

Legacy Format Summary Files

3/29/2021

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Shape
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United States®
Census
2020



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.



Redistricting Data Program

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



Tabulate and review all redistricting data in multiple formats.



Create physical media, load and test web-based systems.



Deliver data to the states and public by September 30.

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Census
2020

Redistricting Data Program

Public Law 94-171 official tools and materials

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.

Redistricting Data Program

Public Law 94-171 Legacy Format Summary Files

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 mid-to-late August 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
- Prototype data from the 2018 End-to-End Census Test is available for designing and testing redistricting systems
 - Only for Providence, Rhode Island

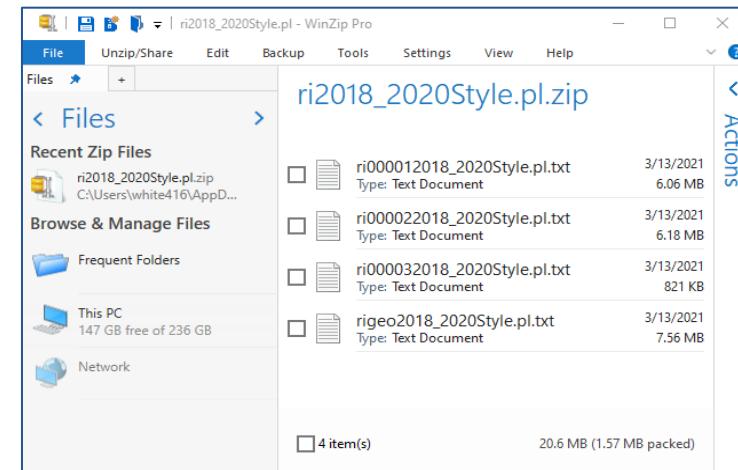
Redistricting Data Program

Public Law 94-171 Legacy Format Summary Files

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 & Table
 - Data Segment 2 – Table P3 Race for the Population 18 Years and Over : P4: Hispanic or Latino, and not Hispanic or Latino by Race for the Population 18 and Over: H1 – Housing Status (Occupancy)
 - Data Segment 3 – Table P5: Group Quarters Population by Group Quarters Type
- 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



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FILEID	STUSAB	SUMLEV	GEOVAR	GEOCOMP	CHARITER	CIFSN	LOGRECNO	GEOID	GEOCODE	REGION	DIVISION	STATE	STATENS
PLST	RI	040	00	00	000	00	0000001	0400000US44	44	1	1	44	01219835
PLST	RI	050	00	00	000	00	0000002	0500000US44007	44007	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000003	0600000US4400711800	4400711800	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000004	0600000US4400714140	4400714140	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000005	0600000US4400719180	4400719180	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000006	0600000US4400720080	4400720080	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000007	0600000US4400722960	4400722960	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000008	0600000US4400727460	4400727460	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000009	0600000US4400730340	4400730340	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000010	0600000US4400737720	4400737720	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000011	0600000US4400741500	4400741500	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000012	0600000US4400751760	4400751760	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000013	0600000US4400752480	4400752480	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000014	0600000US4400754640	4400754640	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000015	0600000US4400759000	4400759000	1	1	44	01219835

Processing and Extracting Data

Screenshot of portion of geoheader

Link the tables on the common field

FILEID	STUSAB	CHARITER	CIFSN	LOGRECNO	P0010001	P0010002	P0010003	P0010004	P0010005
PLST	RI	000	01	0000001	614053	566407	410378	49589	4269
PLST	RI	000	01	0000002	614053	566407	410378	49589	4269
PLST	RI	000	01	0000003	16558	15627	14940	95	46
PLST	RI	000	01	0000004	17337	14497	6972	1065	38
PLST	RI	000	01	0000005	82619	76703	59720	4340	427
PLST	RI	000	01	0000006	34709	33271	30439	813	18
PLST	RI	000	01	0000007	45484	43068	36592	2762	72
PLST	RI	000	01	0000008	4550	4282	4202	32	5
PLST	RI	000	01	0000009	10135	9854	9468	236	1
PLST	RI	000	01	0000010	27889	26507	23965	646	30
PLST	RI	000	01	0000011	22130	21107	18900	533	403
PLST	RI	000	01	0000012	32664	30410	25408	2319	73
PLST	RI	000	01	0000013	12308	11780	11239	190	0
PLST	RI	000	01	0000014	70765	62475	41186	8770	626
PLST	RI	000	01	0000015	164341	149399	69996	24695	2302
PLST	RI	000	01	0000016	10489	10033	9687	155	0
PLST	RI	000	01	0000017	21740	20874	19697	345	140

Screenshot of portion of data segment 1

Redistricting Data Program

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Processing and Extracting Data

FILEID	STUSAB	SUMLEV	GEOVAR	GEOCOMP	CHARITER	CIFSN	LOGRECNO	GEOID	GEOCODE	REGION	DIVISION	STATE	STATENS
PLST	RI	040	00	00	000	00	0000001	0400000US44	44	1	1	44	01219835
PLST	RI	050	00	00	000	00	0000002	0500000US44007	44007	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000003	0600000US4400711800	4400711800	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000004	0600000US4400714140	4400714140	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000005	0600000US4400719180	4400719180	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000006	0600000US4400720080	4400720080	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000007	0600000US4400722960	4400722960	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000008	0600000US4400727460	4400727460	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000009	0600000US4400730340	4400730340	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000010	0600000US4400737720	4400737720	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000011	0600000US4400741500	4400741500	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000012	0600000US4400751760	4400751760	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000013	0600000US4400752480	4400752480	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000014	0600000US4400754640	4400754640	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000015	0600000US4400759000	4400759000	1	1	44	01219835

Screenshot of portion of geoheader

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

FILEID	STUSAB	CHARITER	CIFSN	LOGRECNO	P0010001	P0010002	P0010003	P0010004	P0010005
PLST	RI	000	01	0000001	614053	566407	410378	49589	4269
PLST	RI	000	01	0000002	614053	566407	410378	49589	4269
PLST	RI	000	01	0000003	16558	15627	14940	95	46
PLST	RI	000	01	0000004	17337	14497	6972	1065	38
PLST	RI	000	01	0000005	82619	76703	59720	4340	427
PLST	RI	000	01	0000006	34709	33271	30439	813	18
PLST	RI	000	01	0000007	45484	43068	36592	2762	72
PLST	RI	000	01	0000008	4550	4282	4202	32	5
PLST	RI	000	01	0000009	10135	9854	9468	236	1
PLST	RI	000	01	0000010	27889	26507	23965	646	30
PLST	RI	000	01	0000011	22130	21107	18900	533	403
PLST	RI	000	01	0000012	32664	30410	25408	2319	73
PLST	RI	000	01	0000013	12308	11780	11239	190	0
PLST	RI	000	01	0000014	70765	62475	41186	8770	626
PLST	RI	000	01	0000015	164341	149399	69996	24695	2302
PLST	RI	000	01	0000016	10489	10033	9687	155	0
PLST	RI	000	01	0000017	21740	20874	19697	345	140

Screenshot of portion of data segment 1

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FILEID	STUSAB	SUMLEV	GEOVAR	GEOCOMP	CHARITER	CIFSN	LOGRECNO	GEOID	GEOCODE	REGION	DIVISION	STATE	STATENS
PLST	RI	040	00	00	000	00	0000001	04000000US44	44	1	1	44	01219835
PLST	RI	050	00	00	000	00	0000002	05000000US44007	44007	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000003	06000000US4400711800	4400711800	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000004	06000000US4400714140	4400714140	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000005	06000000US4400719180	4400719180	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000006	06000000US4400720080	4400720080	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000007	06000000US4400722960	4400722960	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000008	06000000US4400727460	4400727460	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000009	06000000US4400730340	4400730340	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000010	06000000US4400737720	4400737720	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000011	06000000US4400741500	4400741500	1	1	44	01219835
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PLST	RI	060	00	00	000	00	0000014	06000000US4400754640	4400754640	1	1	44	01219835
PLST	RI	060	00	00	000	00	0000015	06000000US4400759000	4400759000	1	1	44	01219835

Screenshot of portion of geoheader

Q: I want total population
For my townships in RI.

Query: From the
GEOHEADER file give me
records where **SUMLEV =**
060 and output the
corresponding **GEOCODE**,
NAME (not shown on slide)
and **P0010001**

FILEID	STUSAB	CHARITER	CIFSN	LOGRECNO	P0010001	P0010002	P0010003	P0010004	P0010005
PLST	RI	000	01	0000001	614053	566407	410378	49589	4269
PLST	RI	000	01	0000002	614053	566407	410378	49589	4269
PLST	RI	000	01	0000003	16558	15627	14940	95	46
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PLST	RI	000	01	0000008	4550	4282	4202	32	5
PLST	RI	000	01	0000009	10135	9854	9468	236	1
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PLST	RI	000	01	0000011	22130	21107	18900	533	403
PLST	RI	000	01	0000012	32664	30410	25408	2319	73
PLST	RI	000	01	0000013	12308	11780	11239	190	0
PLST	RI	000	01	0000014	70765	62475	41186	8770	626
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PLST	RI	000	01	0000016	10489	10033	9687	155	0
PLST	RI	000	01	0000017	21740	20874	19697	345	140

Screenshot of portion of data segment 1

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Processing and Extracting Data

SUMLEV	GEOCODE	NAME	P0010001
060	4400711800	Burrillville town	16558
060	4400714140	Central Falls city	17337
060	4400719180	Cranston city	82619
060	4400720080	Cumberland town	34709
060	4400722960	East Providence city	45484
060	4400727460	Foster town	4550
060	4400730340	Glocester town	10135
060	4400737720	Johnston town	27889
060	4400741500	Lincoln town	22130
060	4400751760	North Providence town	32664
060	4400752480	North Smithfield town	12308
060	4400754640	Pawtucket city	70765
060	4400759000	Providence city	164341
060	4400764220	Scituate town	10489
060	4400766200	Smithfield town	21740
060	4400780780	Woonsocket city	40335

Screenshot of
results

Query Results: From the GEOHEADER file give me records
where **SUMLEV = 060** and output the corresponding **GEOCODE**,
NAME and **P0010001**

Thank You

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