

# Redistricting



# Overview

- How the counties update address ranges to account for jurisdictional changes (e.g., redistricting, municipal incorporations etc.)
- How voters are mapped to those address ranges, and associated with jurisdictions
- The audits we perform to ensure that voters are assigned to the proper jurisdictions
- The future: Moving from address ranges to an automated geospatial solution

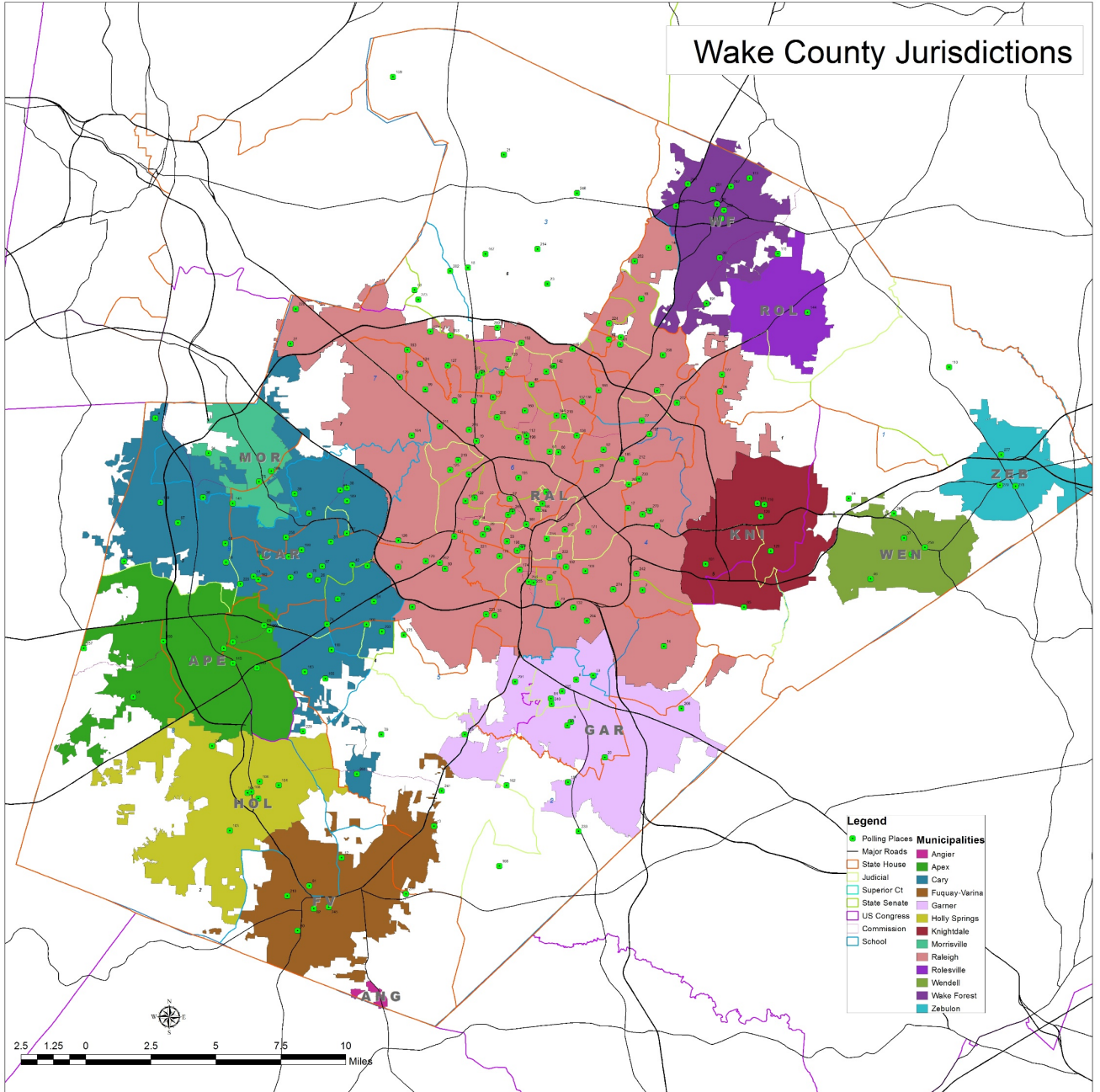
## STATEWIDE JURISDICTIONS

- US Congress
- State House
- State Senate
- County Boundary
- Judicial Districts
- Prosecutorial Districts
- Superior Courts

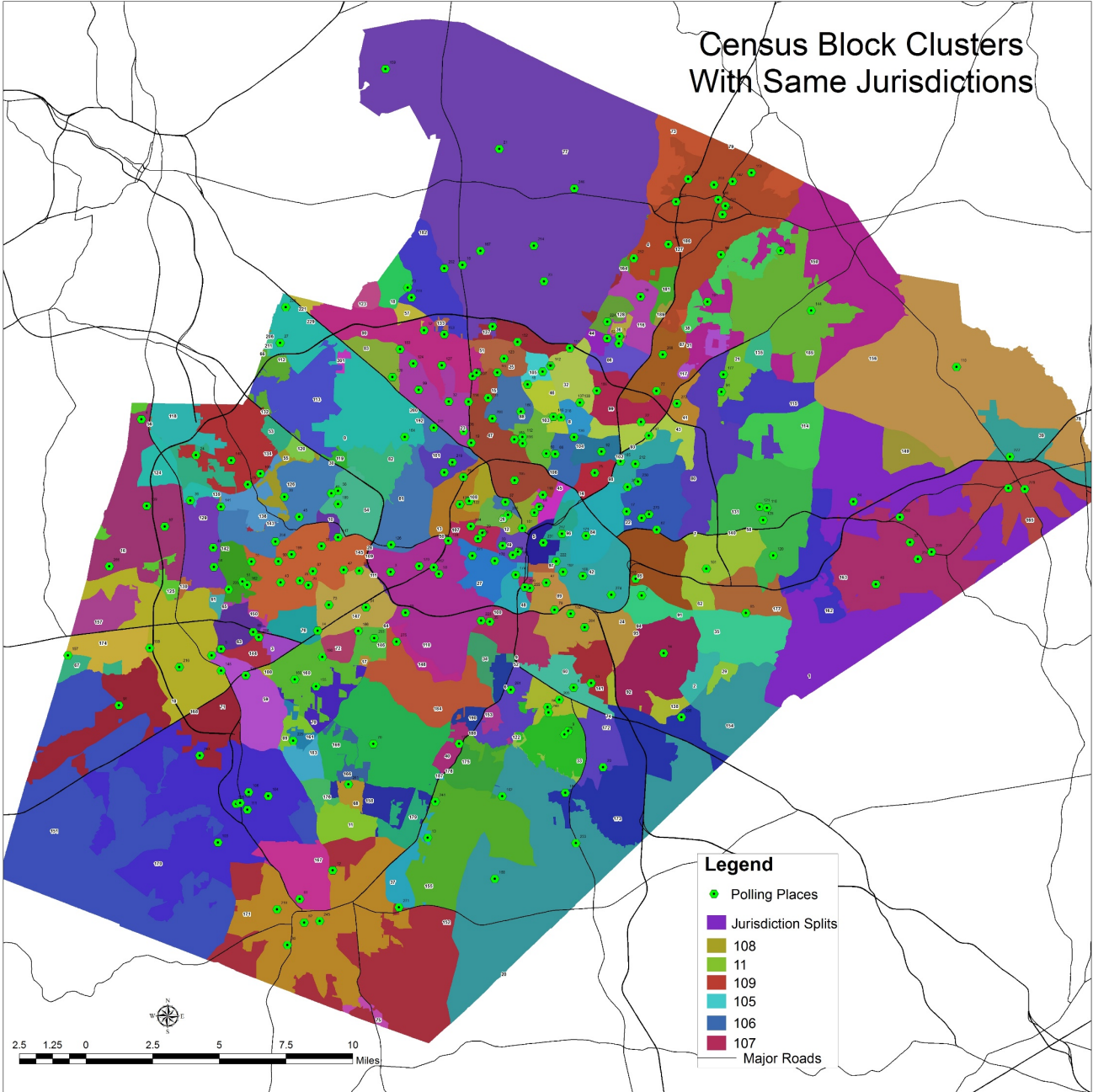
## LOCAL JURISDICTIONS

- Municipality, Municipal Districts, Wards, Townships
- Commissioner
- School
- Fire
- Water, Sewer and Sanitary

# Wake County Jurisdictions

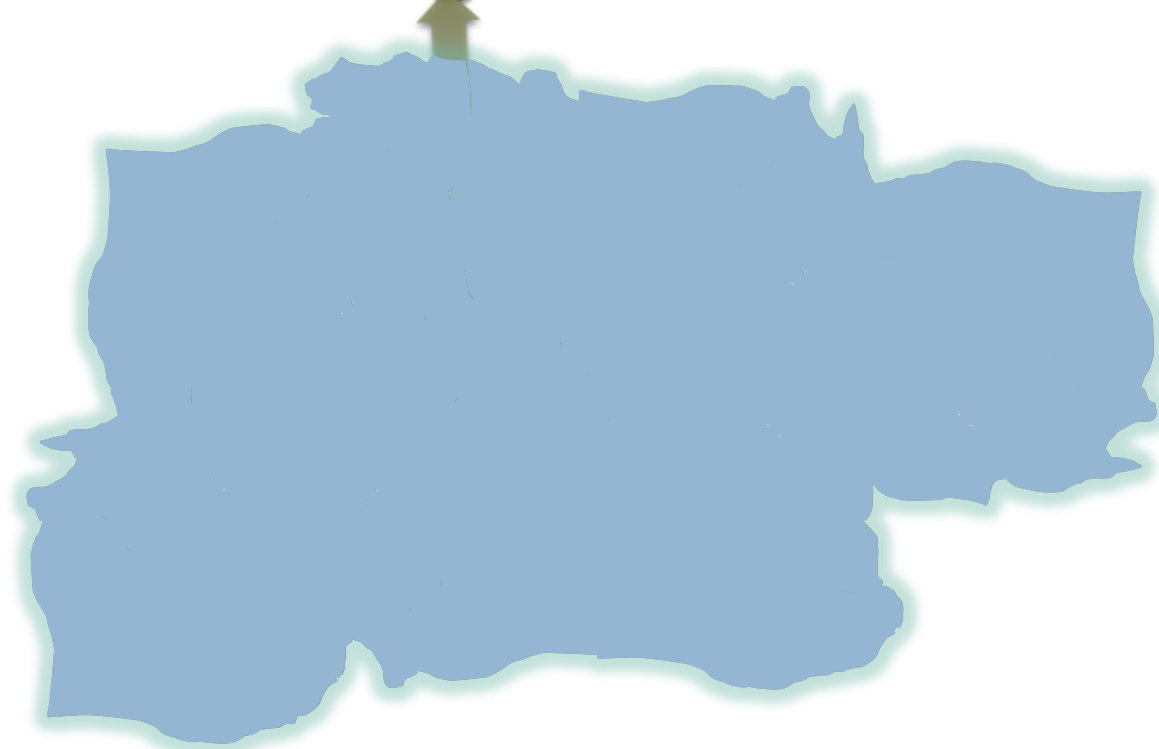


# Census Block Clusters With Same Jurisdictions



# Precincts & Precinct Splits

Polling Place



# Address Ranges

Results List

	Low	High	OE	Dir	Street Name	Typ	Sfx	City	St	Zip	PCT	MUNI	CONG	SUPCT	JUD	NCSN	NCHSE	PROS	VTD
▶	1600	1698	E		BETTYS	TRL		BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	1601	1699	O		BETTYS	TRL		BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	2600	2998	E		CHARLEY	LN		BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	2601	2999	O		CHARLEY	LN		BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	5600	6298	E		HOLT CROSS	RD		BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	5601	6299	O		HOLT CROSS	RD		BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	6500	6768	E	S	NC HWY 49			BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01
	6575	6735	O	S	NC HWY 49			BURLINGTON	NC	27215	01		13	15A	15A	24	064	17	01



# GIS Datasets

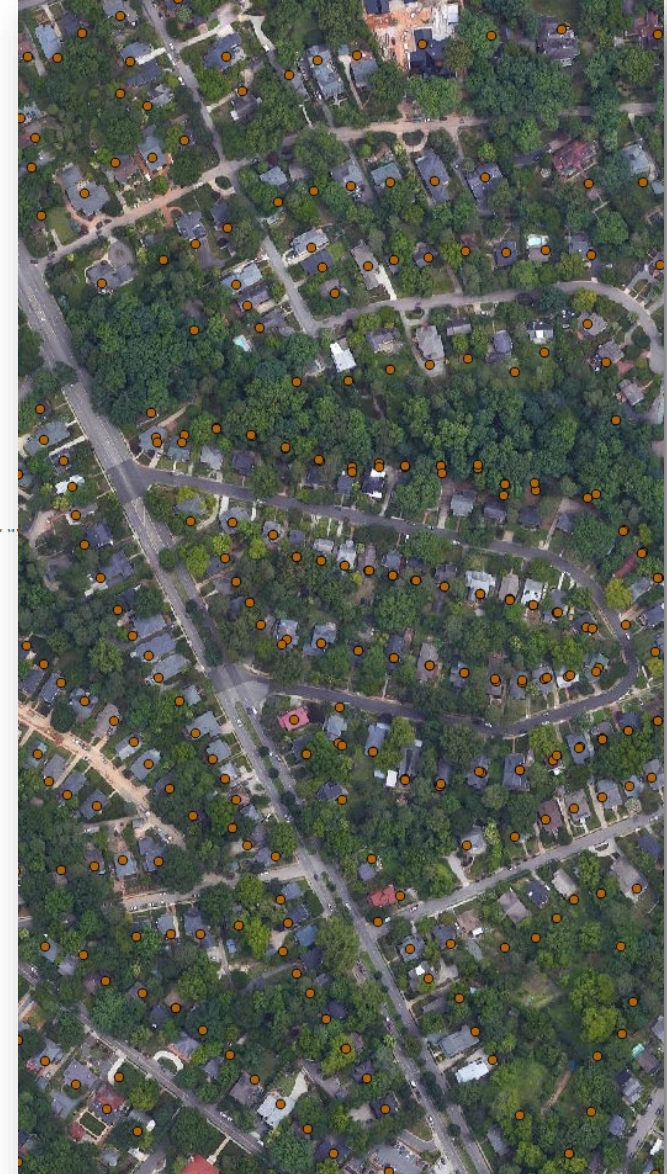
## Address Points

id	objectid	shape	vr_address	city_cy	zip_vr	house_n_vr	half_no_vr	st_
[PK] integer	integer	geometry	character varying (200)	character varying (120)	character varying (20)	integer	character varying (1)	cha
9113037	1	0101000020D80...	425 VALLEY DR	WINSTON-SALEM	27107	425	[null]	
9113038	2	0101000020D80...	745 BAILEY RD	WINSTON-SALEM	27107	745	[null]	
9113039	3	0101000020D80...	469 INVERNESS DR	WINSTON-SALEM	27107	469	[null]	
9113040	4	0101000020D80...	3416 FRIENDSHIP LEDFOR...	WINSTON-SALEM	27107	3416	[null]	

## Geocoded Voters

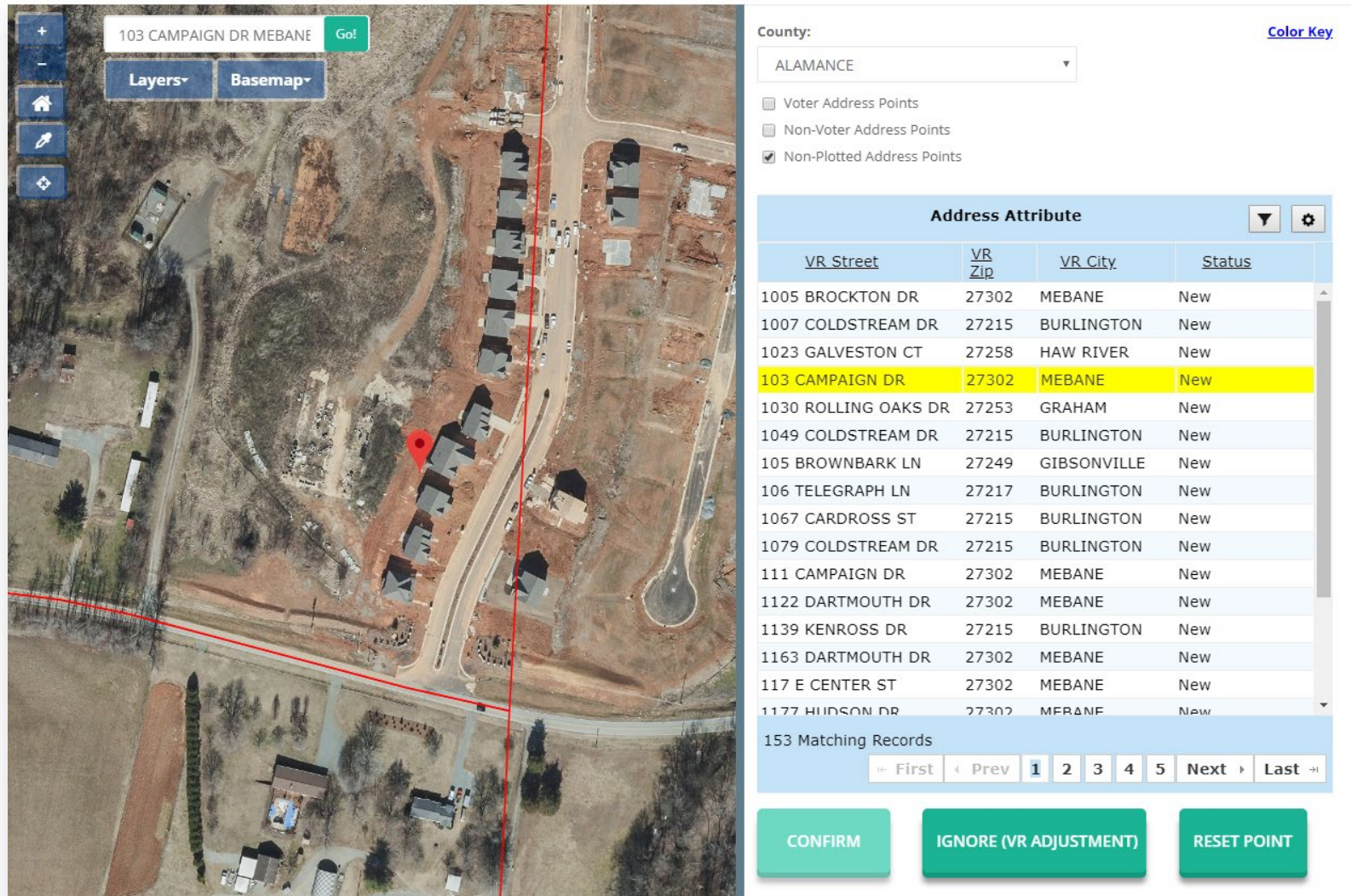
year	mapped-voters	not-mapped	%un-mapped
2013	6,481,197	339,670	5.20%
2018	6,897,448	96,620	1.40%
2019	6,690,100	154,277	2.30%

Columns (14)
id
objectid
shape
vr_address
city_cy
zip_vr
house_n_vr
half_no_vr
st_dir_vr
st_name_vr
st_type_vr
st_suf_vr
shp_source
county_id





# Audit Results



103 CAMPAIGN DR MEBANE Go!

Layers Basemap

County: ALAMANCE [Color Key](#)

Voter Address Points  
 Non-Voter Address Points  
 Non-Plotted Address Points

Address Attribute			
VR Street	VR Zip	VR City	Status
1005 BROCKTON DR	27302	MEBANE	New
1007 COLDSTREAM DR	27215	BURLINGTON	New
1023 GALVESTON CT	27258	HAW RIVER	New
103 CAMPAIGN DR	27302	MEBANE	New
1030 ROLLING OAKS DR	27253	GRAHAM	New
1049 COLDSTREAM DR	27215	BURLINGTON	New
105 BROWNBARK LN	27249	GIBSONVILLE	New
106 TELEGRAPH LN	27217	BURLINGTON	New
1067 CARDROSS ST	27215	BURLINGTON	New
1079 COLDSTREAM DR	27215	BURLINGTON	New
111 CAMPAIGN DR	27302	MEBANE	New
1122 DARTMOUTH DR	27302	MEBANE	New
1139 KENROSS DR	27215	BURLINGTON	New
1163 DARTMOUTH DR	27302	MEBANE	New
117 E CENTER ST	27302	MEBANE	New
1177 HUDSON DR	27302	MEBANE	New

153 Matching Records

First Prev 1 2 3 4 5 Next Last

CONFIRM IGNORE (VR ADJUSTMENT) RESET POINT

# Audit Results

**NORTH CAROLINA**  
STATE BOARD OF ELECTIONS

Interactive GEO Points Map

Search

**Layers** **Basemap**

- PRECINCTS
- COUNTY

County:  [Color Key](#)

- Voter Address Points
- Non-Voter Address Points
- Non-Plotted Address Points

**Address Attribute**

VR Street	VR Zip	VR City	Status
101 WHITE POPLAR DR	27244	ELON	New
102 WHITE POPLAR DR	27244	ELON	New
103 WHITE POPLAR DR	27244	ELON	New
104 FAIRVIEW ST	27217	BURLINGTON	New
104 W ELM ST	27253	GRAHAM	New
104 WHITE POPLAR DR	27244	ELON	New
105 WHITE POPLAR DR	27244	ELON	New
106 WHITE POPLAR DR	27244	ELON	New
107 WHITE POPLAR DR	27244	ELON	New
108 N NINTH ST	27302	MEBANE	New
110 N NINTH ST	27302	MEBANE	New
114 N NINTH ST	27302	MEBANE	New
116 N NINTH ST	27302	MEBANE	New
118 N NINTH ST	27302	MEBANE	New
120 N NINTH ST	27302	MEBANE	New
1202 BROOKVIEW DR	27244	ELON	New

67 Matching Records

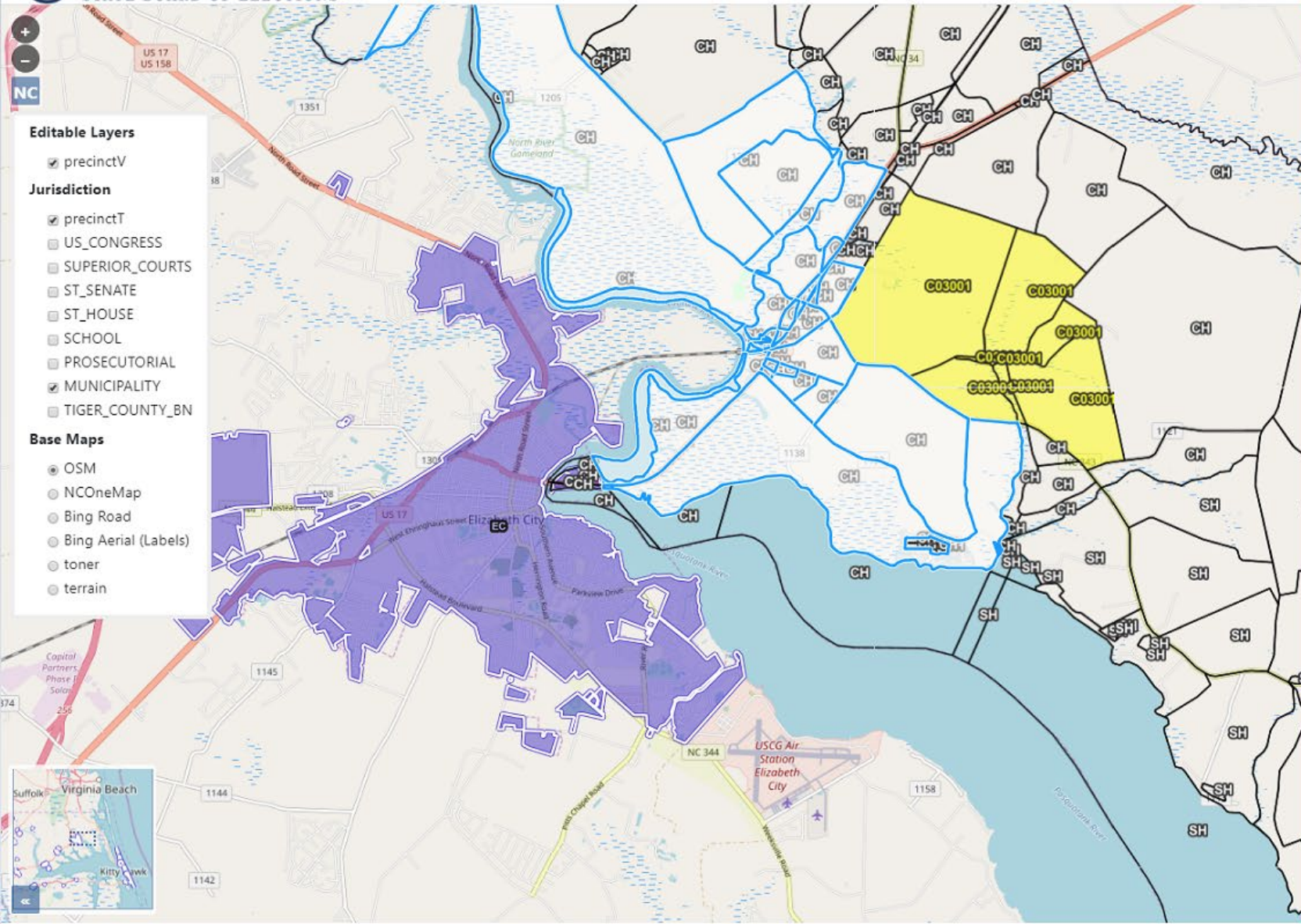
# Audit Results

	A	B	C	D	E	F	G	H	I	J	K	L
1	county_id	county_nm	voters	no_geos	precinct	county	state_hou	state_sen	us_congre	prosecuto	superior_j	judicial
2	1	ALAMANCE	98520	188	138	20	90	89	89	89	89	89
3	2	ALEXANDER	23216	9	35	11	11	11	11	9	9	9
4	3	ALLEGHAN	6917	18	7	22	4	0	0	3	3	3
5	4	ANSON	15629	396	128	16	0	11	0	11	11	11
6	5	ASHE	17848	739	429	48	15	0	0	1	1	1
7	6	AVERY	11180	1342	140	15	23	24	2	2	1	2
8	7	BEAUFORT	31623	1539	220	9	3	7	1	4	4	4
9	8	BERTIE	12572	400	9	2	2	2	0	0	0	0
10	9	BLADEN	21494	519	63	45	33	33	12	4	3	4
11	10	BRUNSWICK	101081	844	0	0	0	0	0	0	0	0
12	11	BUNCOMBE	189522	395	290	61	245	225	226	245	20	245
13	12	BURKE	52994	620	135	75	40	15	14	15	14	4
14	13	CABARRUS	132531	3661	447	140	143	129	110	129	120	129
15	14	CALDWELL	49927	1850	686	90	98	36	37	37	33	37
16	15	CAMDEN	7404	644	46	0	0	0	0	0	0	0
17	16	CARTERET	50299	1278	22	2	0	0	0	0	0	0
18	17	CASWELL	14362	124	6	19	6	2	0	2	2	2
19	18	CATAWBA	98907	57	242	98	238	238	38	98879	237	201
20	19	CHATHAM	52265	4148	81	32	28	21	29	21	19	21
21	20	CHEROKEE	20741	894	1085	0	0	0	0	0	0	0
22	21	CHOWAN	9589	9	3	0	0	0	0	0	0	0
23	22	CLAY	8351	493	431	8	9	9	9	9	0	9
24	23	CLEVELAND	61033	32	3	8	17	1	0	1	1	1
25	24	COLUMBUS	34032	492	94	23	53	42	3	2	0	2
26	25	Craven	66305	899	4	0	4	4	4	4	0	4
27	26	CUMBERLAND	202171	4724	338	4	233	115	115	115	112	115
28	27	CURRITUCK	19343	1114	0	1	0	0	0	0	0	0
29	28	DARE	28439	2044	6	0	0	0	0	0	0	0
30	29	DAVIDSON	103333	2275	223	59	76	14	13	23	23	23
31	30	DAVIE	28568	244	27	9	6	6	4	6	5	6
32	31	DUPLIN	28146	550	8	7	7	4	1	3	3	3
33	32	DURHAM	218619	11050	266	19	235	203	114	204	306	204
34	33	EDGECOMB	33731	751	15	3	3	2	1	2	3	2
35	34	FORSYTH	247072	10813	424	75	341	119	64	64	126	64
36	35	FRANKLIN	42166	3763	379	79	93	8	8	85	85	85



# Appendix





- Editable Layers**
- precinctV
- Jurisdiction**
- precinctT
  - US\_CONGRESS
  - SUPERIOR\_COURTS
  - ST\_SENATE
  - ST\_HOUSE
  - SCHOOL
  - PROSECUTORIAL
  - MUNICIPALITY
  - TIGER\_COUNTY\_BN
- Base Maps**
- OSM
  - NCOneMap
  - Bing Road
  - Bing Aerial (Labels)
  - toner
  - terrain

Select Censusblocks  
 Use Ctrl+Drag (Command+Drag on Mac) to draw boxes to select multiple blocks  
 Use Shift + left mouse click to select or unselect multiple blocks

Table of selected censusblocks:  
 Show 10 entries Search:

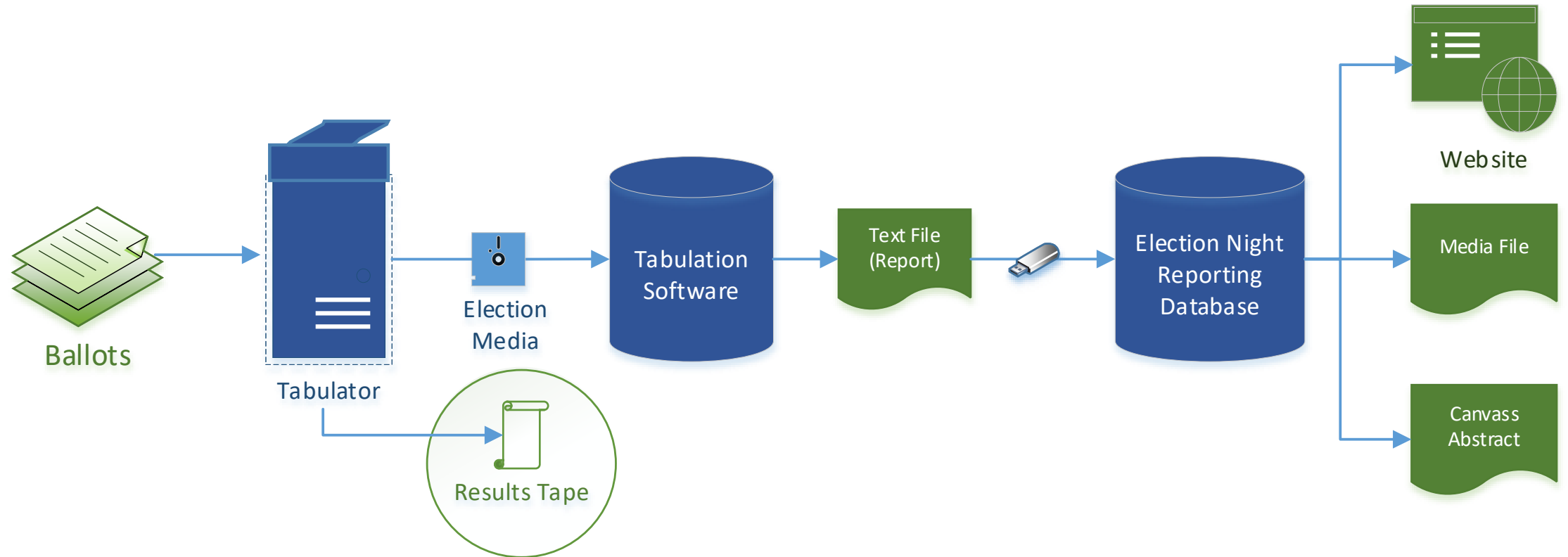
census_block_id	sbe_prec	cbe_prec	tractce10	blockce
370299501012052	CH	CH	950101	2052
370299501012056	CH	CH	950101	2056
370299501012057	CH	CH	950101	2057
370299501012058	CH	CH	950101	2058
370299501012059	CH	CH	950101	2059
370299501012060	CH	CH	950101	2060
370299501012071	CH	CH	950101	2071
370299501012072	CH	CH	950101	2072
370299501012073	CH	CH	950101	2073
370299501012074	CH	CH	950101	2074

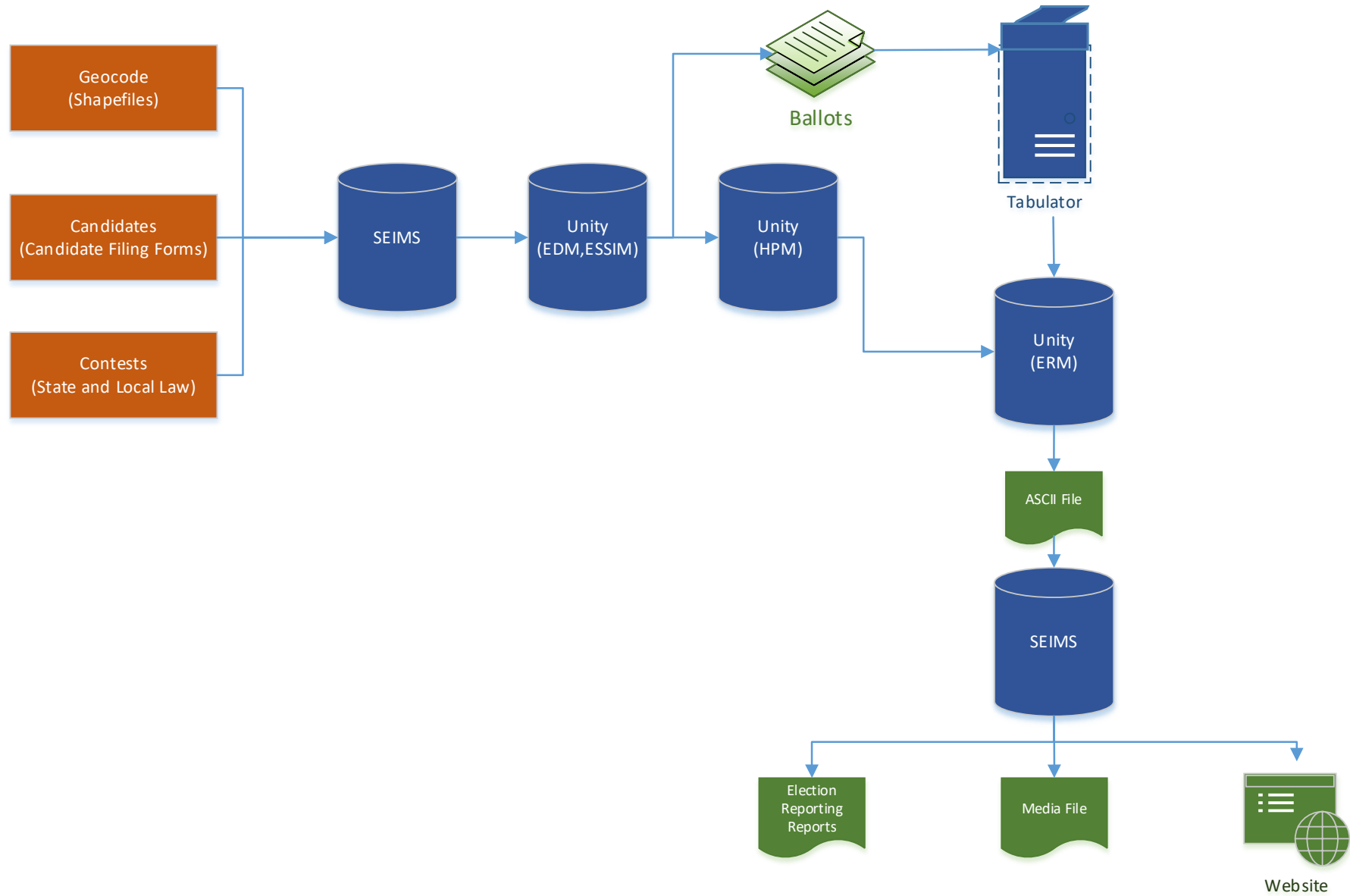
Showing 1 to 10 of 36 entries Previous     Next

Change selected blocks to C03001

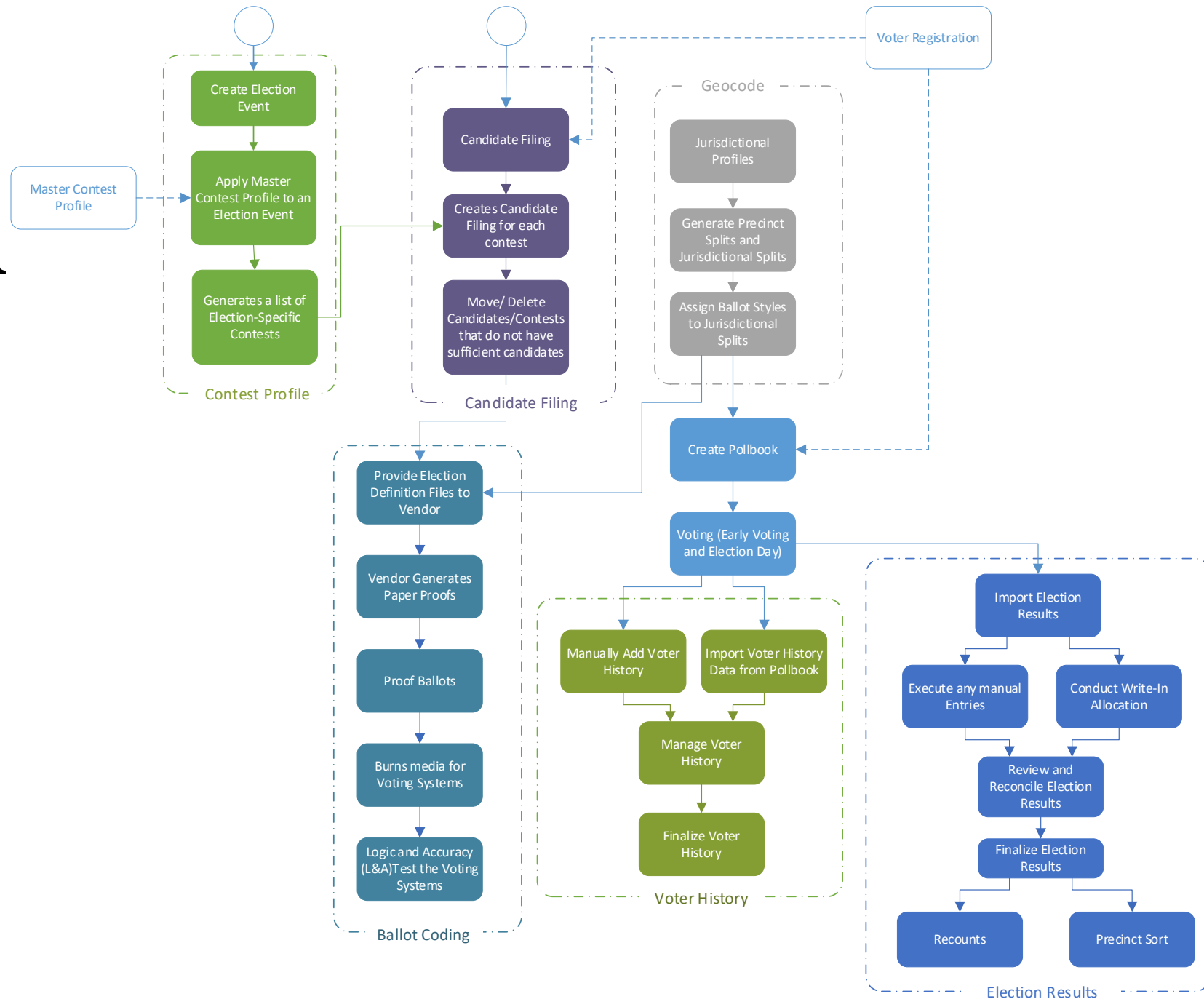


# Voting Data Flow





# Election Data Flows



10/17/2018 12:00 AM

# Early Voting Turnout By Time Period

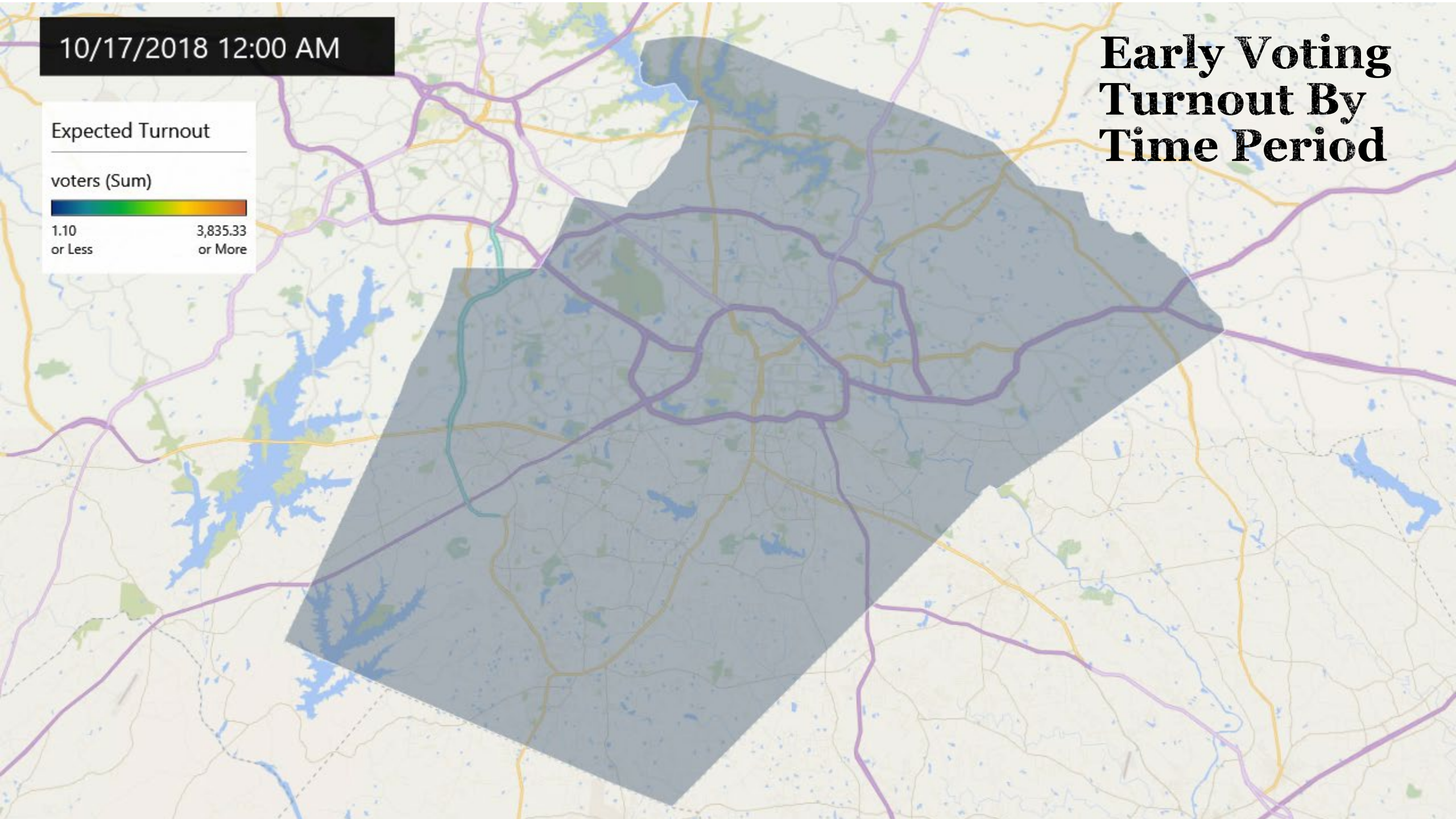
Expected Turnout

voters (Sum)



1.10  
or Less

3,835.33  
or More



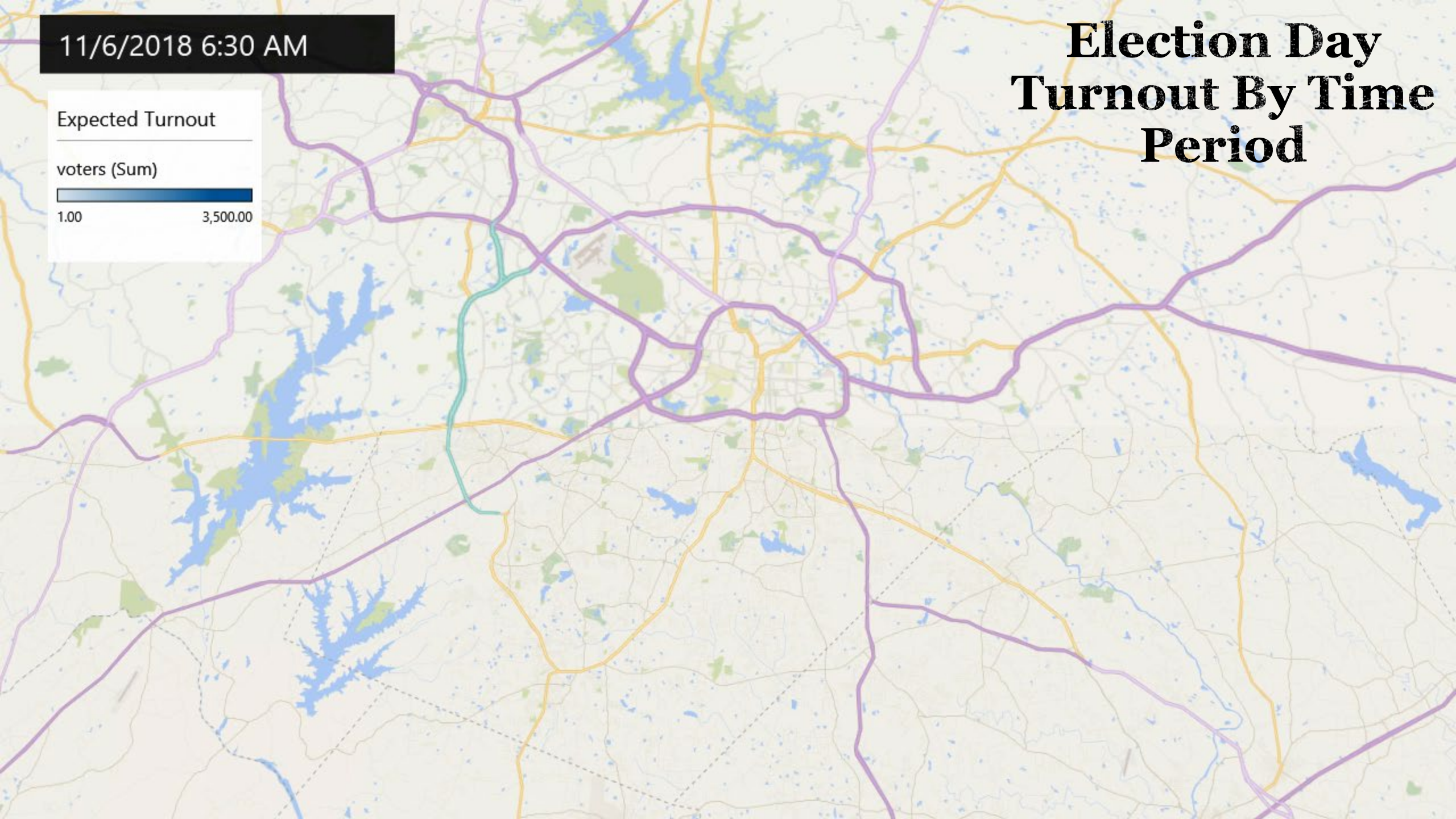


11/6/2018 6:30 AM

# Election Day Turnout By Time Period

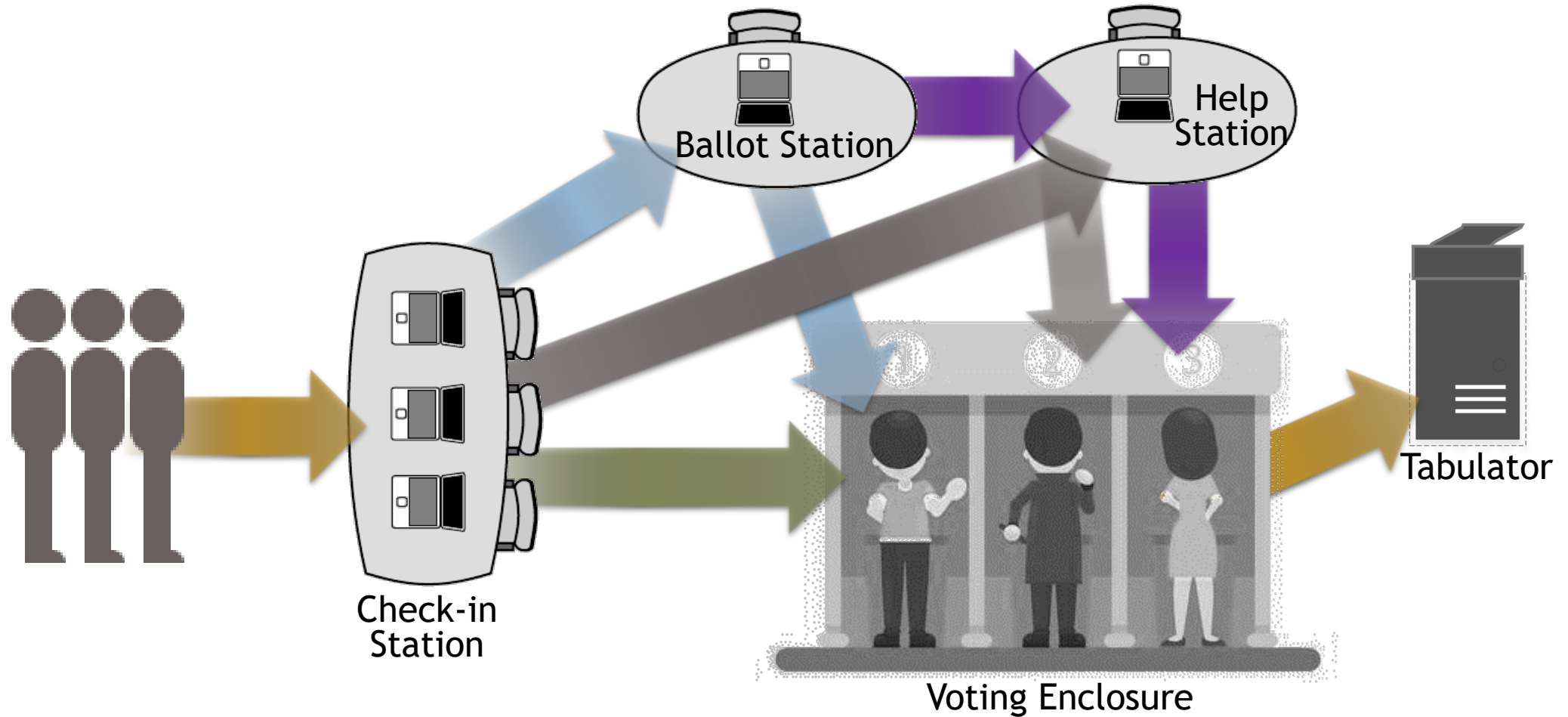
Expected Turnout

voters (Sum)

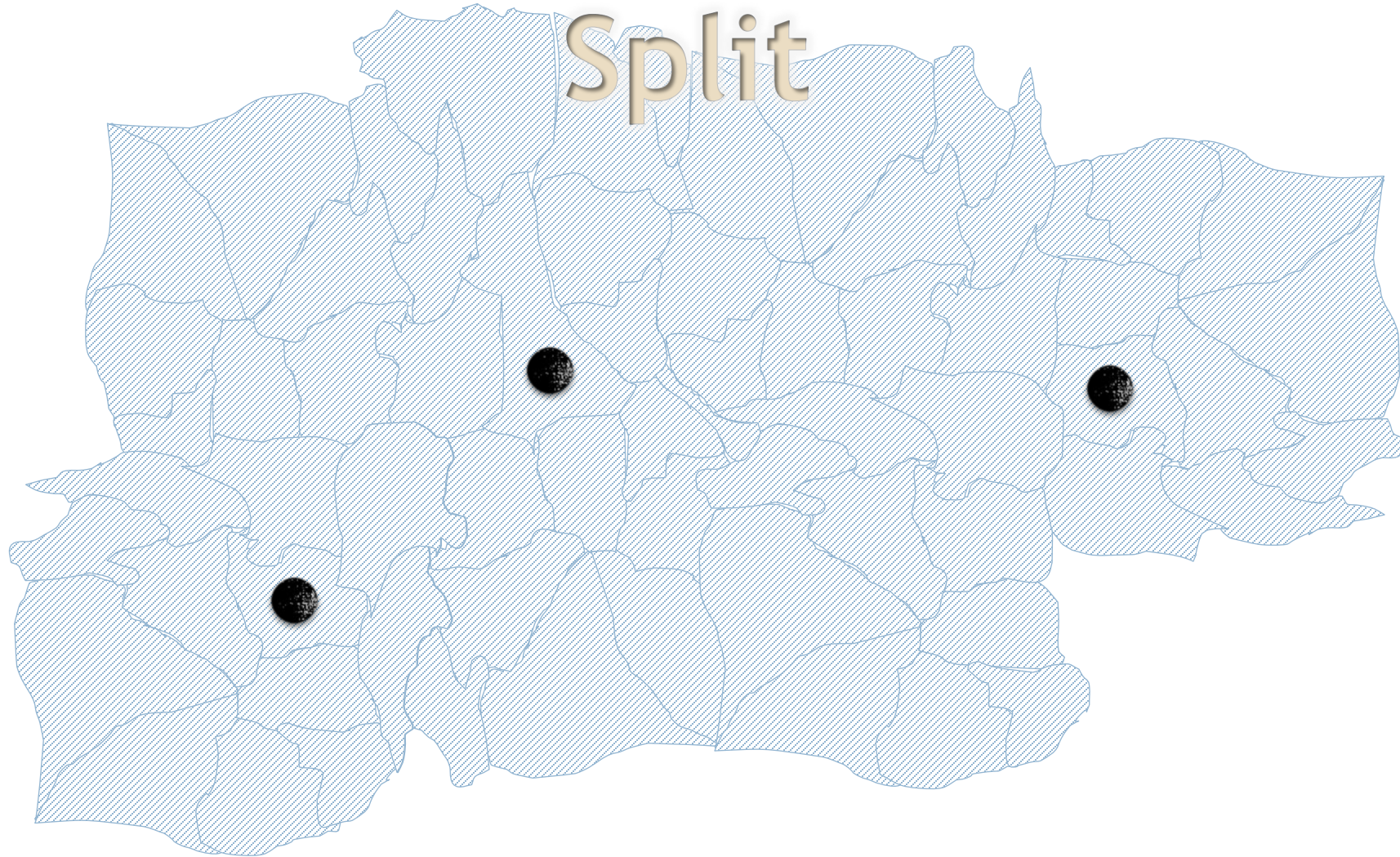




# There are at **8 Types** of Voting Experiences

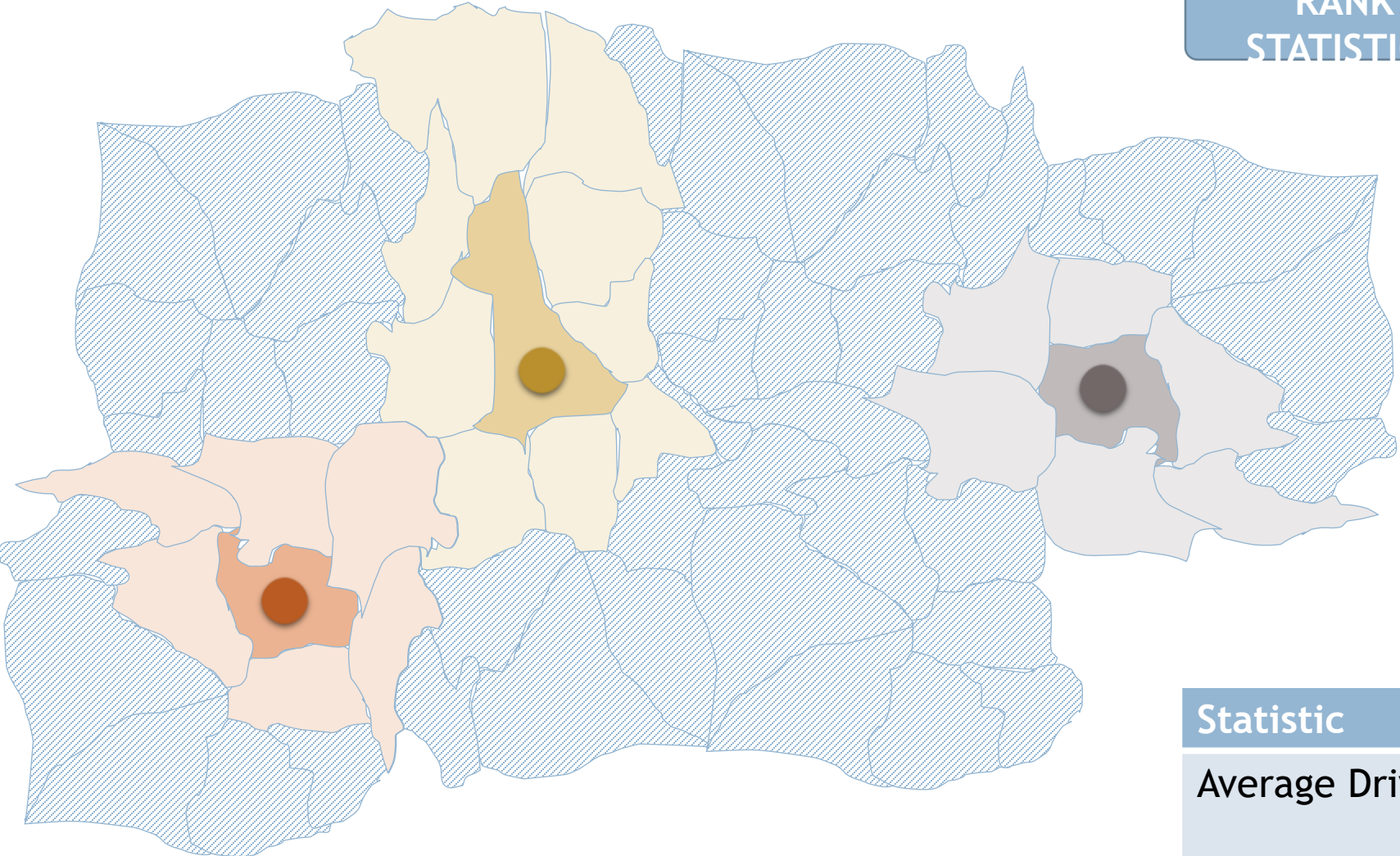


# Splitting a Modified Jurisdictional



**RANK  
STATISTICS**

DD	V	CVAP
6.54	5,465	6,546



Statistic	Ex. Value
Average Driving Distance	5.78 minutes
Number of Voters	1,564
Citizen Voting Age Population	2,042

# Minimizing Ballot Styles per Precinct

