2020 Census Data Products
Demographic Profile and Demographic and Housing Characteristics File (DHC)

Pre-Release Webinar
May 16, 2023

Call into the webinar to hear the audio.
- Call: 1-800-857-5165
- Passcode: 7898138

Closed captioning: https://www.streamtext.net/player?event=23756-USCB-Pre-release.Webinar

SPEAKERS

- Stacy Gimbel Vidal, Public Information Office
- Merarys Ríos-Vargas, Chief, Ethnicity and Ancestry Branch, Population Division
- Matthew Spence, Senior Advisor, Population Division

TWO NEW 2020 CENSUS DATA PRODUCTS

Demographic Profile

- One quick, easy-to-reference table
- Available down to the tract level

Demographic and Housing Characteristics File (DHC)

- More detailed tables
- Many available down to the census block level

TIMING AND LOGISTICS

Media Embargo – Tuesday, May 23, 2023

- Begins at 10 a.m. EDT

Public Release – Thursday, May 25, 2023

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

Click the register link on the press kit to request embargo access.

United States®
Census
Bureau

DATA PRODUCT OVERVIEW

Merarys Ríos-Vargas, Chief, Ethnicity and Ancestry Branch, Population Division

2020 CENSUS DATA PRODUCTS

Released

Apportionment
April 26, 2021

Redistricting File
(Public Law 94-171)
August 12, 2021
September 16, 2021

Demographic Profile

Demographic and Housing
Characteristics File (DHC)
Embargo: May 23, 2023
Public release: May 25, 2023

Congressional District Summary
Files
Planned August 2023

Detailed DHC-A
Planned September 2023

Detailed DHC-B
Release Date TBD

Supplemental DHC (S-DHC)
Release Date TBD

Future Effort

Privacy Protected Microdata
Files (PPMF)

Special Tabulations

More information about the products is available on the About 2020 Census Data Products webpage.

WHAT'S DIFFERENT FROM 2010?

- Demographic Profile
  - Predecessor: 2010 Census Demographic Profile
  - 2020 profile very similar to 2010
  - A few statistics moved to Supplemental DHC

- DHC
  - Predecessor: 2010 Census Summary File 1
  - Collapsed details in some tables
  - Fewer available geographies for some tables
  - Removed some tables and moved others to later data products

Preview the tables and how they compare to 2010 in the 2020 Census Data Product Planning Crosswalk.

GEOGRAPHY

Demographic Profile and DHC

- Nation
- Regions
- States
- Counties
- Metropolitan and micropolitan statistical areas
- Congressional districts
- State legislative districts
- School districts
- Tracts
- Urban/rural areas
- Places/minor civil divisions
- American Indian, Alaska Native, and Native Hawaiian Areas
- ZIP Code Tabulation Areas

Additional geographies for some DHC tables

- Block groups
- Census blocks
- Additional summary levels and components

These lists are not comprehensive. Additional geographies and combinations of these will also be available.

SUBJECTS

- Age and sex

- Hispanic or Latino origin

- Race

- Household type, family type, relationship to householder

- Group quarters population

- Housing occupancy, housing tenure (owning vs. renting)

United States®
Census
Bureau

AGE AND SEX

- ## What's New
  - ### Age details beyond 18+ category
  - ### First data on sex from the 2020 Census

- ## What to Consider
  - ### Age heaping

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

☐ Male   ☐ Female

What is Person 1's age and what is Person 1's date of birth? *For babies less than 1 year old, do not write the age in months. Write 0 as the age.*

Print numbers in boxes.

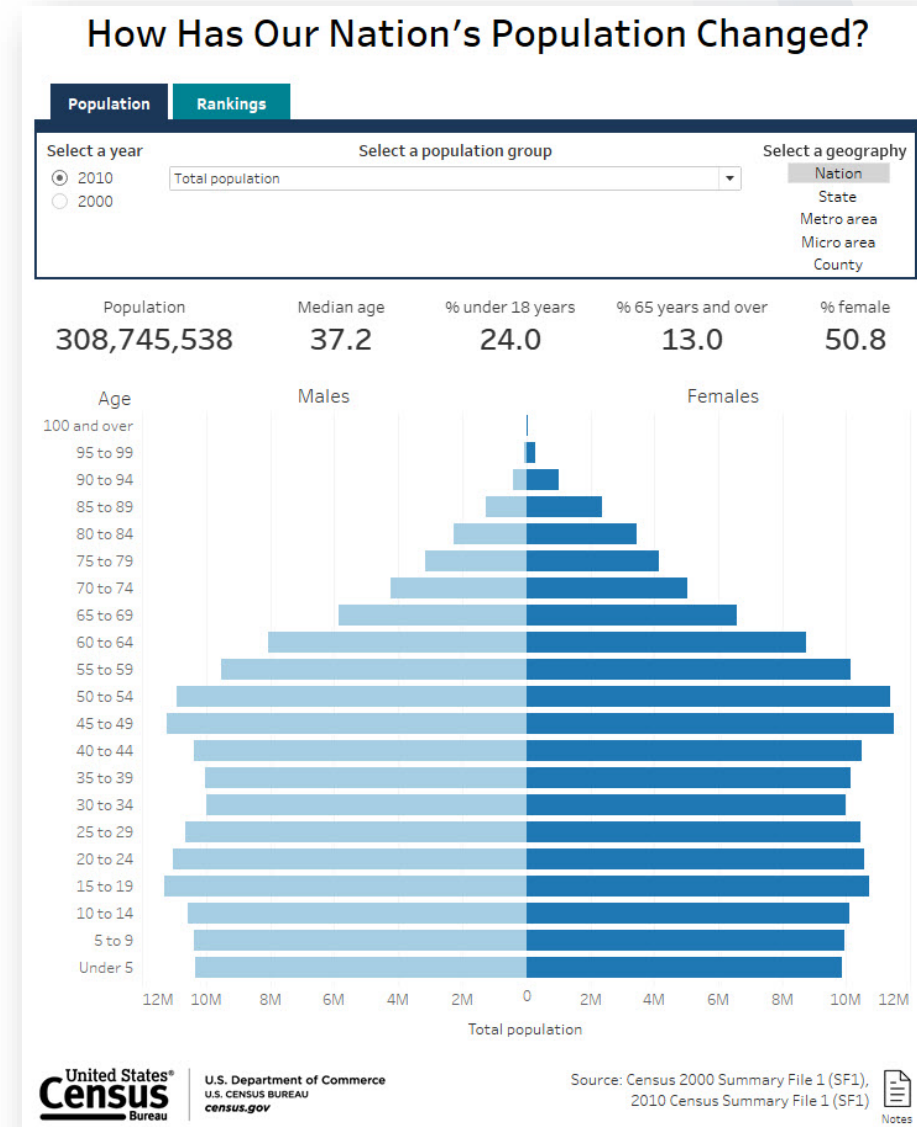Age on April 1, 2020   Month   Day   Year of birth

years

AGE AND SEX CONTINUED

- What to Look For
  - News release highlights the aging of the population and variations by geography; sex ratios and dependency ratios
  - America Counts stories
    - Age and sex composition
    - Older population
  - Briefs
    - Age and Sex Composition: 2020
    - The Older Population: 2020
  - Data visualizations
    - Interactive population pyramid
    - Interactive map

RELATIONSHIP

- What's New
  - First data on relationship from 2020 Census
- What to Consider
  - Relationship question changed to better capture same-sex couple households
  - We caution against comparing same-sex couple data with 2010

How is this person related to Person 1? *Mark* [X] *ONE box.*

- [ ] Opposite-sex husband/wife/spouse
- [ ] Opposite-sex unmarried partner
- [ ] Same-sex husband/wife/spouse
- [ ] Same-sex unmarried partner
- [ ] Biological son or daughter
- [ ] Adopted son or daughter
- [ ] Stepson or stepdaughter
- [ ] Brother or sister

- [ ] Father or mother
- [ ] Grandchild
- [ ] Parent-in-law
- [ ] Son-in-law or daughter-in-law
- [ ] Other relative
- [ ] Roommate or housemate
- [ ] Foster child
- [ ] Other nonrelative

United States® Census Bureau

12

RELATIONSHIP CONTINUED

- What to Look For
  - America Counts stories
    - Changing American families
    - Coupled households
    - Multigenerational households (after release week)
    - One-person households (after release week)

United States® Census Bureau

GROUP QUARTERS

- What's New
  - Group quarters by age groups, sex, race and Hispanic origin, and group quarters types

- What to Consider
  - The COVID-19 pandemic affected the GQ population and how specific GQ populations were enumerated.
  - More in the America Counts story: 8.2 Million People Counted at U.S. Group Quarters in the 2020 Census

GROUP QUARTERS CONTINUED

- ## What to Look For
    - Table P18 provides the same data as Table P5 in the redistricting data, but divided by age groups (under 18 years, 18 to 64 years, and 65 years and over) and by sex.
    - Tables PCT18A-PCT18I are iterations of Table P18 for various race/Hispanic origin groups. The tables are limited to census tracts and higher geographies, unlike P18, which is also available for blocks and block groups.
    - Table PCT19 is similar to P18, but provides information for more detailed GQ types, such as correctional residential facilities, emergency and transition shelters, and group homes. The table is limited to census tracts and higher geographies.
    - Tables PCO1-PCO10 provides information of the population in group quarters by major GQ type divided into 5-year age categories and sex. The tables are available at the county level and above.

United States®
census
Bureau

HOUSING

- What's New
  - Tenure information (whether a home is owned or rented)
  - Tenure crossed by householder demographics, such as householder age, race and ethnicity
  - Reasons a unit was vacant, such as for rent, for sale, or it's a seasonal unit

Is this house, apartment, or mobile home — *Mark* [X] *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?

HOUSING

- What to Consider
  - No major changes to how the questions were asked from 2010
- What to Look For
  - America Counts story on seasonal vacants
  - Following release: Data visualization on homeownership by age, race and Hispanic origin

RACE AND HISPANIC ORIGIN

- What's New
  - Race and Hispanic origin crossed by the other DHC topics
- What to Look For
  - America Counts stories
    - Hispanic Origin population by sex and age
    - Age distribution of major race groups and the Multiracial population (after release week)
  - Data visualizations
    - Interactive population pyramid – explore population pyramids for race and Hispanic origin groups
    - Interactive map on age groups – explore the racial and ethnic diversity index and the largest and second largest racial or ethnic groups for several age groups (More info on these diversity measures: Measuring Racial and Ethnic Diversity for the 2020 Census)

United States®
Census
Bureau

RACE AND HISPANIC ORIGIN CONTINUED

- What to Consider
  - Improved data collection and coding for 2020 Census race and Hispanic origin questions
  - Use caution when comparing race data with 2010
  - More info in blog: [Improvements to the 2020 Census Race and Hispanic Origin Question Designs, Data Processing, and Coding Procedures](#)

DISCLOSURE AVOIDANCE

Matthew Spence, Senior Advisor, Population Division

DISCLOSURE AVOIDANCE

- Statistical noise protects individuals from being identified

- Metrics show disclosure-avoidance variability

- Examples based on 2010 data:
  - Owner-occupied housing units: +/-2 houses on average at the census tract level.
    - A tract with 725 owner-occupied houses may instead show 723, 724, 726 or 727 houses.
    - It should be within that boundary of losing or gaining two, on average, though some tracts will have counts within one or zero of the collected value. Other tracts will have published counts further than two away from the collected count.
  - 4-year-olds: +/-6 people at the county level.
    - The average county had about 1,923 4-year-olds.
    - That county would show a count between 1,917 to 1,929.

United States® Census Bureau

2020 METRICS FOR DISCLOSURE AVOIDANCE

We're exploring producing similar metrics comparing the published DHC tables to the 2020 Census enumerated counts:

- **Mean absolute error** – insight on accuracy (how close the published data point is to the enumerated count on average)

- **Mean error** – insight on bias (whether the published data point tends to go higher or lower than the enumerated count and by how much)

GUIDANCE

- Guidance: Aggregate small geographies and populations
- Disclosure avoidance is not the only reason you may notice an unexpected result. Other reasons are explained on the [What to Consider if You Find an Unexpected Census Result](#) webpage, such as when or where people were counted.

ACCESSING THE DATA

Stacy Gimbel Vidal, Public Information Office

United States®
Census
Bureau

DATA TOOLS AND RESOURCES FOR USING THEM

- Data visualizations
  - Interactive population pyramid
  - Interactive map
  - Downloadable ranking tables
  - Video tutorial
- Data.census.gov
  - Demographic Profile
    - State selector
    - How-to guide
  - DHC
    - Links to popular tables
    - Video tutorials and how-to guides with screenshots
      - Accessing the DHC data
      - Finding blocks using a map
      - Exploring data for urban and rural areas
      - Downloading and exporting data
      - Comparing 2020 and 2010 data

- Summary File
- API
  - How-to guides with screenshots
- Webinar on May 30, 2 p.m. EDT on accessing the Demographic Profile and DHC data on data.census.gov

Resources: [2020 Census Demographic Profile and DHC Press Kit](#)

RECAP: TIMING AND LOGISTICS

Media Embargo – Tuesday, May 23, 2023

- Begins at 10 a.m. EDT

Public Release – Thursday, May 25, 2023

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

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

Q&A

- Subject matter experts:
  - Age and sex: Andrew Roberts and Megan Rabe
  - Race: Rachel Marks, Roberto Ramirez
  - Hispanic origin: Merarys Ríos and Jessica Peña
  - Relationship: Rose Kreider
  - Group quarters: Steven Wilson and Kin Koerber
  - Housing: Evan Brassell
  - Disclosure avoidance: Matthew Spence and Michael Hawes
  - Geography: Kevin Hawley, Rikki Wortham, Vincent Osier

For Further Information	
Media	**Non-Media**
Public Information Office	Customer Service Center
pio@census.gov	1-800-923-8282 or 301-763-INFO
301-763-3030 or	(4636)
877-861-2010 (U.S. and Canada	
only)	

United States® Census Bureau

PLEASE COMPLETE OUR BRIEF EVALUATION

Tell us what we did well and what we can improve!

Link to evaluation in chat

United States®
Census
Bureau