



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

PRERELEASE WEBINAR

JULY 23, 2024

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

SPEAKERS

- Stacy Gimbel Vidal, Public Information Office
- Alexandra Krause, Population Division
- Stephanie Galvin, Social, Economic and Household Statistics Division
- Evan Brassell, Social, Economic and Household Statistics 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, July 30, 2024

- Begins at 10 a.m. EDT

Public Release – Thursday, August 1, 2024

- 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

KEY POINTS

- Data about households
- Detailed race and ethnicity groups and American Indian and Alaska Native tribes and villages
- Household information:
 - Household type (ex. family and nonfamily households)
 - Tenure (whether home is owned or rented)
- Amount information available depends on the size of the group and the geography.

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 Hispanic Origin and Race Iterations List](#).

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.

RACE AND ETHNICITY: 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-B 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-B 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.

GEOGRAPHY

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

DETERMINING THE LEVEL OF DETAIL

- Detailed group's total population count determines how much data they receive for a given geography
 - Larger populations receive more granular statistics
 - Smaller populations receive less granular statistics
- Advantageous because it results in acceptable error for detailed groups
 - The same level of noise is infused for all detailed groups, regardless of size, for a given geographic level

SUBJECT: HOUSEHOLD TYPE

Family households – contain at least one household member who is related to the householder by birth, marriage or adoption

Nonfamily households – contain one person or two or more people, none of whom are related to the householder by birth, marriage or adoption

6. What is Person 1's sex? Mark ONE box.

- Male Female

3. How is this person related to Person 1? Mark ONE box.

- | | |
|---|--|
| <input type="checkbox"/> Opposite-sex husband/wife/spouse | <input type="checkbox"/> Father or mother |
| <input type="checkbox"/> Opposite-sex unmarried partner | <input type="checkbox"/> Grandchild |
| <input type="checkbox"/> Same-sex husband/wife/spouse | <input type="checkbox"/> Parent-in-law |
| <input type="checkbox"/> Same-sex unmarried partner | <input type="checkbox"/> Son-in-law or daughter-in-law |
| <input type="checkbox"/> Biological son or daughter | <input type="checkbox"/> Other relative |
| <input type="checkbox"/> Adopted son or daughter | <input type="checkbox"/> Roommate or housemate |
| <input type="checkbox"/> Stepson or stepdaughter | <input type="checkbox"/> Foster child |
| <input type="checkbox"/> Brother or sister | <input type="checkbox"/> Other nonrelative |

HOUSEHOLD TYPE POPULATION THRESHOLDS

Each detailed group receives one of four tables based on their Detailed DHC-A population size for the geography.

Population size by geography

National or state level:

County, tract, place, or
American Indian Area/Alaska
Native Area/Hawaiian Home
Land Area level:

Available table

0-470 people	471-970 people	971-6,970 people	6,971+ people
22-970 people	971-4,970 people	4,971-19,970 people	19,971+ people
UNIVERSE Total Household Count	2 categories Total Household Count Family households Nonfamily households	6 categories Total Household Count Family households Married couple family Other family Nonfamily households Householder living alone Householder not living alone	8 categories Total Household Count Family households Married couple family Other family Male householder, no spouse present Female householder, no spouse present Nonfamily households Householder living alone Householder not living alone

HOUSEHOLD TYPE: COMPARISONS TO 2010 CENSUS

- Inclusion of same-sex couples

2010

Same-sex married couples

If no children or other relatives present – edited and shown as unmarried partners and included in nonfamily households.

2020

Same-sex married couples

Included in estimates of families because they are married couples.

HOUSEHOLD TYPE: COMPARISONS TO 2010 CENSUS

- Updated labels

2010

husband-wife families

male householder, no wife
present

female householder, no husband
present

2020

→ married couple families

→ male householder, no spouse
present

→ female householder, no spouse
present

SUBJECT: TENURE

- Whether the home is owned or rented

3. Is this house, apartment, or mobile home — Mark **ONE** box.

- Owned by you or someone in this household with a mortgage or loan? *Include home equity loans.*
- Owned by you or someone in this household free and clear (without a mortgage or loan)?
- Rented?
- Occupied without payment of rent?

TENURE POPULATION THRESHOLDS

Each detailed group receives one of two tables based on their Detailed DHC-A population size for the geography.

Population size by geography

National or state level:

County, tract, place, or
American Indian Area/Alaska
Native Area/Hawaiian Home
Land Area level:

Available table

0-470 people	471-970 people	971-6,970 people	6,971+ people
22-970 people	971-4,970 people	4,971-19,970 people	19,971+ people
UNIVERSE Total Occupied Housing Unit Count	3 categories Total Occupied Housing Unit Count Owned with a mortgage or loan Owned free and clear Renter occupied	3 categories Total Occupied Housing Unit Count Owned with a mortgage or loan Owned free and clear Renter occupied	3 categories Total Occupied Housing Unit Count Owned with a mortgage or loan Owned free and clear Renter occupied

TENURE: COMPARISONS TO 2010

- No major changes to housing questions from 2010.
- Housing data are generally comparable to the 2010 Census and the American Community Survey (ACS).

SUMMARY THRESHOLDS

Detailed DHC-A Total Population Count for Detailed Groups

Nation and State	or	Sub-State and AIANNH
0-470 people		22-970 people
471-970 people		971-4,970 people
971-6,970 people		4,971-19,970 people
6,971+ people		19,971+ people



Detailed DHC-B Table

Household Type (Universe)	+	Tenure (Universe)
Household Type (2 Categories)	+	Tenure (3 Categories)
Household Type (6 Categories)	+	Tenure (3 Categories)
Household Type (8 Categories)	+	Tenure (3 Categories)

DATA QUALITY AND GUIDANCE

ADVANTAGES OF ADAPTIVE DESIGN

- The same level of noise is infused for all detailed groups, regardless of size, for a given geographic level.
- Smaller groups get fewer lines of data, so the noise has a smaller impact on accuracy.
- This approach helps provide accuracy for all groups, regardless of size.

NOISE INFUSION FOR DETAILED GROUPS: HOUSEHOLD TYPE

Household Type (8 Categories)			Noise added to collected count	
Universe: Households			Nation and State	Sub-State and AIANNH
Total:				
	Family households			
		Married couple family	+/- 3	+/- 11
		Other family		
		Male Householder, no spouse present	+/-3	+/-11
		Female Householder, no spouse present	+/-3	+/-11
	Nonfamily households:			
		Householder living alone	+/-3	+/-11
		Householder not living alone	+/-3	+/-11

NOISE INFUSION FOR DETAILED GROUPS: TENURE

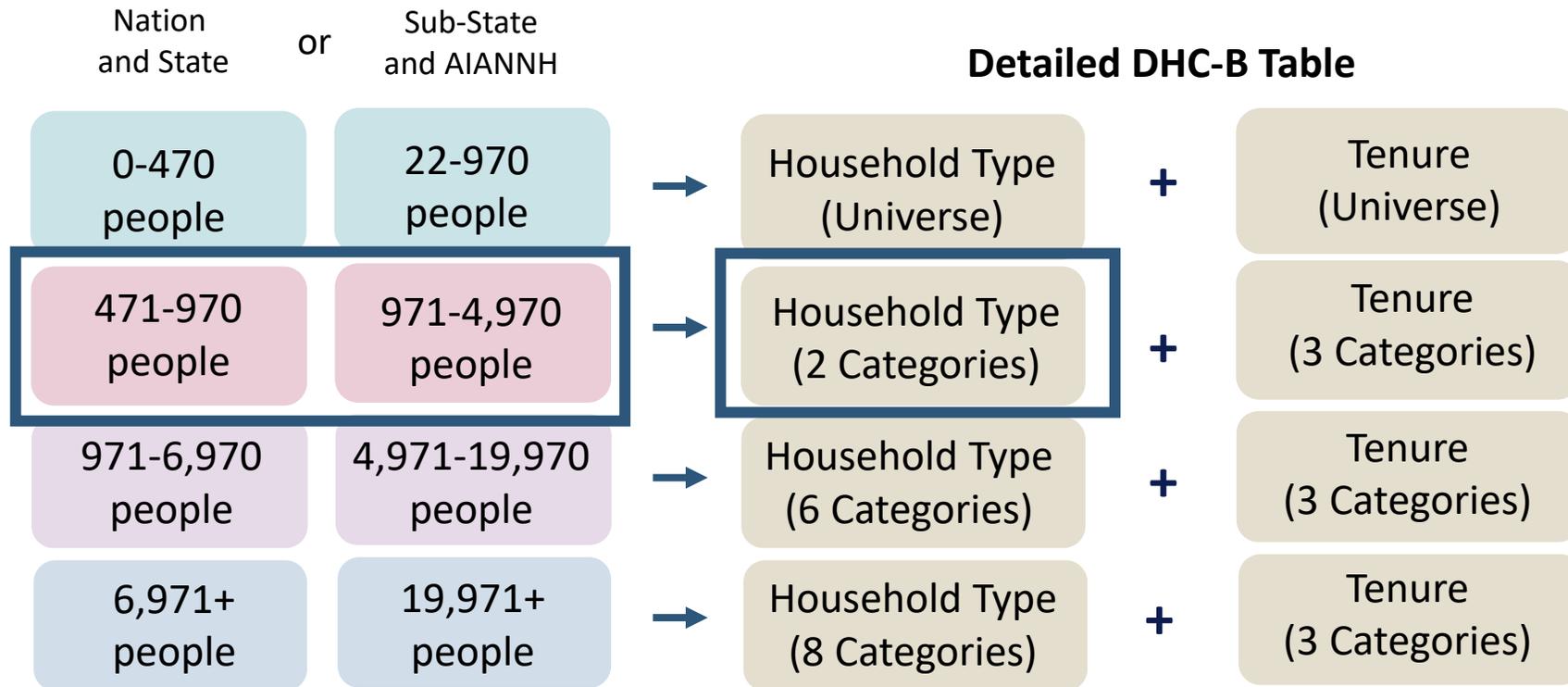
Tenure (3 categories)		Noise added to collected count	
Universe: Occupied housing units		Nation and State	Sub-State and AIANNH
Total:			
	Owned with a mortgage or loan	+/-3	+/-11
	Owned free and clear	+/-3	+/-11
	Renter occupied	+/-3	+/-11

TOTAL HOUSEHOLDS

- Both household type and tenure tables include a count of households
 - Tenure calls it “occupied housing units”
- Expect inconsistency because statistical noise is added to tables separately
- Choose the table with the fewest categories
 - Total = sum of the categories
 - Fewer categories means less accumulated noise
 - Universe-only tables have about the same level of accuracy

CHOOSING WHICH HOUSEHOLD COUNT TO USE

Detailed DHC-A Total Population Count for Detailed Groups



Choose the available table with the fewest categories.

CHOOSING WHICH HOUSEHOLD COUNT TO USE

Detailed DHC-A Total Population Count for Detailed Groups

Nation and State	or	Sub-State and AIANNH
0-470 people		22-970 people
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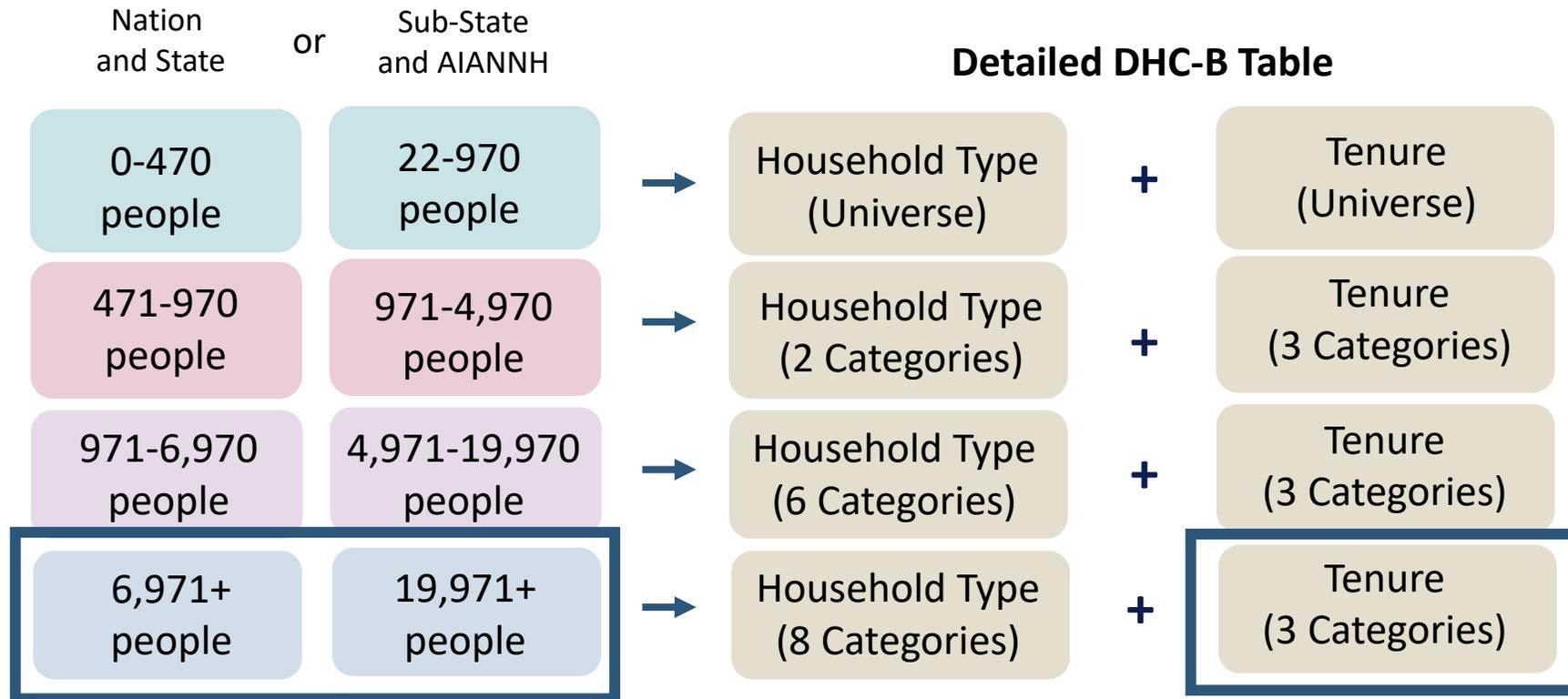
Detailed DHC-B Table

Household Type (Universe)	+	Tenure (Universe)
Household Type (2 Categories)	+	Tenure (3 Categories)
Household Type (6 Categories)	+	Tenure (3 Categories)
Household Type (8 Categories)	+	Tenure (3 Categories)

Choose the available table with the fewest categories.

CHOOSING WHICH HOUSEHOLD COUNT TO USE

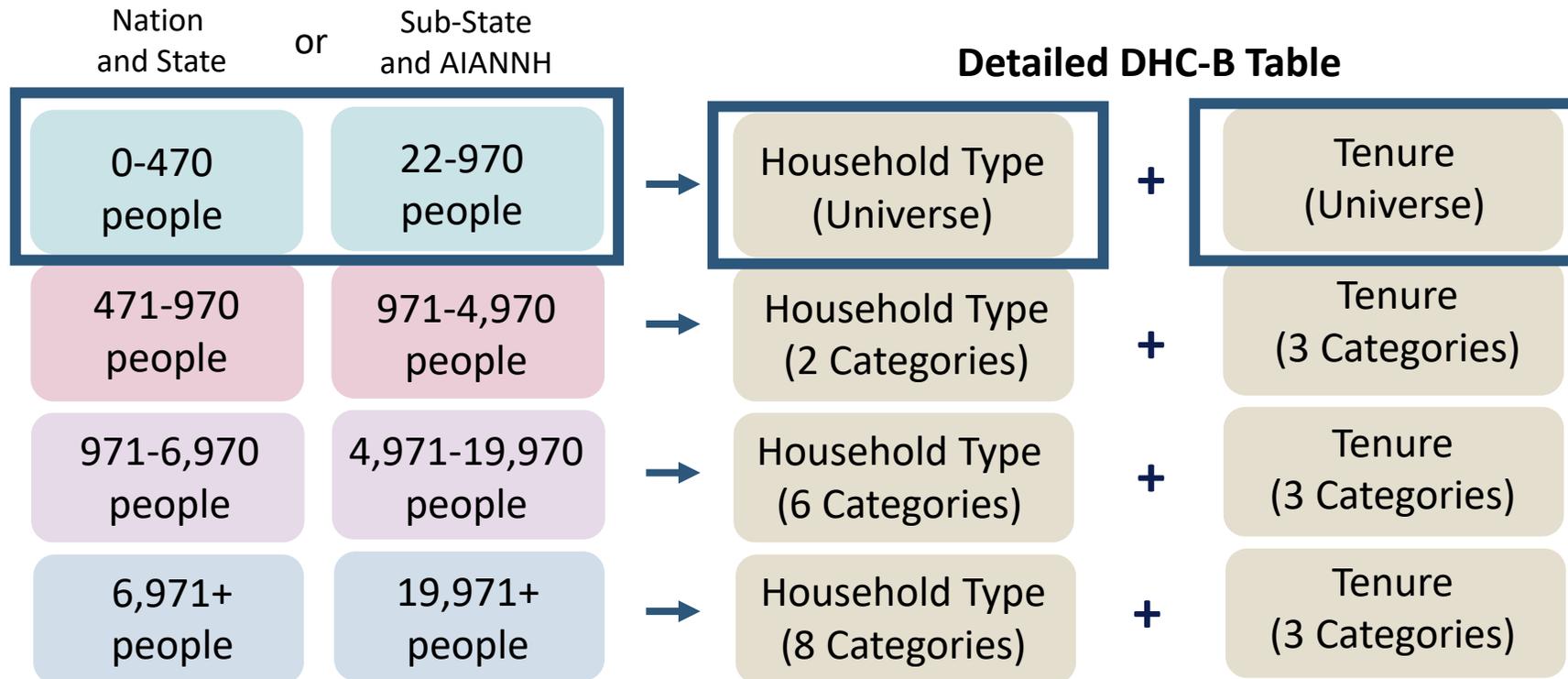
Detailed DHC-A Total Population Count for Detailed Groups



Choose the available table with the fewest categories.

CHOOSING WHICH HOUSEHOLD COUNT TO USE

Detailed DHC-A Total Population Count for Detailed Groups



The universe tables have about the same level of accuracy.

OTHER EXAMPLE INCONSISTENCIES

- Aggregating geographies and groups likely won't match the published count.
- There may be more households for some groups in the Detailed DHC-B than there are people in those groups in the Detailed DHC-A.
- Adding up the detailed household counts in the Detailed DHC-B, won't match the major race or ethnicity group in the Redistricting Data (P.L. 94-171) Summary File or the Demographic and Housing Characteristics File (DHC).

GUIDANCE

X Don't:

- Try to calculate average people per household using the Detailed DHC-B and Detailed DHC-A (which contains group quarters).
- Infer missing data by adding or subtracting published data.

GUIDANCE

✓ Do:

- Use the total household count from the table with the fewest categories.
- Use the published counts for the groups and geographies whenever possible, rather than creating custom aggregations.
- Aggregate the smallest number of items possible.

ACCESSING AND EXPLORING THE DATA

DATA RESOURCES

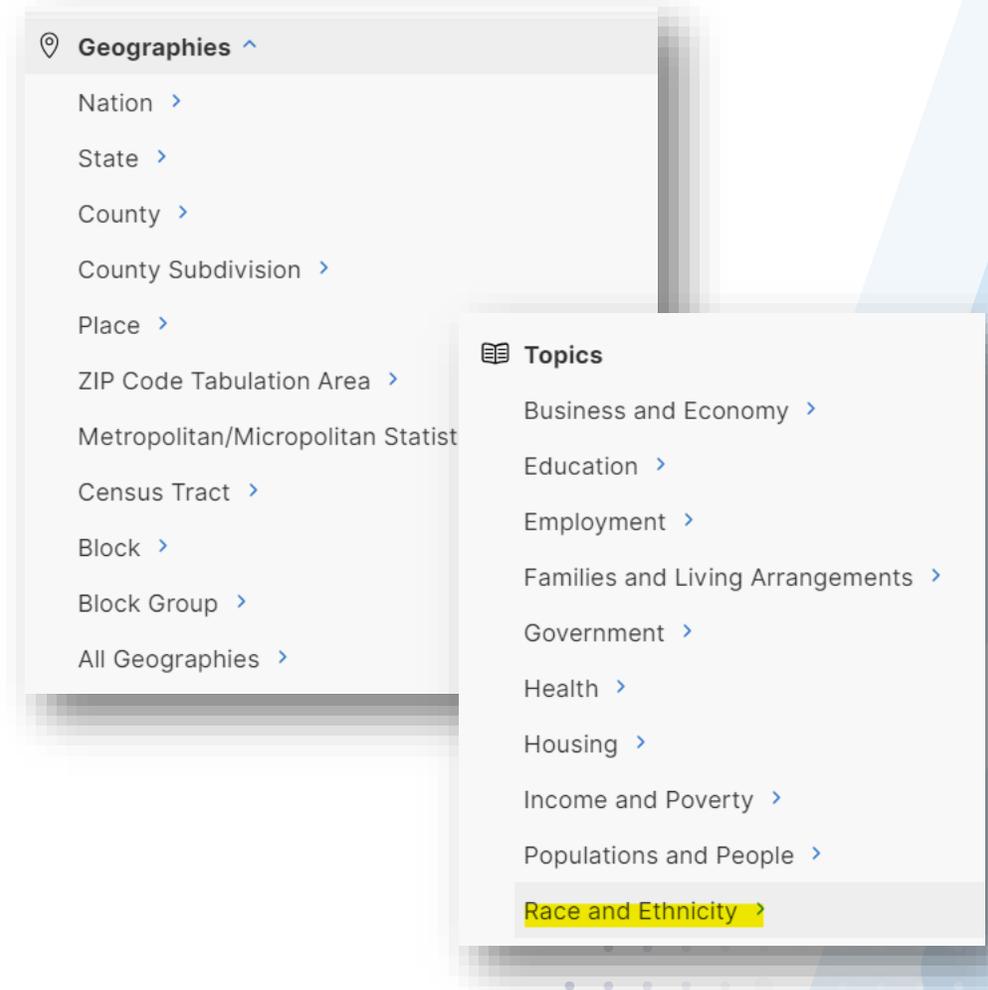
- [Data.census.gov](https://data.census.gov)
- Census Bureau API
- Summary file for easier bulk download

TIPS FOR ACCESSING ON DATA.CENSUS.GOV

- Select geography.
- Select race and ethnicity groups.

Note:

- Each group will get a maximum of two tables with data per geography – a household type and a tenure table.
- If more tables appear, only two will show data for the group per geography.



TUTORIAL RESOURCES

- How-to guides and short video tutorials on accessing the data (*available with embargo*)
- Webinar post-release
 - Finding 2020 Detailed Demographic and Housing Characteristics File B Data on data.census.gov**
 - Tuesday, August 6, 2024
 - 2-3 p.m. EDT
 - <https://www.census.gov/data/academy/webinars/2024/accessing-2020-detailed-demographic-housing-file-b-data.html>
- Technical documentation also provides tips

TECHNICAL RESOURCES

- Technical documentation (*coming soon*)
- Brief: Disclosure Avoidance and the 2020 Census: How SafeTab-H Works (*coming soon*)
- 2020 Census Hispanic Origin and Race Iterations List
- 2020 Census Hispanic Origin and Race Code List
- Detailed Race and Ethnicity Crosswalk: 2010 to 2020
- 2020 Census Data Product Planning Crosswalk - The Detailed DHC-B table shells are available on the “Detailed DHC A & B Tables” tab.

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

CONTENT RESOURCES

- Blog (*available today*)
- Tip sheet (*embargo/release day*)
- America Counts story on detailed race and ethnicity of owner-occupied households nationally and by states (*embargo/release day*)

RECAP: TIMING AND LOGISTICS

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Q&A

- Subject matter experts:
 - Race and Ethnicity: Alli Coritz
 - Disclosure avoidance: Matthew Spence
 - Geography: Vincent Osier

For Further Information

Media

Public Information Office

pio@census.gov

301-763-3030 or

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

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Customer Service Center

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

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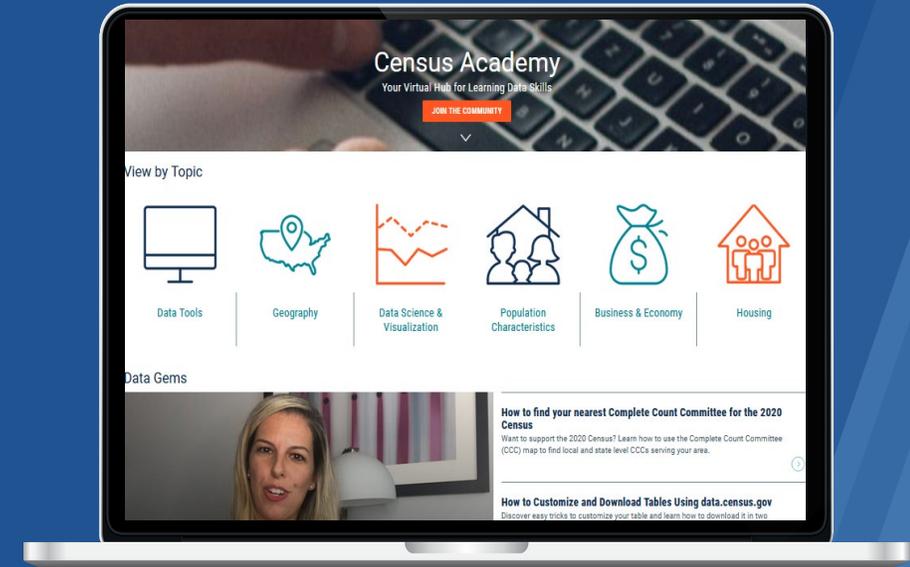
You will learn-at-your-own-pace with these video-tutorials designed for different skill levels.

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Contact us:

Census.askdata@census.gov

1-844-ASK-DATA

Share your ideas and feedback at
census.academy@census.gov

UPCOMING RELEASES

July 25

- New data from the Small Area Health Insurance Estimates (SAHIE) Program.

July 26

- 2030 Census Advisory Committee Summer Virtual Meeting.
- This will be the first meeting of the 2030 Census Advisory Committee.

FOR FURTHER INFORMATION

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Press Kit

<https://www.census.gov/newsroom/press-kits/2024/2020-detailed-dhc-file-b.html>

Source Us

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