Unpacking the Initial 2020 Census Data Releases

Data products and release details

Goals of this Presentation

- Review initial 2020 data products
- Learn how they will be accessible
- Briefly review processing steps

Initial 2020 Data Products

Product	Release Date	Description
Demographic Analysis Estimates	Dec. 15	National estimates for age, sex, race and Hispanic Origin
Apportionment Count	As close as possible to Dec. 31	Apportionment and resident population for states
Geographic Products	Jan. 22 – Feb 28	Maps, Shapefile, KML, File Geodatabase for all areas and edge features. Includes new tract, block group and block features
Redistricting File (Public Law 94-171) Dataset	As close as possible to March 31	Population, Race, Hispanic Ethnicity, Group Quarters Population and Housing Units (Occ./Vacant)

2020 Product Overview

- Redistricting File (Public Law 94-171) Dataset
- Later Releases
  - Demographic and Housing Characteristics (DHC formerly known as Summary File 1)
  - Demographic Profiles (Places and higher)

2020 Redistricting Data Geographic Products

Product Type	Description
Shapefiles	Geographic information system geometry files. State and county 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

2020 Redistricting Data Tabulation Product

Table Name	Description
P1	Race
P2	Race for the population 18 years and over
P3	Hispanic or Latino, and not Hispanic or Latino by race
P4	Hispanic or Latino, and not Hispanic or Latino by race for population 18 and over
P5 (New)	Group Quarters Population by Group Quarters Type (seven types)
H1	Occupancy Status (Housing)

Accessing Redistricting Data

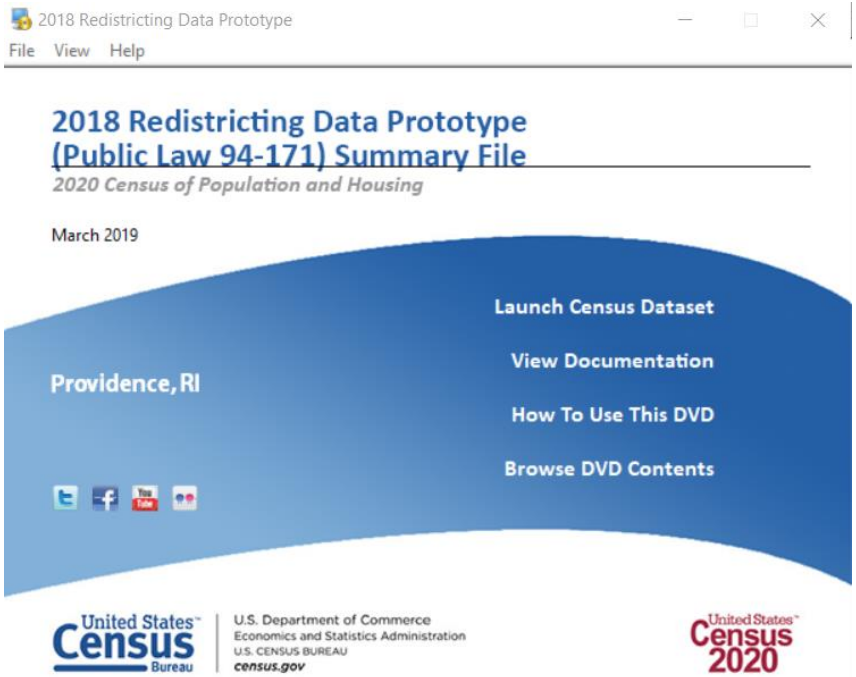
Geographic and Tabulation Products

2020 Redistricting Data Tabulation Product

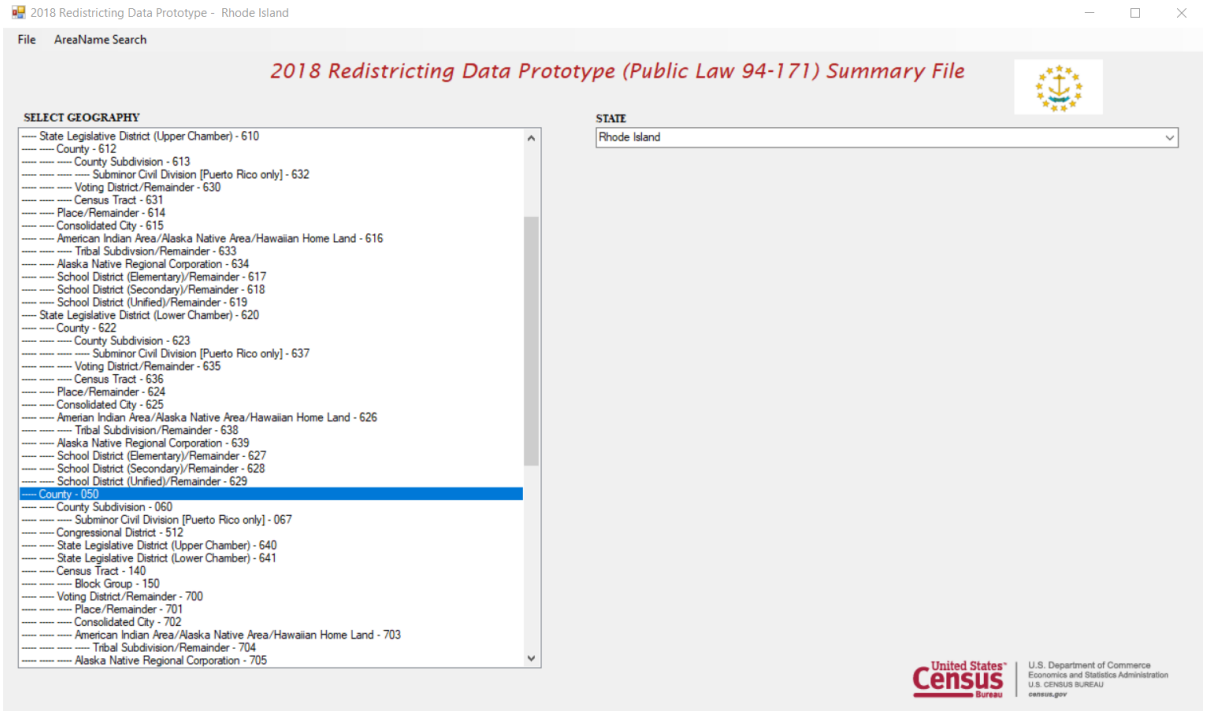
- Distribution
  - DVD product official recipients (Governor and Legislature in TN)
  - data.census.gov
    - Statistics as needed using for all geographic areas
    - Download for all geographies (capable of state-wide, block-level data of all P.L. tables)
  - FTP (expert users)

DVD Product Extraction

- Included in the DVD download
- Stand-alone executable
- Useful for single geography tabular extractions

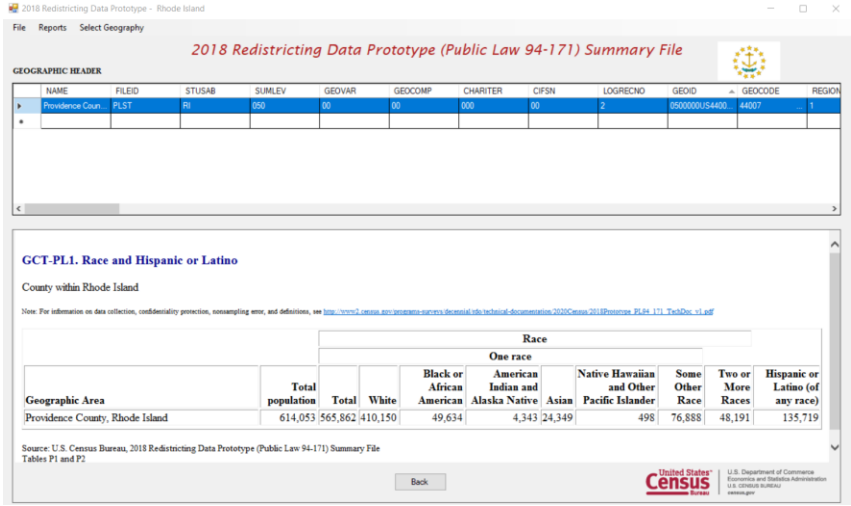


DVD: Select geography type

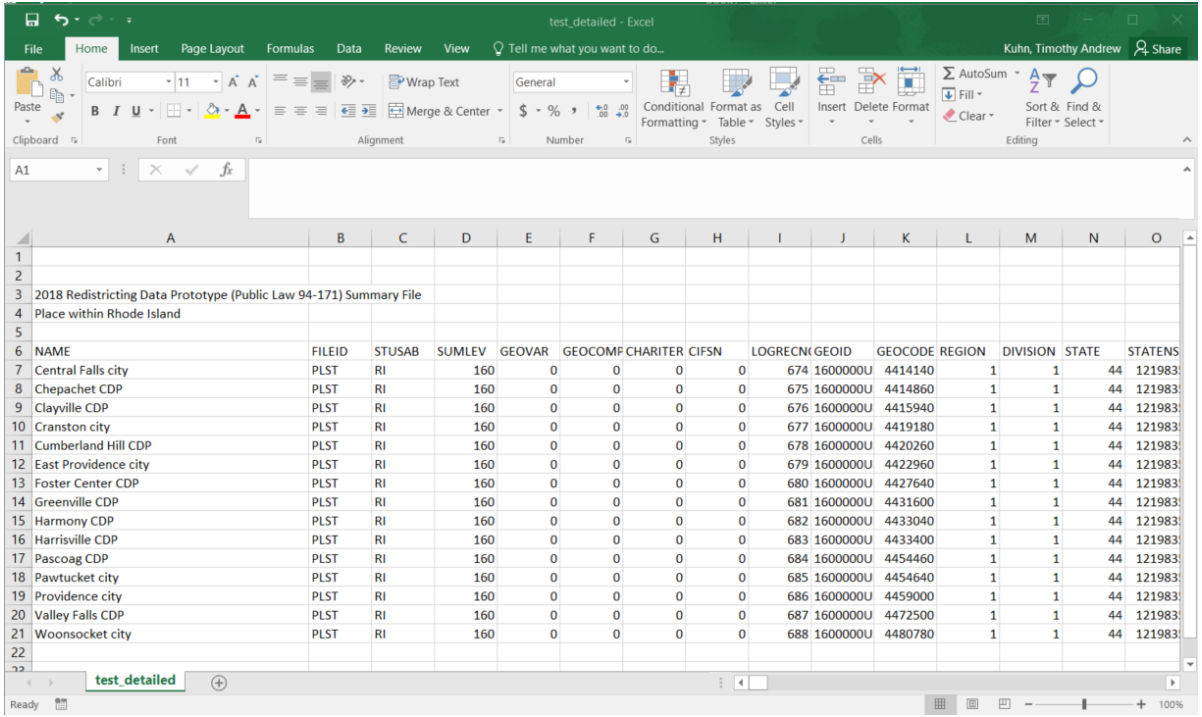


DVD: Report and Export options

- PL1 - Race and Hispanic or Latino
- PL2. Population and Housing Occupancy Status
- Detailed tables



Example Detail Table Excel Export



test_detailed - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1															
2															
3	2018 Redistricting Data Prototype (Public Law 94-171) Summary File														
4	Place within Rhode Island														
5															
6	NAME	FILEID	STUSAB	SUMLEV	GEOVAR	GEOCOMF	CHARITER	CIFSN	LOGRECN(	GEOID	GEOCODE	REGION	DIVISION	STATE	STATENS
7	Central Falls city	PLST	RI	160	0	0	0	0	674	1600000U	4414140	1	1	44	121983
8	Chepachet CDP	PLST	RI	160	0	0	0	0	675	1600000U	4414860	1	1	44	121983
9	Clayville CDP	PLST	RI	160	0	0	0	0	676	1600000U	4415940	1	1	44	121983
10	Cranston city	PLST	RI	160	0	0	0	0	677	1600000U	4419180	1	1	44	121983
11	Cumberland Hill CDP	PLST	RI	160	0	0	0	0	678	1600000U	4420260	1	1	44	121983
12	East Providence city	PLST	RI	160	0	0	0	0	679	1600000U	4422960	1	1	44	121983
13	Foster Center CDP	PLST	RI	160	0	0	0	0	680	1600000U	4427640	1	1	44	121983
14	Greenville CDP	PLST	RI	160	0	0	0	0	681	1600000U	4431600	1	1	44	121983
15	Harmony CDP	PLST	RI	160	0	0	0	0	682	1600000U	4433040	1	1	44	121983
16	Harrisville CDP	PLST	RI	160	0	0	0	0	683	1600000U	4433400	1	1	44	121983
17	Pascoag CDP	PLST	RI	160	0	0	0	0	684	1600000U	4454460	1	1	44	121983
18	Pawtucket city	PLST	RI	160	0	0	0	0	685	1600000U	4454640	1	1	44	121983
19	Providence city	PLST	RI	160	0	0	0	0	686	1600000U	4459000	1	1	44	121983
20	Valley Falls CDP	PLST	RI	160	0	0	0	0	687	1600000U	4472500	1	1	44	121983
21	Woonsocket city	PLST	RI	160	0	0	0	0	688	1600000U	4480780	1	1	44	121983
22															

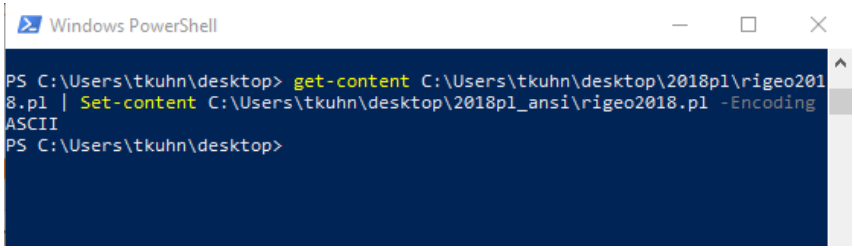
FTP Download

- Useful for processing tabular downloads for multiple geographies (e.g. State, county, tracts)
- Five pipe delimited text files

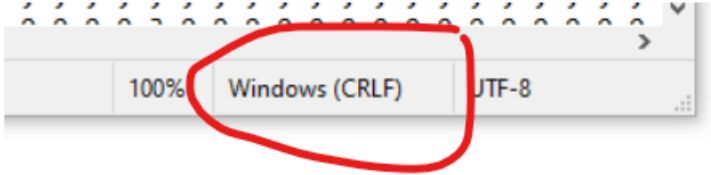
Table Name	Description
Geo	Geographic Header
File 01	P1 (Race) and P2 (Race 18 years and older)
File 02	P3 (Hispanic or Latino, and not Hispanic or Latino by race) and P4 (for population 18 and over)
File 03	Group Quarters Population by Group Quarters Type (seven types)
File 04	Occupancy Status (Housing)

FTP Text File Processing tips

- Text files need to be converted to a Windows compatible “carriage return/linefeed sequence” (ANSI MS-DOS/Windows) using PowerShell or similar
- LOGRECNO (logical record number) – common field across all tables

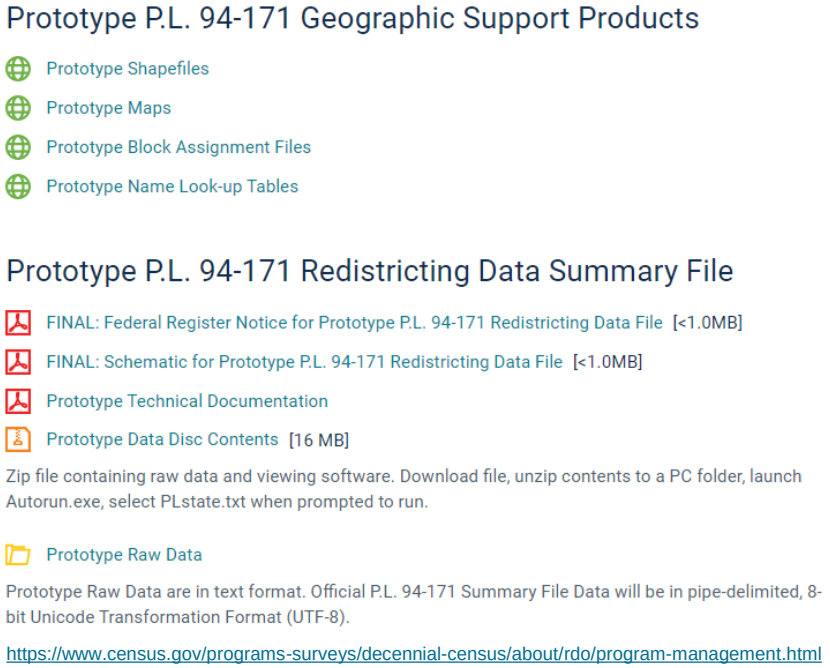


[See Convert UTF-8 to ANSI]



Prototype Redistricting Files

- Begin building processing and dissemination systems
- Why?
  - Shorten startup for redistricting
  - First to market with analytics



Prototype P.L. 94-171 Geographic Support Products

Prototype Shapefiles
Prototype Maps
Prototype Block Assignment Files
Prototype Name Look-up Tables

Prototype P.L. 94-171 Redistricting Data Summary File

FINAL: Federal Register Notice for Prototype P.L. 94-171 Redistricting Data File [<1.0MB]
FINAL: Schematic for Prototype P.L. 94-171 Redistricting Data File [<1.0MB]
Prototype Technical Documentation
Prototype Data Disc Contents [16 MB]

Zip file containing raw data and viewing software. Download file, unzip contents to a PC folder, launch Autorun.exe, select PLstate.txt when prompted to run.

Prototype Raw Data

Prototype Raw Data are in text format. Official P.L. 94-171 Summary File Data will be in pipe-delimited, 8-bit Unicode Transformation Format (UTF-8).

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

Contact Us

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