

README File for Census 2010 Redistricting Data Files 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 who need to begin their analysis immediately upon data release. Due to the size of the files, the FTP user should have a fast file transfer capability. See Table 1 Estimated File Sizes below.

The FTP Directory

The FTP directory is at http://www2.census.gov/census_2010/01-Redistricting_File--PL_94-171. When the Census 2010 Redistricting data are added to each state's respective directories, it will contain a single zip package with the three data segments and a packing list which provides information about the file's creation and size. See below for more information on Segmented Data.

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. A SAS program and an ACCESS database structure have been made available at http://www2.census.gov/census_2010/01-Redistricting_File--PL_94-171 for converting the data files. We are unable to provide one-on-one support for applications of the data to specific spreadsheets or data base software.

File Information

Once the package is unzipped, the files are in flat ASCII format. The geographic header file contains fixed fields while the data files are in comma-delimited format. Both the geographic header and the data files contain geographic linking fields. These files have been constructed in a LINUX environment. They use an ASCII linefeed, chr(10), to indicate a new record.

For successful use with many programs running in a Windows environment, these files need to be modified to use the ASCII carriage return/linefeed sequence, chr(13) + chr(10) as a record terminator. This is an easy step in the UnZIP process using any UnZIP software which offers the conversion option. Winzip for Windows, version 14.5 has been tested.

The resulting file will meet the ANSI MS-DOS/Windows standard used by Access 2003 and Access 2007 and other MS Windows-based programs. If the data are being processed in a LINUX environment, they can be unzipped using any standard Linux ZIP/UnZIP package.

Segmented Data

The data in the Redistricting files and other Census 2010 summary files are segmented. This is done so that individual files will not have more than 255 fields, facilitating exporting into spreadsheet or database software. In short, **to get a complete set of a state's Redistricting data summary files, users must use all three files in the package.**

The files are as follows:

- Geographic Header file
- File01 (Tables P1 and P2)
- File02 (Tables P3, P4 and H1)

It is easiest to think of the file set as a logical file. This logical file consists of three physical files: the geographic header file, file01, and file02. **This structure is the same as the Census 2000 Decennial data summary files.**

The explanation below for linking the three data files requires specific location information for the geographic header. These are located in Chapter 2 of the Technical Documentation <http://www.census.gov/prod/cen2010/pl94-171.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. Additional identifying fields are also carried over from the geographic header file to the table files. These are file identification (FILEID), state/U.S. abbreviation (STUSAB), characteristic iteration (CHARITER), characteristic iteration file sequence number (CIFSN).

The geographic header record layout is identical across all electronic data products from Census 2010. Since the Redistricting data files are quite simple, some of the fields, including some

geographic header fields that appear in all three files (geographic header, segments 1 and 2) are constant. For example, the characteristic iteration (CHARITER) field will be used in Summary File 2 but in the Redistricting data file, it is always coded as 000.

File Record Layout

For a layout of the individual tables for each file, see <http://www.census.gov/prod/cen2010/pl94-171.pdf>. Select Chapter 6, *Data Dictionary*.

Other Sources of the Data

The Census Bureau releases most Census 2010 data on a state-by-state basis. Tables are available in American FactFinder (factfinder2.census.gov) upon release of the designated state's data. Within American FactFinder, individual tables can be downloaded in database-compatible or presentation-ready formats. Users have the option to save the file in a comma delimited (.csv), Microsoft Excel (.xls), or PDF format.

Table 1 - Estimated File Sizes

FIPS	Postal	Name	Zip File (MB)	Geoheader (MB)	Segment1 (MB)	Segment2 (MB)
01	AL	Alabama	20	161	102	104
02	AK	Alaska	4	29	18	19
04	AZ	Arizona	19	154	98	100
05	AR	Arkansas	15	118	75	77
06	CA	California	56	452	287	293
08	CO	Colorado	16	128	81	83
09	CT	Connecticut	5	43	27	28
10	DE	Delaware	2	15	10	10
11	DC	District of Columbia	1	4	3	3
12	FL	Florida	38	308	196	200
13	GA	Georgia	23	185	118	120
15	HI	Hawaii	2	16	10	10
16	ID	Idaho	12	95	61	62
17	IL	Illinois	36	287	183	186
18	IN	Indiana	21	170	108	110
19	IA	Iowa	17	137	87	89
20	KS	Kansas	19	152	96	98
21	KY	Kentucky	13	103	65	67
22	LA	Louisiana	16	130	83	84
23	ME	Maine	6	44	28	29

24	MD	Maryland	12	92	59	60
25	MA	Massachusetts	13	100	64	65
26	MI	Michigan	26	210	133	136
27	MN	Minnesota	21	165	105	107
28	MS	Mississippi	14	109	69	71
29	MO	Missouri	27	219	139	142
30	MT	Montana	11	84	53	55
31	NE	Nebraska	15	123	78	80
32	NV	Nevada	7	54	34	35
33	NH	New Hampshire	4	31	20	20
34	NJ	New Jersey	13	108	69	70
35	NM	New Mexico	13	107	68	70
36	NY	New York	28	223	142	145
37	NC	North Carolina	23	184	117	119
38	ND	North Dakota	11	85	54	55
39	OH	Ohio	29	232	148	151
40	OK	Oklahoma	21	171	109	111
41	OR	Oregon	16	125	80	81
42	PA	Pennsylvania	33	268	170	174
44	RI	Rhode Island	2	16	10	10
45	SC	South Carolina	14	116	74	75
46	SD	South Dakota	7	56	36	36
47	TN	Tennessee	19	153	97	99
48	TX	Texas	73	582	370	377
49	UT	Utah	9	73	47	48
50	VT	Vermont	3	21	13	13
51	VA	Virginia	23	182	116	118
53	WA	Washington	16	124	79	81
54	WV	West Virginia	11	86	55	56
55	WI	Wisconsin	20	161	102	104
56	WY	Wyoming	7	55	35	36
72	PR	Puerto Rico	6	49	31	32