

For Arizona Independent Redistricting Commission

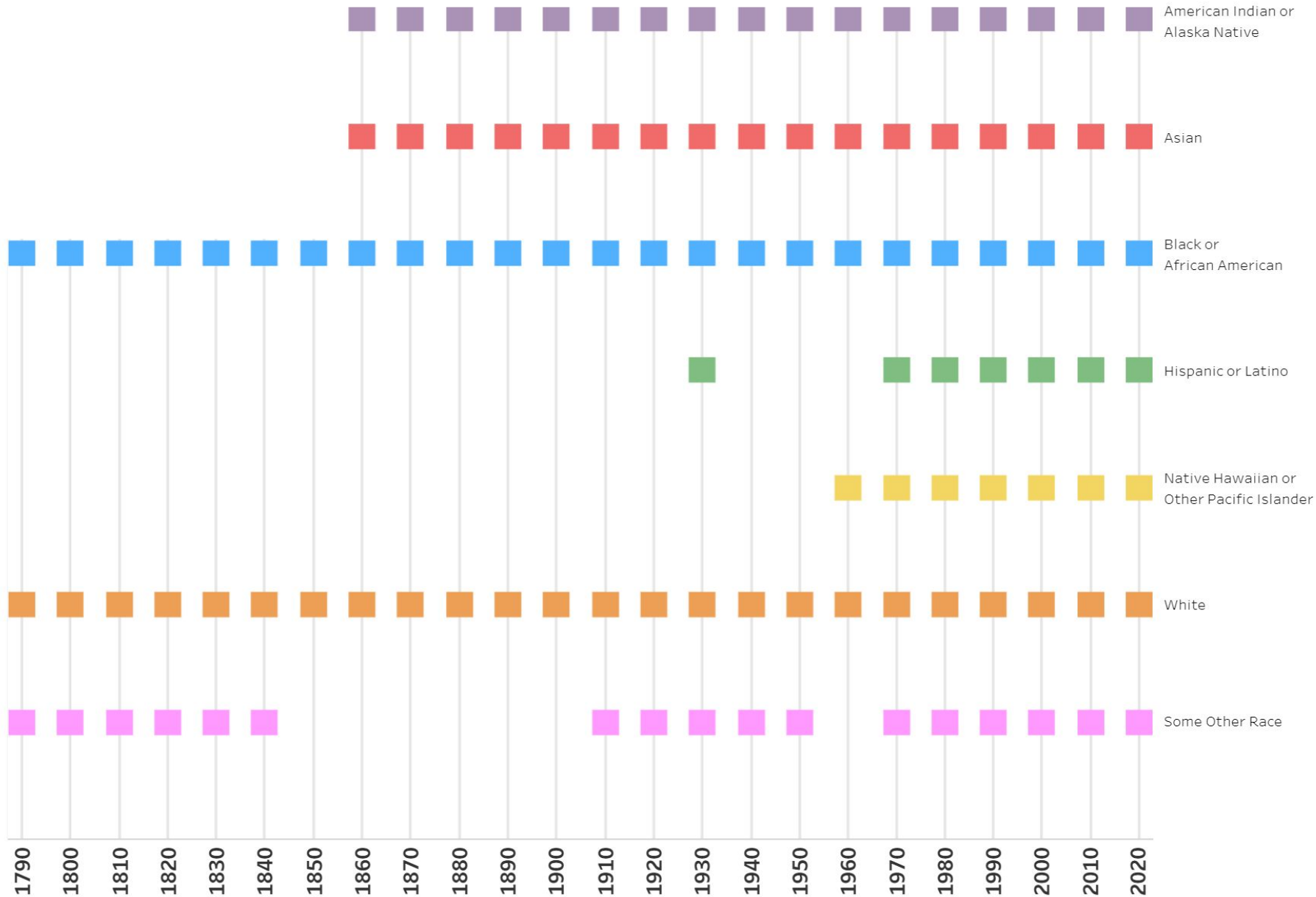
Race and Hispanic Origin in Arizona

Jim Chang, State Demographer

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Census Measurement of Race and Ethnicity



The U.S. Census Bureau has collected data on race since the first census in 1790 and on Hispanic or Latino origin since the 1970 Census. How these topics are measured, and statistics on them are collected and coded, has changed nearly every decade throughout the history of the census, reflecting social, political and economic factors.

U.S. Decennial Census Measurement of Race and Ethnicity Across the Decades:

1790–2020 ([Show it live](#)):

<https://www.census.gov/library/visualizations/interactive/decennial-census-measurement-of-race-and-ethnicity-across-the-decades-1790-2020.html>

Race and Hispanic Origin Questions, Census 2010 and 2020

Census 2010

→ NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

8. Is Person 1 of Hispanic, Latino, or Spanish origin?

- No, not of Hispanic, Latino, or Spanish origin
- Yes, Mexican, Mexican Am., Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, another Hispanic, Latino, or Spanish origin — *Print origin, for example, Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.* ↴

9. What is Person 1's race? Mark one or more boxes.

- White
- Black, African Am., or Negro
- American Indian or Alaska Native — *Print name of enrolled or principal tribe.* ↴

- | | | |
|---|--|--|
| <input type="checkbox"/> Asian Indian | <input type="checkbox"/> Japanese | <input type="checkbox"/> Native Hawaiian |
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Korean | <input type="checkbox"/> Guamanian or Chamorro |
| <input type="checkbox"/> Filipino | <input type="checkbox"/> Vietnamese | <input type="checkbox"/> Samoan |
| <input type="checkbox"/> Other Asian — <i>Print race, for example, Hmong, Laotian, Thai, Pakistani, Cambodian, and so on.</i> ↴ | <input type="checkbox"/> Other Pacific Islander — <i>Print race, for example, Fijian, Tongan, and so on.</i> ↴ | |

- Some other race — *Print race.* ↴

Up to 30 write-in characters were captured in 2010.

Census 2020

→ NOTE: Please answer BOTH Question 8 about Hispanic origin and Question 9 about race. For this census, Hispanic origins are not races.

8. Is Person 1 of Hispanic, Latino, or Spanish origin?

- No, not of Hispanic, Latino, or Spanish origin
- Yes, Mexican, Mexican Am., Chicano
- Yes, Puerto Rican
- Yes, Cuban
- Yes, another Hispanic, Latino, or Spanish origin — *Print, for example, Salvadoran, Dominican, Colombian, Guatemalan, Spaniard, Ecuadorian, etc.* ↴

“The improvements and changes (from 2010 to 2020)

enabled a more thorough and accurate depiction of how people self-identify, yielding a more accurate portrait of how people report their Hispanic origin and race...”

“...differences in the overall racial distributions are largely due to improvements in the design of the two separate questions for race data collection and processing, as well as some demographic changes over the past 10 years.”

(<https://www.census.gov/newsroom/press-releases/2021/population-changes-nations-diversity.html>)

9. What is Person 1's race?

Mark one or more boxes **AND** print origins.

- White — *Print, for example, German, Irish, English, Italian, Lebanese, Egyptian, etc.* ↴

- Black or African Am. — *Print, for example, African American, Jamaican, Haitian, Nigerian, Ethiopian, Somali, etc.* ↴

- American Indian or Alaska Native — *Print name of enrolled or principal tribe(s), for example, Navajo Nation, Blackfeet Tribe, Mayan, Aztec, Native Village of Barrow, Inupiat Traditional Government, Nome Eskimo Community, etc.* ↴

- | | | |
|---------------------------------------|-------------------------------------|--|
| <input type="checkbox"/> Chinese | <input type="checkbox"/> Vietnamese | <input type="checkbox"/> Native Hawaiian |
| <input type="checkbox"/> Filipino | <input type="checkbox"/> Korean | <input type="checkbox"/> Samoan |
| <input type="checkbox"/> Asian Indian | <input type="checkbox"/> Japanese | <input type="checkbox"/> Chamorro |

- Other Asian — *Print, for example, Pakistani, Cambodian, Hmong, etc.* ↴
- Other Pacific Islander — *Print, for example, Tongan, Fijian, Marshallese, etc.* ↴

- Some other race — *Print race or origin.* ↴

Up to 200 write-in characters were captured in 2020.

2010 Race and Hispanic Origin as a Percent of Total Population

County	Total Population	Hispanic or Latino	White alone, not Hispanic or Latino	Black or African American alone, not Hispanic or Latino	American Indian & Alaska Native alone, not Hispanic or Latino	Asian alone or Native Hawaiian & Other Pacific Islander alone, not Hispanic or Latino	Some Other Race alone or Two or More Races, not Hispanic or Latino
Arizona	6,392,017	29.6%	57.8%	3.7%	4.0%	2.8%	1.9%
Apache	71,518	5.8%	20.4%	0.2%	71.8%	0.3%	1.6%
Cochise	131,346	32.4%	58.5%	3.8%	0.8%	2.1%	2.5%
Coconino	134,421	13.5%	55.2%	1.1%	26.5%	1.4%	2.2%
Gila	53,597	17.9%	65.9%	0.4%	14.2%	0.5%	1.1%
Graham	37,220	30.4%	52.3%	1.7%	13.6%	0.7%	1.3%
Greenlee	8,437	47.9%	48.1%	0.9%	1.7%	0.6%	0.9%
La Paz	20,489	23.5%	62.7%	0.6%	10.7%	0.5%	2.0%
Maricopa	3,817,117	29.6%	58.7%	4.6%	1.6%	3.5%	2.0%
Mohave	200,186	14.8%	79.6%	0.9%	1.9%	1.2%	1.7%
Navajo	107,449	10.8%	43.9%	0.8%	42.4%	0.6%	1.6%
Pima	980,263	34.6%	55.3%	3.2%	2.4%	2.6%	2.0%
Pinal	375,770	28.5%	58.7%	4.3%	4.6%	2.0%	1.9%
Santa Cruz	47,420	82.8%	16.0%	0.2%	0.2%	0.5%	0.3%
Yavapai	211,033	13.6%	82.0%	0.5%	1.3%	0.9%	1.7%
Yuma	195,751	59.7%	35.3%	1.6%	1.0%	1.1%	1.2%

2020 Race and Hispanic Origin as a Percent of Total Population

County	Total Population	Hispanic or Latino	White alone, not Hispanic or Latino	Black or African American alone, not Hispanic or Latino	American Indian & Alaska Native alone, not Hispanic or Latino	Asian alone or Native Hawaiian & Other Pacific Islander alone, not Hispanic or Latino	Some Other Race alone or Two or More Races, not Hispanic or Latino
Arizona	7,151,502	30.7%	53.4%	4.4%	3.7%	3.7%	4.2%
Apache	66,021	5.8%	20.9%	0.3%	70.4%	0.5%	2.0%
Cochise	125,447	34.0%	54.4%	3.5%	0.6%	2.4%	5.1%
Coconino	145,101	15.0%	53.0%	1.2%	24.2%	2.0%	4.6%
Gila	53,272	17.4%	61.5%	0.4%	16.2%	0.9%	3.5%
Graham	38,533	29.7%	52.9%	1.2%	13.3%	0.5%	2.4%
Greenlee	9,563	45.8%	46.5%	0.8%	2.9%	0.7%	3.3%
La Paz	16,557	25.3%	54.7%	0.6%	14.2%	0.9%	4.2%
Maricopa	4,420,568	30.6%	53.3%	5.5%	1.5%	4.7%	4.3%
Mohave	213,267	16.0%	75.1%	1.0%	1.9%	1.4%	4.6%
Navajo	106,717	10.2%	42.0%	0.6%	43.6%	0.6%	3.0%
Pima	1,043,433	35.7%	51.5%	3.5%	2.3%	3.0%	4.0%
Pinal	425,264	28.6%	56.4%	4.9%	4.0%	1.7%	4.3%
Santa Cruz	47,669	83.1%	14.9%	0.2%	0.2%	0.6%	0.9%
Yavapai	236,209	14.6%	77.6%	0.6%	1.4%	1.3%	4.5%
Yuma	203,881	63.8%	30.0%	1.7%	0.9%	1.2%	2.4%

2010-2020 Percent Change in Population by Race and Hispanic Origin

County	Total Population	Hispanic or Latino	White alone, not Hispanic or Latino	Black or African American alone, not Hispanic or Latino	American Indian & Alaska Native alone, not Hispanic or Latino	Asian alone or Native Hawaiian & Other Pacific Islander alone, not Hispanic or Latino	Some Other Race alone or Two or More Races, not Hispanic or Latino
Arizona	11.9%	15.7%	3.3%	32.6%	2.5%	45.0%	142.2%
Apache	-7.7%	-6.1%	-5.3%	17.2%	-9.4%	55.5%	21.6%
Cochise	-4.5%	0.2%	-11.1%	-11.4%	-23.0%	7.9%	96.0%
Coconino	7.9%	19.6%	3.6%	18.9%	-1.3%	47.3%	124.5%
Gila	-0.6%	-3.2%	-7.2%	22.6%	13.7%	62.8%	205.4%
Graham	3.5%	1.0%	4.7%	-28.4%	1.4%	-23.6%	97.9%
Greenlee	13.3%	8.3%	9.7%	1.3%	93.7%	40.8%	334.2%
La Paz	-19.2%	-12.7%	-29.5%	-11.3%	7.0%	60.0%	65.3%
Maricopa	15.8%	19.7%	5.2%	38.2%	15.4%	53.7%	148.8%
Mohave	6.5%	15.4%	0.5%	20.3%	6.9%	27.1%	191.1%
Navajo	-0.7%	-5.9%	-5.1%	-20.0%	2.2%	1.0%	87.8%
Pima	6.4%	10.0%	-0.9%	16.7%	0.5%	22.6%	119.1%
Pinal	13.2%	13.6%	8.9%	29.4%	-1.5%	-3.1%	153.7%
Santa Cruz	0.5%	0.9%	-5.9%	28.1%	-32.2%	17.4%	222.6%
Yavapai	11.9%	19.7%	6.0%	28.2%	18.6%	62.9%	202.0%
Yuma	4.2%	11.2%	-11.4%	9.9%	-3.5%	13.0%	98.2%

2010-2020 Percentage Point Change in Race and Hispanic Origin as a Percent of Total Population

County	Total Population	Hispanic or Latino	White alone, not Hispanic or Latino	Black or African American alone, not Hispanic or Latino	American Indian & Alaska Native alone, not Hispanic or Latino	Asian alone or Native Hawaiian & Other Pacific Islander alone, not Hispanic or Latino	Some Other Race alone or Two or More Races, not Hispanic or Latino
Arizona	7,151,502	1.0	-4.4	0.7	-0.3	0.8	2.2
Apache	66,021	0.1	0.5	0.1	-1.4	0.2	0.5
Cochise	125,447	1.6	-4.1	-0.3	-0.1	0.3	2.6
Coconino	145,101	1.5	-2.2	0.1	-2.3	0.5	2.4
Gila	53,272	-0.5	-4.4	0.1	2.0	0.3	2.4
Graham	38,533	-0.8	0.6	-0.5	-0.3	-0.2	1.1
Greenlee	9,563	-2.1	-1.6	-0.1	1.2	0.1	2.4
La Paz	16,557	1.9	-8.0	0.1	3.5	0.5	2.1
Maricopa	4,420,568	1.0	-5.4	0.9	0.0	1.2	2.3
Mohave	213,267	1.2	-4.5	0.1	0.0	0.2	2.9
Navajo	106,717	-0.6	-1.9	-0.2	1.2	0.0	1.4
Pima	1,043,433	1.2	-3.8	0.3	-0.1	0.4	2.1
Pinal	425,264	0.1	-2.2	0.6	-0.6	-0.3	2.4
Santa Cruz	47,669	0.3	-1.0	0.1	-0.1	0.1	0.6
Yavapai	236,209	0.9	-4.4	0.1	0.1	0.4	2.9
Yuma	203,881	4.0	-5.3	0.1	-0.1	0.1	1.1

The previous slide shows that the Hispanic or Latino population grew by 15.7% between 2010 and 2020. However, the Hispanic or Latino population as a proportion of the total population increased by 1 percentage point (from 29.6% in 2010 to 30.7% in 2020). This is how the numbers for all other groups should be interpreted.

2020 Population by Race and Hispanic Origin

County	Total Population	Hispanic or Latino	White alone, not Hispanic or Latino	Black or African American alone, not Hispanic or Latino	American Indian & Alaska Native alone, not Hispanic or Latino	Asian alone or Native Hawaiian & Other Pacific Islander alone, not Hispanic or Latino	Some Other Race alone or Two or More Races, not Hispanic or Latino
Arizona	7,151,502	2,192,253	3,816,547	317,161	263,930	263,160	298,451
Apache	66,021	3,861	13,791	184	46,509	325	1,351
Cochise	125,447	42,615	68,256	4,371	762	3,008	6,435
Coconino	145,101	21,719	76,904	1,777	35,143	2,836	6,722
Gila	53,272	9,283	32,757	239	8,655	472	1,866
Graham	38,533	11,428	20,398	453	5,143	185	926
Greenlee	9,563	4,376	4,446	80	275	69	317
La Paz	16,557	4,197	9,061	102	2,354	152	691
Maricopa	4,420,568	1,351,415	2,357,571	245,239	68,353	207,489	190,501
Mohave	213,267	34,126	160,165	2,063	4,053	2,965	9,895
Navajo	106,717	10,887	44,786	674	46,572	616	3,182
Pima	1,043,433	372,788	536,868	36,254	23,670	31,781	42,072
Pinal	425,264	121,533	240,006	20,712	17,156	7,371	18,486
Santa Cruz	47,669	39,632	7,119	114	78	284	442
Yavapai	236,209	34,390	183,296	1,415	3,319	3,071	10,718
Yuma	203,881	130,003	61,123	3,484	1,888	2,536	4,847

2010 and 2020 Race and Hispanic Origin Data for Other Geographies

OEO has published similar information for these geographies in Arizona:

- Incorporated places (cities and towns);
- Census designated places (CDPs);
- Native American Reservations;
- School districts.

OEO has compiled 2020 block-level data that includes even more variables. The data can be easily aggregated to block group, census tract, and county levels.

Tables and data sets can be downloaded from here:

<https://www.azcommerce.com/oEO/population/2020-census/>

Measure of Racial and Ethnic Diversity

- Diversity Index (DI): The probability that two people chosen at random will be from different race and ethnic groups.

$$DI = 1 - (H^2 + W^2 + B^2 + AIAN^2 + Asian^2 + NHPI^2 + SOR^2 + Multi^2)$$

- Prevalence Rankings: The percentage of the population that falls into the largest racial and ethnic group, second largest group, and third largest group.
- Diffusion Score: The percent of the population that is **not** in the first, second, or third largest racial/ethnic groups combined.

Explore Racial and Ethnic Diversity

The Census Bureau made this mapping tool to help visualize these racial and ethnic diversity measures.

<https://www.census.gov/library/visualizations/interactive/racial-and-ethnic-diversity-in-the-united-states-2010-and-2020-census.html>

Demo the following:

1. Diversity Index Maps: U.S. states and Arizona counties (2010 and 2020);
2. Race and Ethnicity Prevalence Rankings: U.S. states and Arizona Counties; Largest, second largest, third largest groups and diffusion score;
3. Race and Ethnicity Prevalence Maps: U.S. states and Arizona Counties; Largest, second largest, third largest groups;
4. Data Tables: Select Arizona counties.

More Mapping Tool for Smaller Geographies

This ArcGIS mapping tool allows users to explore the Census 2020 redistricting data all the way to the block level.

<https://www.arcgis.com/apps/instant/portfolio/index.html?appid=4cdbe664bc2049378d3a17c923f07824>

Demo the “Predominant Race and Ethnicity” Map.

1. Overview of all Arizona counties;
2. The predominant race and ethnicity of each county and the strength of predominance;
3. Navajo County: compare the area that contains Winslow, Holbrook, Snowflake, Show Low, and Pinetop-Lakeside (predominantly White) with the northern and southern ends of the county (predominantly Native American);
4. Maricopa County: the concentration of Hispanics in the West Valley (west of 19th Ave and south of Northern Ave), south Phoenix, near the airport, and in the central parts of Mesa and Chandler;
5. An area southwest of the Chandler Region Airport: one has to go to the block group and block levels to find an area that is predominantly Asian.
6. Tucson area: Hispanics along the I-10 corridor and south and west of I-10; White, non-Hispanic population in the north and east part of the region.

Race and Hispanic Origin in Arizona

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<https://www.azcommerce.com/oeo/population/>