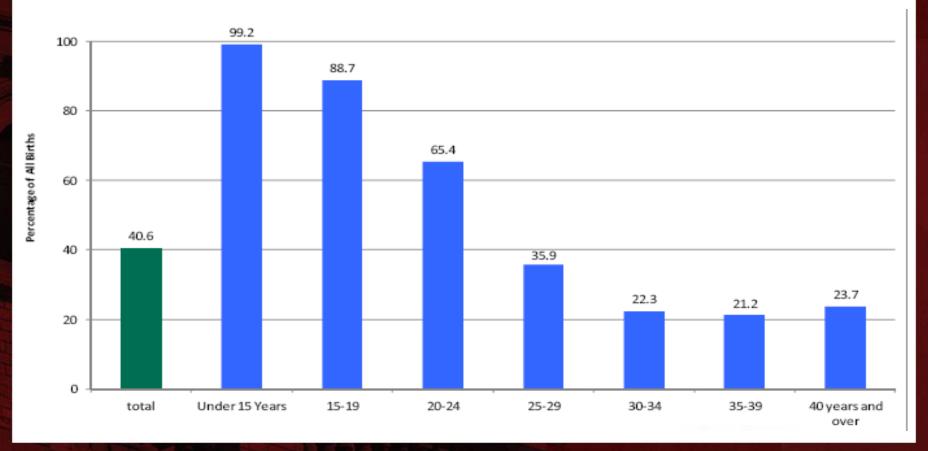
## 7. Increasing percentages of births to unwed mothers

Percentages of Births to Unmarried Women, by Race and Hispanic Origin, 1959 to 2013



## How old are the unmarried women who had babies?

Percentage of All Births to Unmarried Women, by Age of Mother: United States, 2013



#### References

- Healey JF. 2015. "Statistics: A Tool for Social Research." Stamford: Cengage Learning.
- Hugo G. 2011. "Future demographic change and its interactions with migration and climate change." Global Environmental Change, 21(Supplement 1): S21–S33.
- Poston DL, Bouvier LF. 2017. Population and Society: An Introduction to Demography. New York: Cambridge University Press. 2nd edition. Chapter 13 (pp. 348–364).
- Weeks JR. 2015. Population: An Introduction to Concepts and Issues. Boston: Cengage Learning. 12th edition. Chapters 1 (pp. 1–24), 2 (pp. 25–57).
- Wooldridge JM. 2015. "Introductory Econometrics: A Modern Approach." Boston: Cengage Learning.



