



2020 Census Data Product Demographic and Housing Characteristics File A (Detailed DHC-A)

PRE-RELEASE WEBINAR

SEPTEMBER 13, 2023

Closed captioning: click on the "cc" button in the lower left corner of the Webex window.

SPEAKERS

- Stacy Gimbel Vidal, Public Information Office
- Rachel Marks, Chief, Racial Statistics Branch, Population Division
- Matthew Spence, Senior Advisor, Disclosure Avoidance, Population Division

AGENDA

- Timing and logistics
- Data product overview
- Data quality and guidance
- Accessing and exploring the data
- Q&A

TIMING AND LOGISTICS

Media Embargo – Tuesday, Sept. 19, 2023

- Begins at 10 a.m. EDT

Public Release – Thursday, Sept. 21, 2023

- Release at 12:01 a.m. EDT
- Tables live on data.census.gov by 10 a.m. EDT

Click the [Embargo Subscribers](#) link on the press kit to request embargo access.

DATA PRODUCT OVERVIEW

Rachel Marks

Chief, Racial Statistics Branch, Population Division

RACE AND ETHNICITY DATA

- Two separate questions
- Dedicated write-in response areas for each major group
 - 55 million write-ins in 2010 Census
 - 350 million write-ins in 2020 Census
- Improved data collection and coding for 2020 Census race and Hispanic origin questions

→ NOTE: Please answer BOTH Question 6 about Hispanic origin and Question 7 about race. For this census, Hispanic origins are not races.

6. Is this person 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.* ↴

7. What is this person'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, Blackfoot 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 |
| <input type="checkbox"/> Other Asian –
<i>Print, for example, Pakistani, Cambodian, Hmong, etc.</i> ↴ | | <input type="checkbox"/> Other Pacific Islander –
<i>Print, for example, Tongan, Fijian, Marshallese, etc.</i> ↴ |

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

GROUPS

- Population counts and sex by age statistics for approximately 1,500 detailed groups.
 - **Detailed racial and ethnic groups (300):** German, Lebanese, Jamaican, Chinese, Native Hawaiian, Mexican, and more!
 - **Detailed American Indian and Alaska Native tribes and villages (1,187):** The Navajo Nation, the Native Village of Fort Yukon, and more!

Find the complete list of groups in the [2020 Census Detailed DHC-A Iterations List](#).

SUBJECTS

- Population counts
- Sex-by-age statistics (number of males and females for certain age categories)

Detail depends on the size of the group and the geographic level.

Total population count and **4** sex by age categories

Under 18
18 to 44
45 to 64
65 and over

Total population count and **9** sex by age categories

Under 5
5 to 17
18 to 24
25 to 34
35 to 44
45 to 54
55 to 64
65 to 74
75 and over

Total population count and **23** sex by age categories

Under 5	45 to 49
5 to 9	50 to 54
10 to 14	55 to 59
15 to 17	60 to 61
18 to 19	62 to 64
20	65 to 66
21	67 to 69
22 to 24	70 to 74
25 to 29	75 to 79
30 to 34	80 to 84
35 to 39	85 and over
40 to 44	

GEOGRAPHY

- Nation
- States
- Counties
- Census tracts
- Places
- American Indian/Alaska Native/Native Hawaiian (AIANNH) areas

DETERMINING THE LEVEL OF DETAIL

- Detailed groups whose national population was less than 50 in the 2010 Census will only receive national- and state-level total population counts and no other data.
- For other groups, we:
 - Infuse a small amount of statistical noise in count.
 - Compare noise-infused count to our population thresholds.
 - Produce tables based on the threshold met for the selected geography.

DETAILED GROUP THRESHOLDS

Level of Detail	Detailed groups	
	Nation and State (MOE = ± 3)	Substate and AIANNH (MOE = ± 11)
Total count only	0–499	22–999
Sex-by-age table – 4 age categories	500–999	1,000–4,999
Sex-by-age table – 9 age categories	1,000–6,999	5,000–19,999
Sex-by-age table – 23 age categories	7,000+	20,000+

Notes:

- The MOE measures disclosure avoidance-related uncertainty at the 95% confidence interval.
- Groups are assigned the sex-by-age table that corresponds to their total population count 99.9% of the time.
- AIANNH is American Indian/Alaska Native/Native Hawaiian areas. Substate includes county, place, and census tract.

Source: U.S. Census Bureau

REGIONAL GROUP THRESHOLDS

- Also available: Regional race and ethnicity groups, such as European, Middle Eastern or North African, Caribbean, Sub-Saharan African, American Indian, Polynesian, South American, etc.

Level of Detail	Regional groups	
	Nation and State (MOE = ±50)	Substate (MOE = ±50)
Total count only	0–4,999	94–4,999
Sex-by-age table – 4 age categories	5,000–19,999	5,000–19,999
Sex-by-age table – 9 age categories	20,000–149,999	20,000–149,999
Sex-by-age table – 23 age categories	150,000+	150,000+

Notes:

- The MOE measures disclosure avoidance-related uncertainty at the 95% confidence interval.
- Groups are assigned the sex-by-age table that corresponds to their total population count 99.9% of the time.
- Regional groups are not available for AIANNH areas except when postprocessing was applied.
- Substate includes county, place, and census tract.

Source: U.S. Census Bureau

MORE GROUPS THAN EVER BEFORE

- More write-in response areas
- Improved code list
- Eliminated minimum for population count at the national or state level
- Reduced minimum for population count at county, place, census tract, and AIANNH area levels

More info: [Detailed Race and Ethnicity Crosswalk: 2010 to 2020](#)

RACE AND ETHNICITY CONCEPTS

In addition to providing data for Hispanic origin groups, data will be available for the race *alone* and race *alone or in any combination* populations.

- **Race *alone***
 - The minimum number of people who identified as that group.
 - Includes people who reported only one response.
- **Race *alone or in any combination***
 - The maximum number of people who identified as that group.
 - Includes people who reported only one response AND those who reported multiple responses.

DATA QUALITY AND GUIDANCE

Matthew Spence

Senior Advisor, Disclosure Avoidance, Population
Division

ACCURACY

- We are using a stronger system to protect your 2020 Census information against today's cyberthreats while maximizing the utility and relevance of the statistics we publish.
- An algorithm infuses noise – small, random additions or subtractions – in the statistics.
- We set accuracy targets – margins of error (MOE) – for how much disclosure avoidance-related uncertainty would be in the published statistics.
- The MOE can be thought of as how close we can expect the noise-infused counts to be to the enumerated counts approximately 95% of the time.

DETAILED GROUP THRESHOLDS

Level of Detail	Detailed groups	
	Nation and State (MOE = ± 3)	Substate and AIANNH (MOE = ± 11)
Total count only	0–499	22–999
Sex-by-age table – 4 age categories	500–999	1,000–4,999
Sex-by-age table – 9 age categories	1,000–6,999	5,000–19,999
Sex-by-age table – 23 age categories	7,000+	20,000+

Notes:

- The MOE measures disclosure avoidance-related uncertainty at the 95% confidence interval.
- Groups are assigned the sex-by-age table that corresponds to their total population count 99.9% of the time.
- AIANNH is American Indian/Alaska Native/Native Hawaiian areas. Substate includes county, place, and census tract.

Source: U.S. Census Bureau

DATA AVAILABILITY AND SUPPRESSION

- Substantial increase in the number of population counts being published relative to the 2010 Census, where groups had to have a population of least 100 nationally to be included in tabulations.
- Some data suppression to ensure demographic reasonableness:
 - Minimum population threshold for sub-state and AIANNH geographies to prevent the infused noise from disclosure avoidance making it look like populations exist in areas where they do not.
 - Suppressed cases where a noise-infused count fell below zero.
 - Suppressed the *alone* count in areas where the *alone* population count for a group was greater than its noise-infused *alone or in any combination* population count for that area.
- Suppression is specific to a particular geographic area and does not apply to an entire geographic level.

CREATING CUSTOM AGGREGATIONS

- Use caution when creating custom aggregations.
- To create counts for a custom geography, remove or add as few geographies as possible.
- To create custom counts using age data, collapse as few categories as possible.

CUSTOM AGGREGATION EXAMPLE WHERE ADDING IS BETTER

Goal: Create a count of the Samoan alone population for the Pacific West states.

✓ Do:

Add the Samoan alone counts for:

- Alaska
- California
- Hawaii
- Oregon
- Washington

X Don't:

Subtract Samoan alone counts of the 45 other states and Washington, D.C., from the national Samoan alone count

CUSTOM AGGREGATION EXAMPLE WHERE SUBTRACTING IS BETTER

Goal: Create a count of the Mexican population for the 10 Arizona counties that are majority urban.

✓ Do:

Subtract the five counties that aren't urban (Apache, Graham, Greenlee, Navajo, and Santa Cruz) from the Arizona state total Mexican population

X Don't:

Add together the Mexican population for the 10 majority urban counties.

CUSTOM AGGREGATION EXAMPLE – AGE CATEGORIES

Goal: Compare two groups that have different published age categories – one has nine age categories, and one has 23.

✓ Do:

Collapse the table with 23 age categories into nine.

X Don't:

Collapse both tables into four age categories or other custom categories.

CALCULATING PERCENTAGES

Characteristic	To calculate the percentage of...	Use...as the denominator	Source of denominator
Race (White, Black or African American, etc.)	The Asian alone population that is Korean alone at the national level.	The total Asian alone population in the United States (19,886,049).	2020 Census Redistricting Data (P.L. 94-171) Summary File.
Hispanic or Latino origin	People of Hispanic or Latino origin who are Salvadoran in Washington, DC.	The total Hispanic or Latino origin population in Washington, D.C. (77,652).	2020 Census Redistricting Data (P.L. 94-171) Summary File.
Geography (California; Harris County, TX; etc.)	The population of Honolulu County, HI, that is Native Hawaiian alone or in any combination.	The total population of Honolulu County, HI (1,016,508).	2020 Census Redistricting Data (P.L. 94-171) Summary File.
Regional group (European, Caribbean, etc.)	The Sub-Saharan African alone or in any combination population that is Beninese alone.	The Sub-Saharan African alone or in any combination population.	2020 Census Detailed DHC-A.

MAKING COMPARISONS

- Consider improvements to code list
 - Blog: [What You Should Know About the Upcoming Detailed Demographic and Housing Characteristics File A](#)
 - [2020 Census Hispanic Origin and Race Code List](#)
 - [Detailed Race and Ethnicity Crosswalk: 2010 to 2020](#)
- Use caution when comparing 2020 Census detailed Asian, NHPI and AIAN race data with 2019 or earlier American Community Survey (ACS) data.
 - Improvements were implemented in the ACS in 2020.
- Use caution when comparing ACS ancestry data and Detailed DHC-A data because of the different methodologies.
 - The detailed groups classified as White, Black or African American, and Some Other Race available in the 2020 Census Detailed DHC-A have historically been tabulated from the [ancestry](#) question in the ACS.
 - More details: Technical Documentation (*coming soon*)
- The 2020 Census detailed Hispanic origin data from the ethnicity question **are** comparable with the 2010 Census and with the ACS regardless of data year.

ACCESSING AND EXPLORING THE DATA

Stacy Gimbel Vidal

Editorial Content Advisor, Public Information Office

TECHNICAL RESOURCES

- Technical documentation (*coming by Sept. 21*)
- 2020 Census Detailed DHC-A Iterations List
- 2020 Census Hispanic Origin and Race Code List
- Detailed Race and Ethnicity Crosswalk: 2010 to 2020

The final three items are available now from the press kit.

DATA VISUALIZATION

- Maps the largest and second largest detailed groups by state and county.
- Provides ranking lists of detailed groups by racial or ethnic group and by geography.
- Data Gem video demonstrates how to use the data visualization.

Availability:

- *Embargo: Screenshots of the data visualization*
- *Public release: The full data visualization and the Data Gem video*

AMERICA COUNTS STORIES

- Release Day (and embargo):
 - Overview of Race and Ethnicity
 - Detailed Asian population
 - Detailed Native Hawaiian and Other Pacific Islander population
 - Detailed Middle Eastern and North African population
- Weekly through October:
 - Detailed Hispanic or Latino population
 - Detailed American Indian and Alaska Native population
 - Detailed White population
 - Detailed Black or African American population
 - Detailed Some Other Race population

BLOGS

- What You Should Know About the Upcoming Detailed Demographic and Housing Characteristics File A (*available today*)
- Data Quality for Detailed Race and Ethnicity Groups and American Indian and Alaska Native Tribes and Villages in the 2020 Census (*Sept. 21*)
- Understanding Counts of Afro-Latino Responses in the 2020 Census (*embargo; Sept. 21*)

TUTORIALS

- How-to guides and short video tutorials on accessing the Detailed DHC-A data on data.census.gov (*available with embargo*)
 - A group will have a max of two tables **with data** per geography. If search results show more than two tables, the other tables will say data aren't available (for those tables).
- Webinar post-release

Finding 2020 Detailed Demographic and Housing Characteristics File A Data on data.census.gov
Monday, September 25, 2023
2-3 p.m. ET

<https://www.census.gov/data/academy/webinars/2023/finding-2020-detailed-dhc.html>
- Technical documentation also provides tips

RECAP: TIMING AND LOGISTICS

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Q&A

- Subject matter experts:
 - Race: Rachel Marks and Roberto Ramirez
 - Hispanic origin: Merarys Ríos and Jessica Peña
 - Disclosure avoidance: Matthew Spence and Michael Hawes
 - Geography: Vincent Osier and Allison Shafer

For Further Information

Media

Public Information Office

pio@census.gov

301-763-3030 or

877-861-2010 (U.S. and Canada only)

Non-Media

Customer Service Center

1-800-923-8282 or 301-763-INFO (4636)

OTHER DATA SETS

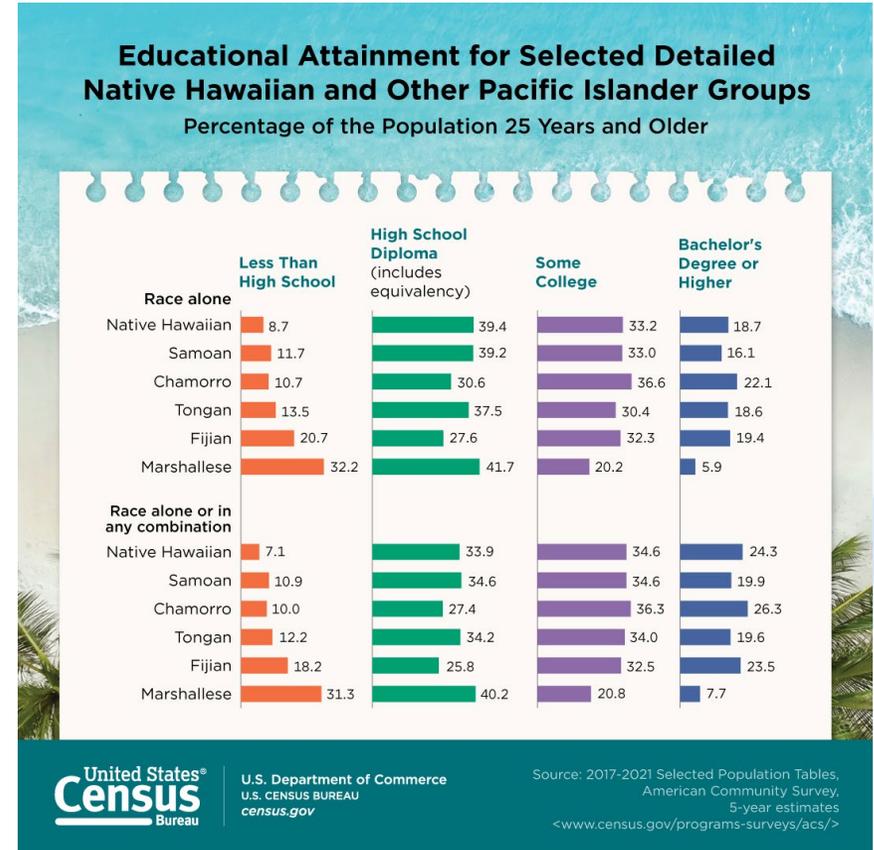
- **Race, Ethnicity, Ancestry and American Indian & Alaska Native Tables**

- Released: June 15, 2023
- <https://www.census.gov/newsroom/press-kits/2023/selected-population-aian-tables.html>

- **2022 American Community Survey 1-year estimates**

- Embargo began Sept. 12; public release Sept. 14
- <https://www.census.gov/newsroom/press-kits/2023/acs-1-year-estimates.html>

Fact Sheet: [Differences Among Demographic Data Releases](#)



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Press Kit

[census.gov/newsroom/press-kits/2023/2020-detailed-dhc-file-a.html](https://www.census.gov/newsroom/press-kits/2023/2020-detailed-dhc-file-a.html)

Source Us

U.S. Census Bureau, 2020 Census Detailed Demographic and Housing Characteristics File A

DATA DISSEMINATION AND TRAINING

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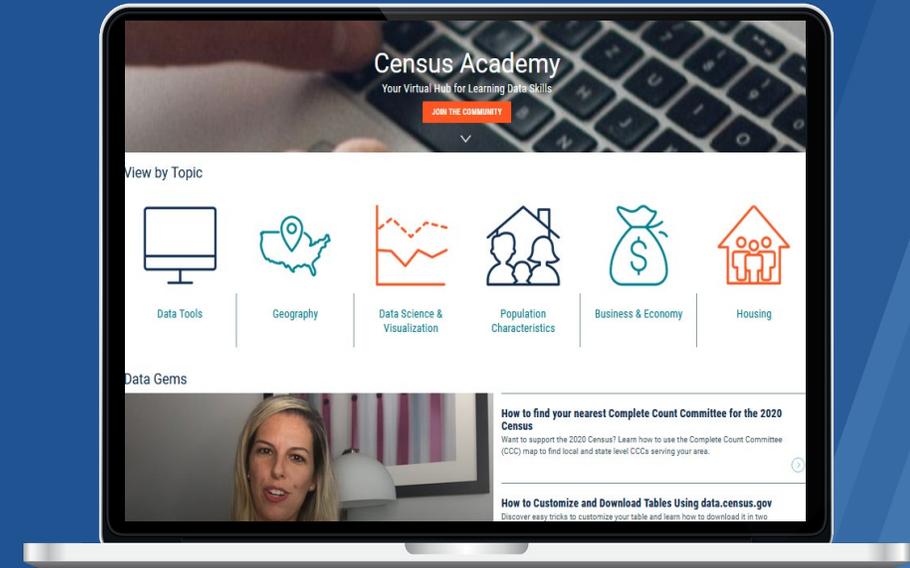
You will learn-at-your-own-pace with these video-tutorials designed for different skill levels.

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