

Oregon House Rules Committee

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James Whitehorne
Chief - Census Redistricting & Voting Rights Data Office

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Agenda

- Apportionment
- 2020 Census Operations
- Redistricting Data Program
 - P.L. 94-171 Geographic Support Products
 - P.L. 94-171 Redistricting Data
- Disclosure avoidance
- CVAP
 - ACS based CVAP
 - 2020 Census based CVAP

Apportionment

- The Census Bureau has committed to delivering the apportionment data as close to the Dec. 31 deadline as possible.
- “It is our plan right now that if we need more time to fix a problem that comes up, that would impact the quality of the census, we’re taking it” – Al Fontenot, Associate Director for Decennial Operations
- Expedited process made possible by:
 - Modified a secondary check of the Master Address File to allow others processes to proceed simultaneously
 - Faster computing power
 - Computing resources running 24/7
 - Staff working seven days a week
 - Focusing solely on apportionment and deferring some redistricting processing

2020 Census Operations

Collection operations concluded 10/15/2020

TOTAL RESPONSE

- Nationwide, 99.98% of all housing units and addresses were accounted for in the 2020 Census
- Resolved 152 million addresses (compared to 132 million in 2010 Census)
- All States, DC, and Puerto Rico reached at least a 99.0% total response rate
- All but one state (Louisiana) was at or above 99.9% total response rate

SELF RESPONSE

- Final self-response rate for the 2020 Census was 67.0% (2010 rate was 66.5%)
 - 99 million self-responses
 - 79 million Internet
 - 18 million Paper
 - 1.83 million Phone

2020 Census Operations

SELF RESPONSE (Continued)

- 28 States met or exceeded their self response rates from 2010
- Census Questionnaire Assistance Centers operated without interruption from March 12 through October 15th
- Internet Self-Response operated with zero downtime from March 12th through October 15th

NONRESPONSE FOLLOWUP

- Nonresponse follow-up rate accounted for 32.9% of total response
- Challenges: Repeated hurricanes for the Gulf Coast states; Global pandemic – 42 million pieces of PPE; Wildfires & air quality issues; civil unrest
- Enumerator productivity of 1.92 cases per hour (1.01 cases per hour in paper 2010 environment)
- 9 million addresses self-responded after enumerators leaving a notice of visit

2020 Census Operations

2020 Census Nonresponse Followup metrics

- 5.6% of addresses nationwide were resolved by high-quality administrative records
 - Equates to 13.9% of the Nonresponse Followup Universe
- 24.1% of occupied housing units in the Nonresponse Followup Universe were enumerated by proxy (23.8% in 2010 Census)
- 99.77% of the Nonresponse workload on American Indian Alaska Native lands completed

Data Quality Measures

- Two primary methods for evaluating quality
 - Evaluation of the process of conducting census work: Post-Enumeration Survey
 - November 2021 through February 2022
 - Comparing census results to others: Demographic Analysis
 - Published December 15, 2020

2020 Census Operations – Data Quality Measures

DEMOGRAPHIC ANALYSIS

Demographic Analysis is an independent program that builds estimates of the population using the nation’s “vital registration” system — birth records, death records – as well as estimates of international migration. Demographic Analysis leverages the strengths of the nation’s population records.

Product	Type	Characteristics	Cohorts	Geographic Levels Available	Date Available
Total resident population	Official estimates	Age and sex	0-85+	National	Dec. 15, 2020
Black alone/non-Black alone	Official estimates	Age, sex, and race	0-85+	National	Dec. 15, 2020
Black alone or in combination/non-Black alone or in combination	Official estimates	Age, sex, and race	0-85+	National	Dec. 15, 2020
Hispanic/non-Hispanic	Official estimates	Age, sex, and Hispanic origin	0-29	National	Dec. 15, 2020

2020 Census Operations – Data Quality Measures

DEMOGRAPHIC ANALYSIS

- 2020 Total U.S. Resident Population by Age, Sex, and Series

Male					
0	2019-2020				
1	2018-2019				
2	2017-2018				
3	2016-2017				
4	2015-2016				
5	2014-2015				
6	2013-2014				
7	2012-2013				
8	2011-2012				
9	2010-2011				
10	2009-2010				
11	2008-2009				
12	2007-2008				
13	2006-2007				
14	2005-2006				
15	2004-2005				

Table 1. Total U.S. Resident Population by Age, Sex, and Series: April 1, 2020 (In thousands)

Sex and Age on April 1, 2020	Year of birth	Series		
		Low	Middle	High
Total				
0	2019-2020			
1	2018-2019			
2	2017-2018			
3	2016-2017			
4	2015-2016			
5	2014-2015			
6	2013-2014			
7	2012-2013			
8	2011-2012			
9	2010-2011			
10	2009-2010			
11	2008-2009			
12	2007-2008			
13	2006-2007			
14	2005-2006			
15	2004-2005			
16	2003-2004			
17	2002-2003			
18	2001-2002			
19	2000-2001			
20	1999-2000			
21	1998-1999			
22	1997-1998			
23	1996-1997			
24	1995-1996			
25	1994-1995			
26	1993-1994			

Female					
0	2019-2020				
1	2018-2019				
2	2017-2018				
3	2016-2017				
4	2015-2016				
5	2014-2015				
6	2013-2014				
7	2012-2013				
8	2011-2012				
9	2010-2011				
10	2009-2010				
11	2008-2009				
12	2007-2008				
13	2006-2007				
14	2005-2006				
15	2004-2005				

2020 Census Operations

- Analysis of how well the mobile devices worked for census takers, what percentage of households refused to participate in an interview with a census taker (refusal rates), a final proxy rate, etc.
- Additional information about responses by the different response modes, by demographic groups, by language, etc., once this information is available.
- Additional operational metrics related to data quality when we release data related to apportionment.
- We have also invited an independent group of scientists, collectively called JASON, to review our plans, processes, procedures, and proposed metrics around 2020 Census data quality.
- We also plan to work with the American Statistical Association and the National Academies of Sciences, Engineering, and Medicine on assessing data quality

Redistricting Data Program

Phase 3 – P.L. 94-171 Redistricting Data Products Delivery Timing

Phase 3 – Prototype Data

Activity	Date
Prototype geographic support products	February 2019 (Complete)
Prototype P.L. 94-171 Redistricting Data	March 2019 (Complete)

<https://www.census.gov/programs-surveys/decennial-census/about/rdo/program-management.html#P3>

Phase 3 – Official Data

Activity	Original Planned Dates	New Planned Date
Geographic support products	Nov. 20, 2020 – Feb. 1, 2021	Jan 22, 2021 through Feb 28, 2021
P.L. 94-171 Redistricting Data	Feb. 18, 2021 – March 31, 2021	TBD*

* Statutory deadline April 1, 2021

Redistricting Data Program

Phase 3 – P.L. 94-171 Redistricting Data Geographic Products

2020 Census P.L. 94-171 Redistricting Data Geographic Products

Product Type	Census Web Address
Shapefiles	https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html
Maps	https://www.census.gov/geographies/reference-maps.html
Block Assignment Files	https://www.census.gov/geographies/reference-files.html
Block to Block Relationship Files	https://www.census.gov/geographies/reference-files/time-series/geo/relationship-files.html

- Shapefiles – geographic information system geometry files
- Maps (PDF only) – County Block; State Legislative with Voting District; Tract; School District
- Block Assignment Files – tables identifying the blocks used to build different geographic entities
- Block to Block Relationship Files – Crosswalk of 2010 blocks to 2020 blocks

Redistricting Data Program

Phase 3 – P.L. 94-171 Redistricting Data Shapefiles

State-based Shapefile
American Indian/Alaska Native/Native Hawaiian Area
American Indian Tribal Subdivision
Alaska Native Regional Corporation
State and Equivalent
Block
Block Group
Census Tract
113th Congressional District
116th Congressional District
Consolidated City
County and Equivalent
County Subdivision
Place
Elementary School District
Secondary School District
Unified School District
State Legislative District Lower Chamber
State Legislative District Upper Chamber
Subbarrio (Subminor Civil Division)
Voting District
Urban Growth Area
Primary and Secondary Roads

County-based Shapefile
Block
Block Group
Census Tract
County Subdivision
Voting District
All Lines
All Roads
Area Hydrography
Linear Water
Area Landmark
Point Landmark
Topological Faces (Polygons With All Geocodes)
County-based Relational Tables
County-based Relationship File
Address Range-Feature Name
Address Ranges
Feature Names
Topological Faces-Area Landmark
Topological Faces-Area Hydrography

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Redistricting Data Program

Phase 3 – P.L. 94-171 Redistricting Data Tabulation Product

2020 Census P.L. 94-171 Redistricting Data Tabulations

Table P1 – Race

Table P2 – Race for the Population 18 Years and Over

Table P3 – Hispanic or Latino, and not Hispanic or Latino by Race

Table P4 – Hispanic or Latino, and not Hispanic or Latino by Race for the Population 18 and Over

Table H1 – Occupancy Status (Housing)

New Table

Table P5 – Group Quarters Population by Group Quarters Type

- All tables produced at multiple geographies including census block
- Group Quarter types: Correctional Institutions for Adults, Juvenile Facilities, Nursing Facilities/Skilled Nursing, Other Institutional, College/University Student Housing, Military quarters, and other non-institutional
- Group quarters is total population only, no demographic breakdown

Redistricting Data Program

P.L. 94-171 Redistricting Data Tabulation Product

Table P1 – Race

Universe: Total Population

Table P3 – Race for the Population 18 Years and Over

Universe: Total population 18 years and over

RACE [71]
Universe: Total population
Total:
Population of one race:
White alone
Black or African American alone
American Indian and Alaska Native alone
Asian alone
Native Hawaiian and Other Pacific Islander alone
Some Other Race alone
Two or More Races:
Population of two races:
White; Black or African American
White; American Indian and Alaska Native
White; Asian
White; Native Hawaiian and Other Pacific Islander
White; Some Other Race
Black or African American; American Indian and Alaska Native
Black or African American; Asian
Black or African American; Native Hawaiian and Other Pacific Islander
Black or African American; Some Other Race
American Indian and Alaska Native; Asian
American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander
American Indian and Alaska Native; Some Other Race
Asian; Native Hawaiian and Other Pacific Islander
Asian; Some Other Race
Native Hawaiian and Other Pacific Islander; Some Other Race
Population of six races:
White; Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race

Redistricting Data Program

P.L. 94-171 Redistricting Data Tabulation Product

Table P2 – Hispanic or Latino, and Not Hispanic or Latino by Race

Universe: Total population

Table P4 – Hispanic or Latino, and Not Hispanic or Latino by Race for the Population 18 Years and Over

Universe: Total population 18 years and over

HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE [73]
Universe: <i>Total population</i>
Total:
Hispanic or Latino
Not Hispanic or Latino:
Population of one race:
White alone
Black or African American alone
American Indian and Alaska Native alone
Asian alone
Native Hawaiian and Other Pacific Islander alone
Some Other Race alone
Two or More Races:
Population of two races:
White; Black or African American
White; American Indian and Alaska Native
White; Asian
White; Native Hawaiian and Other Pacific Islander
White; Some Other Race
Black or African American; American Indian and Alaska Native
Black or African American; Asian
Black or African American; Native Hawaiian and Other Pacific Islander
Black or African American; Some Other Race
American Indian and Alaska Native; Asian
American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander
American Indian and Alaska Native; Some Other Race
Asian; Native Hawaiian and Other Pacific Islander
Asian; Some Other Race
Native Hawaiian and Other Pacific Islander; Some Other Race
Population of six races:
White; Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race

Redistricting Data Program

P.L. 94-171 Redistricting Data Tabulation Product

Table H1 – Occupancy Status

Universe: Housing Units

- Total
 - Occupied
 - Vacant

Table P5 - Group Quarters Population by Group Quarters Type

Universe: Total Population in Group Quarters

- Total
 - Institutionalized population
 - Correctional facilities for adults
 - Juvenile facilities
 - Nursing facilities/Skilled-nursing facilities
 - Other institutional facilities
 - Noninstitutionalized population
 - College/University student housing
 - Military quarters
 - Other non-institutional facilities

Redistricting Data Program

P.L. 94-171 Redistricting Data Tabulations Official Delivery Method

Official Recipients:

- Governors
- Legislative leadership
- Redistricting Commissions (if they exist and have commissioners named)

Method of delivery

- Physical media – DVD/Flash Drive
- Embargoed access to data.census.gov
 - Requires pre-registration
- Confirmation of data's receipt
 - Web monitoring + Phone Call
 - Mail Tracking + Phone Call

Redistricting Data Program

P.L. 94-171 Redistricting Data Tabulations Public Delivery Method

- Public Release
 - Census Data Explorer – data.census.gov
 - Full Data Explorer functionality
 - Large data download
 - FTP
 - Expert users
 - Full P.L. 94-171 Redistricting Data Summary File
 - Relational tables
 - Geoheader + three data segments
 - Geoheader
 - File 01 (P1 & P2)
 - File 02 (P3, P4 & H1)
 - File 03 (P5)
 - All stored as pipe-delimited text files (including the geoheader)

Redistricting Data Program

Citizen Voting Age Population by Race and Ethnicity (CVAP)

- Annual Tabulation using the American Community Survey 5-year estimates for 2011 through 2020 publications
 - Typically released in the 1st week of February each year
- 2020 Census CVAP Special Tabulation
 - Calculated using administrative records and the 2020 Census

Content
Total:
Hispanic or Latino
Not Hispanic or Latino:
White alone
Black or African American alone
American Indian and Alaska Native alone
Asian alone
Native Hawaiian and Other Pacific Islander alone
Some Other Race alone*
Black or African American and White
American Indian and Alaska Native and White
Asian and White
American Indian and Alaska Native and Black or African American
Remainder of Two or More Race Responses

Geography
Nation
State
Congressional District
State Legislative District, Upper Chamber
State Legislative District, Lower Chamber
County
Minor Civil Division (for CT, MA, ME, MI, MN, NH, NJ, NY, PA, RI, VT, and WI)
Tract
Block Group
Block*

* only for the 2020 Census Special Tabulation

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Thank You

James Whitehorne

Chief – Census Redistricting & Voting Rights Data Office

U.S. Department of Commerce
U.S. Census Bureau
4600 Silver Hill Rd.
Washington, DC 20233

Office: 301-763-4039
rdo@census.gov

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More information on the 2020 Census:
<http://www.census.gov/2020Census>



More information on the 2020 Census Self-Response Rates:
<https://www.2020census.gov/en/response-rates/self-response.html>



More information on the 2020 Census Nonresponse Followup Completion Rates:
<https://www.2020census.gov/response-rates/nrfu-completion.html>



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