

# 2020 Census Apportionment

Presentation for Public Distribution

# Apportionment

- The constitutional basis for conducting a census every ten years is to conduct congressional apportionment.
- Congressional apportionment is the process of distributing the 435 seats in the U.S. House of Representatives among the 50 states based on state population counts from each decennial census.
- Congress decides the method used to calculate apportionment.
- The Method of Equal Proportions (adopted by Congress in 1941) uses a formula to calculate values based on each state's apportionment population from the census and the number of potential seats each state could receive. Then the method ranks those values to determine how many seats each state gets.

# Apportionment Population

- The apportionment population = resident population + overseas population.
- The apportionment population does not include the District of Columbia or Puerto Rico.
- The overseas population is used for apportionment purposes only.

# Current Apportionment Calculation Method

- Method of Equal Proportions (used every decade since 1940 Census apportionment)
- There are 435 seats, and each of the 50 states automatically gets one seat. Then a formula is used to assign the remaining 385 seats based on each state's apportionment population.

- Formula for priority values:

$$A_n = \frac{P}{\sqrt{n(n-1)}}$$

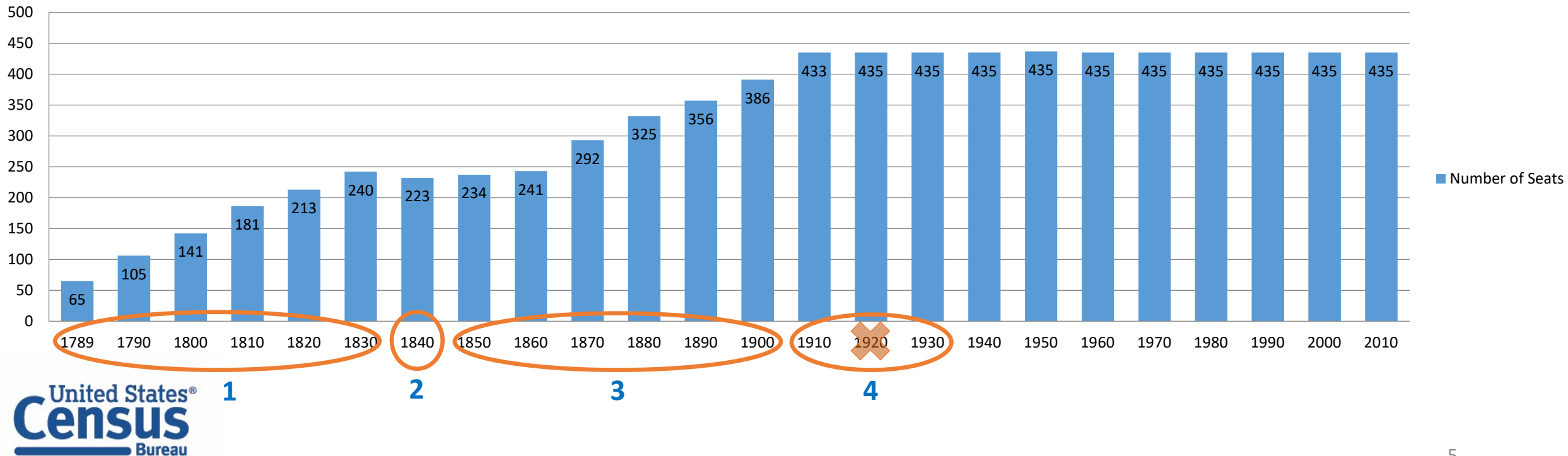
**A** is the priority value, **P** is a state's population, and **n** is the number of seats the state would have if it received another seat.

- Calculate about 60 priority values for each state. Then mix the priority values for all the states together and rank them from largest to smallest. Then assign an additional seat to a state each time one of its priority values shows up among the top 385 values.

# Historical Apportionment Calculation Methods

1. Jefferson method: 1790-1830
2. Webster method: 1840
3. Vinton/Hamilton method: 1850-1900
4. Method of major fractions: 1910, 1930

Number of Seats in the U.S. House of Representatives: 1790 to 2010



# Delivering Results

# 2020 Census Apportionment Transmittal Package

- On April 26, 2021, the 2020 Census apportionment results were sequentially transmitted to the Secretary of Commerce, the President, and Congress. They were also released to the public during a press conference that afternoon.
- Memorandum from Census Bureau Director to Secretary of Commerce, with three tables attached:
  - Table 1: Apportionment Population and Number of Representatives by State
  - Table 2: Resident Population by State
  - Table 3: Overseas Population by State
- Letter from Secretary of Commerce to President, with one unnumbered table attached:
  - Apportionment Population and Number of Representatives by State (same content as Table 1 that was sent to Secretary of Commerce)
- Letter from President to Congress (House and Senate), with one unnumbered table attached:
  - Apportionment Population and Number of Representatives by State (same content as Table 1 that was sent to Secretary of Commerce)

# 2020 Census Apportionment Transmittal to Secretary of Commerce

## Table 1: Apportionment Population and Number of Representatives by State

U.S. Department of Commerce  
U.S. Census Bureau

Table 1. APPORTIONMENT POPULATION AND NUMBER OF REPRESENTATIVES BY STATE: 2020 CENSUS

STATE	APPORTIONMENT POPULATION (APRIL 1, 2020)	NUMBER OF APPORTIONED REPRESENTATIVES BASED ON 2020 CENSUS <sup>2</sup>	CHANGE FROM 2010 CENSUS APPORTIONMENT
Alabama	5,030,053	7	0
Alaska	736,081	1	0
Arizona	7,168,923	9	0
Arkansas	3,013,756	4	0
California	39,576,757	52	-1
Colorado	5,782,171	8	1
Connecticut	3,608,298	5	0
Delaware	990,837	1	0
Florida	21,570,527	28	1
Georgia	10,725,274	14	0
Hawaii	1,460,137	2	0
Idaho	1,841,377	2	0
Illinois	12,822,739	17	-1
Indiana	6,790,280	9	0
Iowa	3,192,406	4	0
Kansas	2,940,865	4	0
Kentucky	4,509,342	6	0
Louisiana	4,661,468	6	0
Maine	1,363,582	2	0
Maryland	6,185,278	8	0
Massachusetts	7,033,469	9	0
Michigan	10,084,442	13	-1
Minnesota	5,709,752	8	0
Mississippi	2,963,914	4	0
Missouri	6,160,281	8	0
Montana	1,085,407	2	1
Nebraska	1,963,333	3	0
Nevada	3,108,462	4	0
New Hampshire	1,379,089	2	0
New Jersey	9,294,493	12	0
New Mexico	2,120,220	3	0
New York	20,215,751	26	-1
North Carolina	10,463,948	14	1
North Dakota	779,702	1	0
Ohio	11,808,848	15	-1
Oklahoma	3,963,516	5	0
Oregon	4,241,500	6	1
Pennsylvania	13,011,844	17	-1
Rhode Island	1,098,163	2	0
South Carolina	5,124,712	7	0
South Dakota	887,770	1	0
Tennessee	6,916,897	9	0
Texas	29,183,290	38	2
Utah	3,275,252	4	0
Vermont	643,503	1	0
Virginia	8,654,542	11	0
Washington	7,715,948	10	0
West Virginia	1,795,045	2	-1
Wisconsin	5,897,473	8	0
Wyoming	577,719	1	0
TOTAL APPORTIONMENT POPULATION <sup>1</sup>	331,108,434	435	

<sup>1</sup> Includes the resident population for the 50 states, as ascertained by the Twenty-Fourth Decennial Census under Title 13, United States Code, and counts of U.S. military and federal civilian employees living overseas (and their dependents living with them overseas) allocated to their home state, as reported by the employing federal agencies. The apportionment population excludes the population of the District of Columbia. The counts of overseas personnel (and dependents) are used for apportionment purposes only.

<sup>2</sup> The U.S. Census Bureau prepared these calculations using the existing size of the U.S. House of Representatives (435 members) and the Method of Equal Proportions, as provided for in Title 2, United States Code, Sections 2a and 2b.



# 2020 Census Apportionment Transmittal to Secretary of Commerce

## Table 2: Resident Population by State

U.S. Department of Commerce  
U.S. Census Bureau

Table 2. RESIDENT POPULATION FOR THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2020 CENSUS

AREA	RESIDENT POPULATION (APRIL 1, 2020)
Alabama	5,024,279
Alaska	733,391
Arizona	7,151,502
Arkansas	3,011,524
California	39,538,223
Colorado	5,773,714
Connecticut	3,605,944
Delaware	989,948
District of Columbia	689,545
Florida	21,538,187
Georgia	10,711,908
Hawaii	1,455,271
Idaho	1,839,106
Illinois	12,812,508
Indiana	6,785,528
Iowa	3,190,369
Kansas	2,937,880
Kentucky	4,505,636
Louisiana	4,657,757
Maine	1,362,359
Maryland	6,177,224
Massachusetts	7,029,917
Michigan	10,077,331
Minnesota	5,706,494
Mississippi	2,961,279
Missouri	6,154,913
Montana	1,084,225
Nebraska	1,961,504
Nevada	3,104,614
New Hampshire	1,377,529
New Jersey	9,288,994
New Mexico	2,117,522
New York	20,201,249
North Carolina	10,439,388
North Dakota	779,094
Ohio	11,799,448
Oklahoma	3,959,353
Oregon	4,237,256
Pennsylvania	13,002,700
Rhode Island	1,097,379
South Carolina	5,118,425
South Dakota	886,667
Tennessee	6,910,840
Texas	29,145,505
Utah	3,271,616
Vermont	643,077
Virginia	8,631,393
Washington	7,705,281
West Virginia	1,793,716
Wisconsin	5,883,718
Wyoming	576,851
TOTAL RESIDENT POPULATION <sup>1</sup>	331,449,281
Puerto Rico	3,285,874
TOTAL RESIDENT POPULATION, INCLUDING PUERTO RICO	334,735,155

<sup>1</sup> Includes the resident population for the 50 states and the District of Columbia, as ascertained by the Twenty-Fourth Decennial Census under Title 13, United States Code.

# 2020 Census Apportionment Transmittal to Secretary of Commerce

## Table 3: Overseas Population by State

U.S. Department of Commerce  
U.S. Census Bureau

Table 3. OVERSEAS POPULATION FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: 2020 CENSUS

STATE	OVERSEAS POPULATION (APRIL 1, 2020)
Alabama	5,774
Alaska	2,690
Arizona	7,421
Arkansas	2,232
California	38,534
Colorado	8,457
Connecticut	2,354
Delaware	889
District of Columbia	1,988
Florida	32,340
Georgia	13,366
Hawaii	4,866
Idaho	2,271
Illinois	10,231
Indiana	4,752
Iowa	2,037
Kansas	2,985
Kentucky	3,506
Louisiana	3,711
Maine	1,223
Maryland	8,054
Massachusetts	3,552
Michigan	7,111
Minnesota	3,258
Mississippi	2,635
Missouri	5,368
Montana	1,182
Nebraska	1,829
Nevada	3,848
New Hampshire	1,560
New Jersey	5,499
New Mexico	2,698
New York	14,502
North Carolina	14,560
North Dakota	608
Ohio	9,400
Oklahoma	4,163
Oregon	4,244
Pennsylvania	9,144
Rhode Island	784
South Carolina	6,287
South Dakota	1,103
Tennessee	6,057
Texas	37,785
Utah	3,636
Vermont	426
Virginia	23,149
Washington	10,665
West Virginia	1,329
Wisconsin	3,755
Wyoming	868
<b>TOTAL OVERSEAS POPULATION<sup>1</sup></b>	<b>350,686</b>

<sup>1</sup> Includes U.S. military and federal civilian employees living overseas (and their dependents living with them overseas) allocated to their home state or the District of Columbia, as reported by the employing federal agencies.

# 2020 Census Apportionment Transmittal to President

## Table: Apportionment Population and Number of Representatives by State

U.S. Department of Commerce  
U.S. Census Bureau

### APPORTIONMENT POPULATION AND NUMBER OF REPRESENTATIVES BY STATE: 2020 CENSUS

STATE	APPORTIONMENT POPULATION (APRIL 1, 2020)	NUMBER OF APPORTIONED REPRESENTATIVES BASED ON 2020 CENSUS <sup>2</sup>	CHANGE FROM 2010 CENSUS APPORTIONMENT
Alabama	5,030,053	7	0
Alaska	736,081	1	0
Arizona	7,158,923	9	0
Arkansas	3,013,756	4	0
California	39,576,757	52	-1
Colorado	5,782,171	8	1
Connecticut	3,608,298	5	0
Delaware	990,837	1	0
Florida	21,570,527	28	1
Georgia	10,725,274	14	0
Hawaii	1,460,137	2	0
Idaho	1,841,377	2	0
Illinois	12,822,739	17	-1
Indiana	6,790,280	9	0
Iowa	3,192,406	4	0
Kansas	2,940,865	4	0
Kentucky	4,509,342	6	0
Louisiana	4,661,468	6	0
Maine	1,363,582	2	0
Maryland	6,185,278	8	0
Massachusetts	7,033,469	9	0
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New Mexico	2,120,220	3	0
New York	20,215,751	26	-1
North Carolina	10,453,948	14	1
North Dakota	779,702	1	0
Ohio	11,808,848	15	-1
Oklahoma	3,963,516	5	0
Oregon	4,241,500	6	1
Pennsylvania	13,011,844	17	-1
Rhode Island	1,098,163	2	0
South Carolina	5,124,712	7	0
South Dakota	887,770	1	0
Tennessee	6,916,897	9	0
Texas	29,183,290	38	2
Utah	3,275,252	4	0
Vermont	643,503	1	0
Virginia	8,654,542	11	0
Washington	7,715,946	10	0
West Virginia	1,795,045	2	-1
Wisconsin	5,897,473	8	0
Wyoming	577,719	1	0
TOTAL APPORTIONMENT POPULATION <sup>1</sup>	331,108,434	435	

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<sup>2</sup> The U.S. Census Bureau prepared these calculations using the existing size of the U.S. House of Representatives (435 members) and the Method of Equal Proportions, as provided for in Title 2, United States Code, Sections 2a and 2b.

# 2020 Census Apportionment Transmittal to Congress



Administration

BRIEFING ROOM

## Letter to the Speaker of the House and President of the Senate Regarding the Apportionment Population for Each State as of April 1, 2020

APRIL 26, 2021 • STATEMENTS AND RELEASES

Dear Madam Speaker: (Dear Madam President:)

Pursuant to title 2, United States Code, section 2a(a), I transmit herewith the statement showing the apportionment population for each State as of April 1, 2020, and the number of Representatives to which each State would be entitled.

Sincerely,

JOSEPH R. BIDEN JR.

# 2020 Census Apportionment Transmittal to Congress

## Table: Apportionment Population and Number of Representatives by State

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U.S. Census Bureau

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<sup>2</sup> The U.S. Census Bureau prepared these calculations using the existing size of the U.S. House of Representatives (435 members) and the Method of Equal Proportions, as provided for in Title 2, United States Code, Sections 2a and 2b.

# 2020 Census Apportionment Press Conference



# 2020 Census Apportionment Results

# Transmittal Package U.S. Apportionment, U.S. Resident, and U.S. Overseas Populations

**Table 1 - U.S. Apportionment Population (50 States, Excluding DC)**

331,108,434 = 330,759,736 (Resident Pop/no DC) + 348,698 (Overseas Pop/no DC)

**Table 2 - U.S. Resident Population (50 States, plus DC)**

331,449,281

**Table 3 - U.S. Overseas Population (50 States, plus DC)**

350,686

NOTE: The Table 1 U.S. Apportionment Population (which does not include DC but includes the Overseas Population of the 50 states) is less than the Table 2 U.S. Resident Population (which includes DC). For 2020, the Overseas Population of the 50 states (348,698) was about half the size of the DC Population (689,545).



# U.S. Apportionment Population: 2010-2020

U.S. Apportionment Population 50 States, Excluding DC			
2020	2010	Numeric Change	Percent Change
331,108,434	309,183,463	21,924,971	7.1%

Average Number of Persons Per Representative			
2020	2010	Numeric Change	Percent Change
761,169	710,767	50,402	7.1%

# Apportionment: Seat Results

2020 Census			
State	Seats Gained	State	Seats Lost
Texas	2	California	1
Colorado	1	Illinois	1
Florida	1	Michigan	1
Montana	1	New York	1
North Carolina	1	Ohio	1
Oregon	1	Pennsylvania	1
		West Virginia	1
Total shift of 7 seats among 13 states			

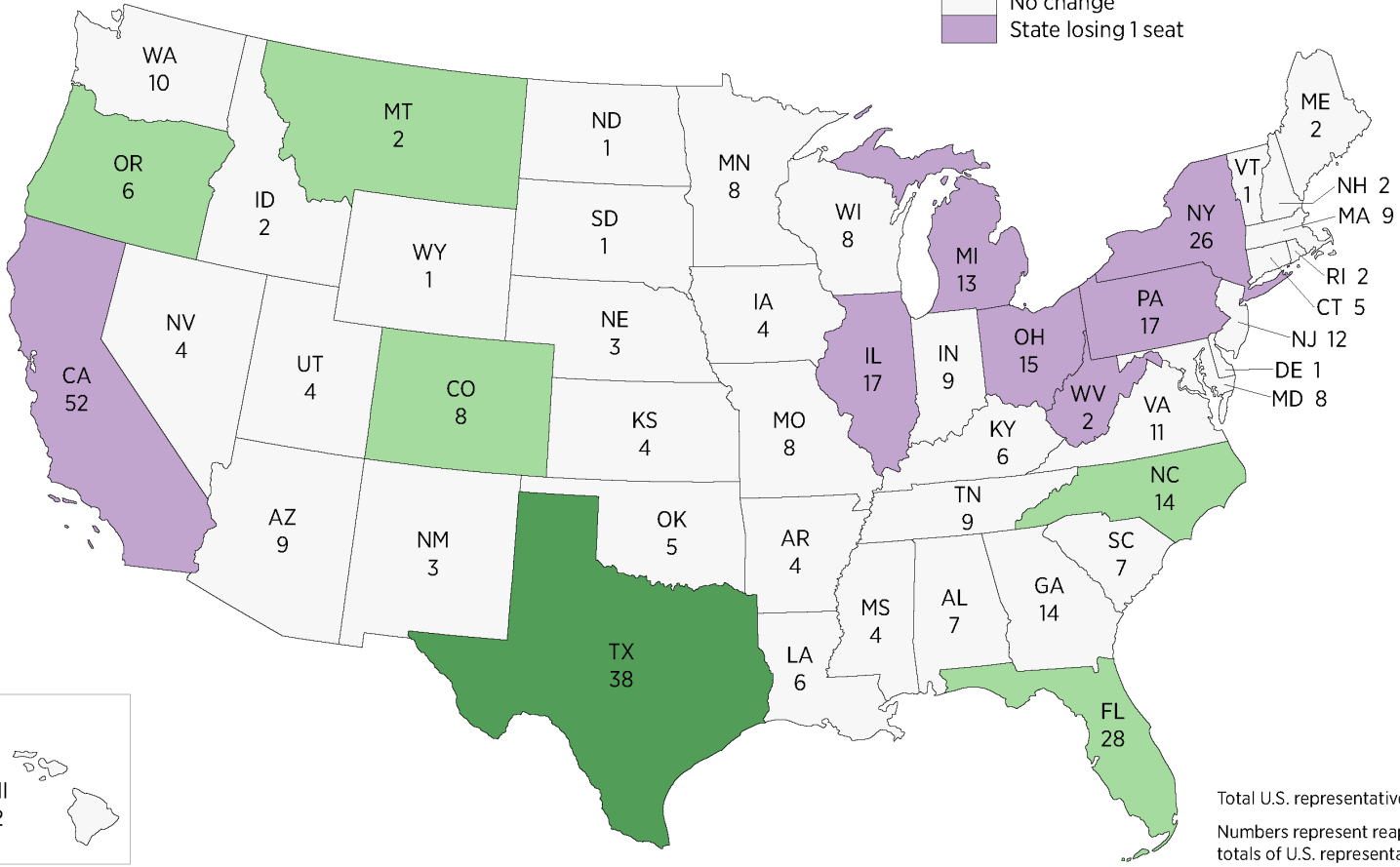
2010 Census			
State	Seats Gained	State	Seats Lost
Texas	4	New York	2
Florida	2	Ohio	2
Arizona	1	Illinois	1
Georgia	1	Iowa	1
Nevada	1	Louisiana	1
South Carolina	1	Massachusetts	1
Utah	1	Michigan	1
Washington	1	Missouri	1
		New Jersey	1
		Pennsylvania	1
Total shift of 12 seats among 18 states			

# Apportionment of the U.S. House of Representatives Based on the 2020 Census



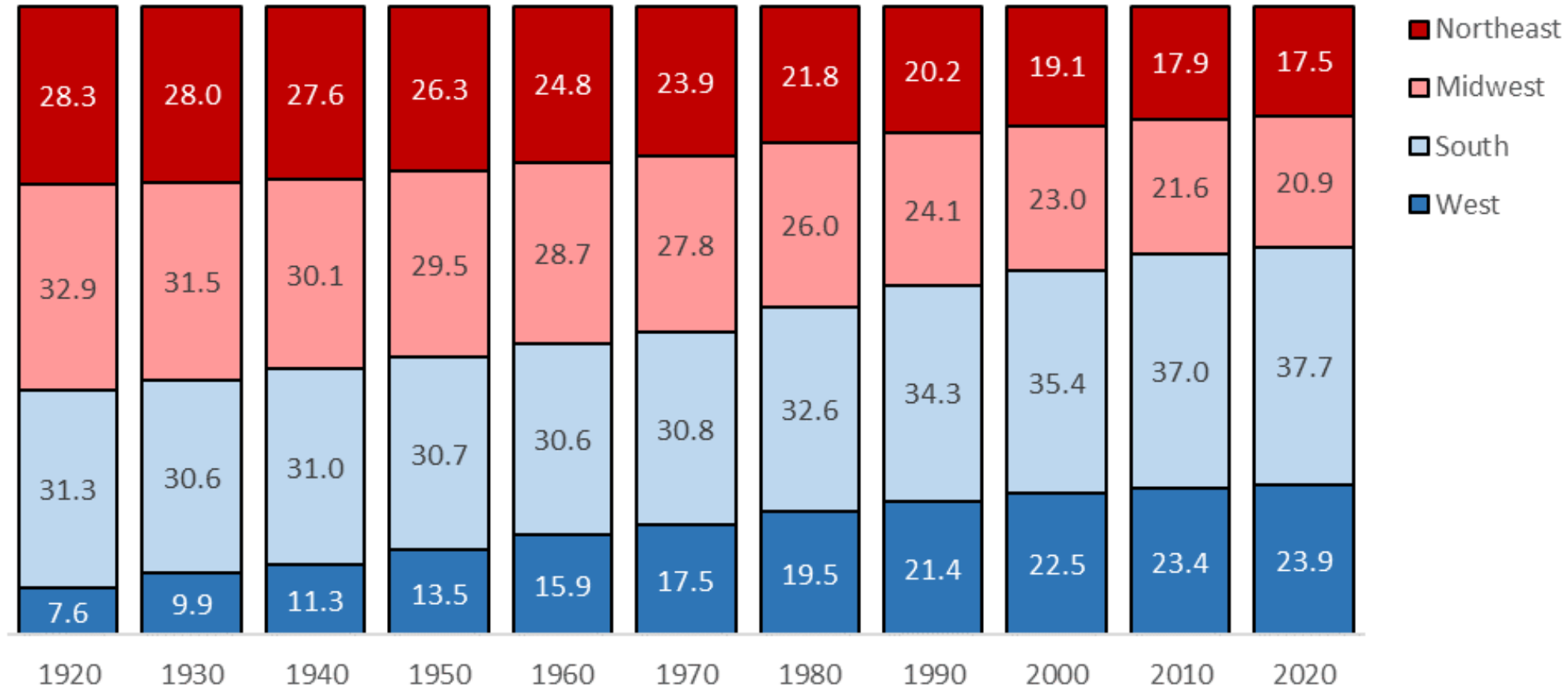
**Change from 2010 to 2020**

- State gaining 2 seats
- State gaining 1 seat
- No change
- State losing 1 seat



Total U.S. representatives: 435  
Numbers represent reapportioned totals of U.S. representatives.

# Percentage Distribution of Seats in the U.S. House of Representatives by Region: 1920 to 2020



# Apportionment: Historical Runner-Up States

Additional Apportionment Population Needed for First Runner-Up State to Gain Another Congressional Seat: 1940 to 2020			
State	Census	State's Next Seat Number	Additional Apportionment Population Needed
Michigan	1940	18	5,692
California	1950	31	16,715
Massachusetts	1960	13	11,436
Oregon	1970	5	231
Indiana	1980	11	7,222
Massachusetts	1990	11	12,606
Utah	2000	4	856
North Carolina	2010	14	15,754
New York	2020	27	89

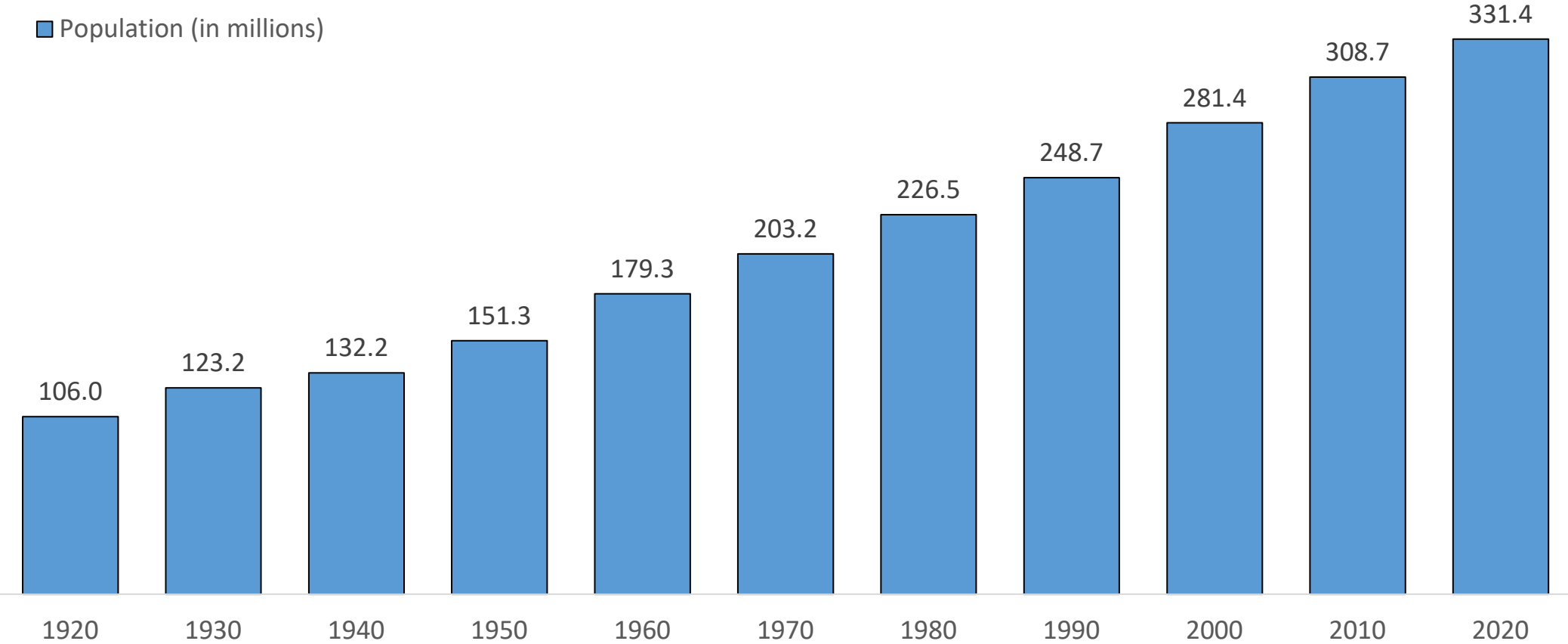
# 2020 Census Resident Population

# Resident Population

- The Resident Population includes all people who were living in the United States (or Puerto Rico) as of Census Day.
- For the 2020 Census, U.S. military and civilian personnel who were deployed overseas were included in the resident population for the first time (using administrative data provided by the Department of Defense).

Area	2020 Census	2010 Census	Numeric Change	Percent Change
United States (50 states & DC)	331,449,281	308,745,538	22,703,743	7.4
Puerto Rico	3,285,874	3,725,789	-439,915	-11.8
United States and Puerto Rico	334,735,155	312,471,327	22,263,828	7.1

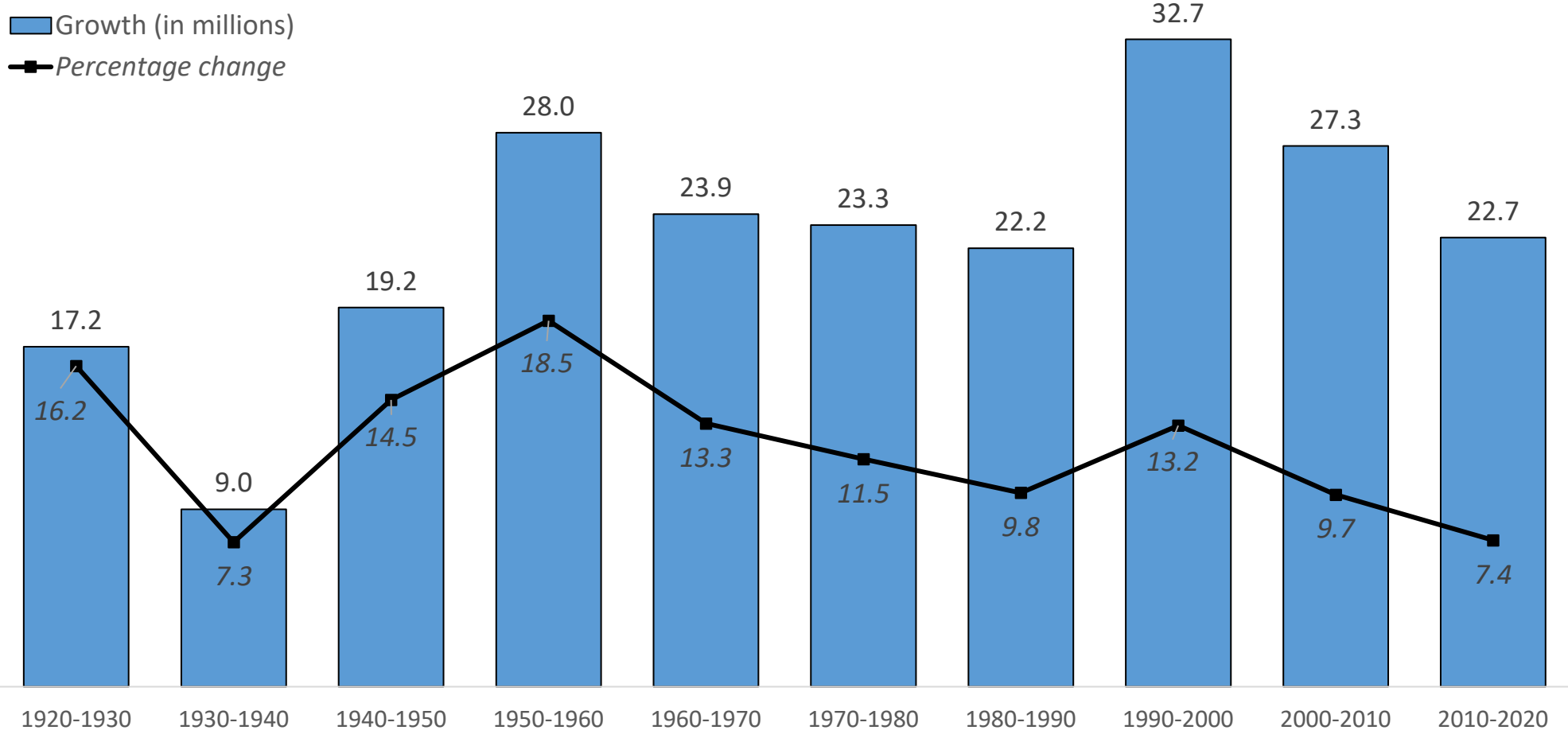
# U.S. Resident Population By Decade: 1920 to 2020



Note: The populations of Alaska and Hawaii are included in the U.S. total for all decades, even though they did not become states until 1959.



# U.S. Resident Population Change By Decade: 1920 to 2020

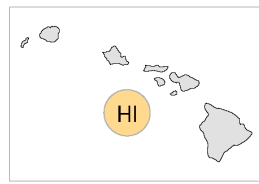
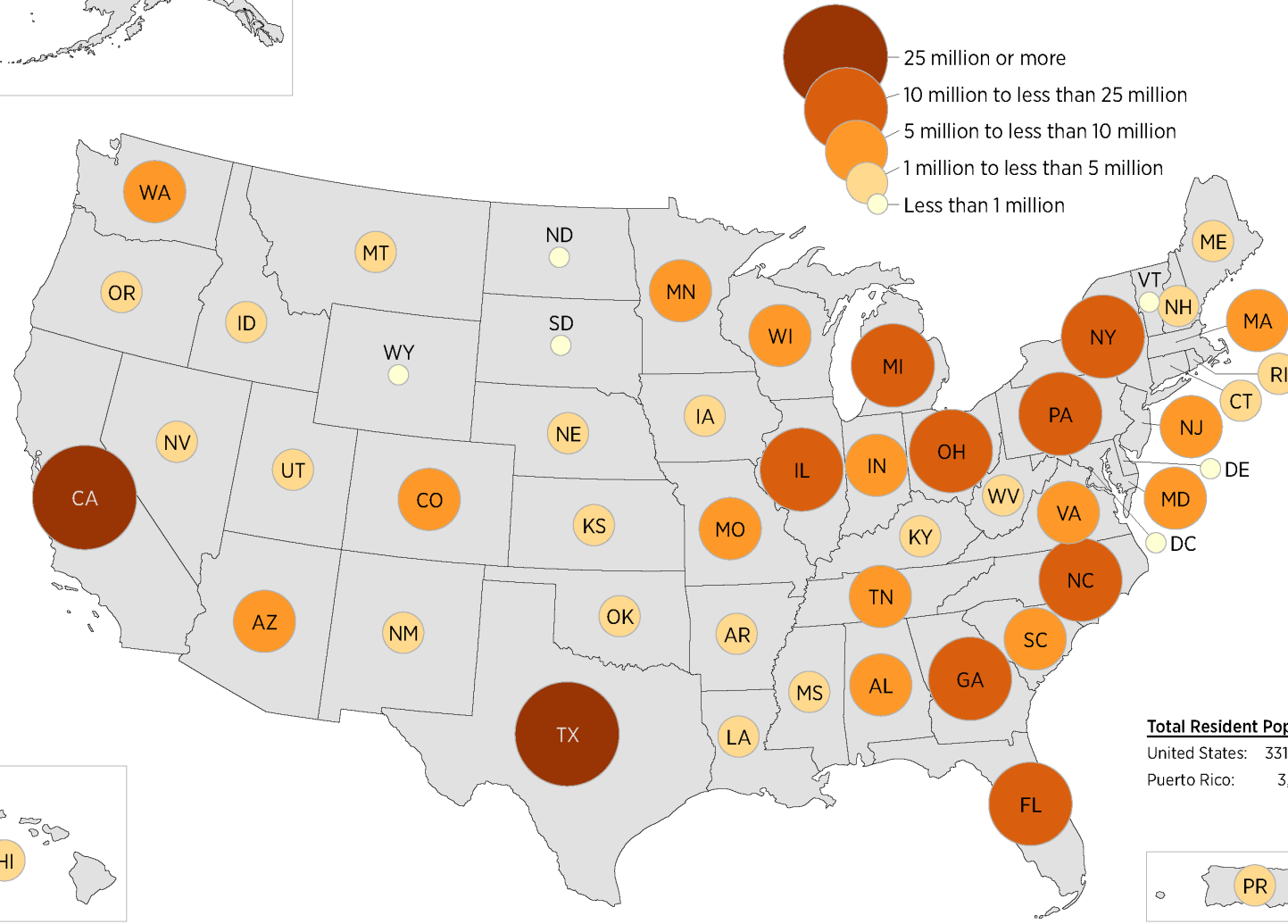


Note: The populations of Alaska and Hawaii are included in the U.S. total for all decades, even though they did not become states until 1959.

# Resident Population: Regions

Region (largest to smallest)	2020 Census	2010 Census	Numeric Change	Percent Change
South	126,266,107	114,555,744	11,710,363	10.2
West	78,588,572	71,945,553	6,643,019	9.2
Midwest	68,985,454	66,927,001	2,058,453	3.1
Northeast	57,609,148	55,317,240	2,291,908	4.1

## 2020 Resident Population for the 50 States, the District of Columbia, and Puerto Rico



# Resident Population: State Size

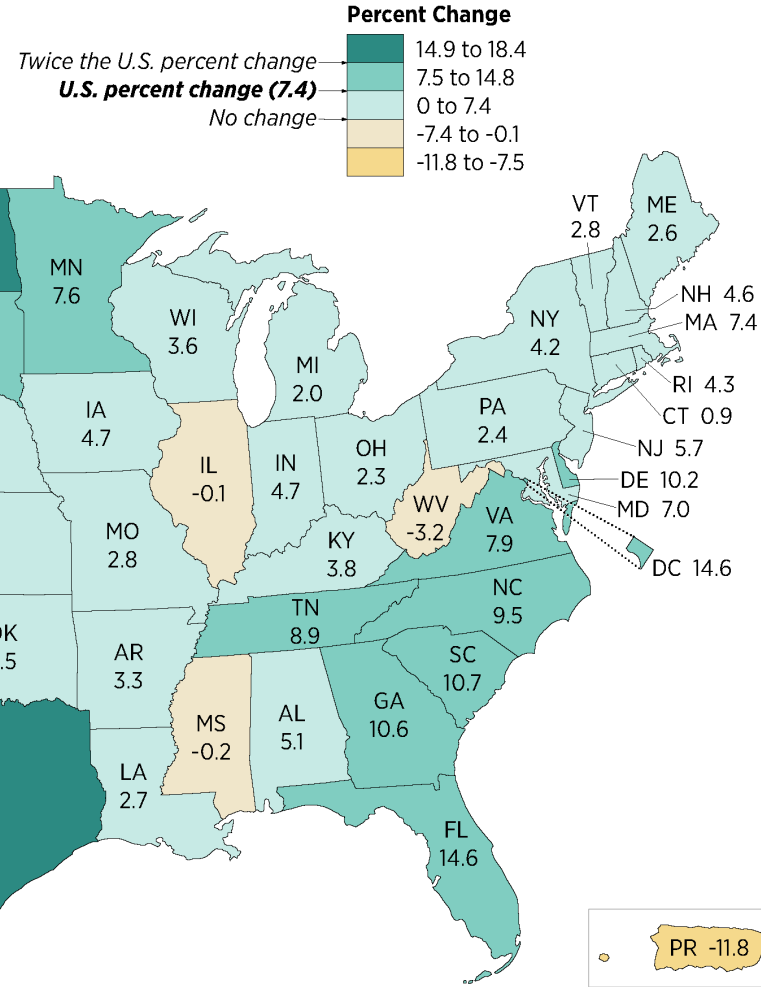
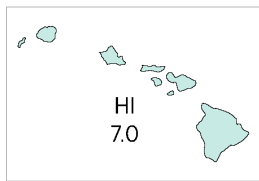
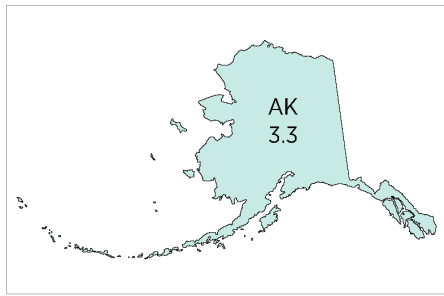
Most Populous States in 2020	
California	39,538,223
Texas	29,145,505
Florida	21,538,187
New York	20,201,249
Pennsylvania	13,002,700

Least Populous States in 2020	
Wyoming	576,851
Vermont	643,077
Alaska	733,391
North Dakota	779,094
South Dakota	886,667

Most Populous States in 2010	
California	37,253,956
Texas	25,145,561
New York	19,378,102
Florida	18,801,310
Illinois	12,830,632

Least Populous States in 2010	
Wyoming	563,626
Vermont	625,741
North Dakota	672,591
Alaska	710,231
South Dakota	814,180

# Percent Change in Resident Population for the 50 States, the District of Columbia, and Puerto Rico: 2010 to 2020



# Resident Population: State Change

Fastest Growing States: 2010-2020		
State	Numeric Change	Percent Change
Utah	507,731	18.4
Idaho	271,524	17.3
Texas	3,999,944	15.9
North Dakota	106,503	15.8
Nevada	404,063	15.0

Fastest Growing States: 2000-2010		
State	Numeric Change	Percent Change
Nevada	702,294	35.1
Arizona	1,261,385	24.6
Utah	530,716	23.8
Idaho	273,629	21.1
Texas	4,293,741	20.6

Slowest Growing States: 2010-2020		
State	Numeric Change	Percent Change
Connecticut	31,847	0.9
Michigan	193,691	2.0
Ohio	262,944	2.3
Wyoming	13,225	2.3
Pennsylvania	300,321	2.4

Slowest Growing States: 2000-2010		
State	Numeric Change	Percent Change
Rhode Island	4,248	0.4
Louisiana	64,396	1.4
Ohio	183,364	1.6
New York	401,645	2.1
West Virginia	44,650	2.5

States that lost population, 2010-2020: West Virginia (-59,278 or -3.2%), Mississippi (-6,018 or -0.2%), and Illinois (-18,124 or -0.1%)

State that lost population, 2000-2010: Michigan (-54,804 or -0.6%)

# 2020 Census Overseas Population

# Overseas Population

- The overseas population includes military and civilian employees of the U.S. government who were stationed or assigned overseas (i.e., outside the 50 states and DC), and their dependents living with them overseas.
  - Also includes personnel deployed overseas (while stationed in the U.S.) who could not be counted in the resident population due to insufficient address data.
- The overseas counts were collected through the Federally Affiliated Count Overseas (FACO) operation. Agencies and departments of the U.S. government provided the Census Bureau with counts of their overseas employees (and their dependents living with them overseas) by their home state based on their administrative records.
- U.S. Total Overseas Population (50 States and DC) was 350,686 for the 2020 Census and 1,042,523 for the 2010 Census.
- Use caution when comparing 2020 overseas counts to 2010 overseas counts because the universe is different.
  - In 2010, all deployed personnel were included in the overseas counts.
  - In 2020, most deployed personnel were included in the resident population.



# Overseas Population: Components

Overseas Population Component	2020 Census	2010 Census
Total Federally Affiliated Overseas Personnel	350,686	1,042,523
Employees	212,512	434,382
Dependents	138,174	608,141
Military Personnel	271,043	1,002,849
Employees	167,828	410,696
Dependents	103,215	592,153
Federal Civilian Personnel	63,683	39,674
Employees	28,724	23,686
Dependents	34,959	15,988
Unmatched Deployed Personnel	15,960	N/A
Military	15,907	N/A
Civilian	53	N/A

# Overseas Population: State Size

Largest Overseas Population in 2020	
California	38,534
Texas	37,785
Florida	32,340
Virginia	23,149
North Carolina	14,560

Smallest Overseas Population in 2020	
Vermont	426
North Dakota	608
Rhode Island	784
Wyoming	868
Delaware	889

Largest Overseas Population in 2010	
Texas	122,857
Florida	99,463
California	88,033
New York	42,953
Georgia	39,913

Smallest Overseas Population in 2010	
Rhode Island	2,680
Delaware	2,943
North Dakota	3,314
Vermont	4,596
Wyoming	4,674

# More information can be found online

- 2020 Census Apportionment Press Kit (Press Conference Video/Transcript, Press Release) – <https://www.census.gov/newsroom/press-kits/2021/2020-census-apportionment-counts.html>
- Congressional Apportionment Website (Background, History, FAQs) – <https://www.census.gov/topics/public-sector/congressional-apportionment.html>
- Tables and Maps Showing 2020 Census Apportionment Results – <https://www.census.gov/data/tables/2020/dec/2020-apportionment-data.html>
- America Counts Story About 2020 Census Apportionment Results – <https://www.census.gov/library/stories/2021/04/2020-census-data-release.html>
- Visualization: Historical Apportionment Data Map (1910-2020) – <https://www.census.gov/library/visualizations/interactive/historical-apportionment-data-map.html>
- Blog: How Apportionment is Calculated – <https://www.census.gov/newsroom/blogs/random-samplings/2021/04/how-apportionment-is-calculated.html>
- Fact Sheet: Apportionment 101 – <https://www.census.gov/library/fact-sheets/2021/apportionment-101.html>
- Video: What is Apportionment? – <https://www.census.gov/library/video/2021/what-is-apportionment.html>