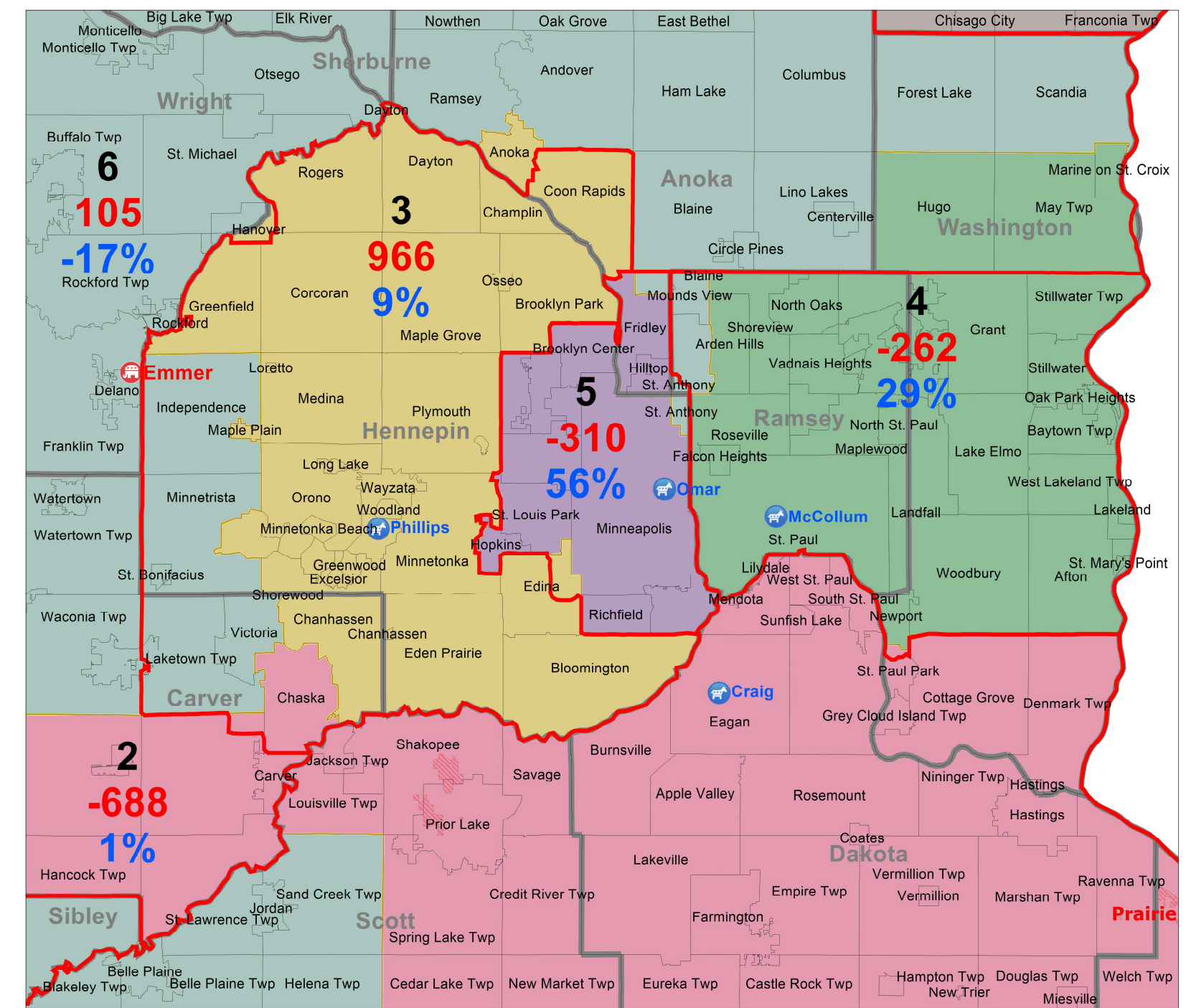
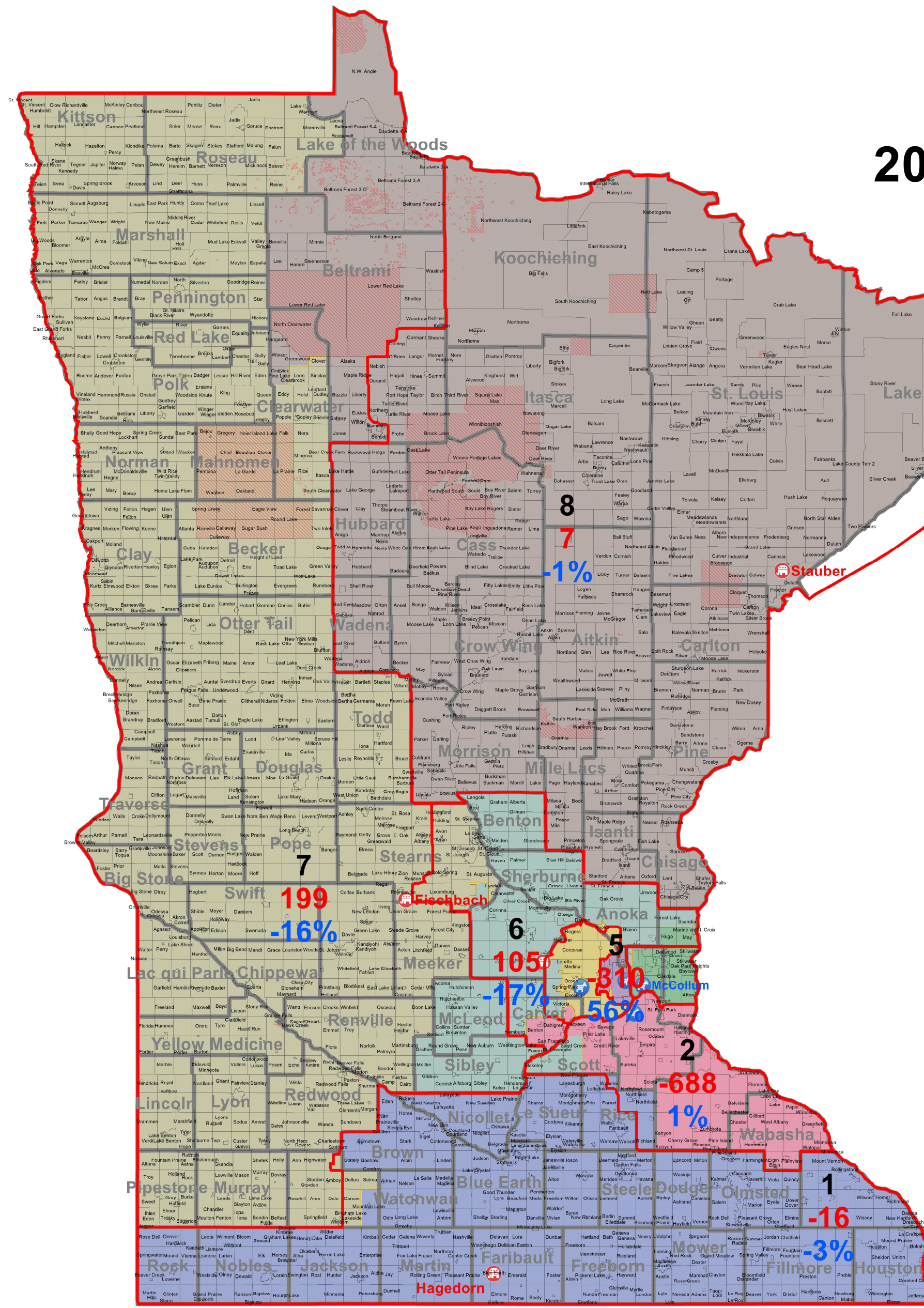


Congressional Plan 2022 PW 8C03

2019 State Demographer Population Estimate 2012-20 Party Index

Whole Cities



April 8, 2021

Peter S. Wattson

Democratic Seats		Swing	Republican Seats	
District	Incumbent	to Lose	District	Incumbent
5	Omar	28		
		27		
		26		
		25		
		24		
		23		
		22		
		21		
		20		
		19		
		18		
		17		
		16		
4	McCollum	15		
		14		
		13		
		12		
		11		
		10		
		9	6	Emmer
		8	7	Fischbach
		7		
		6		
3	Phillips	5		
		4		
		3		
		2	1	Hagedorn
2	Craig	1	8	Stauber

Names in red are Republican

Third Index:	2012	Johnson + Harris + Goode + Morstad + Stein + Carlson + Lindsay + Anderson + Write-In
	2014	Carlson + Johnson + Write-In + Nicollet + Holbrook + Wright + Write-In + Helland + Odden + Write-In + Dean + Iversen + Schwartzbacker + Write-In + Borgos + Dawkins + O'Connor + Vacek + Write-In
	2016	Castle + Vacek + Kennedy + Stein + De La Fuente + McMullin + Johnson + Write-In
	2018	Wellington + Trooien + Write-In + Wright + Welter + Write-In + Denney +Write-In + Ford + Dock + Write-In + Johnson + Write-In
	2020	De La Fuente +Hawkins + West + Pierce + La Riva + Kennedy + Jorgensen + Write-In + O'Connor + Steinberg + Write-In

Partisanship

Thursday, April 8, 2021

6:09 PM

Partisanship - 2012-20 Index

		Dem Index	Rep Index	Third Index
Districts with a Plurality		4	4	0
Percent of Total Seats		50 %	50 %	
Proportional Seat Gap		Dem Vote	Rep Vote	Third Vote
Statewide Vote		51 %	44 %	6 %
		Dem Seats	Rep Seats	Third Seats
Proportional Seats		4	3	
Gap (Districts with a plurality minus proportional seats)			1	
	Total	Democratic	Republican	Third
Competitive Districts (8% Plurality or less)	3	1	2	0
Safe Seats (20% Plurality or more)	2	2	0	0
Mean-Median Gap	Dem Minus Rep	Dem Vote	Rep Vote	Third Vote
Mean Vote		51 %	44 %	6 %
Median Vote		47 %	47 %	6 %
Gap (Ideal is 0.)	7 %	4 %	-4 %	0 %
Lopsided Wins Gap (Democratic winning margin minus Republican winning margin. Ideal is 0.)	Dem Minus Rep	Dems Win By	Reps Win By	
	15 %	24 %	9 %	
Declination (Losing and winning Democratic pluralities graphed from smallest to largest. Difference of angles of losing and winning graphs converted to a scale of -1 to 1. Ideal is 0.)	18 %			
Efficiency Gap (Democratic wasted votes minus Republican wasted votes. Ideal is 0.)	Dem Minus Rep	Dem Wasted Votes	Rep Wasted Votes	
	10 %	33 %	23 %	

Note: Percentage totals may not add due to rounding.

District	Index Votes	Dem Plurality	Dem Index %	Rep Index %	Third Index %
1	4,157,983	(3)	45.4	48.5	6.0
2	4,438,655	1	47.9	46.5	5.6

District	Index Votes	Dem Plurality	Dem Index %	Rep Index %	Third Index %
3	4,720,959	9	52.0	43.2	4.9
4	4,267,870	29	61.8	32.5	5.7
5	4,229,914	56	74.9	19.1	6.0
6	4,277,358	(17)	38.8	55.4	5.7
7	4,227,230	(16)	39.5	55.0	5.5
8	4,579,358	(1)	46.4	47.8	5.7
State Total:	34,899,327		17,736,165	15,201,653	1,961,508 6

51

44

Definitions:

Dem Plurality = Dem Index - Rep Index (a negative number is a Republican plurality)

Dem Index = 2012 Obama+2014 Franken+Dayton+Simon+Otto+Swanson+2016 Clinton
 +2018 Smith+Walz+Simon+Blaha+Ellison+2020 Biden+Smith

Rep Index = 2012 Romney+2014 McFadden+Johnson+Severson+Gilbert+Newman+2016 Trump
 +2018 Housley+Johnson+Howe+Myhra+Wardlow+2020 Trump+Lewis

Third Index = 2012 Johnson+Harris+Goode+Morstad+Stein+Carlson+Lindsay+Anderson+Write-In
 +2014 Carlson+Johnson+Write-In+Nicollet+Holbrook+Wright+Write-In
 +Helland+Odden+Write-In+Dean+Iverson+Schwartzbacker+Write-In
 +Borgos+Dawkins+O'Connor+Vacek+Write-In
 +2016 Castle+Vacek+Kennedy+Stein+De La Fuente+McMullin+Johnson+Write-In
 +2018 Wellington+Trooien+Write-In+Wright+Welter+Write-In+Denney+Write-In
 +Ford+Dock+Write-In+Johnson+Write-In
 +2020 De La Fuente+Hawkins+West+Pierce+La Riva+Kennedy+Jorgensen+Write-In
 + O'Connor+Steinberg+Write-In

Districts & Their Incumbents

Thursday, April 8, 2021

6:09 PM

Number of Incumbents Paired: 0
Number of Open Seats: 0
Democrat v. Democrat: 0
Republican v. Republican: 0
Democrat v. Republican: 0

DISTRICT	NAME	PARTY	Previous District
1	Jim Hagedorn	R	1
2	Angie Craig	DFL	2
3	Dean Phillips	DFL	3
4	Betty McCollum	DFL	4
5	Ilhan Omar	DFL	5
6	Tom Emmer	R	6
7	Michelle Fischbach	R	7
8	Pete Stauber	R	8

Core Constituencies

Thursday, April 8, 2021

6:24 PM

		[19POP]			[20VOTERS]			Average Core of Prior District	93%
								Population Moved	437,046
Plan: 2022 PW 8C03, District 1 --						710,026	Total Population		
From Plan: 2020 PW CBase19									
Dist.	1	683,966	96%	376,429	96%				
Dist.	2	26,060	4%	15,101	4%				
Plan: 2022 PW 8C03, District 2 --						709,354	Total Population		
From Plan: 2020 PW CBase19									
Dist.	2	671,144	95%	407,257	95%				
Dist.	3	27,750	4%	16,047	4%				
Dist.	4	292	0%	157	0%				
Dist.	6	10,168	1%	6,655	2%				
Plan: 2022 PW 8C03, District 3 --						711,008	Total Population		
From Plan: 2020 PW CBase19									
Dist.	3	676,497	95%	422,564	95%				
Dist.	5	14,623	2%	9,907	2%				
Dist.	6	19,888	3%	10,251	2%				
Plan: 2022 PW 8C03, District 4 --						709,780	Total Population		
From Plan: 2020 PW CBase19									
Dist.	4	690,964	97%	386,763	97%				
Dist.	6	18,816	3%	12,622	3%				
Plan: 2022 PW 8C03, District 5 --						709,732	Total Population		
From Plan: 2020 PW CBase19									
Dist.	5	709,732	100%	393,386	100%				
Plan: 2022 PW 8C03, District 6 --						710,147	Total Population		
From Plan: 2020 PW CBase19									
Dist.	2	23,943	3%	13,720	3%				
Dist.	3	26,927	4%	18,123	4%				
Dist.	4	37,131	5%	21,014	5%				
Dist.	5	15,528	2%	9,668	2%				
Dist.	6	555,756	78%	331,124	78%				
Dist.	7	50,862	7%	29,530	7%				
Plan: 2022 PW 8C03, District 7 --						710,241	Total Population		
From Plan: 2020 PW CBase19									
Dist.	1	1,016	0%	690	0%				
Dist.	6	127,504	18%	67,913	17%				
Dist.	7	581,721	82%	323,455	83%				

From Plan: 2020 PW CBase19

Dist. 7	36,538	5%	17,994	4%
Dist. 8	673,511	95%	402,627	96%

Population Summary

Thursday, April 8, 2021

6:11 PM

Overall Range:			0.23 Percent	1,654 Persons
Largest District:	711,008	Deviation:	0.14 Percent	966 Persons
Smallest District:	709,354	Deviation:	-0.10 Percent	-688 Persons
		Mean Deviation:	0.04 Percent	319 Persons
		Standard Deviation:	450	450.30 Persons
Ideal District:	710,042			

District	Population	Deviation	% Devn.
1	710,026	-16	0.00%
2	709,354	-688	-0.10%
3	711,008	966	0.14%
4	709,780	-262	-0.04%
5	709,732	-310	-0.04%
6	710,147	105	0.01%
7	710,241	199	0.03%
8	710,049	7	0.00%

State Total: 5,680,337

Contiguity Report

Monday, May 24, 2021

9:21 AM

Number of Districts
with
More than One Area

0

District	Number of Distinct Areas
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1

Political Subdivision Splits Between Districts

Thursday, April 8, 2021

6:11 PM

Number of subdivisions split into multiple districts:

County 2012-20 ER	9
Citytown 2012-20 ER	0

Number of times a subdivision is split into multiple districts:

County 2012-20 ER	13
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Number of splits involving no population:

County 2012-20 ER	0
Citytown 2012-20 ER	0

County 2012-20 ER	Citytown 2012-20 ER	District	[19POP]
<i>Split Counties:</i>			
Anoka		3	82,693
Anoka		5	51,293
Anoka		6	228,660
Carver		2	37,918
Carver		3	26,278
Carver		6	42,983
Clearwater		7	7,809
Clearwater		8	999
Cottonwood		1	2,675
Cottonwood		7	8,541
Hennepin		3	602,037
Hennepin		5	658,439
Hennepin		6	19,508
Ramsey		4	517,436
Ramsey		6	40,819
Scott		2	124,516
Scott		6	23,943
Stearns		6	1,577
Stearns		7	158,635
Washington		2	45,555
Washington		4	192,344
Washington		6	24,852

Measures of Compactness Report

Sunday, May 23, 2021

8:10 PM

Number of cut edges: 537

	Reock	Polsby-Popper	Minimum Convex Hull	Population Polygon	Population Circle	Ehrenburg	Schwartzberg	Alternate Schwartzberg	Perimeter	Length-Width
Mean	0.39	0.29	0.74	0.72	0.37	0.35	1.73	1.94		56.87
Min	0.22	0.16	0.60	0.24	0.15	0.20	1.30	1.37		2.30
Max	0.58	0.53	0.85	0.93	0.66	0.53	2.31	2.51		203.43
Std. Dev.	0.14	0.11	0.08	0.24	0.23	0.11	0.29	0.34		87.11
Sum									4,514	

District	Higher Number is Better					Lower Number is Better				
	Reock	Polsby-Popper	Minimum Convex Hull	Population Polygon	Population Circle	Ehrenburg	Schwartzberg	Alternate Schwartzberg	Perimeter	Length-Width
1	0.22	0.31	0.83	0.93	0.16	0.30	1.75	1.80	703.46	188.69
2	0.25	0.28	0.71	0.66	0.21	0.30	1.78	1.89	323.74	43.85
3	0.54	0.22	0.69	0.49	0.37	0.31	1.77	2.14	164.24	4.02
4	0.58	0.53	0.85	0.88	0.66	0.45	1.30	1.37	100.64	2.30
5	0.48	0.33	0.80	0.85	0.58	0.44	1.60	1.74	71.46	5.75
6	0.36	0.16	0.60	0.24	0.18	0.20	2.31	2.51	537.06	2.40
7	0.28	0.21	0.76	0.79	0.15	0.26	1.77	2.16	1,339.30	203.43
8	0.42	0.27	0.71	0.89	0.65	0.53	1.52	1.94	1,274.09	4.52

Communities of Interest (Landscape, 11x8.5)

Friday, May 21, 2021

6:01 PM

Number of Indian Reservations split	2
Number of Indian Reservation not split	11
Total number of splits	2

Indian Reservation	District	[19POP]	%
Minnesota Chippewa	7	1	8.0
Minnesota Chippewa	8	7	92.1
Red Lake	7	16	0.3
Red Lake	8	5,881	99.7

2022 Congressional Plan Comparison

	2002 Court	2012 Court	2020 PW CBase19	2022 PW 8C03
Population Equality				
Overall Range - Persons	1	1	70,762	1,654
Overall Range - Percent	0.00%	0.00%	9.97%	0.23%
Political Subdivision Splits				
Counties				
Number split	8	9	9	9
Times split	13	12	12	13
Cities, Townships, Unorganized Territories				
Number split	7	7	8	0
Times split	7	7	8	0
Precincts				
Number split	12	9	0	0
Times split	12	9	0	0

	2002 Court	2012 Court	2020 PW CBase19	2022 PW 8C03
Compactness				
Reock Mean (higher is better)	.42	.41	.41	.39
Polsby-Popper Mean (higher is better)	.31	.33	.32	.29
Convex Hull (higher is better)	.77	.77	.77	.74
Population Polygon (higher is better)	.68	.71	.71	.72
Population Circle (higher is better)	.34	.36	.36	.37
Ehrenburg (higher is better)	.38	.38	.39	.35
Schwartzberg (lower is better)	1.71	1.68	1.60	1.73
Alternate Schwartzberg (lower is better)	1.84	1.79	1.81	1.94
Perimeter Length (shorter is better)	4,226	4,243	4,284	4,514
Length-Width (lower is better)	62.64	63.66	63.59	56.87
Cut edges (fewer is better)	2,843	3,212	477	537
Communities of Interest Splits				
Indian Reservations				
Number split	2	2	2	2
Times split	2	2	2	2
Cores of Prior Districts				
Average core of prior district		92%	NA	93%
Incumbent Pairs				
Incumbents Paired	2	2	0	0
Open Seats	1	1	0	0
Democrat v. Democrat	0	0	0	0
Republican v. Republican	0	0	0	0
Democrat v. Republican	1	1	0	0

	2002 Court	2012 Court	2020 PW CBase19	2022 PW 8C03
Partisanship	1998 Index	2006-10 Index	2012-20 Index	2012-20 Index
Democratic Vote Statewide	45%	48%	51%	51%
Republican Vote Statewide	46%	45%	44%	44%
Third Party Vote Statewide	9%	7%	6%	6%
Democratic Plurality	3	3	4	4
Democratic Seat Gap (Districts with a plurality minus proportional seats)	(1)	(1)	0	0
Republican Plurality	5	5	4	4
Republican Seat Gap (Districts with a plurality minus proportional seats)	1	1	1	1
Competitive (Plurality 8% or less)	3	5	4	3
Safe (Plurality 20% or more)	0	1	2	2
Mean-Median Gap (Democratic minus Republican mean plurality minus median plurality. Ideal is 0.)	3%	7%	7%	7%
Lopsided Wins Gap (Democratic average winning plurality minus Republican average winning plurality. Ideal is 0.)	4%	15%	13%	15%
Declination (Losing and winning Democratic pluralities graphed from smallest to largest. Difference of angles of losing and winning graphs converted to a scale of -1 to 1. Ideal is 0.)	14%	29%	16%	18%
Efficiency Gap (Democratic wasted votes minus Republican wasted votes. Ideal is 0.)	9%	17%	9%	10%