

Upper Providence Township Redistricting 2022

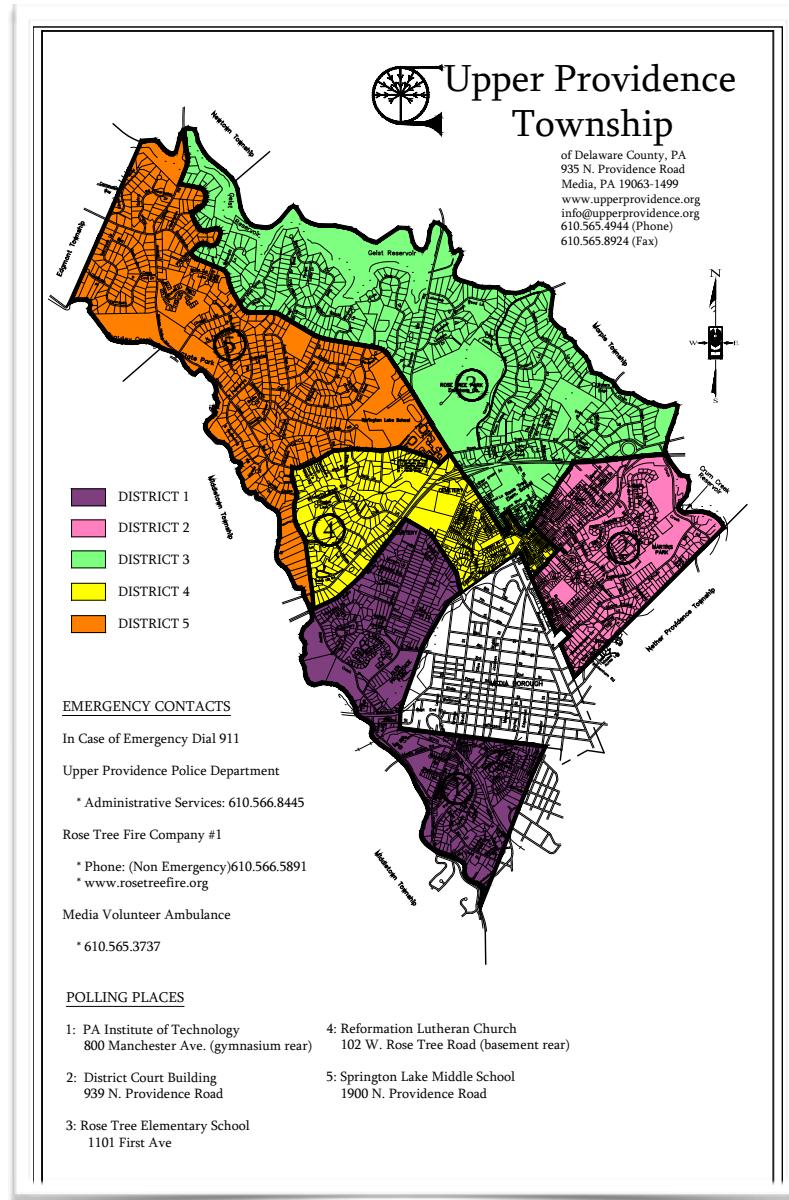
Redistricting Report

A practical redistricting proposal

(Prepared by Kevin Else, August 2022)

Home Rule Charter and District Size

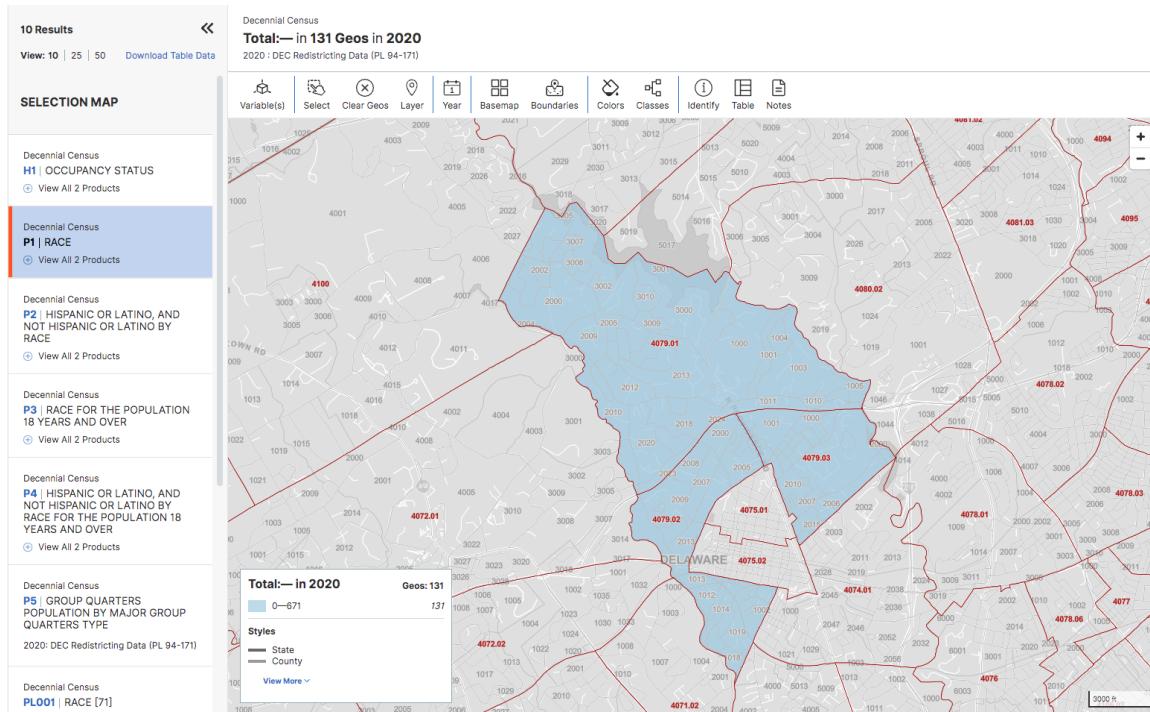
Upper Providence Township is divided into five (5) voting districts. The current configuration of the voting districts is shown in the map below:



According to the Upper Providence Township Solicitor, Pennsylvania code requires the population in each district to be roughly equal to each other. The 2020 Census Redistricting Data is the basis for determining number of electors in each voting district. Background information regarding the US Census Bureaus' provision of data may be found here: <https://www.census.gov/content/dam/Census/library/publications/2014/rdo/pl94-171.pdf>.

One way to directly obtain information regarding the electors in Upper Providence Township is to obtain the data from the United States Census Bureau map tool located at: <https://data.census.gov/cedsci/map>

First, filter the data to restrict it to the “Redistricting Data (PL 94-171” and all Blocks within Census Tracts 4079.01, 4079.02, and 4079.03 as they comprise the Census Blocks within Upper Providence Township.



Once the data is restricted to Upper Providence Township, click on the Tables tab to download the data:

	Block 1000, Block Grou...	Block 1001, Block Grou...	Block 1002, Block Grou...
Total:	165	89	35
Population of one race:	158	87	32
White alone	157	83	23
Black or African American alone	1	0	1
American Indian and Alaska Native alone	0	0	0
Asian alone	0	4	8
Native Hawaiian and Other Pacific Islander alone	0	0	0

Next, select the “Transpose” button so that the table will show data in the proper format. And then select the .CSV button to download a CSV file with the data. See below:

	Total:	Population of one race:	White alone	Black or Afric...
Block 1000, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	165	158	157	
Block 1001, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	89	87	83	
Block 1002, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	35	32	23	
Block 1003, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	329	306	298	
Block 1004, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	78	75	67	
Block 1005, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	15	10	10	
Block 1006, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	0	0	0	
Block 1007, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	0	0	0	
Block 1008, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	10	9	4	
Block 1009, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	21	15	13	
Block 1010, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania	50	49	42	
Block 1011, Block Group 1, Census Tract 4079.01, Delaware County, Pennsylvania				

After downloading the data and assigning each block to the current voting district map the breakdown by district is as follows¹:

Current State			
District	Census Population	Deviation from the Mean of 2170.4	% Deviation from the Mean of 2170.4
District 1	2312	141.6	6.5%
District 2	2387	216.6	10.0%
District 3	2230	59.6	2.7%
District 4	1785	-385.4	-17.8%
District 5	2138	-32.4	-1.5%
Total	10852		

As a result, there is a difference of 602 more individuals in District 2 versus District 4 which amounts to about a 34% difference in population (Note: $602/1785=33.7\%$). Therefore, there is a need to rebalance the Districts.

The proposed redistricting plan provides for the following number of individuals in each district.

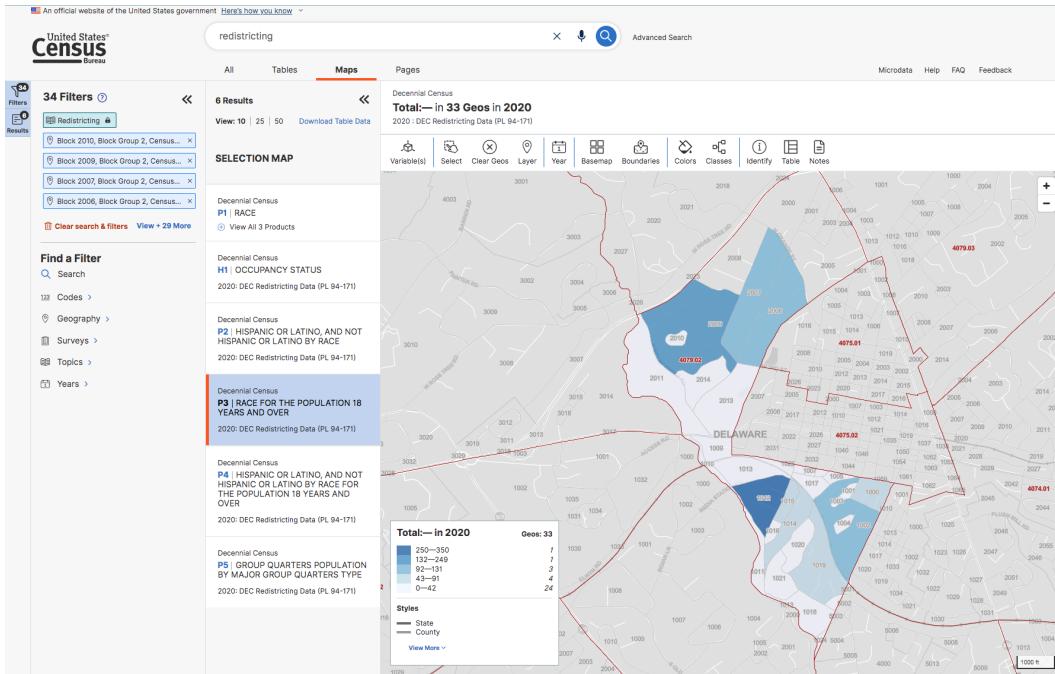
Proposed			
District	Census Population	Deviation from the Mean of 2170.4	% Deviation from the Mean of 2170.4
District 1	2177	6.6	0.3%
District 2	2187	16.6	0.8%
District 3	2167	-3.4	-0.2%
District 4	2169	-1.4	-0.1%
District 5	2152	-18.4	-0.8%
Total	10852		

¹ The complete set of data is supplied in file “Upper Providence Township 2020 Redistricting Assignments.pdf”.

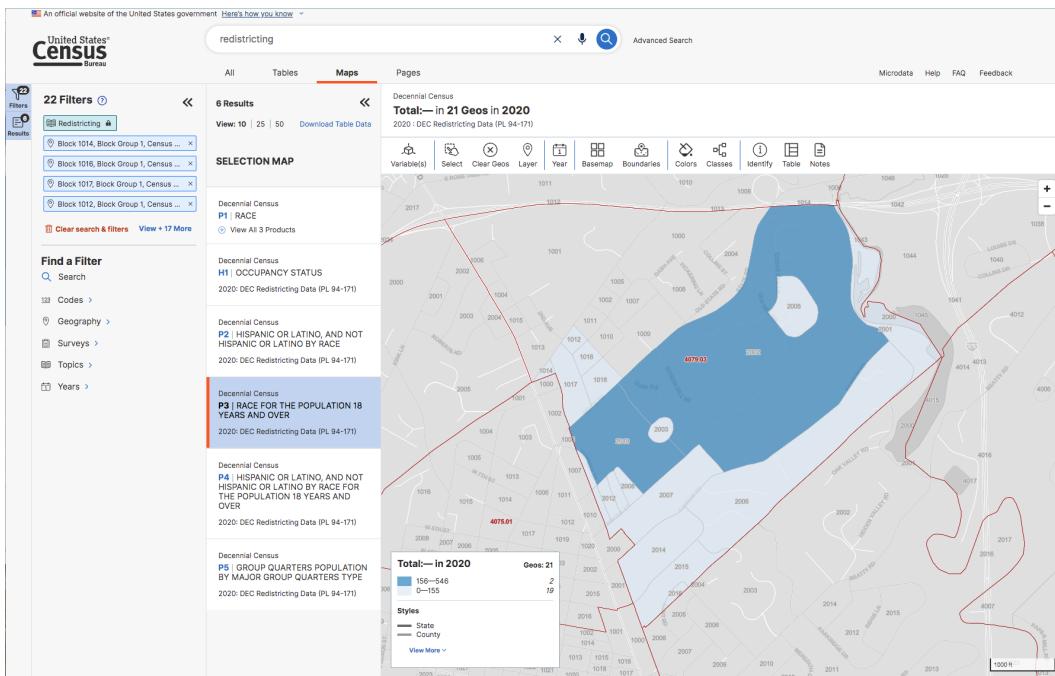
The greatest difference in population is between District 2 and District 5. District 2 has a population of 2187 individuals and District 5 has 2152 individuals, a difference of 35 individuals. This amounts to a 1.6% difference in population
(Note: $35/2152=1.6\%$)

The following drawings show the proposed redistricting plan for each voting district:

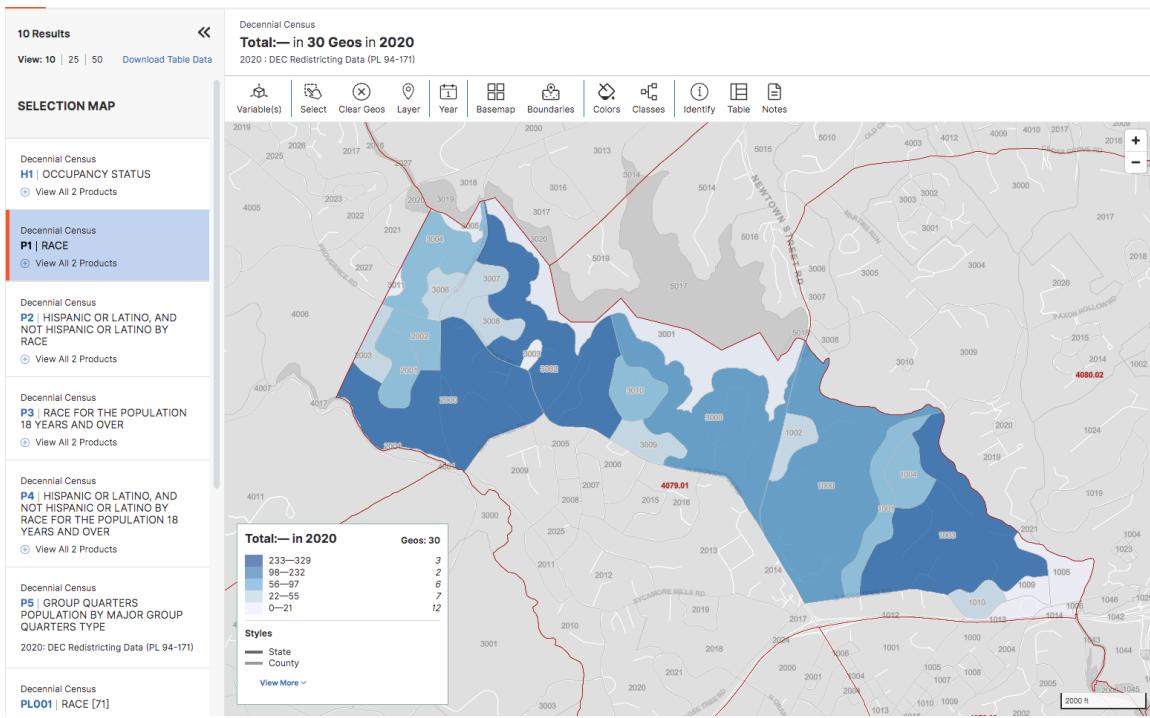
PROPOSED DISTRICT 1



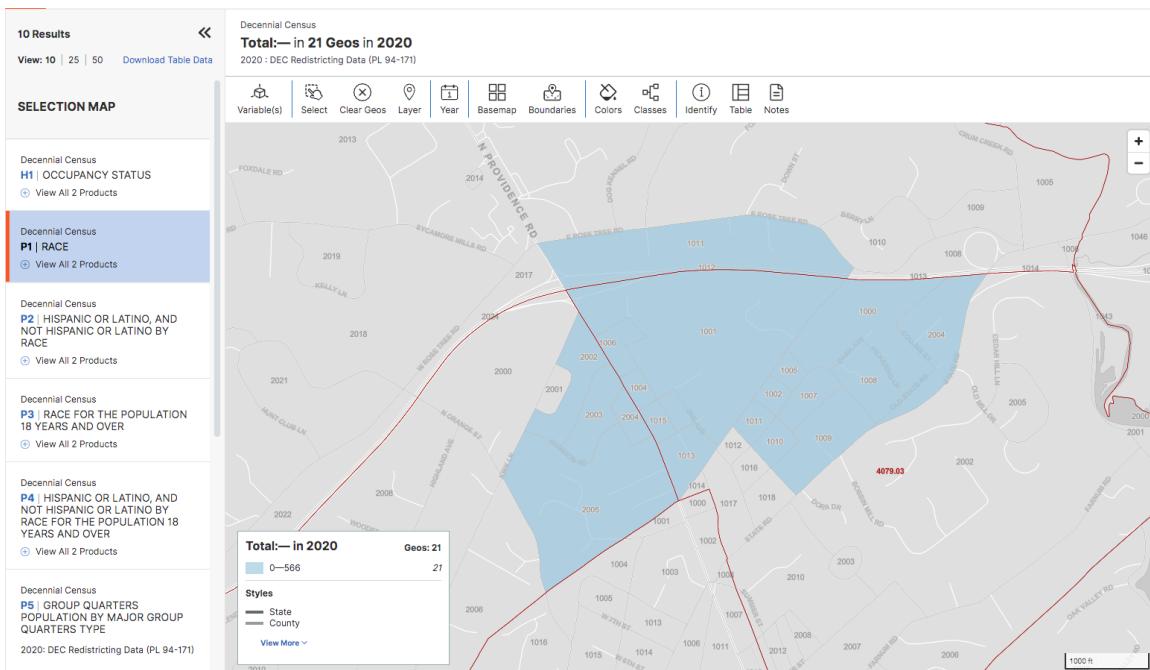
PROPOSED DISTRICT 2



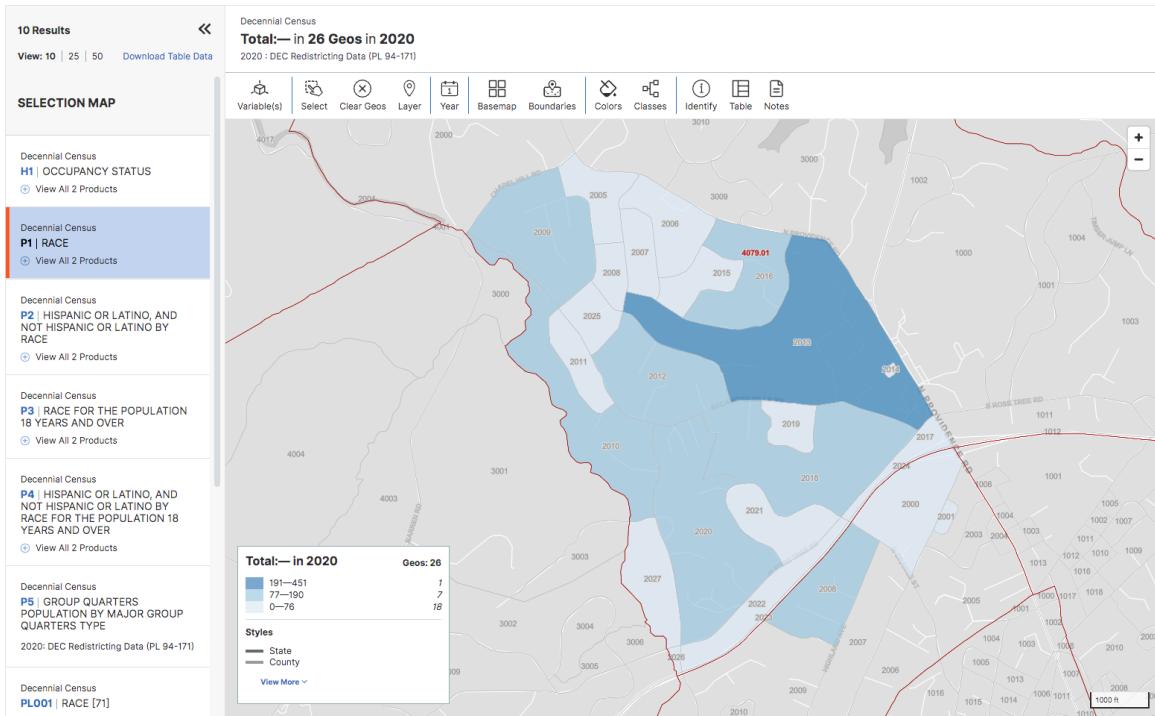
PROPOSED DISTRICT 3



PROPOSED DISTRICT 4



PROPOSED DISTRICT 5



The data for each district which was downloaded from the U.S. Census Data Tool will be provided in .pdf format so that it may be reviewed and analyzed.