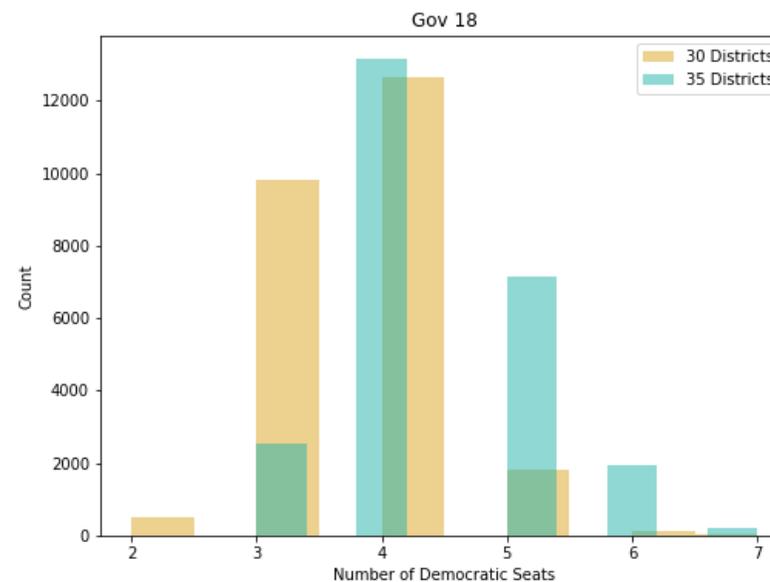
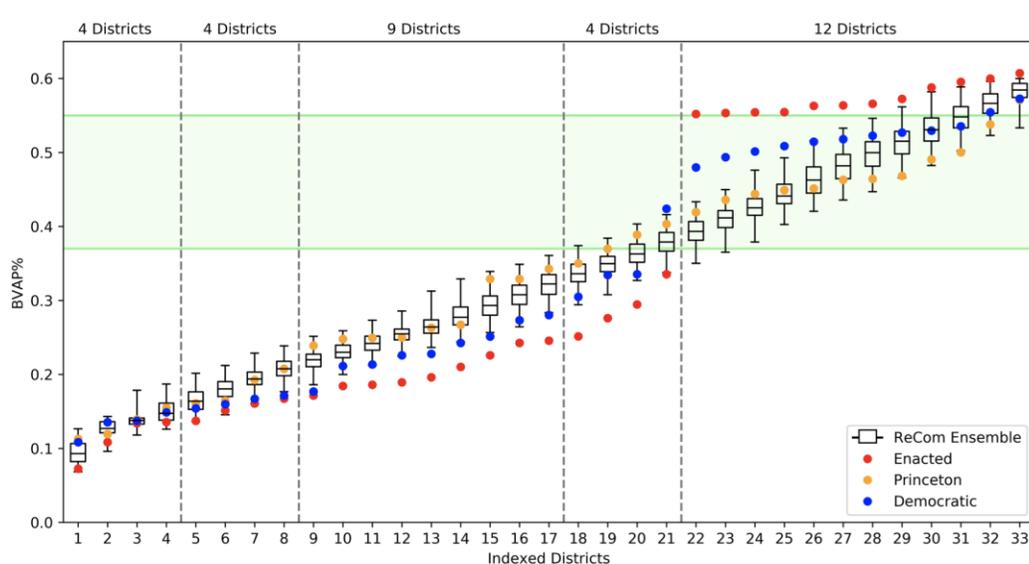


The Data Challenge

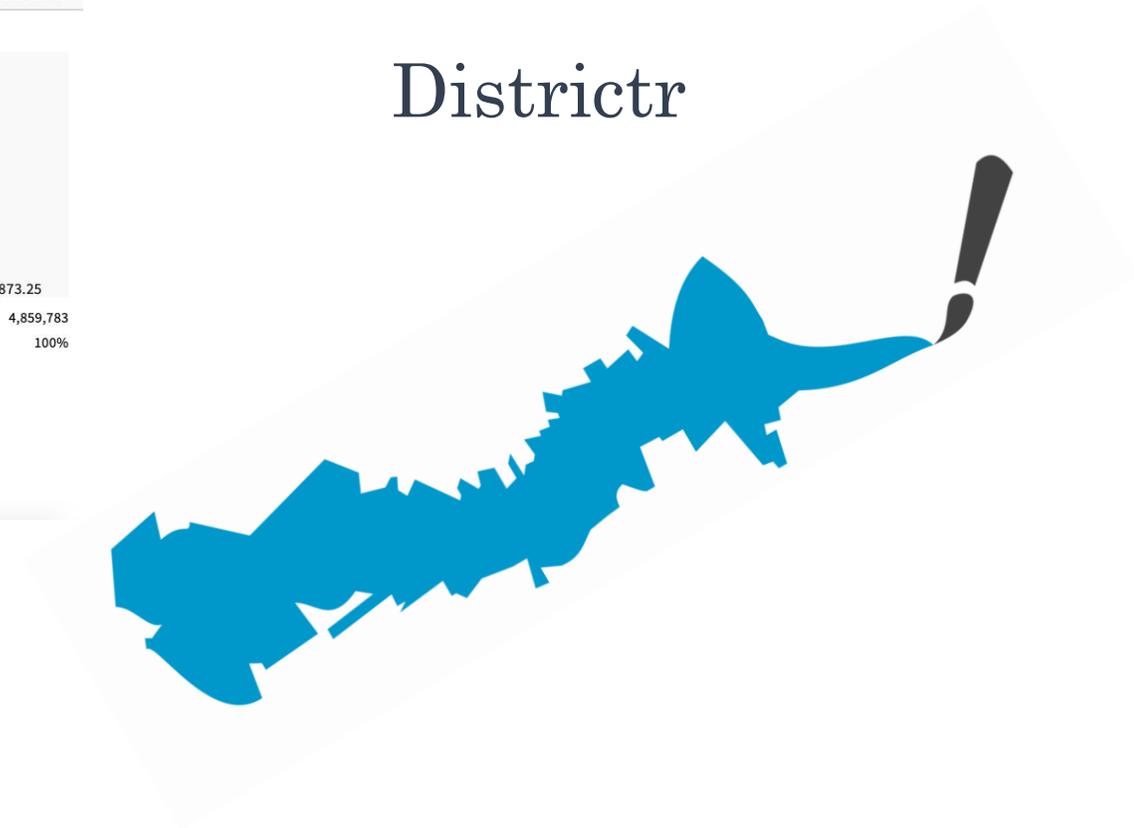
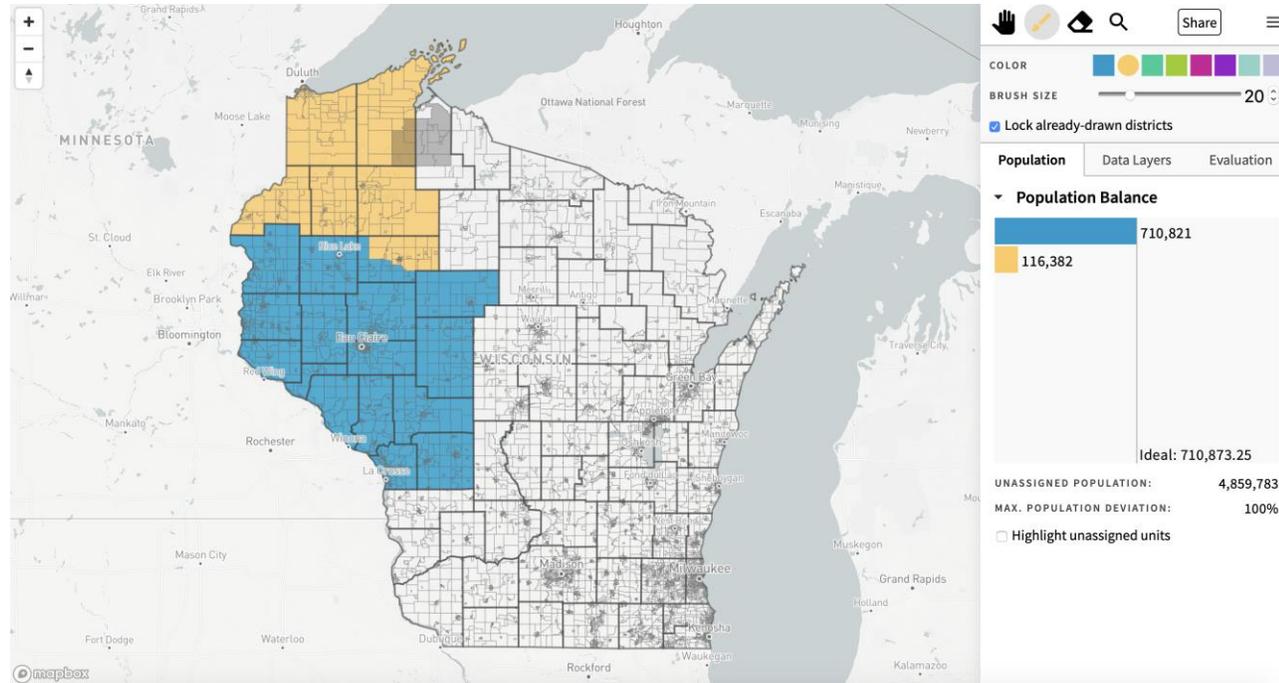
Ruth Buck

How does MGGG use election data?

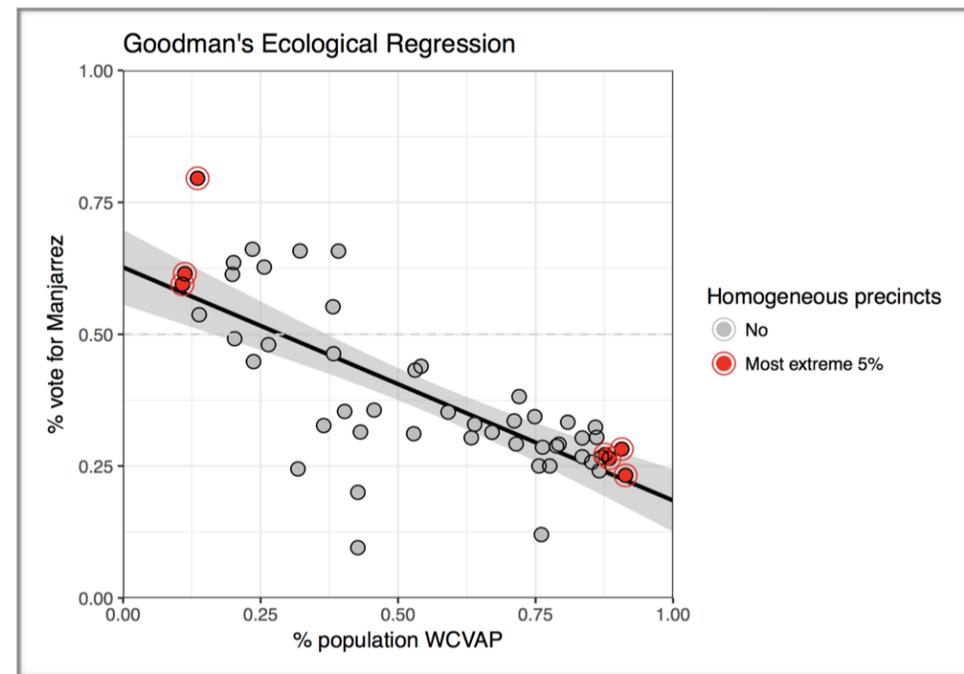
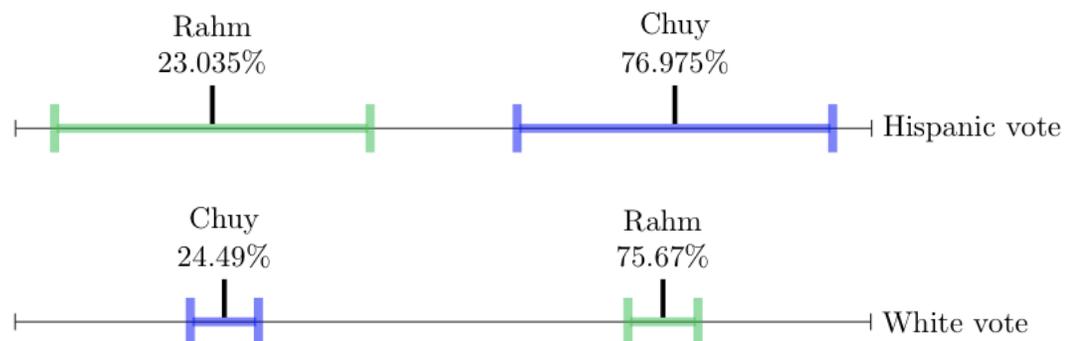


Ensemble Analysis

How does MGGG use election data?

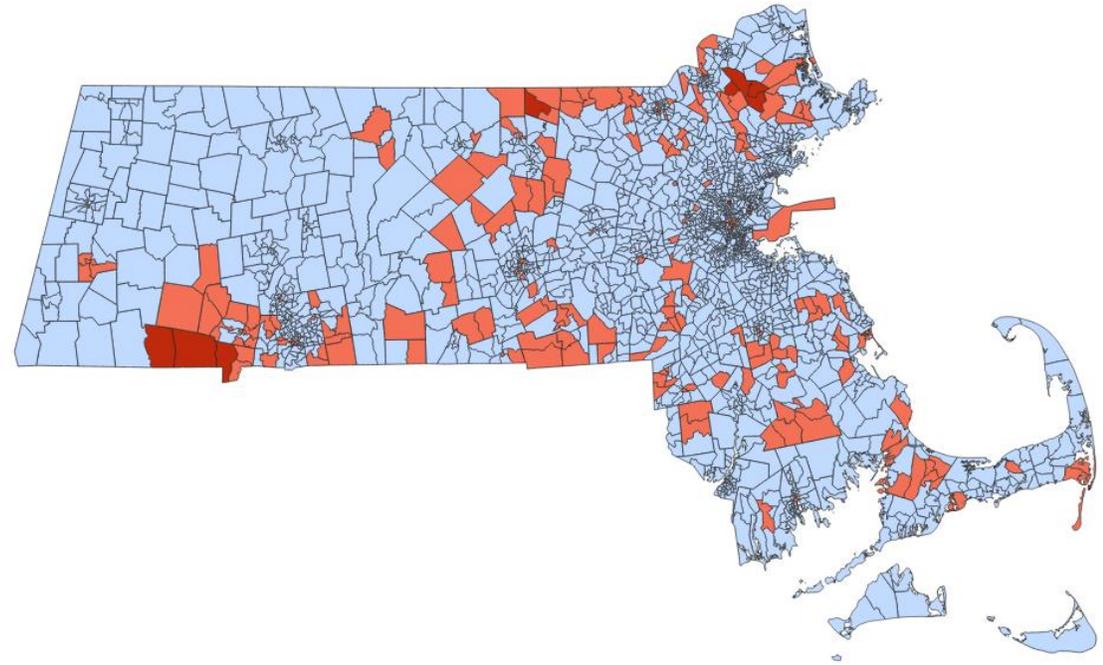
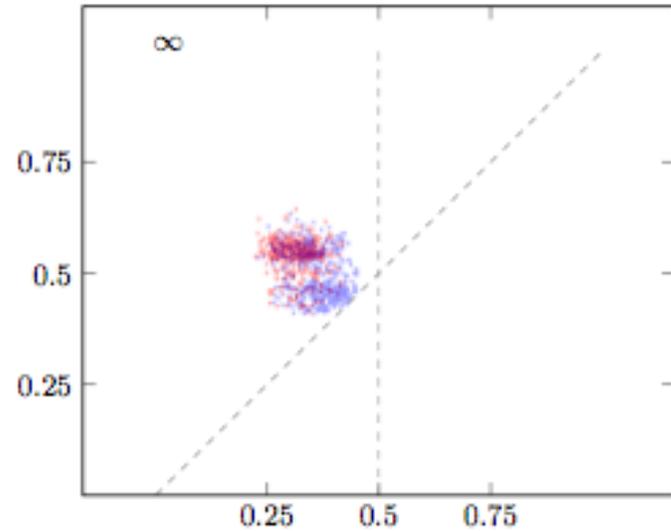


How does MGGG use election data?



Racially Polarized Voting Analysis

How does MGGG use election data?



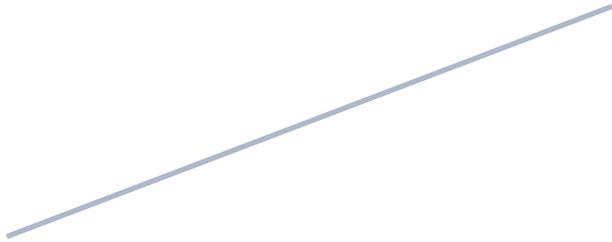
And more!

Our Data Needs

Quality, high resolution, longitudinal geospatial election data

Our Data Needs

Quality, high resolution, longitudinal geospatial election data



Locational information with associated election results

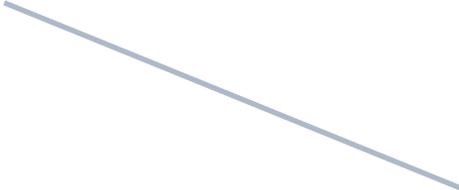
Our Data Needs

Quality, high resolution, longitudinal geospatial election data

Data for as many election years as possible on *consistent* boundaries

Our Data Needs

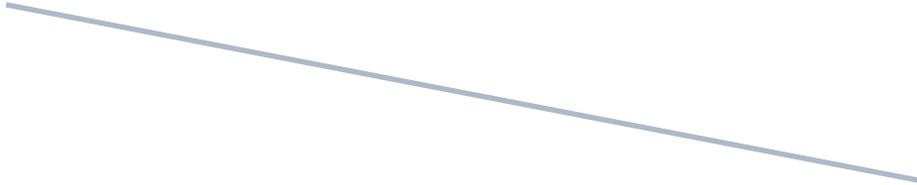
Quality, high resolution, longitudinal geospatial election data



Election results are reported at various levels of aggregation (nation, state, county, etc.). We need the data at the most granular level of aggregation possible. In nearly all cases, this is the voting precinct (aka voting tabulation district, ward, election district).

Our Data Needs

Quality, high resolution, longitudinal geospatial election data



Accurate and clean enough for use with our ensemble algorithms

What is data quality?

In breakout rooms, take five minutes to discuss what accuracy and data quality might look like.

What is data quality?

- The votes all add up; the right person wins
- The appropriate units nest
- Complete coverage (no gaps or holes)
- No null values in vote columns
- No empty geometries
- Topologically sound
- Documentation!!!

Why is it so hard?

There is no national repository of precinct level election data.



Why is it so hard?

States, counties, and other local election administrators can—and often do—change their precinct boundaries frequently and with little to no oversight.

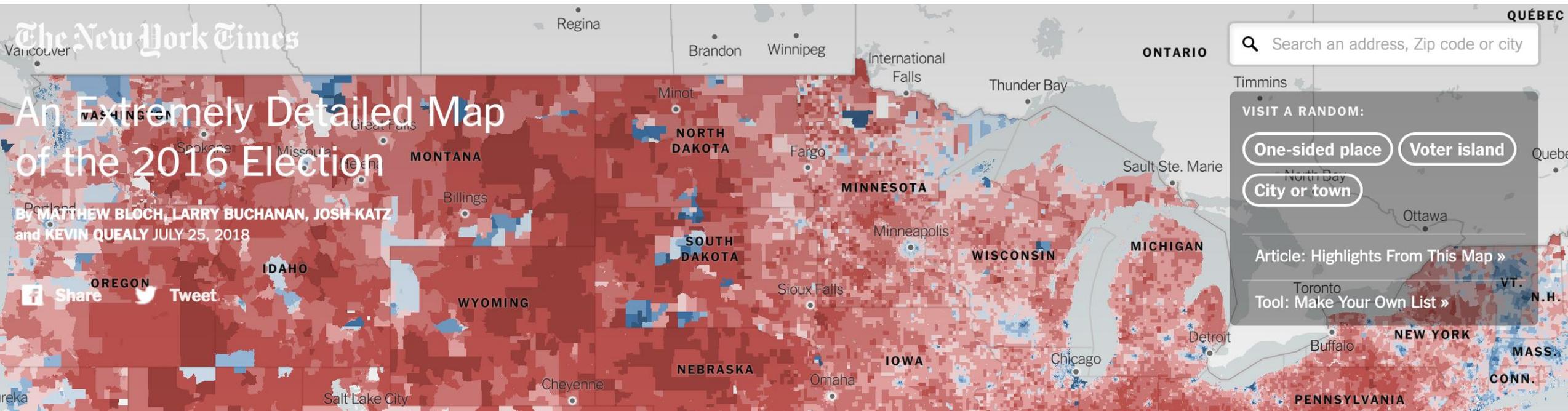
Many jurisdictions do not maintain records of past precinct boundaries.

Why is it so hard?

Even in states that provide precinct boundary data, there are often discrepancies between the spatial data and tabular election results making them difficult to join.



If it sounds too good to be true...

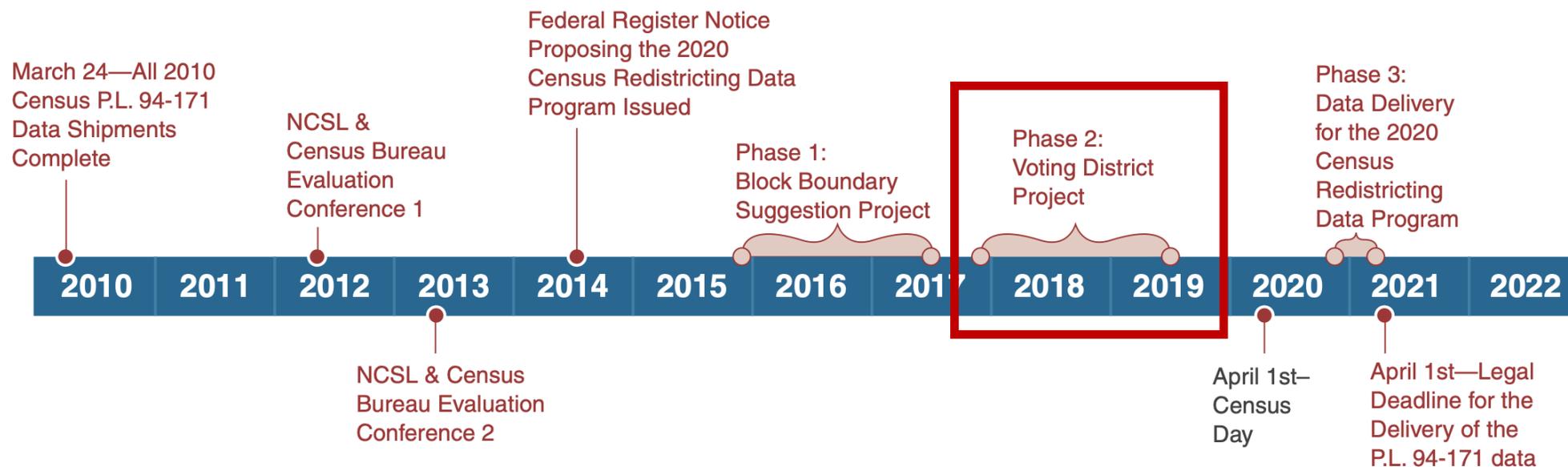


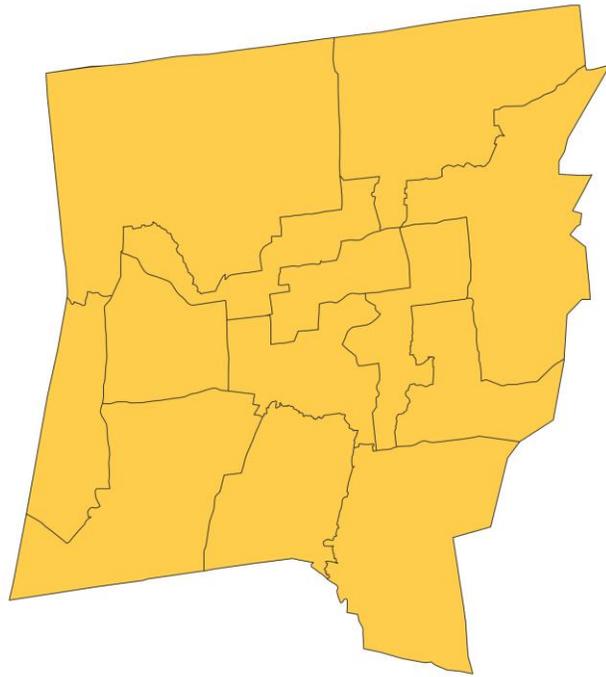
... it probably is.

What does the Census provide?

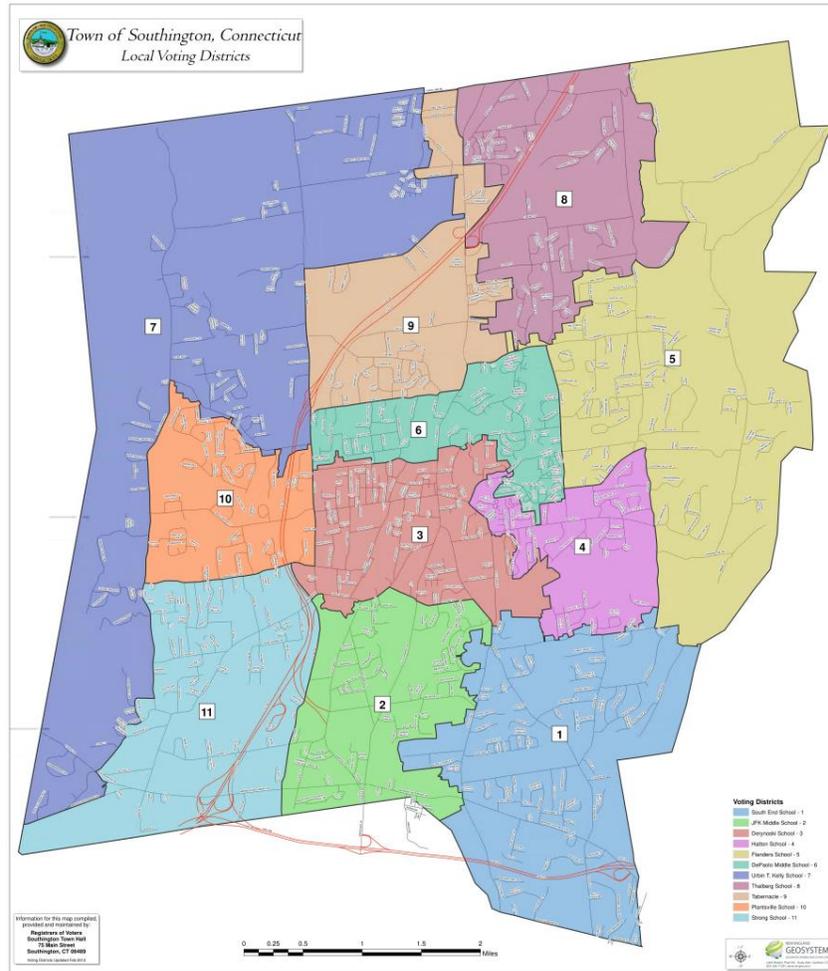
The Census provides VTDs once a decade...

... which are not *quite* equivalent to precincts or state VTDs.

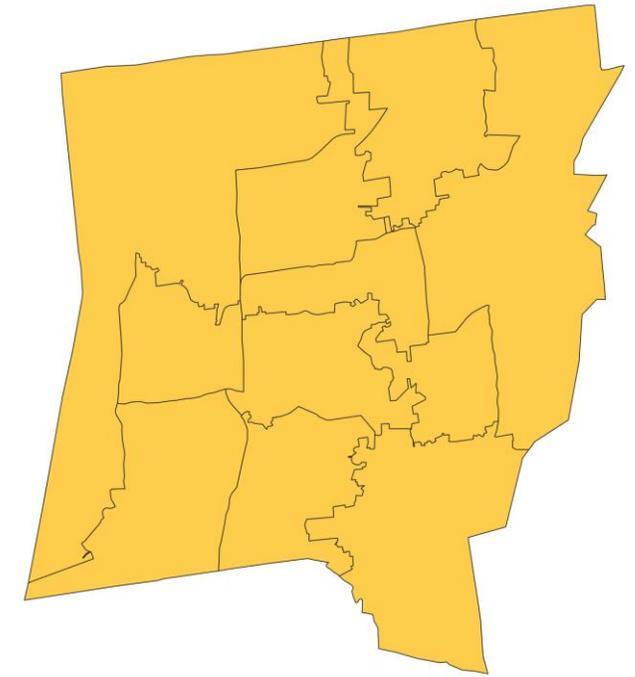




2010 Census VTDs

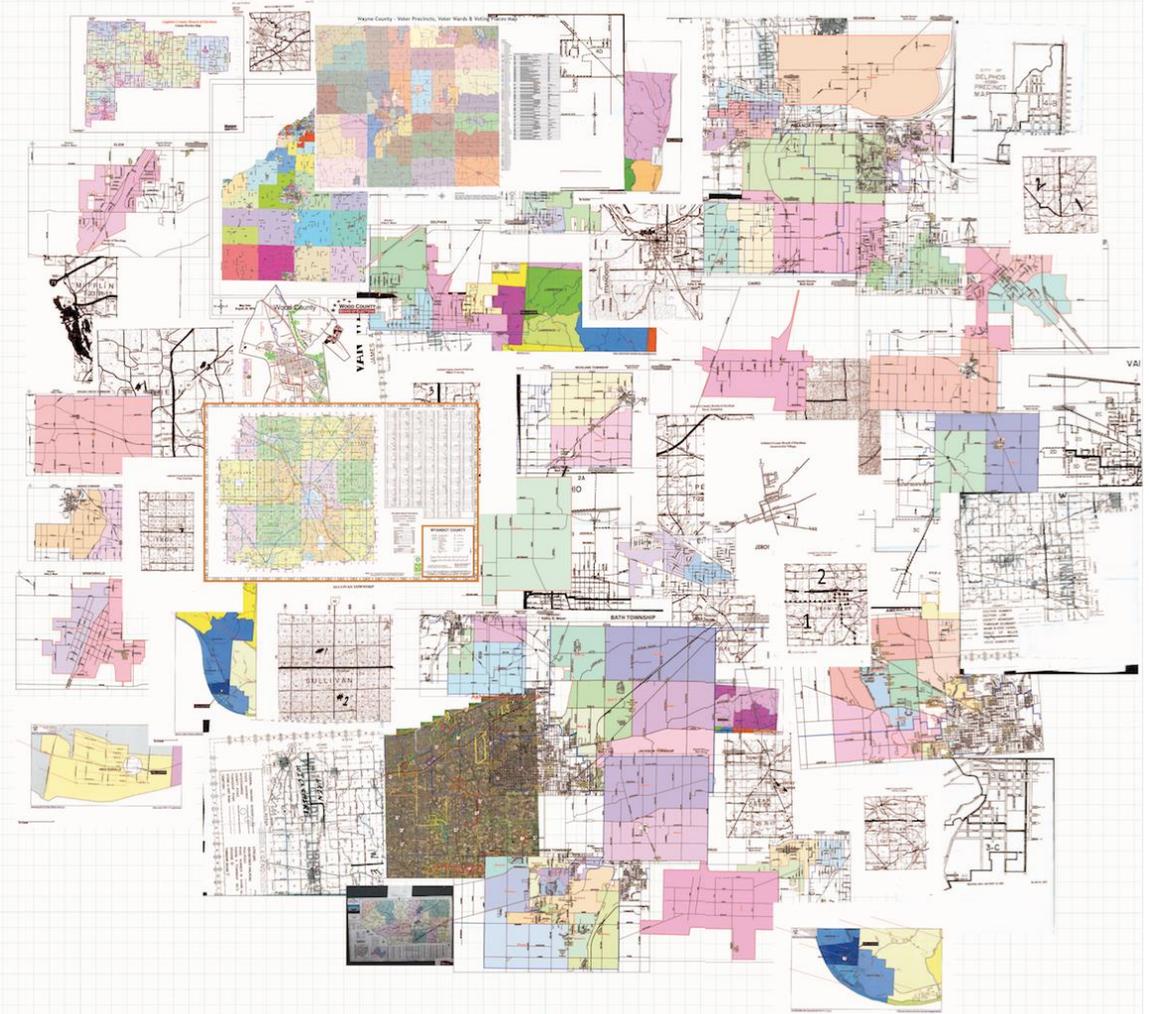
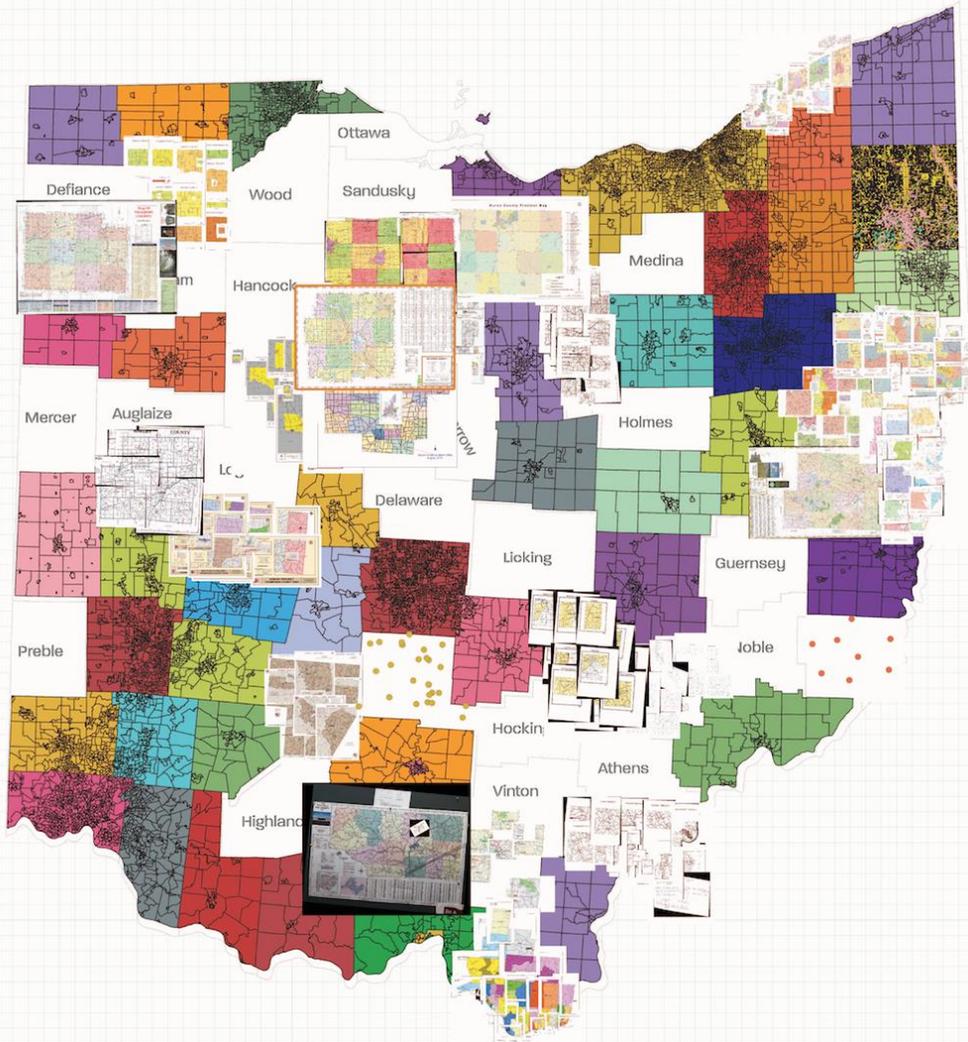


Map from
Southington, CT Clerk



2012 Enacted VTDs

Contacting Local Officials: Ohio



Sleuthing: Missouri

Barton County Results

DOYLESPOINT/MILFORD/NEWPORT/UNION
SOUTHWEST
BARTON CITY/LEROY/OZARK
CENTRAL/NASHVILLE/NORTHFORK
GOLDEN CITY
LAMAR/RICHLAND
CITY 1 & 2
CITY 3 & 4
ABSENTEE

Barton County Shapefile

Vote Center #1
Vote Center #2
Vote Center #3
Vote Center #4
Vote Center #5
Vote Center #6
Vote Center #7
Vote Center #8

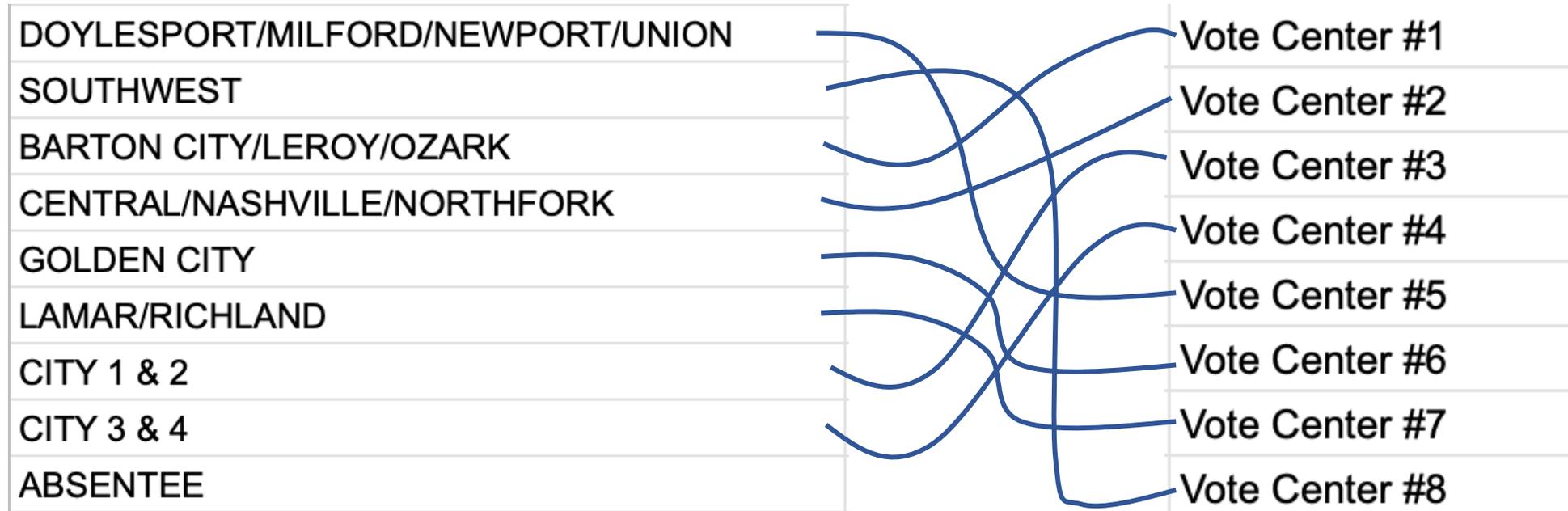
2012**BARTON COUNTY, MISSOURI
POLLING PLACES**

	TOWNSHIPS	LOCATION	ADDRESS		
VOTE CENTER #1	BARTON CITY/LEROY/OZARK	LIBERAL CITY HALL BACK ROOM	209A S MAIN	LIBERAL, MO	64762
VOTE CENTER #2	CENTRAL/NASHVILLE/NORTHFORK	OAKTON CHURCH	318 S HWY J	LAMAR, MO	64759
VOTE CENTER #3	CITY 1 & 2	NATIONAL GUARD ARMORY	106 BROADWAY	LAMAR, MO	64759
VOTE CENTER #4	CITY 3 & 4	MEMORIAL HALL	1100 BROADWAY	LAMAR, MO	64759
VOTE CENTER #5	DOYLESPOINT/MILFORD/NEWPORT/UNION	MILFORD CHRISTIAN CHURCH	760 E HWY C	LAMAR, MO	64759
VOTE CENTER #6	GOLDEN CITY	COMMUNITY CENTER	707 DEPOT AVENUE	GOLDEN CITY, MO	64748
VOTE CENTER #7	LAMAR/RICHLAND	FIRST BAPTIST CHURCH	1301 E. 6TH	LAMAR, MO	64759
VOTE CENTER #8	SOUTHWEST	MINDENMINES CITY HALL	613 MAIN	MINDENMINES, MO	64769

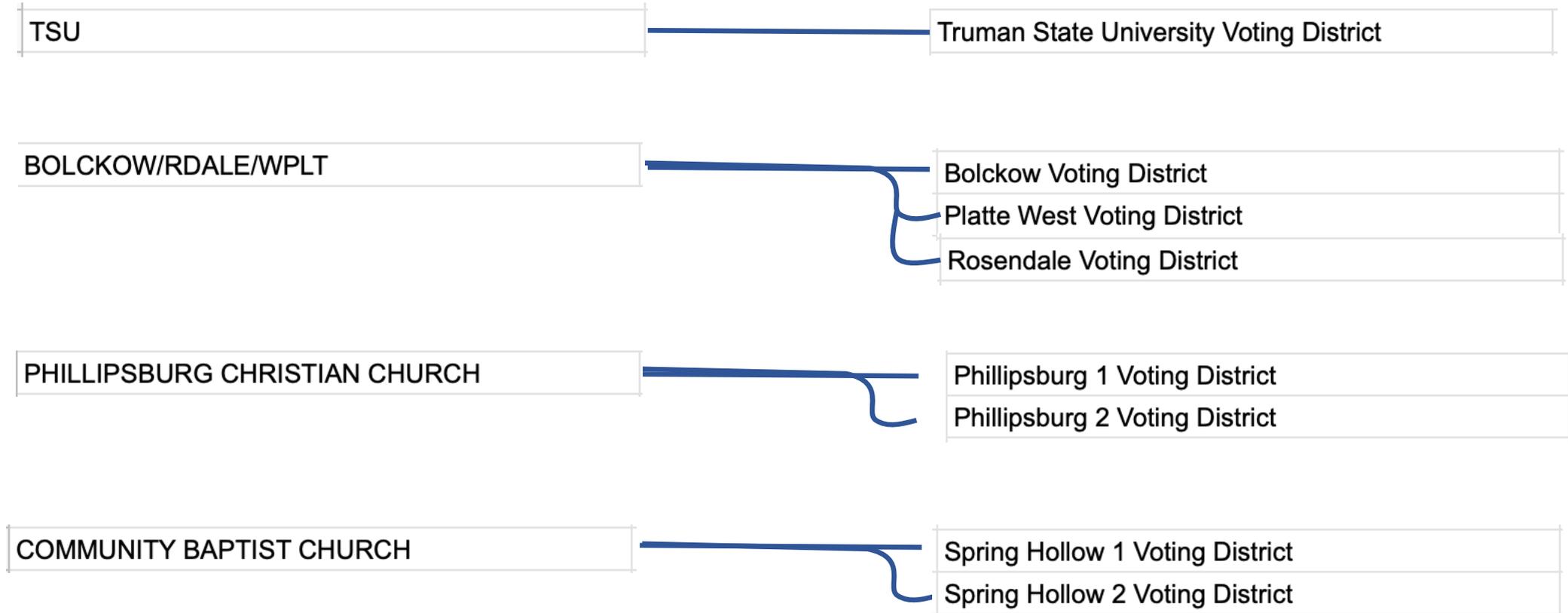
Sleuthing: Missouri

Barton County Results

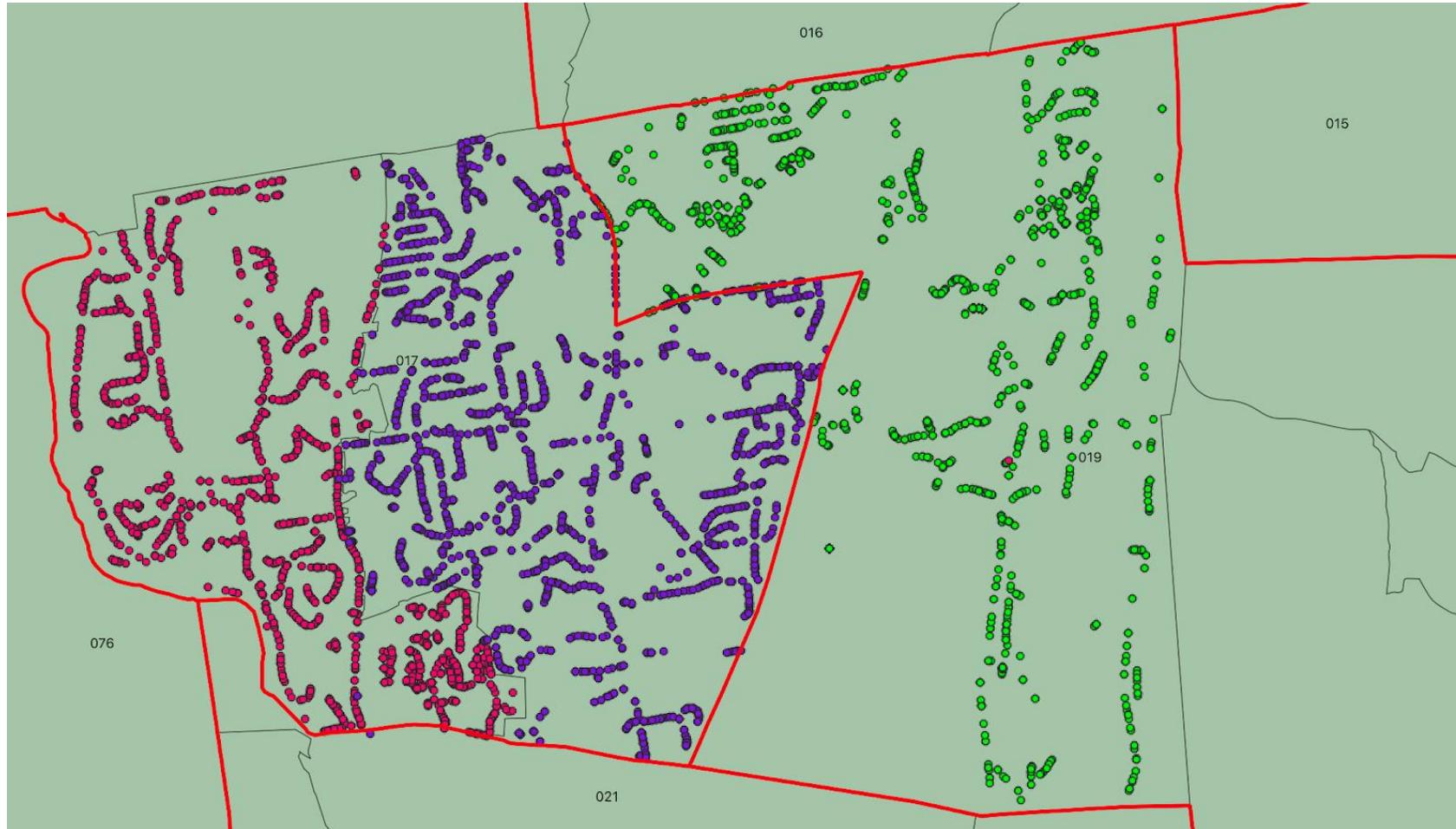
Barton County Shapefile



Sleuthing: Missouri



Getting Creative: Connecticut





Search or jump to...



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MGGG States

Open collection of precincts shapefiles for U.S. states, collected and maintained by @mggg.

Boston, MA <https://www.mggg.org/> states@mggg.org

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New

AZ-shapefiles

Arizona precinct shapefile with 2018 election results

1 0 0 0 Updated 20 days ago



CT-shapefiles

Connecticut voting district shapefile for the 2018 election

0 0 0 0 Updated on Apr 20



MD-shapefiles

Maryland precinct shapefiles with 2012 to 2018 election results

0 0 0 0 Updated on Apr 13



People

4 >



Invite someone