Congressional Plan
2022 PW 8C05
2020 Census
2012-20 Party Index

Map layers
- Districts
- Indian Reservation
- County 2021-08-26
- Citytown 2021-08-26
- Congress 2020
- CongIncum 2020-11-16

0 3.3 6.7 10
Miles

District Labels
District
Deviation
Dem Plurality

8
80
-1%

7
-84
-19%

5
-55
55%

2
562
3%

1
-127
-3%

Stauber

Fischbach

Emmer

Phillips

McCollum

Craig

Hagedorn

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Inset map:

3
-7
9%

6
-415
-17%

5
-55
55%

4
44
30%

2
562
3%

Emmer
Phillips
Omar
McCollum
Craig
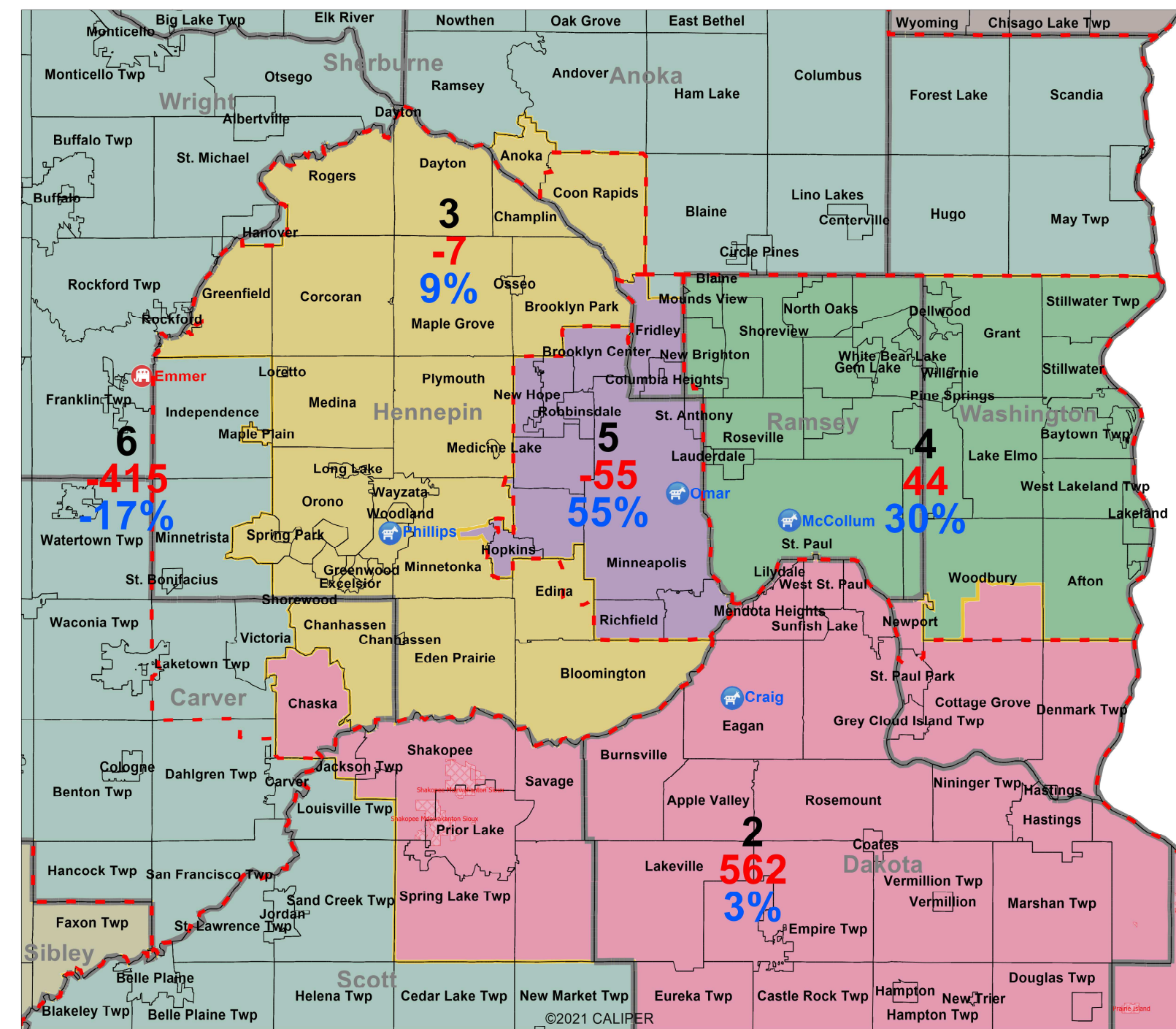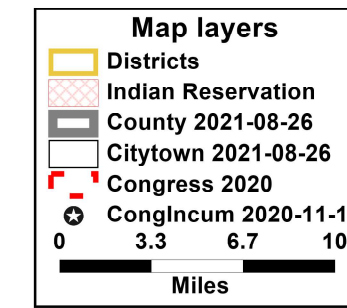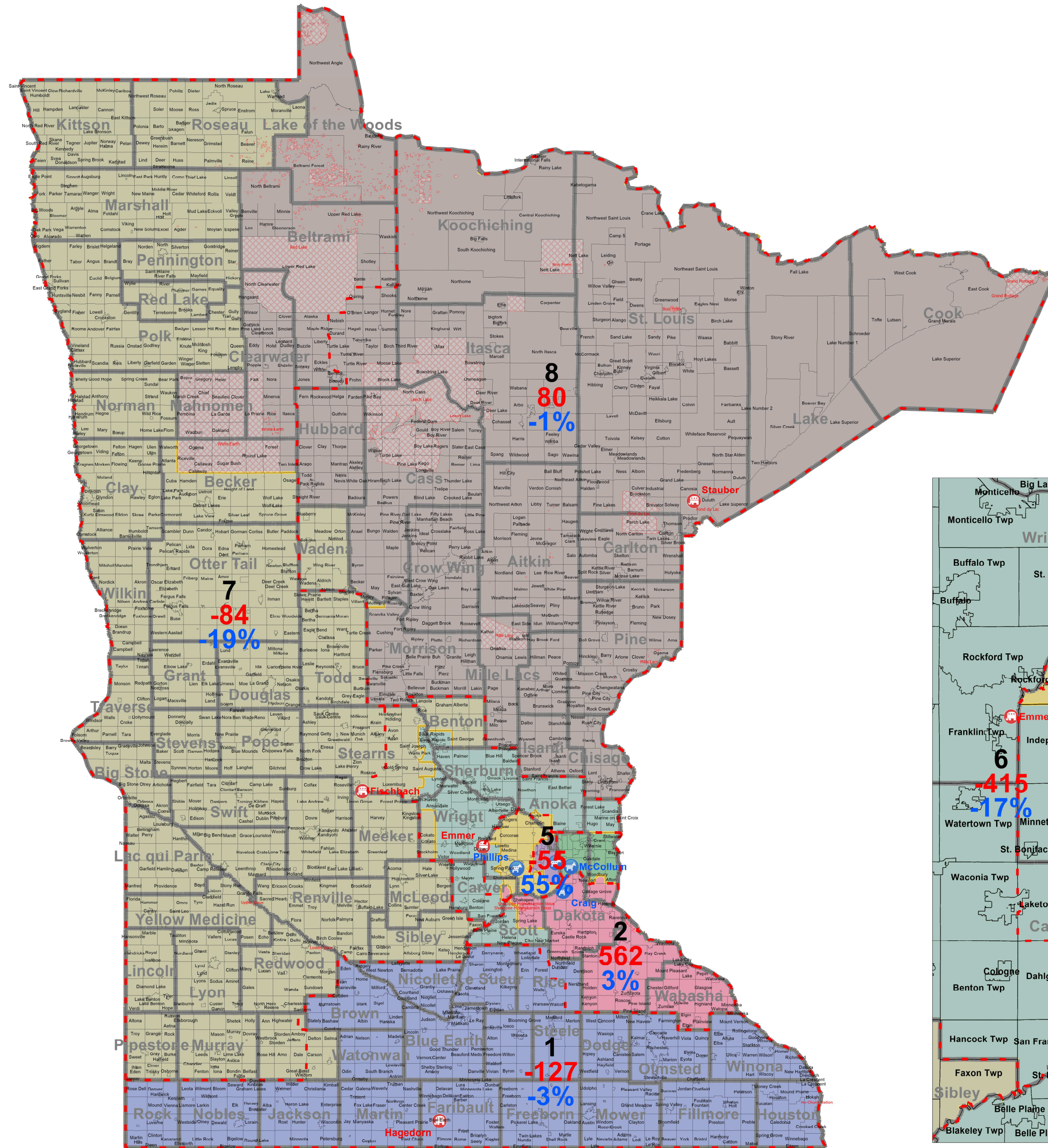
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August 31, 2021

Peter S. Wattson

Population Summary

Overall Range:			0.14 Percent	977 Persons
Largest District:	713,874	Deviation:	0.08 Percent	562 Persons
Smallest District:	712,897	Deviation:	-0.06 Percent	-415 Persons
		Mean Deviation:	0.02 Percent	172 Persons
		Standard Deviation:	256	255.60 Persons
Ideal District:	**713,312**			

District	Population	Deviation	% Devn.
1	713,185	-127	-0.02%
2	713,874	562	0.08%
3	713,305	-7	0.00%
4	713,356	44	0.01%
5	713,257	-55	-0.01%
6	712,897	-415	-0.06%
7	713,228	-84	-0.01%
8	713,392	80	0.01%

State Total: **5,706,494**

Minority Representation - Voting-Age Population

Monday, August 30, 2021   2:11 PM

Minority Opportunity Districts

(30% or more Total Minority)

District	Black	%	Asian	%	Hispanic	%	Indian	%	Other	%	Total Minority	%
4	53,105	9.6	65,770	11.9	34,261	6.2	2,796	0.5	20,742	3.8	176,674	32.1
5	84,408	14.7	34,946	6.1	49,302	8.6	5,122	0.9	25,988	4.5	199,766	34.9

District	Black	%	Asian	%	Hispanic	%	Indian	%	Other	%	Total Minority	%
1	17,444	3	15,988	3	33,216	6	1,486	0	14,155	3	82,289	15
2	28,125	5	29,566	6	33,046	6	2,627	0	18,357	3	111,721	21
3	41,593	8	44,989	8	23,272	4	1,662	0	18,858	3	130,374	24
4	53,105	10	65,770	12	34,261	6	2,796	1	20,742	4	176,674	32
5	84,408	15	34,946	6	49,302	9	5,122	1	25,988	5	199,766	35
6	18,296	3	14,634	3	14,951	3	1,899	0	17,323	3	67,103	13
7	8,228	2	4,816	1	22,719	4	3,926	1	13,588	2	53,277	10
8	6,154	1	3,972	1	8,000	1	20,042	4	20,608	4	58,776	10

State Totals

	Black	%	Asian	%	Hispanic	%	Indian	%	Other	%	Total Minority	%
	257,353	6	214,681	5	218,767	5	39,560	1	149,619	0	879,980	20

Note: Percentage totals may not add due to rounding.

Definitions

Black	= 18+ Non-Hispanic Black or African American + Non-Hispanic Black or African American and White
Asian	= 18+ Non-Hispanic Asian + Non-Hispanic Asian and White
Hispanic	= 18+ Hispanic of Any Race
Indian	= 18+ Non-Hispanic American Indian and Alaska Native
	+ Non-Hispanic American Indian and Alaska Native and White
Other	= 18+ Non-Hispanic Native Hawaiian + Non-Hispanic Native Hawaiian and White
	+ Non-Hispanic Some Other Race + Non-Hispanic Some Other Race and White
	+ Non-Hispanic Other Multi-Race (where more than one minority race is listed)

Congress Plan: **2022 PW 8C05**

Administrator: **Peter S. Wattson**

Contiguity Report

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 Subdivison Splits Between Districts

Number of subdivisions split into multiple districts:

County 2021-08-26	10
Citytown 2021-08-26	2

Number of times a subdivision is split into multiple districts:		Number of splits involving no population:	
County 2021-08-26	14	County 2021-08-26	0
Citytown 2021-08-26	2	Citytown 2021-08-26	0

County 2021-08-26	Citytown 2021-08-26	District	[20POP]
Split Counties:			
Anoka		3	81,520
Anoka		5	52,521
Anoka		6	229,846
Becker		7	31,188
Becker		8	3,995
Benton		6	25,124
Benton		7	16,255
Carver		2	27,810
Carver		3	25,951
Carver		6	53,161
Hennepin		3	605,834
Hennepin		5	660,736
Hennepin		6	14,995
Morrison		7	911
Morrison		8	33,099
Scott		2	114,353
Scott		6	36,575
Stearns		6	77,339
Stearns		7	80,953
Washington		2	62,860
Washington		4	161,004
Washington		6	43,704
Wright		6	134,970
Wright		7	6,367
Split MCDs:			
Hennepin	Minnetonka	3	51,430
Hennepin	Minnetonka	5	2,333
Washington	Woodbury	2	12,594
Washington	Woodbury	4	62,488

American Indian Reservation Splits

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

Indian Reservation	District	[20POP]	%
Minnesota Chippewa	7	1	8.2
Minnesota Chippewa	8	7	91.8
Red Lake	7	15	0.3
Red Lake	8	5,420	99.7

Measures of Compactness Report

Monday, August 30, 2021   2:44 PM

Number of cut edges: 541

	Reock	Polsby-Popper	Minimum Convex Hull	Population Polygon	Population Circle	Ehrenburg	Schwartzberg	Alternate Schwartzberg	Perimeter	Length-Width
Mean	0.39	0.28	0.74	0.69	0.37	0.36	1.76	1.98		56.93
Min	0.22	0.16	0.59	0.21	0.15	0.24	1.38	1.44		3.85
Max	0.53	0.48	0.87	0.93	0.65	0.52	2.28	2.51		189.72
Std. Dev.	0.12	0.10	0.09	0.25	0.21	0.11	0.28	0.36		82.38
Sum									4,562	

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	0.31	1.75	1.80	701.26	188.69
2	0.28	0.31	0.74	0.68	0.24	0.33	1.69	1.81	296.26	32.24
3	0.53	0.21	0.69	0.49	0.38	0.24	1.83	2.21	169.07	4.01
4	0.53	0.48	0.87	0.90	0.60	0.52	1.38	1.44	95.57	5.80
5	0.48	0.32	0.77	0.84	0.59	0.51	1.64	1.77	73.51	4.44
6	0.36	0.16	0.59	0.21	0.19	0.25	2.28	2.51	438.23	3.85
7	0.28	0.17	0.68	0.60	0.15	0.29	2.00	2.41	1,502.06	189.72
8	0.47	0.29	0.71	0.83	0.65	0.43	1.53	1.86	1,286.35	26.66

Districts & Their Incumbents

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

	[20POP]		[18+_Pop]			
					Average Core of Prior District	94%
					Population Moved	324,568

Plan: 2022 PW 8C05, District 1 --   713,185   **Total Population**

From Plan: *2020 PW CBase20*

Dist.	1	687,101	96%	528,089	96%
Dist.	2	26,084	4%	21,073	4%

Plan: 2022 PW 8C05, District 2 --   713,874   **Total Population**

From Plan: *2020 PW CBase20*

Dist.	2	669,299	94%	503,752	94%
Dist.	3	27,810	4%	20,320	4%
Dist.	4	16,765	2%	11,357	2%

Plan: 2022 PW 8C05, District 3 --   713,305   **Total Population**

From Plan: *2020 PW CBase20*

Dist.	3	680,459	95%	522,975	96%
Dist.	5	14,470	2%	10,108	2%
Dist.	6	18,376	3%	14,521	3%

Plan: 2022 PW 8C05, District 4 --   713,356   **Total Population**

From Plan: *2020 PW CBase20*

Dist.	4	709,711	99%	547,605	99%
Dist.	5	3,645	1%	2,996	1%

Plan: 2022 PW 8C05, District 5 --   713,257   **Total Population**

From Plan: *2020 PW CBase20*

Dist.	3	2,333	0%	1,848	0%
Dist.	5	710,924	100%	571,147	100%

Plan: 2022 PW 8C05, District 6 --   712,897   **Total Population**

From Plan: *2020 PW CBase20*

Dist.	2	36,575	5%	26,501	5%
Dist.	3	26,921	4%	19,448	4%
Dist.	5	6,983	1%	5,541	1%
Dist.	6	642,418	90%	476,317	90%

Plan: 2022 PW 8C05, District 7 --   713,228   **Total Population**

From Plan: *2020 PW CBase20*

		[20POP]		[18+_Pop]	
Dist.	1	3,625	1%	2,742	1%
Dist.	6	73,574	10%	55,732	10%
Dist.	7	621,053	87%	474,279	87%
Dist.	8	14,976	2%	11,303	2%

Plan: 2022 PW 8C05, District 8 --   **713,392**   **Total Population**

From Plan:	*2020 PW CBase20*				
Dist.	7	52,431	7%	39,272	7%
Dist.	8	660,961	93%	522,107	93%

Partisanship

Partisanship - 2012-20 Index

	Dem Index	Rep Index	
Districts with a Plurality	4	4	
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
Competitive Districts (8% Plurality or less)	3	1	2
Safe Seats (20% Plurality or more)	2	2	0

Mean-Median Gap	Dem Minus Rep	Dem Vote	Rep Vote	Third Vote
Mean Vote		51 %	44 %	6 %
Median Vote		48 %	47 %	6 %
Gap (Ideal is 0.)	6 %	3 %	-3 %	0 %

Lopsided Wins Gap (Democratic winning margin minus Republican winning margin. Ideal is 0.)	Dem Minus Rep	Dems Win By	Reps Win By
	14 %	24 %	10 %

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.)	
	17 %

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: In the Mean-Median Gap, Lopsided Wins Gap, Declination, and Efficiency Gap, a positive number shows a partisan bias against Democrats and a negative number shows a partisan bias against Republicans.

Note: Percentage totals may not add due to rounding.

District	Index Votes	Dem Plurality	Dem Index %	Rep Index %	Third Index %
1	4,143,243	(3)	45.5	48.5	6.0
2	4,375,419	2	48.5	46.0	5.6
3	4,697,956	9	52.0	43.2	4.9
4	4,306,130	30	62.4	31.9	5.7
5	4,294,381	55	74.7	19.3	6.0
6	4,227,513	(17)	38.7	55.6	5.7
7	4,272,166	(19)	38.0	56.6	5.4
8	4,582,519	(1)	46.6	47.6	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

2022 Congressional District Swing to Lose Pendulum
2012-20 Party Index
Congress Plan: 2022 PW 8C05

		Democratic Seats		Swing to Lose	Republican Seats	
		District	Incumbent		District	Incumbent
		5	Omar	28		
				27		
				26		
				25		
				24		
				23		
				22		
				21		
				20		
				19		
				18		
Safe				17		0
				16		
2	2	4	McCollum	15		
				14		
				13		
				12		
				11		
				10		
				9	7	Fischbach
Strong					6	Emmer
				8		
3	1			7		2
				6		
		3	Phillips	5		
				4		
Competitive				3		
				2	1	Hagedorn
3	1	2	Craig	1		2
				0	8	Stauber

Names in blue are DFL
Names in red are Republican

Dem Index:	2012	Obama
	2014	Franken + Dayton + Simon + Otto + Swanson
	2016	Clinton
	2018	Smith + Waltz + 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 + 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

2022 Congressional Plan Comparison

	2002 Court	2012 Court	2020 PW CBase20	2022 PW 8C05
Population Equality				
Overall Range - Persons	1	1	64,039	977
Overall Range - Percent	0.00%	0.00%	8.98%	0.14%
Minority Districts -Voting Age Population				
Districts 30% or more total minority population	0	0	2	2
Largest total minority population	23.1%	29.0%	34.5%	34.9%
Largest Black population	11%	14%	15%	15%
Largest Asian population	6%	9%	12%	12%
Largest Hispanic population	8%	7%	8%	9%
Largest American Indian population	3%	3%	2%	4%
Political Subdivision Splits				
Counties				
Number split	8	9	9	10
Times split	13	12	12	14
Cities, Townships, Unorganized Territories				
Number split	7	7	8	2
Times split	7	7	8	2
Precincts				
Number split	12	9	0	0
Times split	12	9	0	0

	2002 Court	2012 Court	2020 PW CBase20	2022 PW 8C05
Communities of Interest Splits				
Indian Reservations				
Number split	2	2	2	2
Times split	2	2	2	2
Compactness				
Reock Mean (higher is better)	.42	.41	.41	.39
Polsby-Popper Mean (higher is better)	.31	.33	.33	.28
Convex Hull (higher is better)	.77	.77	.77	.74
Population Polygon (higher is better)	.68	.71	.71	.69
Population Circle (higher is better)	.34	.36	.36	.37
Ehrenburg (higher is better)	.38	.38	.39	.36
Schwartzberg (lower is better)	1.71	1.68	1.60	1.76
Alternate Schwartzberg (lower is better)	1.84	1.79	1.80	1.98
Perimeter Length (shorter is better)	4,226	4,243	4,250	4,562
Length-Width (lower is better)	62.64	63.66	63.67	56.93
Cut edges (fewer is better)	2,843	3,212	483	541
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
Cores of Prior Districts				
Average core of prior district		92%	NA	94%

Partisanship	2002 Court 1998 Index	2012 Court 2006-10 Index	2020 PW CBase20 2012-20 Index	2022 PW 8C05 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%	14%
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%	17%
Efficiency Gap (Democratic wasted votes minus Republican wasted votes. Ideal is 0.)	9%	17%	9%	10%