

Redistricting Using GIS Software

May 7, 2009

MPC Presentation to the Knox
County Commission Redistricting
Committee

Steps in the Redistricting Process

- Redistricting involves moving precincts between districts to achieve equal representation
- Moving whole precincts/wards; no precincts will be split

Steps in the Redistricting Process

- Track statistics which the Redistricting Committee has identified as being significant
 - Mandated considerations
 - Maximum 10% overall range in relative deviation
 - Maintain blocs of minority voters
 - Committee/community considerations
 - Minimize the number of people moved between districts
 - Preserve incumbency
 - Keep communities together/protect community character

Steps in the Redistricting Process

- Multiple plans
 - There will likely be multiple redistricting plans that can achieve the overall range requirement
 - Each plan can be evaluated (using statistics about each district) to assess the extent to which it meets the Committee's requirements

MPC Role in the Redistricting Process

- Lend assistance to the Redistricting Committee by:
 - Providing accurate and objective data
 - Providing tools to support the decision making process
- MPC does not seek to have any role in determining the configuration of realigned Commission Districts

Redistricting Data and Software

- Using ESRI's *ArcGIS* software
 - Software upon which City, County, and MPC GIS functions are standardized
 - Districting Extension available free of charge from ESRI

Redistricting Data and Software

- Software provides a specialized set of tools to aid in the redistricting process
 - Accommodates user-designated movement of areas (precincts) between districts
 - Reports the impacts of precinct moves
 - District-level demographics: total population, racial makeup
 - District-level summary statistics: population deviation, incumbency

Redistricting Data and Software

- Using official Knox County precincts, maintained by MPC in conjunction with the Election Commission and stored in KGIS
- Precincts have been attributed with population and demographics adopted at the April 1, 2009 Redistricting Committee meeting

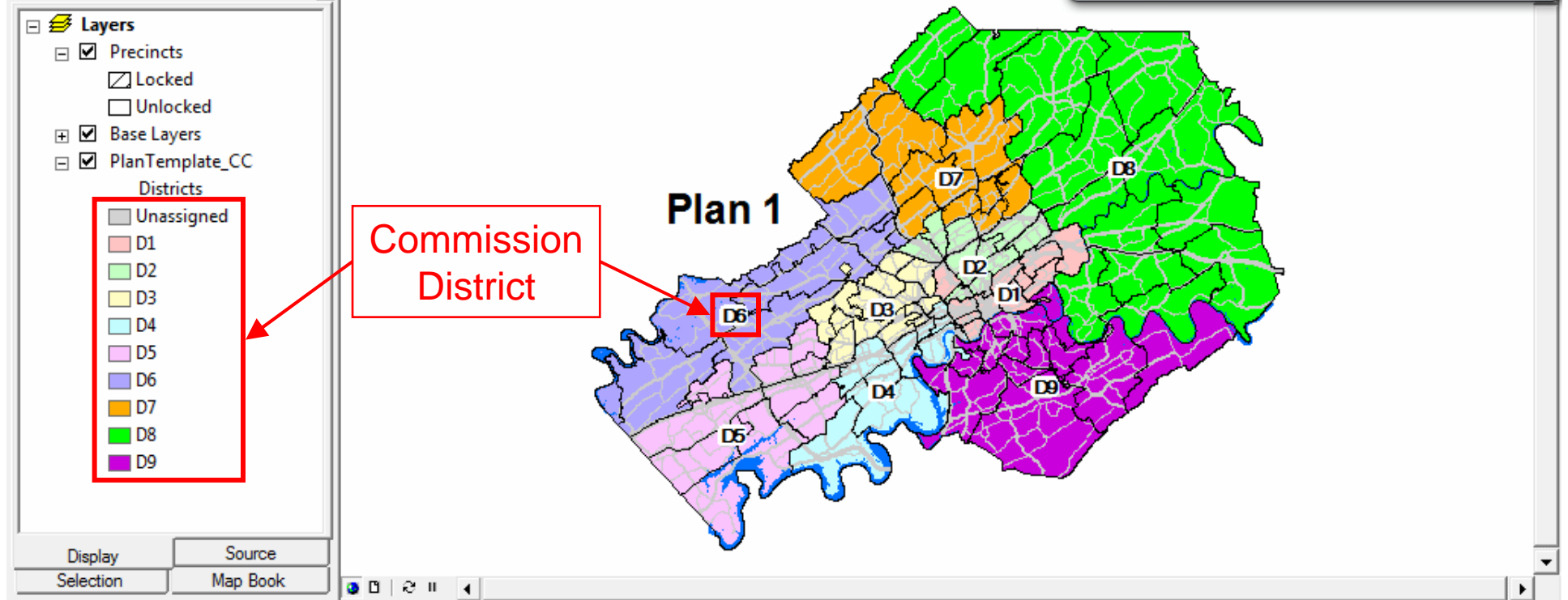
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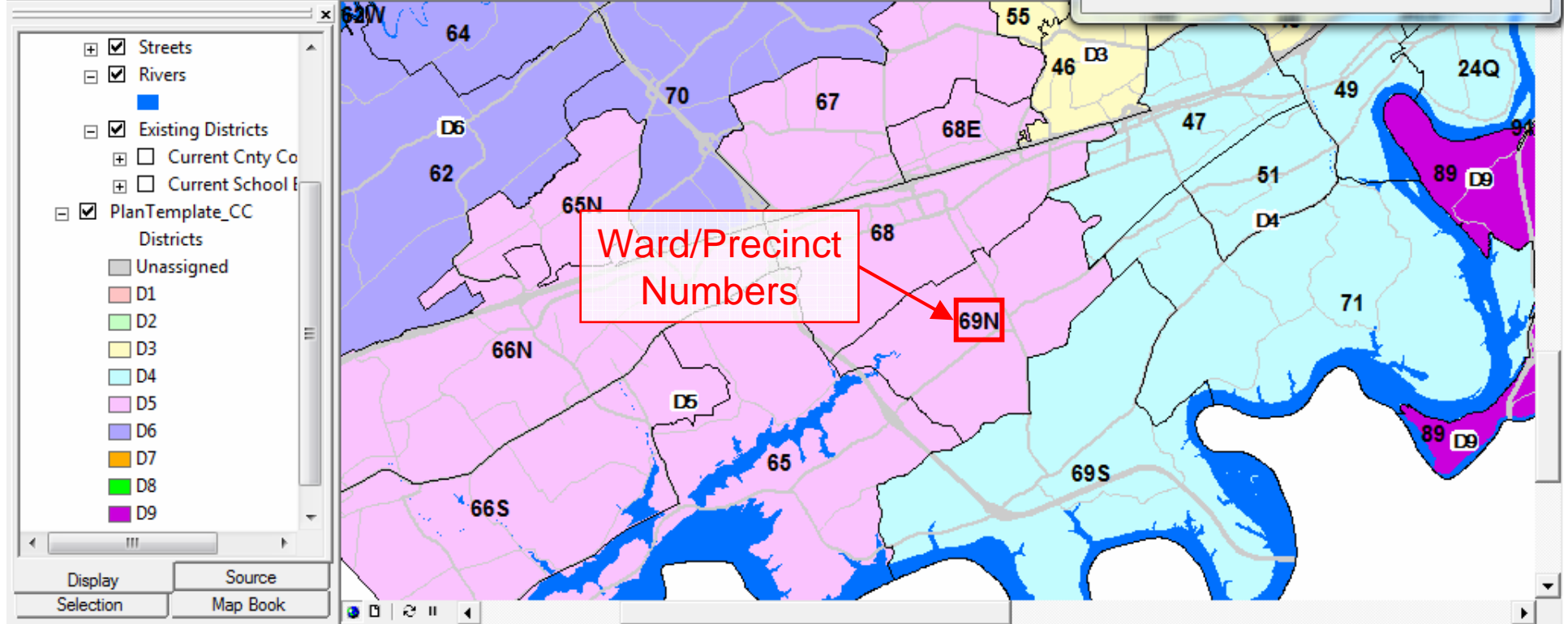
Districting District: Unassigned

Total Population Moved: 0
Overall Range: 55.19%



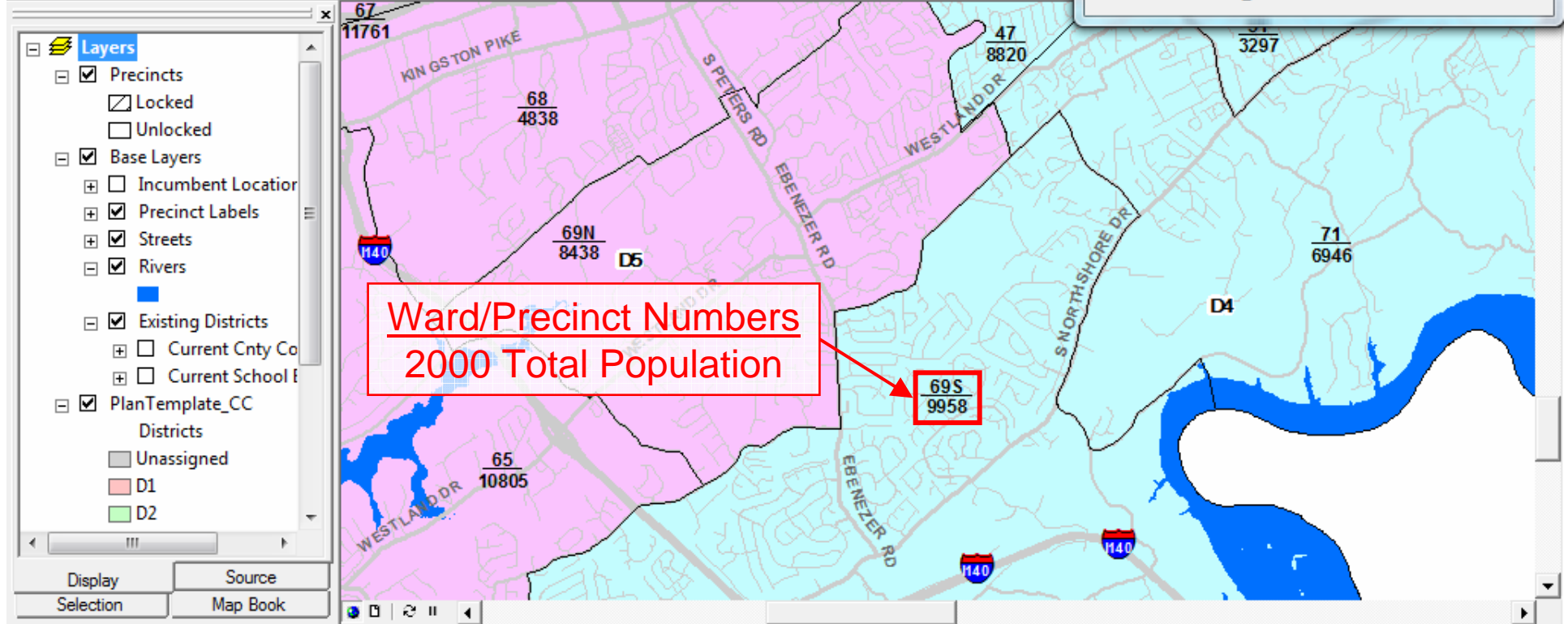
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Plan 1

Statistics Window

Layers

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Display Selection Source Map Book

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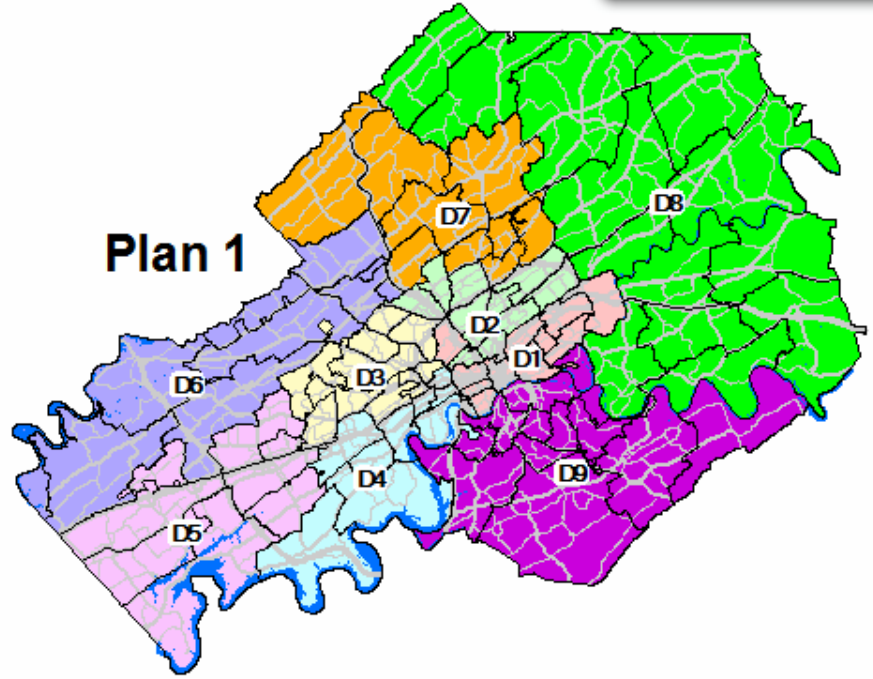
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Commission District

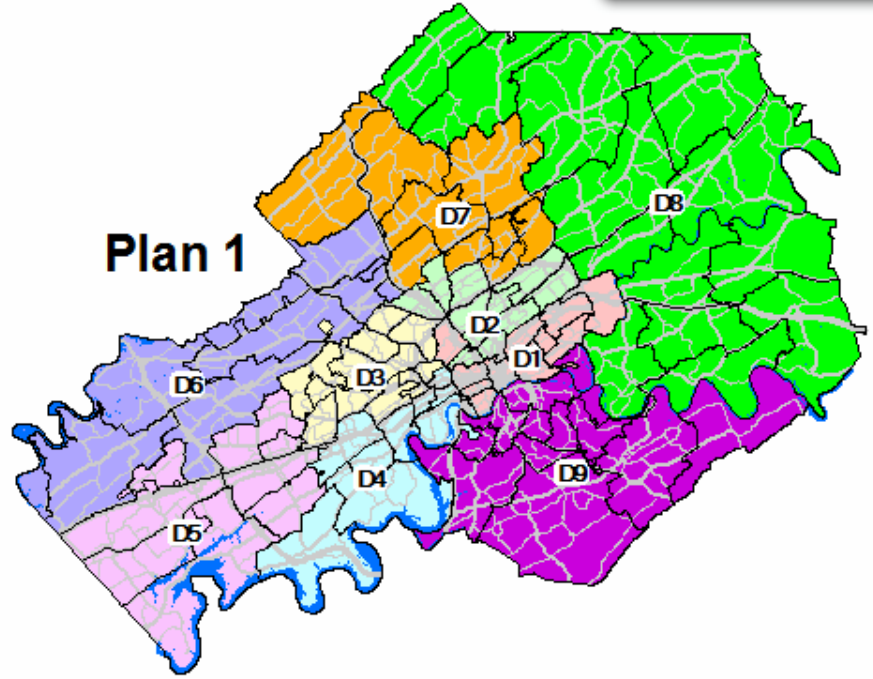
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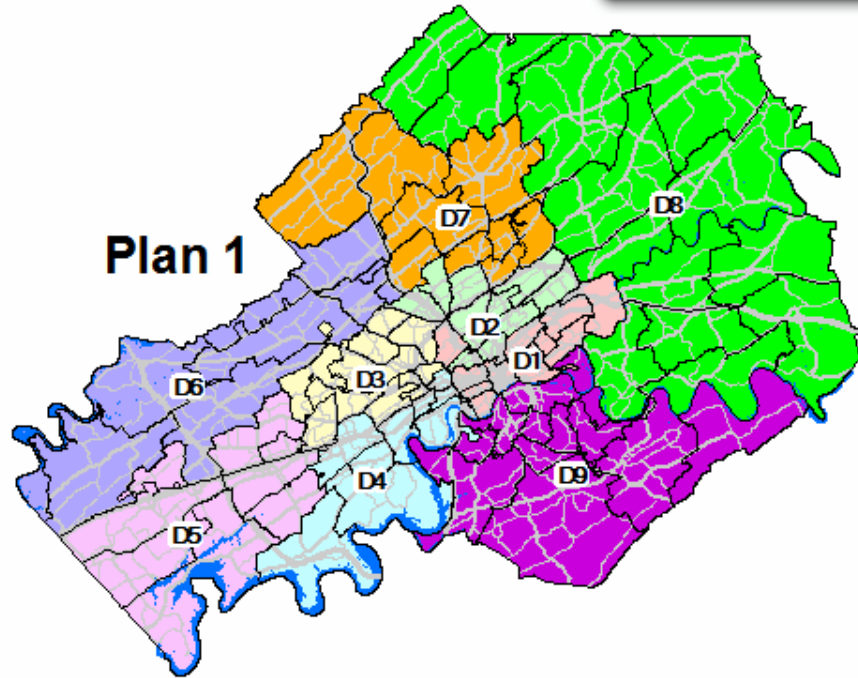
**Total Population:
2000 Census**

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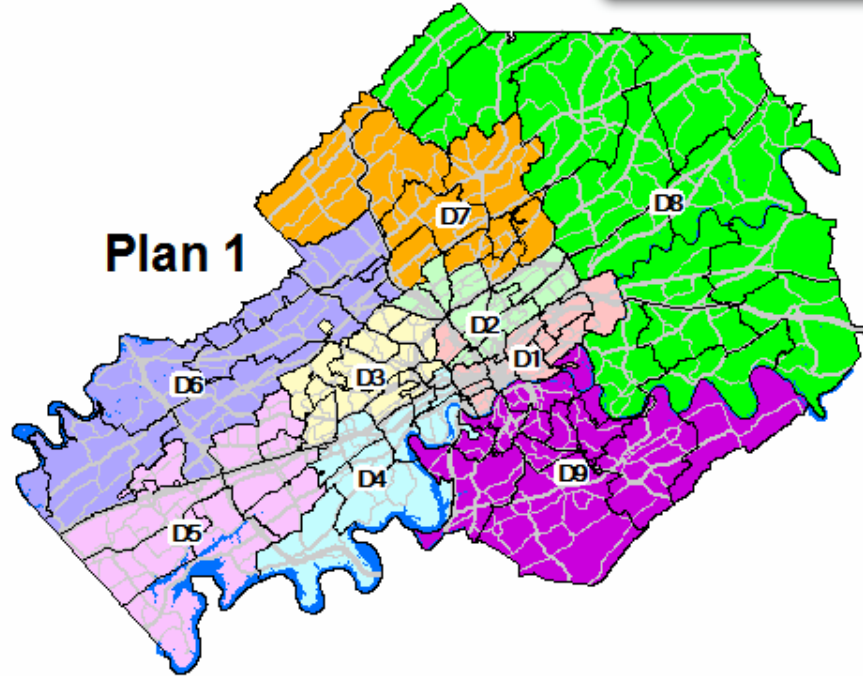
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Difference from ideal population

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Relative Deviation:
 Difference from ideal population, expressed as percentage

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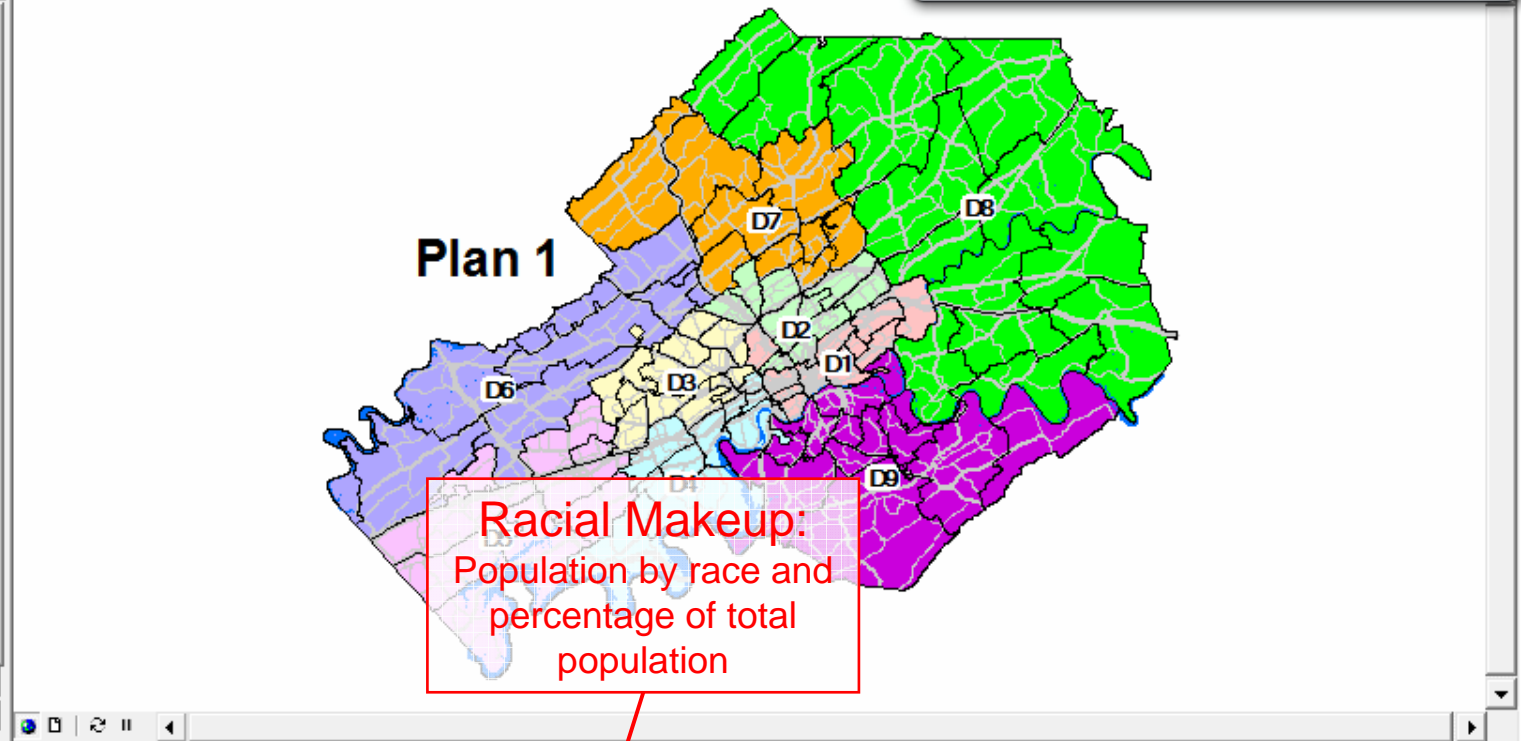
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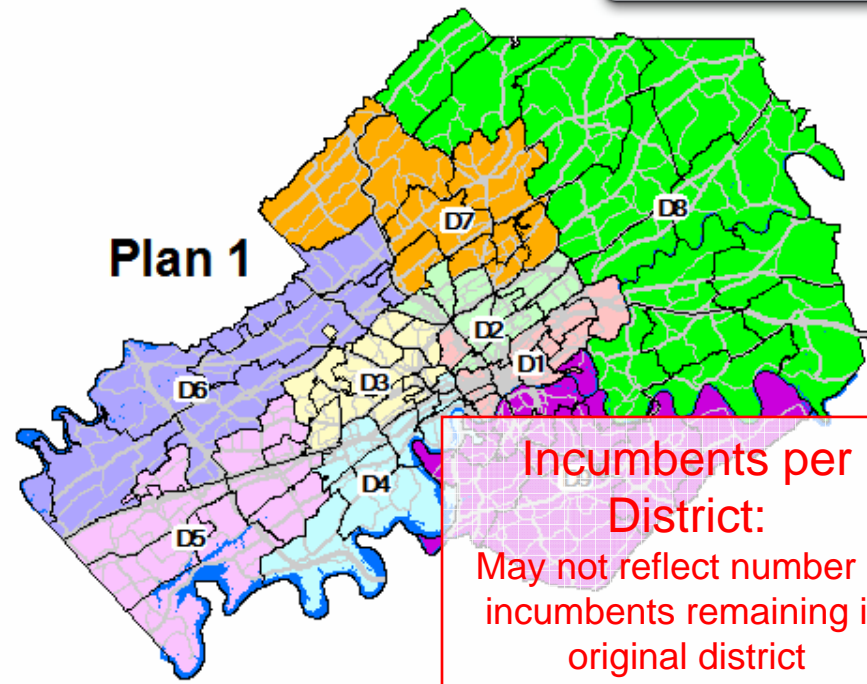
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Display Selection Source Map Book



Incumbents per District:
 May not reflect number of incumbents remaining in original district

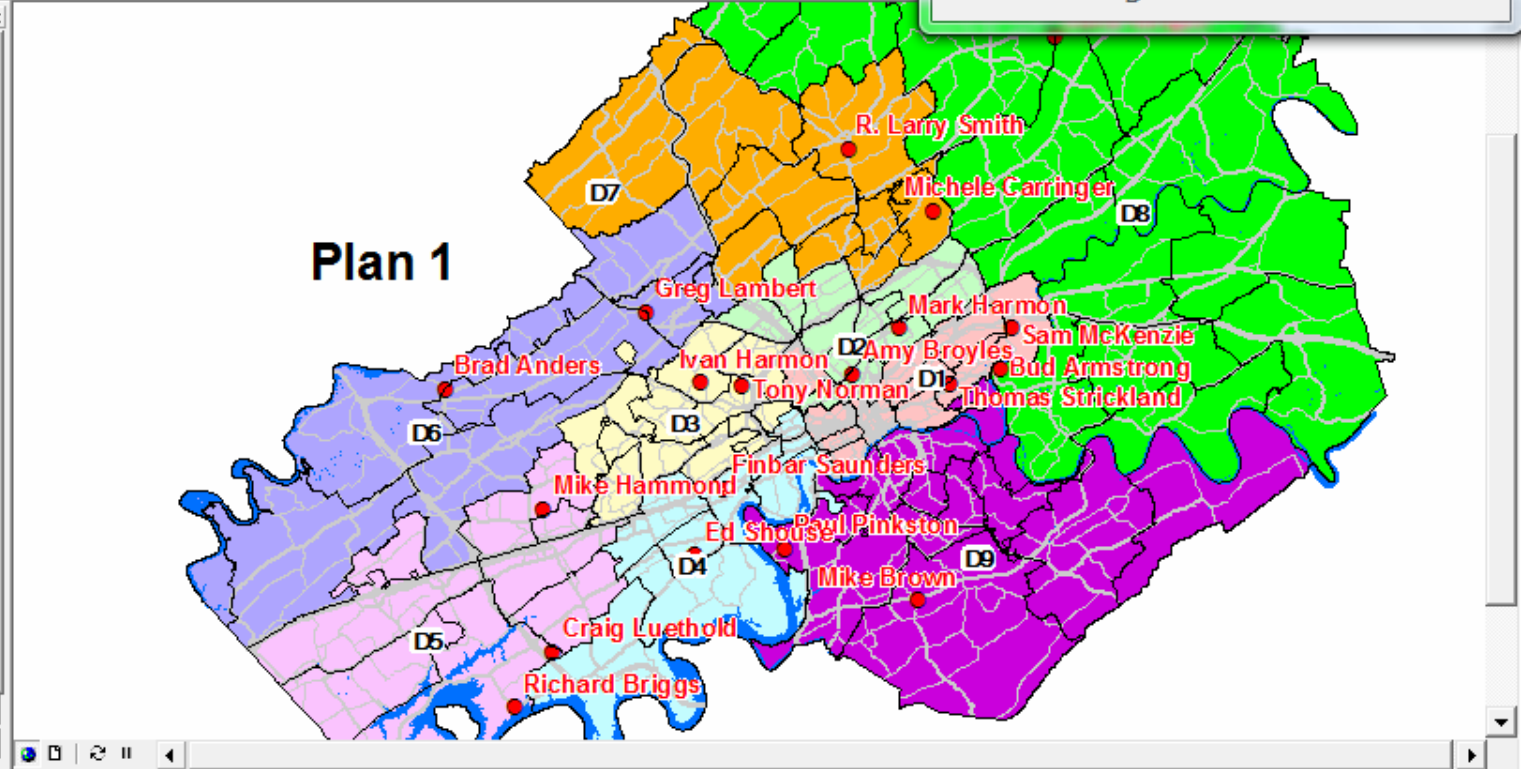
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 - Incumbent Location
 - Precinct Labels
 - Streets
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Plan 1

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Population Moved from District

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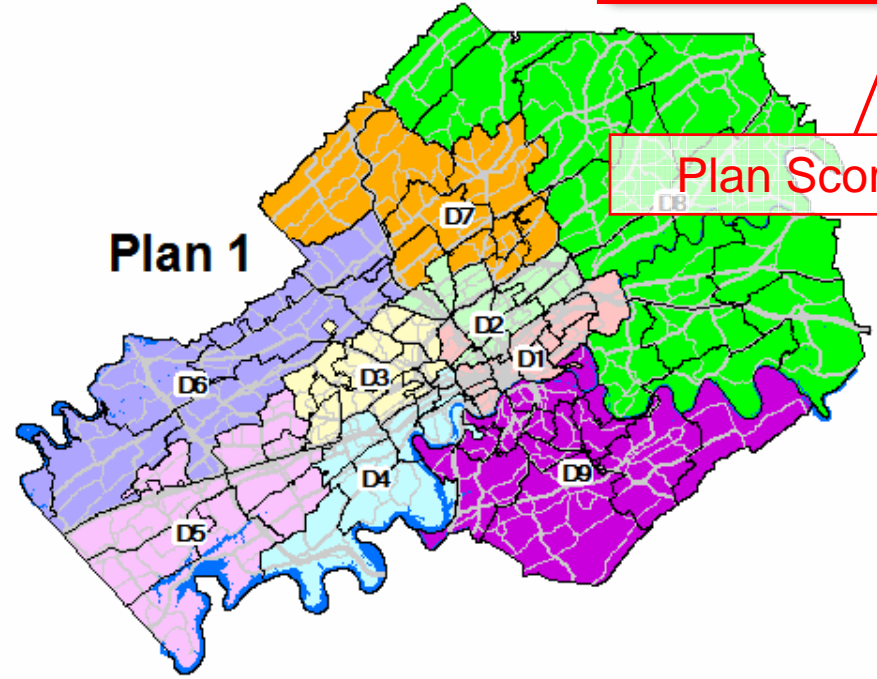
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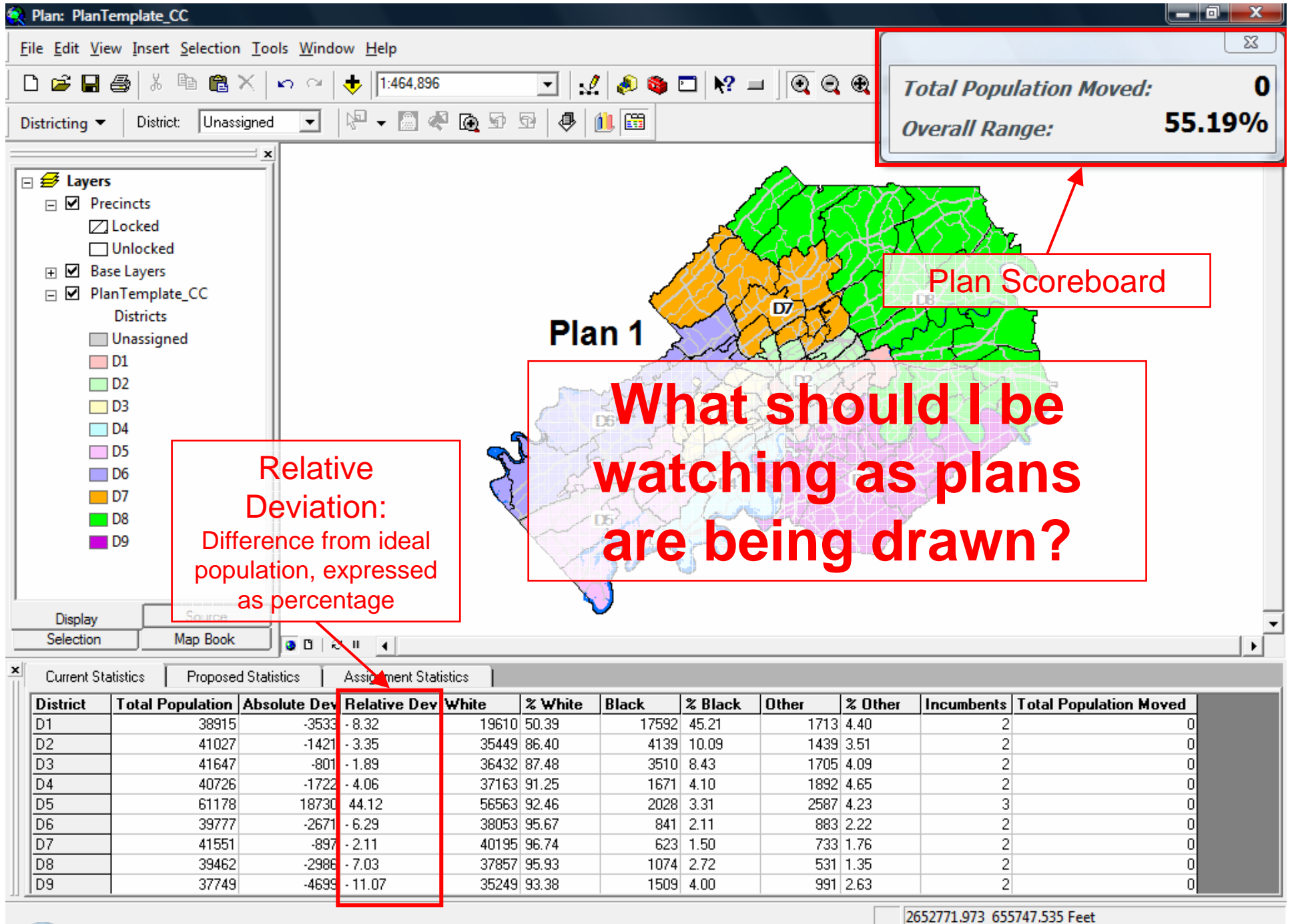
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Plan Scoreboard

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D9	37749	-4699	-11.07	35249	93.38	1509	4.00	991	2.63	2	0



Commission District Demographics

Ideal Population per District: 42,448

District	Total Population	Absolute Deviation	Relative Deviation	White		Black		Other		Total Minority		# Voters Moved	Incumbents
1	38,915	-3,533	-8.32%	19,610	50.39%	17,592	45.21%	1,713	4.40%	19,305	49.61%	0	2
2	41,027	-1,421	-3.35%	35,449	86.40%	4,139	10.09%	1,439	3.51%	5,578	13.60%	0	2
3	41,647	-801	-1.89%	36,432	87.48%	3,510	8.43%	1,705	4.09%	5,215	12.52%	0	2
4	40,726	-1,722	-4.06%	37,163	91.25%	1,671	4.10%	1,892	4.65%	3,563	8.75%	0	2
5	61,178	18,730	44.12%	56,563	92.46%	2,028	3.31%	2,587	4.23%	4,615	7.54%	0	3
6	39,777	-2,671	-6.29%	38,053	95.67%	841	2.11%	883	2.22%	1,724	4.33%	0	2
7	41,551	-897	-2.11%	40,195	96.74%	623	1.50%	733	1.76%	1,356	3.26%	0	2
8	39,462	-2,986	-7.03%	37,857	95.93%	1,074	2.72%	531	1.35%	1,605	4.07%	0	2
9	37,749	-4,699	-11.07%	35,249	93.38%	1,509	4.00%	991	2.63%	2,500	6.62%	0	2
	382,032		55.19	336,571	88.10%	32,987	8.63%	12,474	3.27%	45,461	11.90%	0	

District	Hispanic		Knoxville Population	Knox Cnty Population	Farragut Population	Registered Voters	Democratic Voters	Republican Voters
1	499	1.28%	38,915	0	0	23,838	4,437	1,006
2	665	1.62%	41,023	4	0	23,188	4,454	3,025
3	661	1.59%	36,186	5,461	0	26,081	4,124	4,450
4	696	1.71%	24,856	15,870	0	29,344	4,939	7,200
5	878	1.44%	1,667	41,793	17,718	51,127	6,227	11,967
6	343	0.86%	292	39,485	0	32,230	3,906	7,503
7	365	0.88%	11,662	29,889	0	29,765	3,871	7,219
8	269	0.68%	106	39,356	0	25,337	3,255	6,183
9	427	1.13%	19,183	18,566	0	23,993	3,381	4,707
	4,803	1.26%	173,890	190,424	17,718	264,903	38,594	53,260

Commission District Demographics

Ideal Population per District: 42,448

District	Total Population	Absolute Deviation	Relative Deviation	Primary Variables						# Voters Moved	Incumbents		
				White	Black	Other	Total Minority						
1	38,915	-3,533	-8.32%	19,610	50.39%	17,592	45.21%	1,713	4.40%	19,305	49.61%	0	2
2	41,027	-1,421	-3.35%	35,449	86.40%	4,139	10.09%	1,439	3.51%	5,578	13.60%	0	2
3	41,647	-801	-1.89%	36,432	87.48%	3,510	8.43%	1,705	4.09%	5,215	12.52%	0	2
4	40,726	-1,722	-4.06%	37,163	91.25%	1,671	4.10%	1,892	4.65%	3,563	8.75%	0	2
5	61,178	18,730	44.12%	56,563	92.46%	2,028	3.31%	2,587	4.23%	4,615	7.54%	0	3
6	39,777	-2,671	-6.29%	38,053	95.67%	841	2.11%	883	2.22%	1,724	4.33%	0	2
7	41,551	-897	-2.11%	40,195	96.74%	623	1.50%	733	1.76%	1,356	3.26%	0	2
8	39,462	-2,986	-7.03%	37,857	95.93%	1,074	2.72%	531	1.35%	1,605	4.07%	0	2
9	37,749	-4,699	-11.07%	35,249	93.38%	1,509	4.00%	991	2.63%	2,500	6.62%	0	2
382,032			55.19	336,571	88.10%	32,987	8.63%	12,474	3.27%	45,461	11.90%	0	

District	Hispanic	Knoxville Population	Knox Cnty Population	Farragut Population	Registered Voters	Democratic Voters	Republican Voters
1	499 1.28%	38,915	0	0	23,838	4,437	1,006
2	665 1.62%	41,023	4	0	23,188	4,454	3,025
3	661 1.59%	36,186	5,461	0	26,081	4,124	4,450
4	696 1.71%	24,856	15,870	0	29,344	4,939	7,200
5	878 1.44%	1,667	41,793	17,718	51,127	6,227	11,967
6	343 0.86%	292	39,485	0	32,230	3,906	7,503
7	365 0.88%	11,662	29,889	0	29,765	3,871	7,219
8	269 0.68%	106	39,356	0	25,337	3,255	6,183
9	427 1.13%	19,183	18,566	0	23,993	3,381	4,707
4,803 1.26%		173,890	190,424	17,718	264,903	38,594	53,260

Commission District Demographics

Ideal Population per District: 42,448

District	Total Population	Absolute Deviation	Relative Deviation	White		Black		Other		Total Minority		# Voters Moved	Incumbents
1	38,915	-3,533	-8.32%	19,610	50.39%	17,592	45.21%	1,713	4.40%	19,305	49.61%	0	2
2	41,027	-1,421	-3.35%	35,449	86.40%	4,139	10.09%	1,439	3.51%	5,578	13.60%	0	2
3	41,647	-801	-1.89%	36,432	87.48%	3,510	8.43%	1,705	4.09%	5,215	12.52%	0	2
4	40,726	-1,722	-4.06%	37,163	91.25%	1,671	4.10%	1,892	4.65%	3,563	8.75%	0	2
5	61,178	18,730	44.12%	56,563	92.46%	2,028	3.31%	2,587	4.23%	4,615	7.54%	0	3
6	39,777	-2,671	-6.29%	38,053	95.67%	841	2.11%	883	2.22%	1,724	4.33%	0	2
7	41,551	-897	-2.11%	40,195	96.74%	623	1.50%	733	1.76%	1,356	3.26%	0	2
8	39,462	-2,986	-7.03%	37,857	95.93%	1,074	2.72%	531	1.35%	1,605	4.07%	0	2
9	37,749	-4,699	-11.07%	35,249	93.38%	1,509	4.00%	991	2.63%	2,500	6.62%	0	2
382,032			55.19	336,571	88.10%	32,987	8.63%	12,474	3.27%	45,461	11.90%	0	

Supporting Variables

District	Hispanic		Knoxville Population	Knox Cnty Population	Farragut Population	Registered Voters	Democratic Voters	Republican Voters
1	499	1.28%	38,915	0	0	23,838	4,437	1,006
2	665	1.62%	41,023	4	0	23,188	4,454	3,025
3	661	1.59%	36,186	5,461	0	26,081	4,124	4,450
4	696	1.71%	24,856	15,870	0	29,344	4,939	7,200
5	878	1.44%	1,667	41,793	17,718	51,127	6,227	11,967
6	343	0.86%	292	39,485	0	32,230	3,906	7,503
7	365	0.88%	11,662	29,889	0	29,765	3,871	7,219
8	269	0.68%	106	39,356	0	25,337	3,255	6,183
9	427	1.13%	19,183	18,566	0	23,993	3,381	4,707
4,803		1.26%	173,890	190,424	17,718	264,903	38,594	53,260

Redistricting Data and Software

- Operating the software
 - Specify the district to which the precinct should be assigned
 - Specify the precinct(s) to be moved
 - Scorecard and statistics windows update as each move is completed
 - Repeat until desired overall range is met

Redistricting Plans

- When a 10% overall range has been achieved, proceed with evaluating the plan
- Finite number of district configurations probably exists
 - Don't know what that number is; computers can't just tell us
 - Potentially multiple plans that could be generated meeting the overall range requirement