Redistricting Data
2020 Census Redistricting Data Program
Phase 3 – P.L. 94-171 Redistricting Data Processing

Ensure all records are coded to their most detailed level of geography.

Conduct characteristic editing and imputation that ensures each record has valid values for major characteristics.

Apply differential privacy to ensure confidentiality of responses.

Tabulate and review all redistricting data in multiple formats.

Legacy Format Summary Files
Create physical media, load and test web-based systems.

Deliver data to the states and public by September 30.

DVDs/Flash drives & Data.Census.Gov
Redistricting Data Program

Public Law 94-171 Legacy Format Summary Files – August Release

Legacy Format Summary Files

- Product was always part of the 2020 Census product plan
- Format produced and provided to the states since at least Census 2000
- Requires additional handling to properly extract data from this format
- Fully reviewed and cleared for publication by August 16, 2021
- The same data as what will be released in more user-friendly forms by September 30, 2021
  - Used as the source files for the DVD/Flash Drive creation
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Public Law 94-171 Legacy Format Summary Files – August Release

Physical description

• 2020 formatting is four pipe delimited text files per state contained in a single .ZIP file
  • Geoheader – contains all the geographic codes for the geography include in the redistricting dataset
  • Data Segment 1 – Table P1: Race & Table P2: Hispanic or Latino, and not Hispanic or Latino by Race
  • Data Segment 2 – Table P3: Race for the Population 18 Years and Over & Table P4: Hispanic or Latino, and not Hispanic or Latino by Race for the Population 18 and Over & Table H1 – Housing Status (Occupancy)
  • Data Segment 3 – Table P5: Group Quarters Population by Group Quarters Type
• The geoheader now contains a GEOCODE field so data can be easily joined to geography
• The geoheader must be used together with the data segments in order to access the data

• 2010 formatting was different
  • 3 files in total: 1 geoheader and 2 data segments
  • Geoheader was a fixed width format
  • Data segments were comma delimited
Redistricting Data Program

Public Law 94-171 Legacy Format Summary Files – August Release

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Processing and Extracting Data

Screenshot of portion of geoheader

Screenshot of portion of data segment 1

Link the tables on the common field

2020CENSUS.GOV
Q: I want total population for my townships in RI.

Township identifier is in Summary Level field as 060

Total Population field is in data segment 1 as field P0010001
Q: I want total population For my townships in RI.

Query: From the GEOHEADER file give me records where SUMLEV = 060. Output the corresponding GEOCODE, NAME (not shown on slide) and P0010001
Query Results: From the GEOHEADER file give me records where \texttt{SUMLEV} = 060 and output the corresponding \texttt{GEOCODE}, \texttt{NAME} and \texttt{P0010001}
Redistricting Data Program

Public Law 94-171 Legacy Format Summary Files – August Release

Support

• Consultations with major software vendors, NCSL, and individual states
• 2020 Census State Redistricting (P.L. 94-171) Summary File Technical Documentation
• Prototype P.L. 94-171 Redistricting Data Summary File
  • Content from the 2018 End-to-End Census Test in Providence County, RI
  • In the format planned for the 2020 Census Legacy Format Summary Files
• Header File – Excel Format
  • Tabs for the header of each file which can be imported into other software or used within Excel
  • Tabs with plain English definition for the headers
• Microsoft Access database shell
  • Tables shells for each file
  • Example queries to demonstrate query logic and provide practice
  • Illustrated step-by-step guide on how to use the Microsoft Access database shell
• SAS script for import of the Legacy Format Summary File
• R Script for import of the Legacy Format Summary File
The user-friendly tools and materials we intend to deliver in September are the DVDs and Flash Drive and our Data.census.gov Data Explorer platform.

• DVDs and Flash Drives – These are what we deliver to the official recipients with an integrated software browsing tool that allows intuitive browsing of the data. They also contain a custom extraction menu that allows for the extraction of large datasets from the device. Those extractions can then be imported easily into a Geographic Information System or database.

• Data Explorer web tool – The data.census.gov Data Explorer is our online data browsing tool for both the official recipients and the public. Users of the Data Explorer platform can access many different census datasets, including the redistricting data. It has custom filters that allow the user to filter on those geographic and characteristic data for which they are interested. For example, a State could filter the data and easily identify the number of voting-age residents by race or ethnicity in each and every block within a census tract, county, or even for the entire state. They can then view, map, and download these datasets once they have set the filters with their choices.
Legacy Format Summary Files – by August 16
• Release files to states and public on Public File Transfer Protocol (Public FTP) site by August 16, 2021.

User-Friendly Redistricting Data Files – by September 30
• Provide files to official state recipients on physical media (DVD/Flash Drive) by overnight mail
  • Governors
  • Majority and Minority Legislative Leadership
  • Redistricting Commissions (if established)
  • Non-partisan State Liaisons

• Release to states and public via the Data Explorer web tool <data.census.gov>
Residence Criteria & Situations
2020 Census

2020 Residence Criteria and Residence Situations

Juveniles in non-correctional treatment centers
• At their usual home address (previously counted at facility)
• At the facility if no usual home address

Religious Group Quarters
• At the facility (previously counted at home address)

U.S. flagged maritime or merchant vessels between U.S. and foreign ports
• At usual home address (previously not counted)
• At port if no usual home address (previously not counted)

Federally Affiliated Count Overseas
• Military Deployed/Stationed

Prisoners at Correctional Facilities
• Counted at facility (as before)
• Addition of Group Quarters to P.L. 94-171 Data
• Geocoding Tool [Link](https://www.census.gov/programs-surveys/decennial-census/about/rdo/summary-files/2020/GQAssistance_CensusGeocoder.html)
Voting Rights Data
Voting Rights Data

**Citizen Voting Age Population by Race and Ethnicity (CVAP)**

- CVAP was initially created from the Census 2000 long form data and published in 2002.
- After the 2010 Census, in February of 2011, the Census Bureau started publishing annual CVAP estimates using the American Community Survey 5-year estimates at the request of the Department of Justice.
- The CVAP file contains data aggregations (summarized racial and ethnic categories) based on OMB guidance of aggregation for civil rights enforcement.
- Added Congressional and State Legislative Districts for 2018 and future releases.
- Typically released in the 1st week of February each year
  - LATEST: 2015-2019 CVAP estimates were released on 2/1/21 using the 2010 Census Geography as its base
  - NEXT: 2016-2020 CVAP estimates to be released around 2/1/22 using the 2020 Census Geography as its base
- CVAP URL: [https://www.census.gov/programs-surveys/decennial-census/about/voting-rights/cvap.2019.html](https://www.census.gov/programs-surveys/decennial-census/about/voting-rights/cvap.2019.html)
Voting Rights Data

Section 203 Language Determinations

- Language groups covered by Section 203
  - Alaska Native
  - American Indian
  - Asian
  - Spanish/Hispanic/Latino

- New language determinations are published every 5 years
- Determines counties or townships where language assistance is needed for voting
- Calculated using the American Community Survey 5-year estimates and other census data
- Next publication estimated 12/2021
Decennial Census of Population and Housing

Redistricting Data Program
Where to get the data.

Voting Rights Data
(Section 203 & CVAP)

Prototype Data

Official Data in 2021 Support Products for the Legacy Format Summary Files
Thank You

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