

An aerial night photograph of Memphis, Tennessee. The foreground is dominated by the Hernando de Soto Bridge, a large steel truss bridge with its structure illuminated by warm yellow lights. The bridge spans across the Mississippi River. In the background, the city skyline is visible, with numerous skyscrapers and buildings lit up against the dark blue night sky. The lights from the city and the bridge reflect on the water of the river.

Memphis City Council Redistricting
Mapping Proposal
Dr. Darrick D. Harris

4/7/2023

Dear Attorney Wade,

Attached are the data statistics from Single District plan 8 and Super District plan 9. The data was based on an updated shapefile I received from Memphis City GIS on 4/5/23. The updated file has a total population of 627,448. The proposed plan (*Single District Plan 8*) has an overall Population deviation of 3.5% and Super District Plan 9 has a deviation of 1.3%, thus both meet the legal standard for population dispersion. **Note:** this set of data is a best proposed estimate based on the data provided by City GIS pending legal review.

Disclaimer

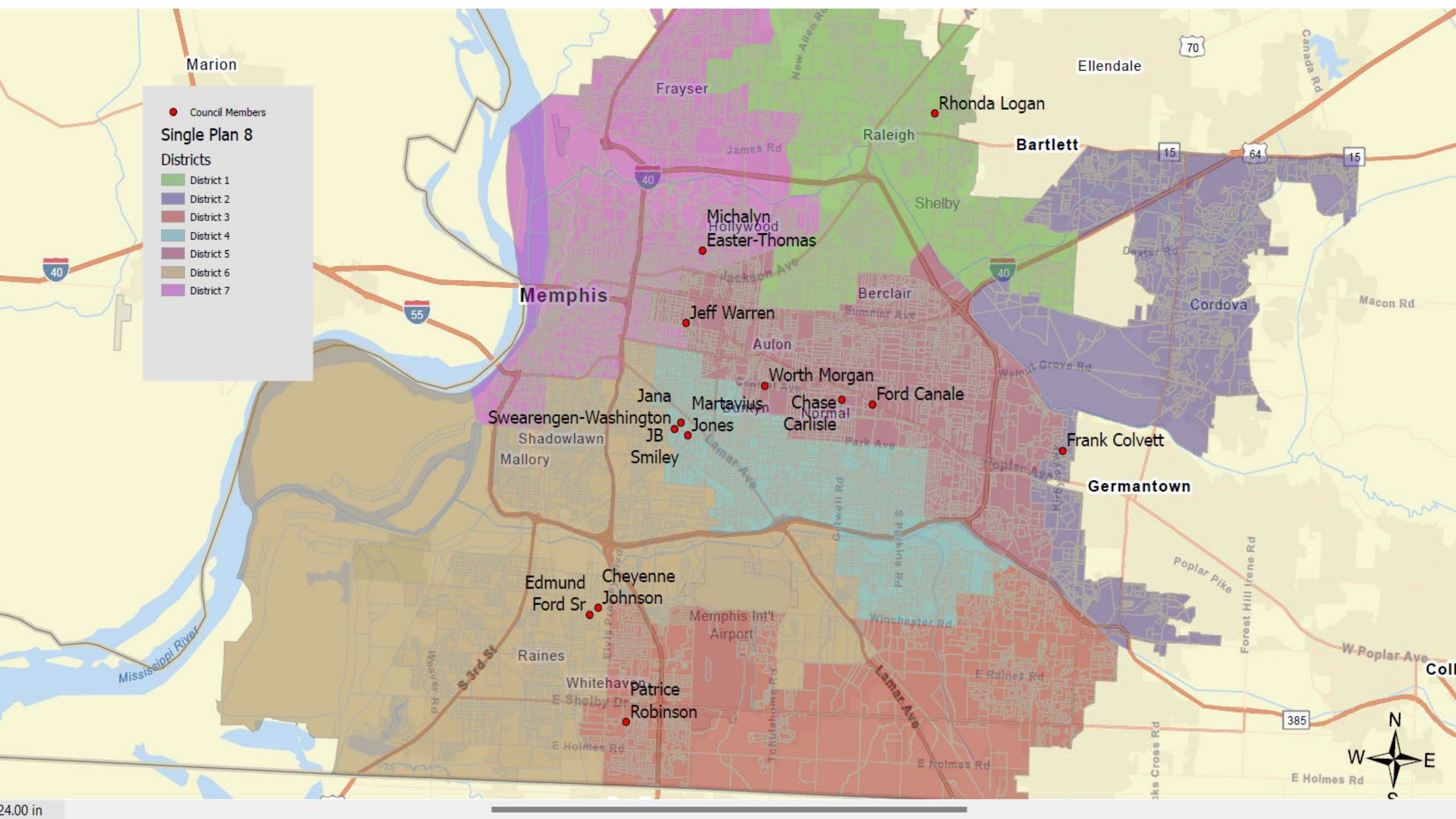
Based on my initial analysis, I discovered potential problems and or conflicts between the 2020 census data used for the 2022 mapping plan (The current Map used by the Memphis City Council). The specific issue is the total population of 633,102 post de-annexation. The current 2022 map data and precincts approved by the council last August are incorrect.

The approved City of Memphis 2022 mapping plan should have been approximately 627,448 not 633,102 as reported, approved by the city council, and initially provided to me as the basis for the committee's work. This estimate I am presenting would subtract the areas and population that have been de-annexed, and ultimately does not match what was being reported, approved by the city council, and initially provided to me. In the interest of being thorough and dispelling any questions about the veracity of my findings, I requested an updated and certified copy of the city shapefiles with precincts, associated census blocks, and updated census population data. The plan I am proposing assumes that the updated shape files, census block data, and precinct data provided to me are correct.

D. Harris

An aerial night photograph of Memphis, Tennessee. The foreground is dominated by the Hernando de Soto Bridge, a large steel truss bridge with numerous lights along its structure, crossing the Mississippi River. The city skyline is visible in the background, with numerous illuminated buildings and streets. The sky is dark blue, and the river reflects the city lights.

Memphis City Council Redistricting
Single District Plan 8
Mapping Proposal
Dr. Darrick D. Harris



Population Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	0th Pop	Hisp Pop
1	90534	16440	54847	19247	17367
2	88264	34319	38761	15184	9901
3	89521	4785	75162	9574	8366
4	88663	16870	56985	14808	12495
5	91390	60866	17961	12563	7050
6	90651	4438	80916	5297	3366
7	88425	17561	63453	7411	3376
Grand Total	627448	155279	388085	84084	61921

Max Var	2.0%
Min Var	-1.5%
Population Dev	3.5%

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
1	90534	16440	54847	19247	17367	64669	13627	39097	11945	10408	District
0502	7818	2368	3745	1705	1212	5866	1997	2751	1118	737	1
0601	5173	518	3481	1174	1109	3354	396	2299	659	630	1
0603	4308	334	3670	304	225	2958	296	2476	186	137	1
0604	6737	1192	5053	492	329	5187	1093	3768	326	217	1
0605	7270	540	6163	567	325	5313	501	4442	370	214	1
0606	8203	1264	6110	829	550	6022	1098	4398	526	337	1
0607	10912	2376	4217	4319	4428	7607	1894	3097	2616	2628	1
0608	8060	983	6215	862	608	5727	846	4319	562	360	1
0609	8138	1702	5511	925	590	5981	1418	3953	610	384	1
0703	5253	278	4722	253	129	3695	220	3315	160	67	1
0707	9443	2974	2270	4199	4210	6712	2410	1655	2647	2549	1
0709	5102	574	3213	1315	1263	3531	442	2318	771	711	1
1301	4117	1337	477	2303	2389	2716	1016	306	1394	1437	1

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
2	88264	34319	38761	15184	9901	69917	29624	29637	10656	6505	District
0108	5222	1889	1197	2136	2039	3621	1500	822	1299	1175	2
0109	3808	1425	1397	986	805	2855	1158	1020	677	506	2
0110	11472	4951	5057	1464	896	9156	4309	3807	1040	626	2
0111	6370	2094	3561	715	387	4812	1727	2566	519	276	2
0202	3683	1825	1288	570	296	2941	1563	966	412	196	2
0404	3495	2529	603	363	124	3005	2202	504	299	107	2
0409	7836	3346	3631	859	486	6149	2844	2720	585	330	2
0412	51	49	0	2	0	51	49	0	2	0	2
0501	1852	756	483	613	650	1311	595	339	377	385	2
0502	3052	1039	1087	926	947	2179	844	765	570	579	2
0504	6835	2923	2678	1234	563	5634	2639	2087	908	399	2
0505	4341	1200	2451	690	291	3288	1019	1759	510	208	2
0507	8518	3393	3500	1625	880	6692	2942	2569	1181	605	2
0508	499	159	279	61	32	359	134	182	43	26	2
0509	9451	3980	3888	1583	731	7547	3500	2870	1177	522	2
0510	118	108	7	3	3	115	106	7	2	2	2
0511	0	0	0	0	0	0	0	0	0	0	2
1202	5256	1384	2960	912	281	4531	1283	2490	758	211	2
1203	2	0	0	2	1	2	0	0	2	1	2
1204	2760	256	2138	366	311	2078	217	1616	245	193	2
1301	11	2	0	9	2	7	0	0	7	0	2
1303	3377	901	2468	8	131	3377	901	2468	8	131	2
1312	255	110	88	57	45	207	92	80	35	27	2

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
3	89521	4785	75162	9574	8366	65355	4160	54829	6366	5393	District
0905	2155	52	2047	56	21	1710	49	1621	40	12	3
0907	9421	176	8802	443	260	7064	159	6536	369	221	3
0908	7805	161	7421	223	64	5756	144	5477	135	34	3
0911	4353	183	4033	137	66	3301	160	3050	91	43	3
1009	3846	85	3671	90	32	2974	76	2839	59	15	3
1010	1346	63	1194	89	51	965	55	858	52	32	3
1102	1379	85	1139	155	109	1048	72	864	112	74	3
1104	2991	165	2557	269	207	2276	149	1930	197	148	3
1105	13426	536	10200	2690	2573	9148	451	6994	1703	1595	3
1106	8638	528	7049	1061	979	6316	448	5182	686	624	3
1107	7889	734	6262	893	838	5702	599	4536	567	511	3
1108	8161	443	6166	1552	1535	5562	350	4209	1003	959	3
1201	11328	1120	9175	1033	881	8467	1048	6674	745	619	3
1204	4656	350	3685	621	522	3534	307	2792	435	364	3
1205	0	0	0	0	0	0	0	0	0	0	3
1207	2115	103	1751	261	228	1521	92	1258	171	142	3
1208	12	1	10	1	0	11	1	9	1	0	3

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
4	88663	16870	56985	14808	12495	66242	14530	42328	9384	7625	District
1001	4136	187	3691	258	183	3161	167	2810	184	121	4
1003	5816	1080	4474	262	106	4692	976	3542	174	74	4
1004	6895	181	6302	412	272	5359	153	4945	261	160	4
1005	10017	2148	4542	3327	3078	7148	1849	3311	1988	1788	4
1007	7081	148	6504	429	333	5294	111	4912	271	187	4
1008	7720	546	5883	1291	1161	5782	468	4501	813	696	4
1101	10487	579	7013	2895	2798	7205	476	4979	1750	1688	4
1102	7025	403	5839	783	643	5030	359	4137	534	426	4
1103	8764	648	6133	1983	1663	6136	538	4320	1278	1038	4
1104	3508	175	2618	715	661	2461	149	1873	439	407	4
1307	7454	5168	1647	639	233	6309	4479	1327	503	182	4
1311	9760	5607	2339	1814	1364	7665	4805	1671	1189	858	4

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
5	91390	60866	17961	12563	7050	73961	51289	13632	9040	4911	District
0401	7020	6045	422	553	148	5782	4997	361	424	121	5
0402	3816	3395	103	318	100	2939	2648	73	218	86	5
0403	4644	3856	254	534	121	3879	3290	202	387	98	5
0407	6474	5363	566	545	262	5406	4591	424	391	187	5
0408	6794	3708	2542	544	299	5363	3099	1880	384	223	5
0708	5944	2257	2641	1046	869	4964	2013	2068	883	762	5
0709	3758	805	2332	621	379	2638	687	1531	420	247	5
0710	4109	3263	385	461	165	3483	2828	322	333	116	5
1301	3600	1804	495	1301	1174	2599	1454	320	825	709	5
1302	4644	2277	604	1763	1605	3357	1836	422	1099	943	5
1303	7990	6502	344	1144	340	6122	5136	249	737	204	5
1304	4389	1791	2169	429	212	3504	1610	1622	272	135	5
1305	4420	3783	283	354	146	3648	3160	215	273	111	5
1306	6490	4826	825	839	470	4989	3815	602	572	288	5
1307	996	723	153	120	39	904	674	127	103	33	5
1308	7697	5463	1404	830	412	6693	4834	1166	693	379	5
1309	8520	4946	2437	1137	304	7612	4560	2046	1006	265	5
1310	85	59	2	24	5	79	57	2	20	4	5

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
6	90651	4438	80916	5297	3366	67933	3822	60501	3610	2130	District
0809	3735	69	3582	84	46	2601	62	2476	63	27	6
0810	4006	2452	1136	418	170	3425	2147	953	325	114	6
0811	6211	119	5799	293	148	4757	92	4465	200	88	6
0812	4946	49	4710	187	59	3816	47	3628	141	40	6
0901	1956	16	1871	69	9	1583	12	1518	53	7	6
0902	4313	115	4018	180	63	3297	91	3085	121	33	6
0903	7301	54	7058	189	78	5282	35	5108	139	39	6
0904	8006	88	7744	174	76	6153	71	5964	118	41	6
0905	4955	149	4685	121	44	3851	145	3617	89	34	6
0906	5879	58	5599	222	85	4480	48	4279	153	50	6
0909	6782	277	6043	462	352	5155	239	4617	299	217	6
0910	6387	83	6139	165	50	4701	71	4508	122	35	6
0911	583	19	544	20	4	446	17	416	13	3	6
1002	5381	60	5160	161	42	4177	55	4015	107	28	6
1003	2782	39	2640	103	36	2030	32	1917	81	25	6
1006	5891	158	5261	472	326	4505	141	4051	313	211	6
1009	5176	250	4167	759	662	3200	176	2543	481	406	6
1010	6361	383	4760	1218	1116	4474	341	3341	792	732	6

Precinct level Statistics (Single Plan 8)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	
7	88425	17561	63453	7411	3376	68934	16166	47079	5689	2494	District
0104	0	0	0	0	0	0	0	0	0	0	7
0702	5908	519	5059	330	149	4149	459	3478	212	80	7
0703	1444	94	1265	85	40	1061	83	928	50	21	7
0704	4945	491	4135	319	194	3644	448	2999	197	118	7
0705	5009	75	4713	221	101	3740	38	3553	149	55	7
0706	8164	974	6779	411	193	6257	853	5111	293	145	7
0708	1375	812	419	144	51	1169	718	350	101	38	7
0801	8581	463	7743	375	205	5705	398	5071	236	115	7
0802	4361	856	3058	447	278	3115	727	2118	270	179	7
0803	6945	3635	2017	1293	306	6083	3399	1624	1060	247	7
0804	5786	494	4878	414	179	4418	412	3692	314	119	7
0805	8586	3577	3872	1137	782	7925	3487	3375	1063	754	7
0806	5626	1174	3717	735	321	4780	1080	3131	569	217	7
0807	4001	1989	1403	609	254	3604	1836	1265	503	192	7
0808	3872	1664	1876	332	88	3466	1619	1552	295	69	7
0809	4710	218	4308	184	55	3487	173	3180	134	29	7



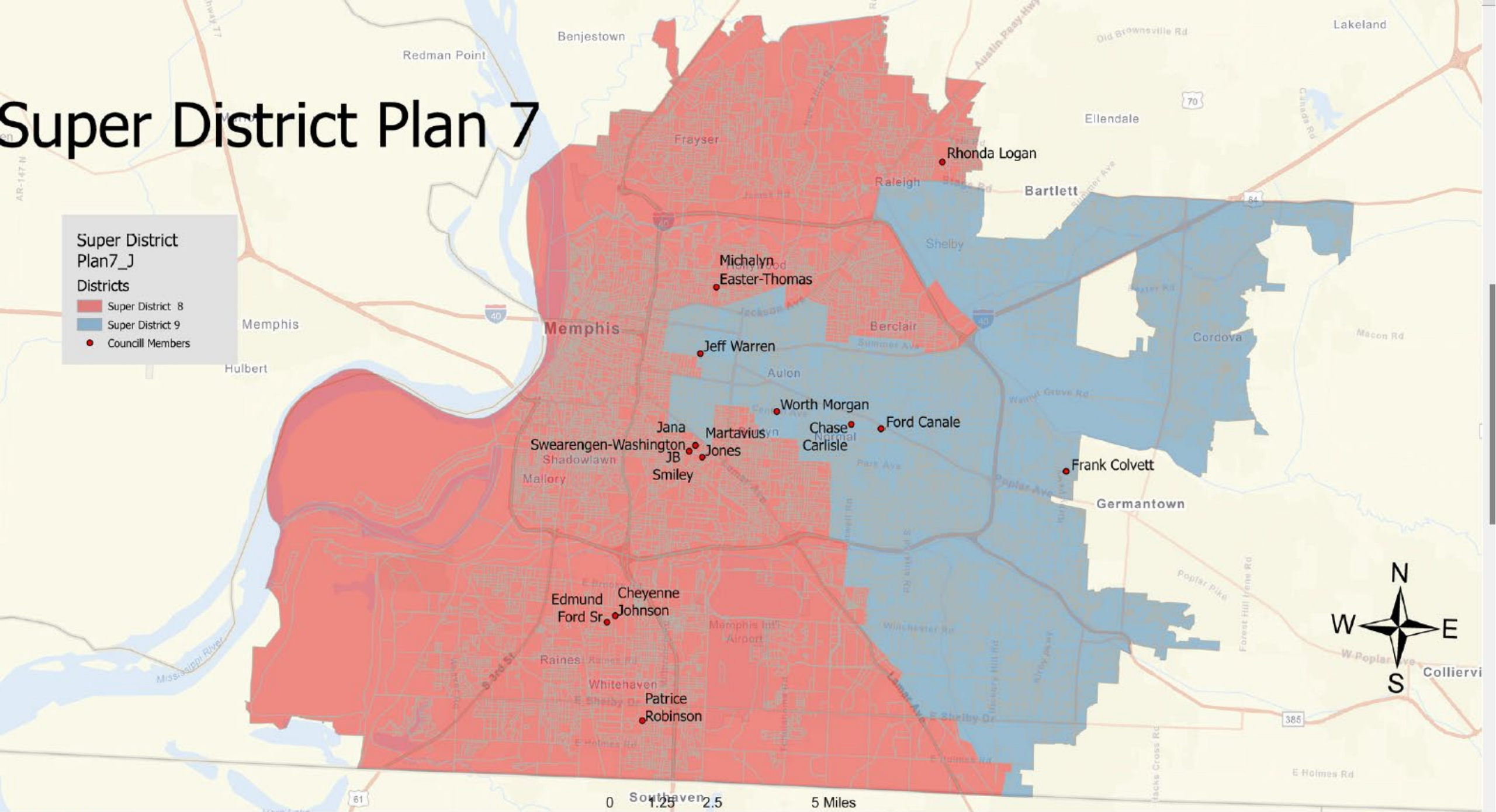
Memphis City Council Redistricting
Super District Plan 9
Mapping Proposal
Dr. Darrick D. Harris

Super District Plan 7

Super District
Plan7_J

Districts

- Super District 8
- Super District 9
- Councill Members



Population Statistics (Super District Plan 7)

District	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18
8	315824	39677	241496	34651	26551	236978	34601	179355	23022	16560
9	311624	115602	146589	49433	35370	240033	98617	107748	33668	22906
Grand Total	627448	155279	388085	84084	61921	477011	133218	287103	56690	39466

District	Total Pop	Target Pop		
8	315824	313724		
9	311624	313724		
Grand Total	627448			
			Max	0.7%
			Min	-0.7%
			Population Dev	1.3%

Precinct level Statistics (Super District Plan 7) Super Dist 8

Precinct	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	District
0104	0	0	0	0	0	0	0	0	0	0	8
0601	5173	518	3481	1174	1109	3354	396	2299	659	630	8
0603	4308	334	3670	304	225	2958	296	2476	186	137	8
0604	6737	1192	5053	492	329	5187	1093	3768	326	217	8
0605	7270	540	6163	567	325	5313	501	4442	370	214	8
0606	8203	1264	6110	829	550	6022	1098	4398	526	337	8
0607	10912	2376	4217	4319	4428	7607	1894	3097	2616	2628	8
0701	9112	526	8211	375	180	6331	436	5652	243	116	8
0702	5908	519	5059	330	149	4149	459	3478	212	80	8
0703	6697	372	5987	338	169	4756	303	4243	210	88	8
0704	4945	491	4135	319	194	3644	448	2999	197	118	8
0705	5009	75	4713	221	101	3740	38	3553	149	55	8
0706	8164	974	6779	411	193	6257	853	5111	293	145	8
0707	9443	2974	2270	4199	4210	6712	2410	1655	2647	2549	8

Precinct	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	District
0801	8581	463	7743	375	205	5705	398	5071	236	115	8
0802	4361	856	3058	447	278	3115	727	2118	270	179	8
0803	6945	3635	2017	1293	306	6083	3399	1624	1060	247	8
0804	5786	494	4878	414	179	4418	412	3692	314	119	8
0805	8586	3577	3872	1137	782	7925	3487	3375	1063	754	8
0806	5626	1174	3717	735	321	4780	1080	3131	569	217	8
0807	4001	1989	1403	609	254	3604	1836	1265	503	192	8
0808	3872	1664	1876	332	88	3466	1619	1552	295	69	8
0809	8445	287	7890	268	101	6088	235	5656	197	56	8
0810	4006	2452	1136	418	170	3425	2147	953	325	114	8
0811	6211	119	5799	293	148	4757	92	4465	200	88	8
0812	4946	49	4710	187	59	3816	47	3628	141	40	8
0901	1956	16	1871	69	9	1583	12	1518	53	7	8
0902	4313	115	4018	180	63	3297	91	3085	121	33	8
0903	7301	54	7058	189	78	5282	35	5108	139	39	8
0904	8006	88	7744	174	76	6153	71	5964	118	41	8
0905	7110	201	6732	177	65	5561	194	5238	129	46	8
0906	5879	58	5599	222	85	4480	48	4279	153	50	8
0907	9421	176	8802	443	260	7064	159	6536	369	221	8
0908	7805	161	7421	223	64	5756	144	5477	135	34	8
0909	6782	277	6043	462	352	5155	239	4617	299	217	8
0910	6387	83	6139	165	50	4701	71	4508	122	35	8
0911	4936	202	4577	157	70	3747	177	3466	104	46	8
1001	4136	187	3691	258	183	3161	167	2810	184	121	8
1002	5381	60	5160	161	42	4177	55	4015	107	28	8
1003	8598	1119	7114	365	142	6722	1008	5459	255	99	8
1004	6895	181	6302	412	272	5359	153	4945	261	160	8
1006	5891	158	5261	472	326	4505	141	4051	313	211	8
1007	7081	148	6504	429	333	5294	111	4912	271	187	8
1008	7720	546	5883	1291	1161	5782	468	4501	813	696	8
1009	9022	335	7838	849	694	6174	252	5382	540	421	8
1010	7707	446	5954	1307	1167	5439	396	4199	844	764	8
1107	7889	734	6262	893	838	5702	599	4536	567	511	8
1301	7717	3141	972	3604	3563	5315	2470	626	2219	2146	8
1302	4644	2277	604	1763	1605	3357	1836	422	1099	943	8

Precinct	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	District
0108	5222	1889	1197	2136	2039	3621	1500	822	1299	1175	9
0109	3808	1425	1397	986	805	2855	1158	1020	677	506	9
0110	11472	4951	5057	1464	896	9156	4309	3807	1040	626	9
0111	6370	2094	3561	715	387	4812	1727	2566	519	276	9
0202	3683	1825	1288	570	296	2941	1563	966	412	196	9
0401	7020	6045	422	553	148	5782	4997	361	424	121	9
0402	3816	3395	103	318	100	2939	2648	73	218	86	9
0403	4644	3856	254	534	121	3879	3290	202	387	98	9
0404	3495	2529	603	363	124	3005	2202	504	299	107	9
0407	6474	5363	566	545	262	5406	4591	424	391	187	9
0408	6794	3708	2542	544	299	5363	3099	1880	384	223	9
0409	7836	3346	3631	859	486	6149	2844	2720	585	330	9
0412	51	49	0	2	0	51	49	0	2	0	9
0501	1852	756	483	613	650	1311	595	339	377	385	9
0502	10870	3407	4832	2631	2159	8045	2841	3516	1688	1316	9
0504	6835	2923	2678	1234	563	5634	2639	2087	908	399	9
0505	4341	1200	2451	690	291	3288	1019	1759	510	208	9
0507	8518	3393	3500	1625	880	6692	2942	2569	1181	605	9
0508	499	159	279	61	32	359	134	182	43	26	9
0509	9451	3980	3888	1583	731	7547	3500	2870	1177	522	9
0510	118	108	7	3	3	115	106	7	2	2	9
0511	0	0	0	0	0	0	0	0	0	0	9
0608	8060	983	6215	862	608	5727	846	4319	562	360	9
0609	8138	1702	5511	925	590	5981	1418	3953	610	384	9
0708	7319	3069	3060	1190	920	6133	2731	2418	984	800	9
0709	8860	1379	5545	1936	1642	6169	1129	3849	1191	958	9
0710	4109	3263	385	461	165	3483	2828	322	333	116	9

Precinct	Total Pop	Wht Pop	Blk Pop	Oth Pop	Hisp Pop	Total Pop 18	Wht Pop 18	Blk Pop 18	Oth Pop 18	Hisp Pop 18	District
1005	10017	2148	4542	3327	3078	7148	1849	3311	1988	1788	9
1101	10487	579	7013	2895	2798	7205	476	4979	1750	1688	9
1102	8404	488	6978	938	752	6078	431	5001	646	500	9
1103	8764	648	6133	1983	1663	6136	538	4320	1278	1038	9
1104	6499	340	5175	984	868	4737	298	3803	636	555	9
1105	13426	536	10200	2690	2573	9148	451	6994	1703	1595	9
1106	8638	528	7049	1061	979	6316	448	5182	686	624	9
1108	8161	443	6166	1552	1535	5562	350	4209	1003	959	9
1201	11328	1120	9175	1033	881	8467	1048	6674	745	619	9
1202	5256	1384	2960	912	281	4531	1283	2490	758	211	9
1203	2	0	0	2	1	2	0	0	2	1	9
1204	7416	606	5823	987	833	5612	524	4408	680	557	9
1205	0	0	0	0	0	0	0	0	0	0	9
1207	2115	103	1751	261	228	1521	92	1258	171	142	9
1208	12	1	10	1	0	11	1	9	1	0	9
1301	11	2	0	9	2	7	0	0	7	0	9
1303	11367	7403	2812	1152	471	9499	6037	2717	745	335	9
1304	4389	1791	2169	429	212	3504	1610	1622	272	135	9
1305	4420	3783	283	354	146	3648	3160	215	273	111	9
1306	6490	4826	825	839	470	4989	3815	602	572	288	9
1307	8450	5891	1800	759	272	7213	5153	1454	606	215	9
1308	7697	5463	1404	830	412	6693	4834	1166	693	379	9
1309	8520	4946	2437	1137	304	7612	4560	2046	1006	265	9
1310	85	59	2	24	5	79	57	2	20	4	9
1311	9760	5607	2339	1814	1364	7665	4805	1671	1189	858	9
1312	255	110	88	57	45	207	92	80	35	27	9

MAP EVALUATION
FORM

MAP ID	Ratings	Objectives	Score	Highest Possible Score	Lowest Possible Score
	5-10	Are District lines appropriately proportioned with a population deviation of less than 10%?		10	5
	6-9	Does the District structure seek to protect minority representation?		9	6
	5-8	Are District lines primarily compact and contiguous? (DEANNEXATION)		8	5
	4-7	Do district lines respect communities of interest?		7	4
	3-6	Do District lines mostly respect political boundaries?		6	3
	-1 to -5	Other Concerns **** Please Comment		0	-5
		Total	0	40	18
		<p><i>***political boundaries are the boundaries of other governments, such as cities, towns, or counties, and political divisions, such as city council wards or state legislative districts. In drawing electoral districts, a state may take these political boundaries into account in order to keep existing constituencies within one district rather than splitting them across multiple districts***</i></p> <p><i>****A community of interest refers to a group of people with a common set of concerns that may be affected by legislation. Examples of communities of interest include ethnic, racial, and economic groups****</i></p>			