

README File for 2010 Demonstration Data Products Summary File Delivered via FTP

Note: Users processing these FTP files in a Windows environment should read carefully the File Information section of this document.

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About the FTP Application

This FTP (File Transfer Protocol) application is intended for experienced users of census data, zip files, and spreadsheet/database software. It provides quick access for data users such as State Data Centers and news media needing to begin their analysis immediately upon data release.

The FTP Directory

The FTP directories for these products are located here: <https://www2.census.gov/programs-surveys/decennial/2020/program-management/data-product-planning/2010-demonstration-data-products/>

There are two subdirectories for the 2010 Demonstration Data Products, one for the Public Law (P.L.) 94-171 Redistricting Data and one for the Demographic and Housing Demonstration data files. The National and State Summary Files are produced for each data product and are included in the same subdirectory. The data is organized in zip files by state for the State Summary Files or nation for the National Summary File. Each zip file contains multiple files as indicated in the table below.

Demonstration Data Product Name	Geoheader(s)	Data Segments
P.L. 94-171 Redistricting File (per state)	1	3
P.L. 94-171 Redistricting File (nation)	1	3
Demographic and Housing File (per state)	1	14
Demographic and Housing File (nation)	1	14

See the “Segmented Data” section below for more information.

Users of the FTP application need to unzip the package after downloading, then import the data into the spreadsheet/database software of their choice for data analysis and table presentation. *The Census Bureau is unable to provide one-on-one support for applications of the data to specific spreadsheets or database software.*

File Information

The “zip” archive files are in the Unicode Transformation Format (UTF-8). The geographic header file contains fixed fields while the data segments are in a comma-delimited format. Both the geographic header and the data files contain geographic linking fields. These files were created in a Linux environment but should be usable from any operating system. Standard software packages can be used to import and manipulate these data files. These are text files, however, the file extension is **not** ‘.txt’. The user will need to rename the files with a .txt extension for import into some software packages.

The resulting file will meet the ANSI MS-DOS/Windows standard. If the data are being processed in a LINUX environment, they can be unzipped using any standard Linux ZIP/UnZIP package.

Note to Users:

Modifications to field types* are required when importing the Geographic Header Record file and the Data Segments into MS Windows-based programs:

- Fields classified as numeric (N) should be imported as long integers unless the field has been described as having decimals. These fields should be imported as double.
- AREALAND and AREAWATR should be imported as text.
- Failure to make these changes may result in missing data upon import.

*For additional information about modifying field types for the Demographic and Housing Demonstration data files, see https://www2.census.gov/programs-surveys/decennial/rdo/technical-documentation/CD116_TechnicalDocumentation.pdf. Users should refer to https://www2.census.gov/programs-surveys/decennial/rdo/technical-documentation/2020Census/2018Prototype_PL94_171_TechDoc_v2.pdf for the Redistricting Public Law 94-171 data files.

Segmented Data

The data in the 2010 Demonstration Data Products are segmented. This is done to manage the volume of data and to facilitate exporting into spreadsheet or database software. The data and the corresponding geographic information for an individual state are known as the file set. Because of the large size of the tables, the 2010 Demonstration Data Products’ Demographic and Housing

Demonstration data files will be broken into 15 files: a geographic header record file and 14 data segment files. The Redistricting data will be broken into four files: a geographic header record file and three data segment files. To get a complete set of the 2010 Demonstration Data Products' data files, users must download the geographic header file and all the data file segments in the package.

Table 1 below provides the file/table details. When using Table 1, you must take into consideration that the first 5 fields of the data file contain identification information (FILEID, STUSAB, CHARITER, CIFSN, and LOGRECNO), which makes some segments have more than 255 fields. These segments are in bold font in Table 1. Some manipulation of the files will be required for software with a field limit of 255.

Table 1. Demographic and Housing Demonstration File/Table Segmentation

Data file segment number ₁	Number of data cells	Starting table matrix number	Ending table matrix number
01 ₁	249	P1	P23
02	230	P24	P12B
03	245	P12C	P12G
04	238	P12H	P28B
05	232	P28C	P38F
06	60	P38G	P38I
07	209	PCT12	PCT12
08	127	PCT13	PCT14I
09	234	PCO1	PCO6
10	156	PCO7	PCO10
11	189	PCO43A	PCO43C
12	189	PCO43D	PCO43F
13	189	PCO43G	PCO43I
14	38	H1	H13

₁ This is the number in the CIFSN field, beginning in position 12 of the table files and position 17 of the geographic header file.

The Redistricting File Segmentation is located in https://www2.census.gov/programs-surveys/decennial/rdo/technical-documentation/2020Census/2018Prototype_PL94_171_TechDoc_v2.pdf

The explanation below for linking the two data files requires specific location information about the geographic header. These are located in Chapter 2, *How to Use This Product*, of the Technical Documentation.

For the Demographic and Housing Demonstration File: https://www2.census.gov/programs-surveys/decennial/rdo/technical-documentation/CD116_TechnicalDocumentation.pdf.

For the P.L. 94-171 Redistricting Data Demonstration File: https://www2.census.gov/programs-surveys/decennial/rdo/technical-documentation/2020Census/2018Prototype_PL94_171_TechDoc_v2.pdf

A unique logical record number (LOGRECNO) in the geographic header is assigned to all files for a specific geographic entity; all records for that entity can be linked together across files. The geographic header **record layout** is identical across all electronic data products from the 2010 Census. However, the content is product specific. Some header fields that appear in both file types (geographic header and fileXX) are not used. For example, the characteristic iteration (CHARITER) field is filled in the 2010 Census Summary File 2 data product, but in the 2010 Demonstration Data Products, it is always coded as 000.