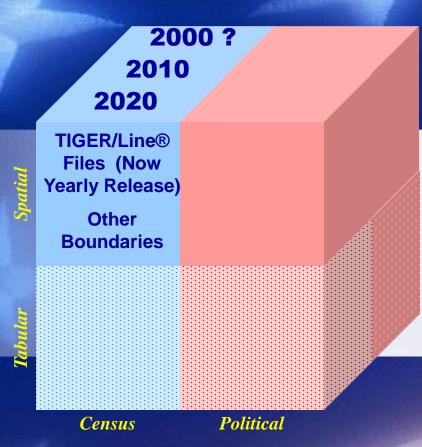


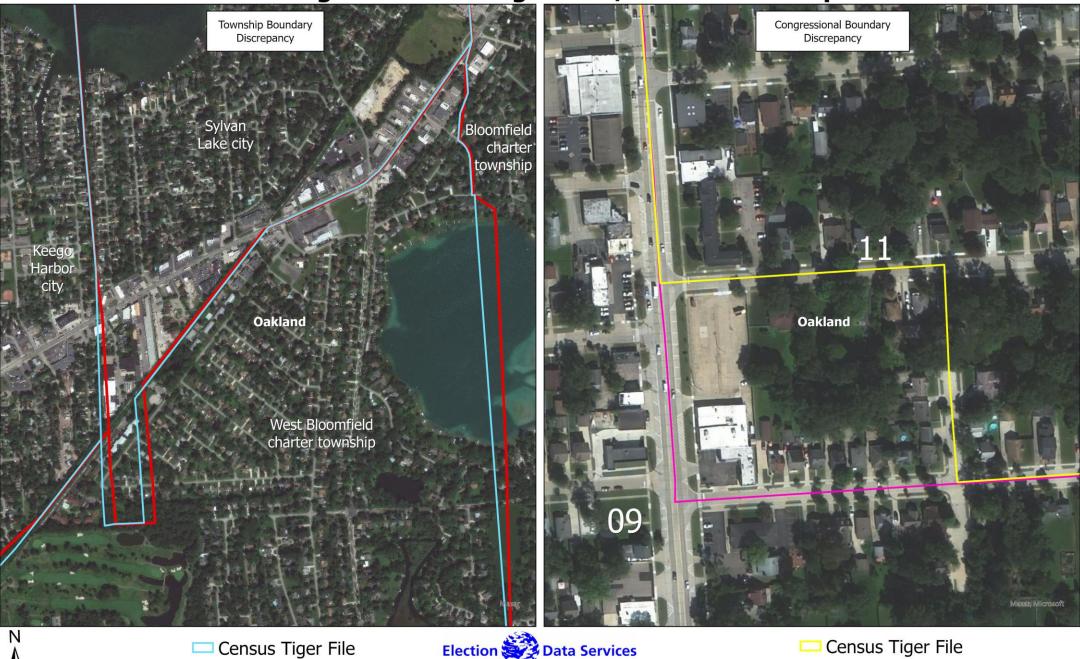
Redistricting Data Cube First Quadrant



Source of data

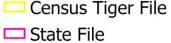
© Election Data Services, Inc.

State of Michigan - Census Tiger File / State GIS Comparisons

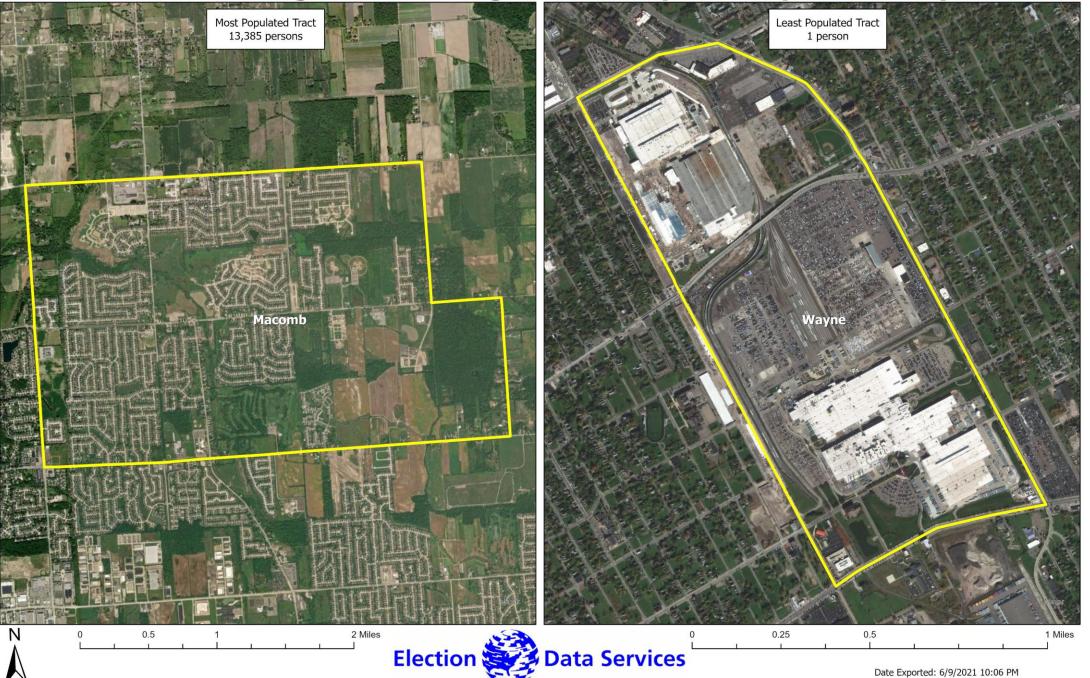








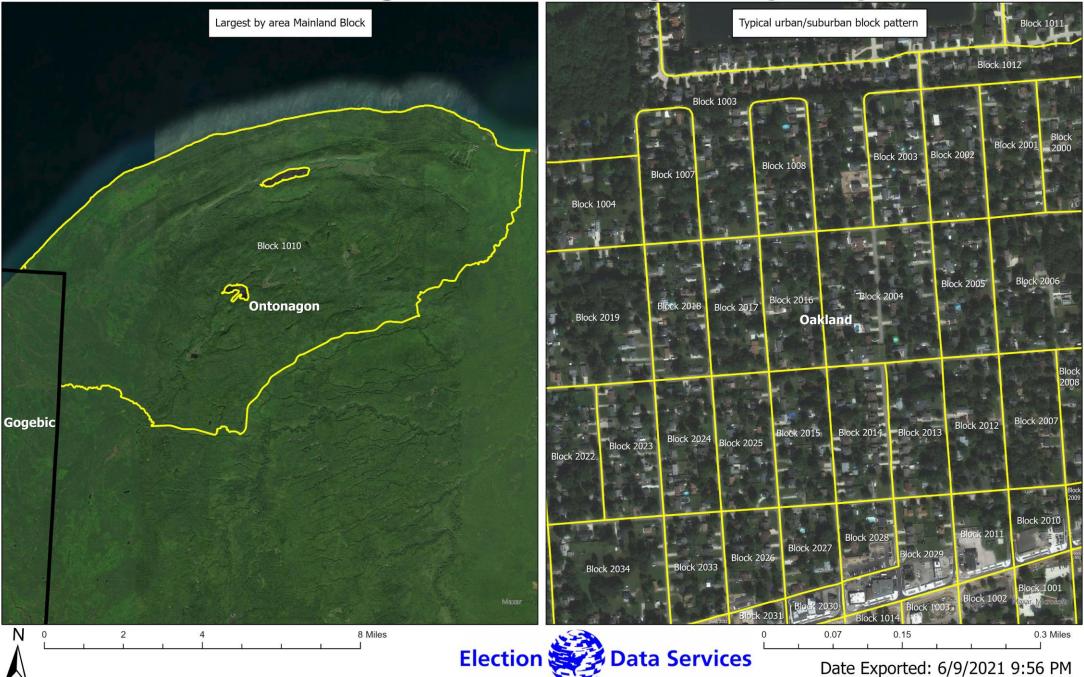
State of Michigan - Census Tiger Files Comparisons (2010 Tracts)



State of Michigan - Census Tiger Files Comparisons (2010 Blockgroups)



State of Michigan - 2020 Census Tiger Files (Blocks)

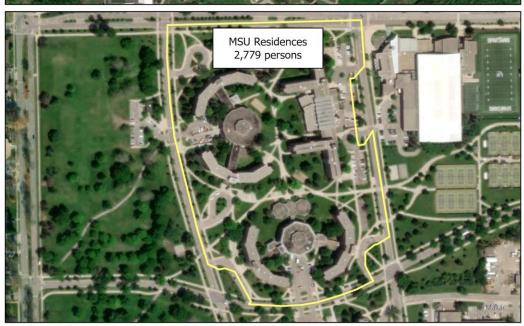


State of Michigan - Census Tiger Files - 4 largest populated blocks (2010)



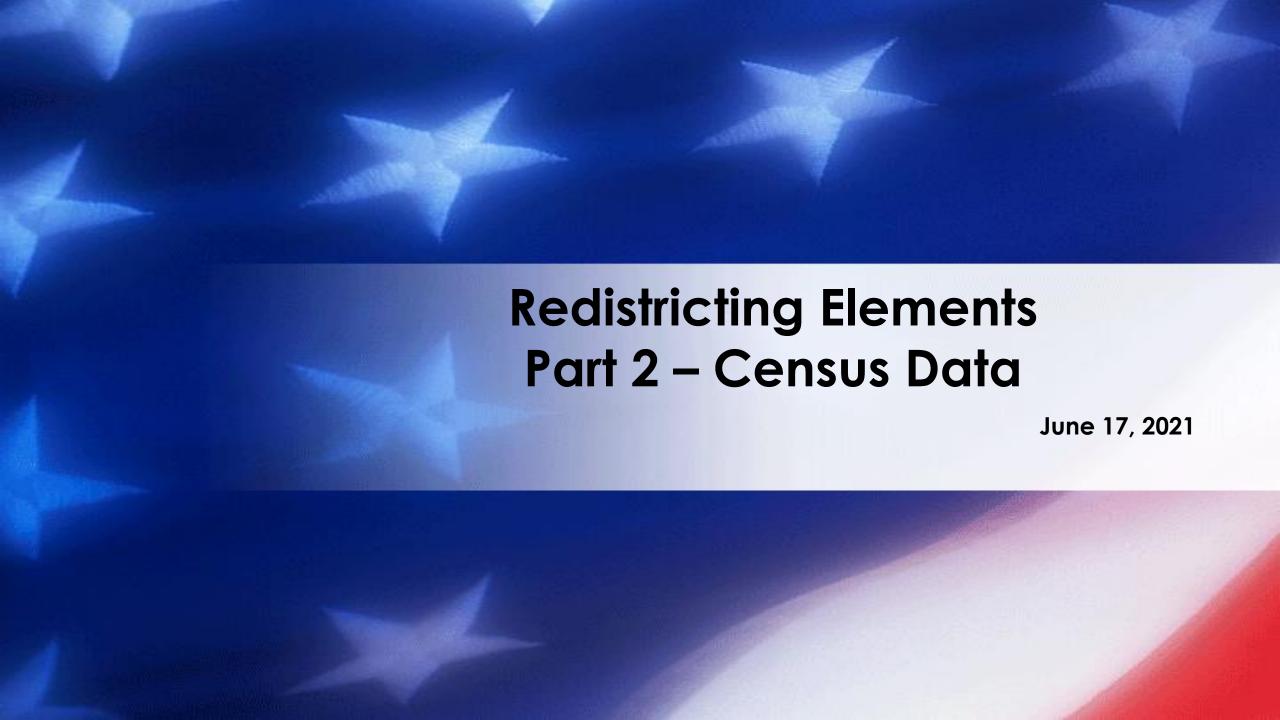








Questions about Geography?



Redistricting Data Cube Second Quadrant

2000 ? 2010 2020

Type of Data

TIGER/Line® Files (Now Yearly Release)

Other Boundaries

Redistricting
Summary
(PL 94-171)
& ACS Files
Other Demographic Files?

Census

Political

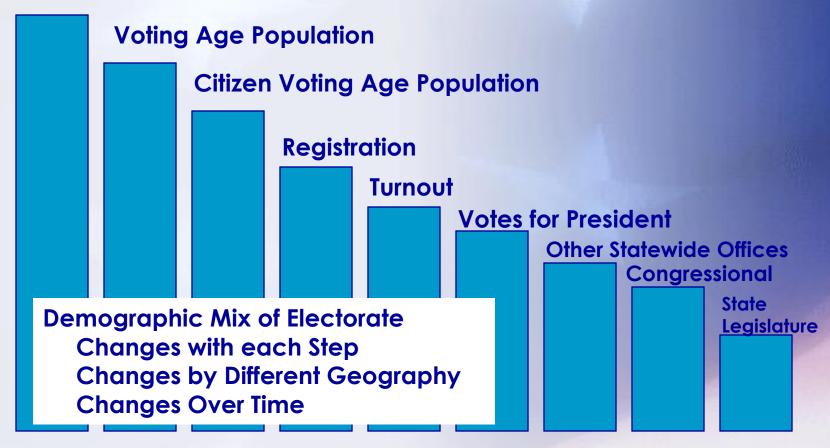
Stepping
Stones
Need to be
Reflected
In your
Database

Source of data

© Election Data Services, Inc.

The Election Process – From a data element prospective

Total Population



Stepping Stones of the Election Process Play Important Part of Redistricting

Today's Major Discussions

- Total Population
- Voting Age Population
- Distribution of Michigan's Population
- Racial Compilation of Population

Michigan's 2020 Census numbers announced to date

10,084,442 Apportionment Count
 Means lost Congressional
 District (14 to 13) by 208,960 people

7,111 Overseas Population

• 10,077,331 Residence Population
Used for Redistricting

3 Numbers to Memorize

Ideal District Size for:

775,179 13 Congressional Districts

265,193 38 State Senate Districts

91,612 110 State House Districts

Ideal District Windows - With 2020 Residential Population

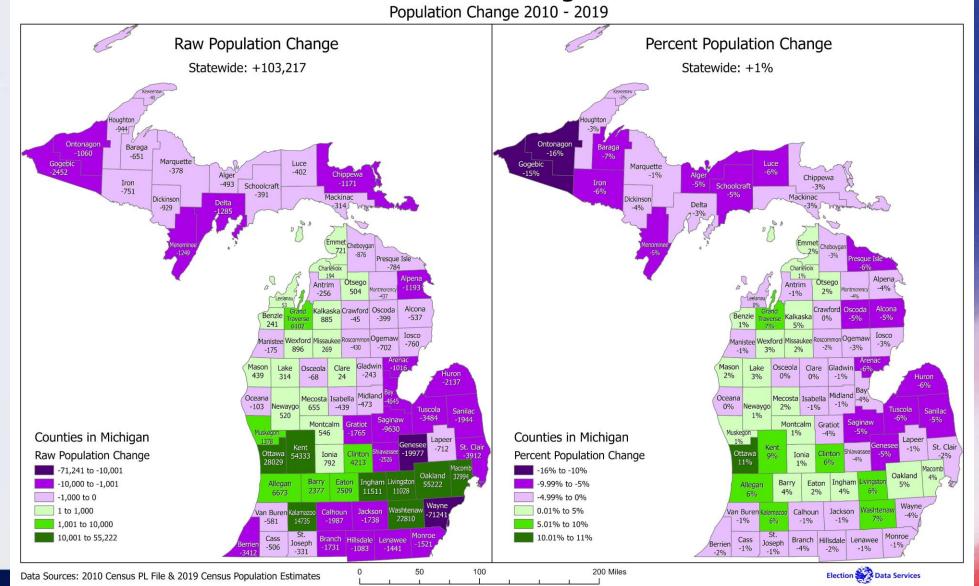
	Congressional	State Senate	State House
Number of Members	13	38	110
Ideal District Size	775,179	265,193	91,612
Acceptable Deviation	1.0%	10.0%	10.0%
Overall Deviation Window	7,752	26,519	9,161
One-sided Deviation Window	3,876	13,260	4,581
High Range (Raw Numbers)	779,055	278,453	96,193
High Range (Percentages)	0.5%	5.0%	5.0%
Low Range (Raw Numbers)	771,303	251,933	87,031
Low Range (Percentages)	-0.5%	-5.0%	-5.0%
Statewide Population	10,077,331	10,077,3311	0,077,331

Michigan Population Distribution

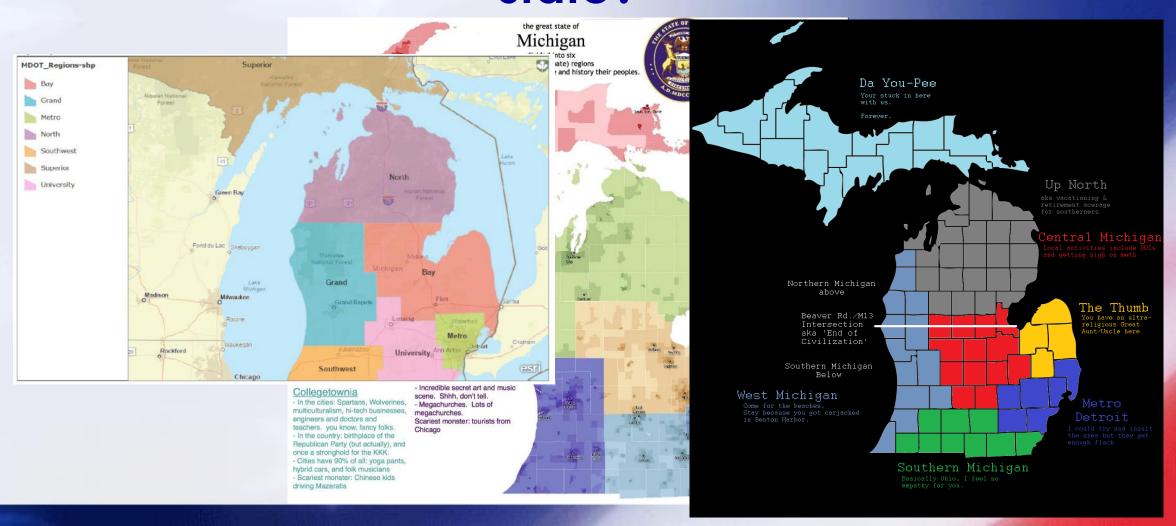
Since PL files not available yet, Population Estimates give Preliminary Information

Population Shifts Within Michigan

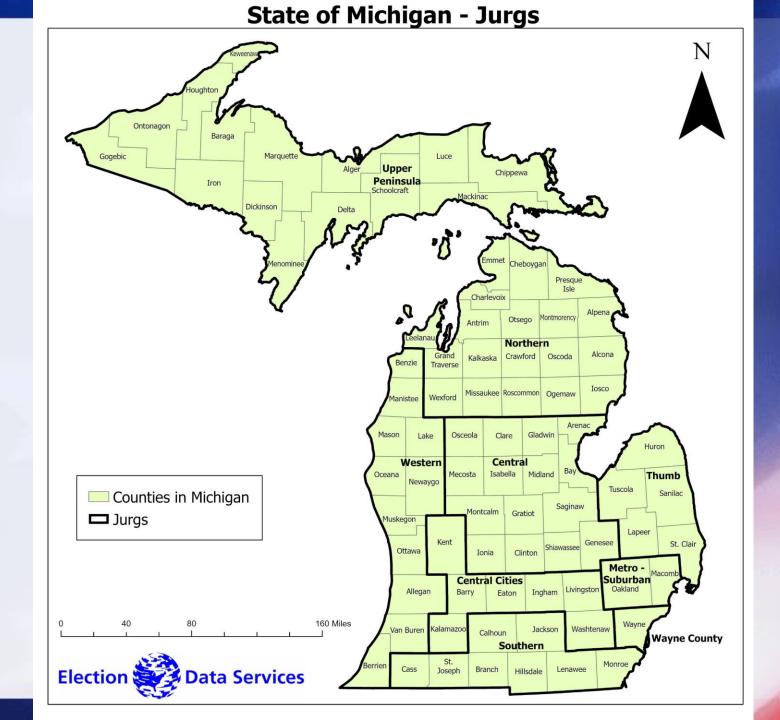
State of Michigan



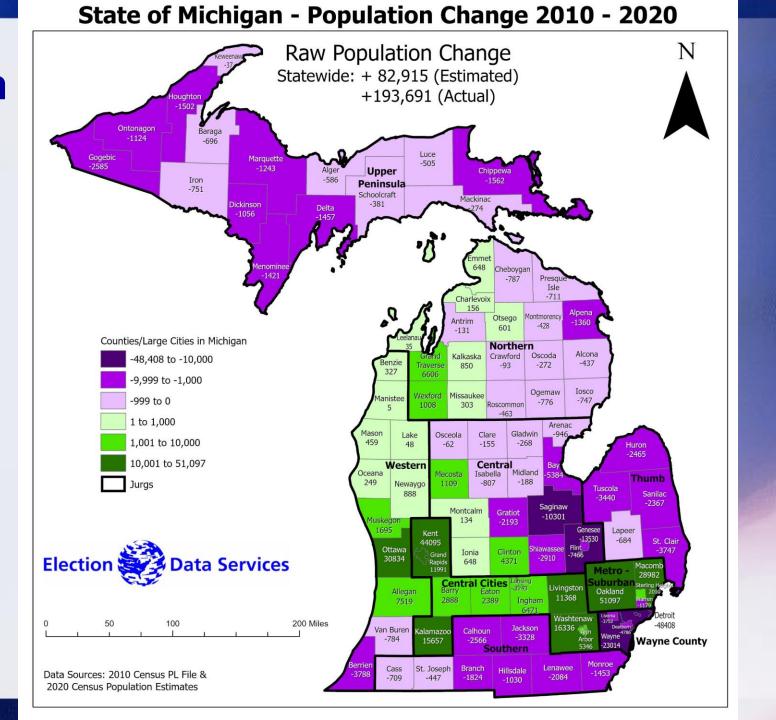
Regionally, How can we look at the state?



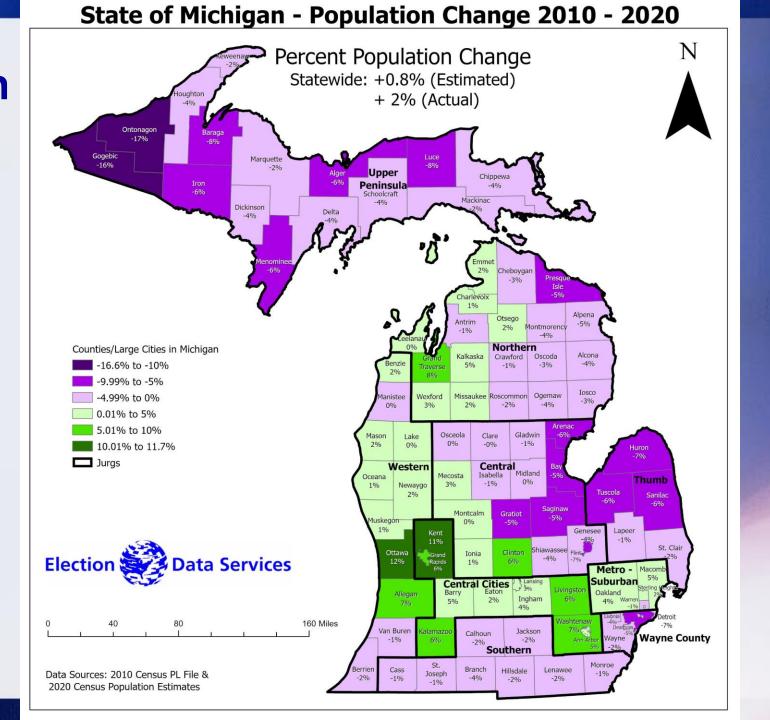
EDS Regions



Population Shifts Within Michigan



Population
Shifts
Within
Michigan



Population Shifts within Michigan Regions

Michigan Population Analysis

County Summary

Annual Unmodified Estimates of the Resident Population: April 1, 2010 to July 1, 2020

										2000 t	o 2010	2010 t	o 2020
		2000	2010	2015	2016	2017	2018	2019	2020	Total	Percent	Total	Percent
Jurg Areas	Jurg	TOT Pop	TOT Pop	EST Pop	EST Pop	Change	Change	Change	Change				
Wayne County	1	2,061,180	1,820,584	1,764,866	1,760,835	1,757,874	1,755,868	1,750,093	1,740,623	-240,596	-11.67%	-79,961	-4.39%
Metro Suburban	2	1,982,466	2,043,340	2,109,926	2,119,892	2,127,345	2,129,561	2,130,115	2,124,250	467,188	16.87%	80,910	3.96%
Central Cities	3	1,732,690	1,826,538	1,903,315	1,920,002	1,934,581	1,942,709	1,945,657	1,946,322	69,977	10.57%	119,784	6.56%
Central-Mid	4	1,342,502	1,342,266	1,314,827	1,312,218	1,311,369	1,308,823	1,307,155	1,304,318	-236	-0.02%	-37,948	-2.83%
Southern MI	5	747,144	753,831	743,281	741,888	742,227	742,552	742,759	740,390	6,687	0.90%	-13,441	-1.78%
West Coast	6	907,740	938,000	954,267	958,601	964,012	968,449	970,977	975,452	-327,234	4.27%	37,452	3.99%
Thumb	7	391,051	383,320	375,080	373,873	372,726	372,291	371,626	370,617	-724,445	-2.03%	-12,703	-3.31%
Up North	8	456,450	464,400	463,482	463,958	464,609	466,353	467,577	468,402	7,950	1.74%	4,002	0.86%
Upper Peninsula	9	317,600	311,361	305,439	302,850	302,009	300,680	298,836	296,181	-6,239	-1.96%	-15,180	-4.88%

Population Shifts within Michigan Regions Impact on Redistricting – State House Districts

Michigan Legislative Seat Distribution - State House of Representatives

With 2020 Estimated Population Reported by Census Bureau (modified)

Decennial Census count of the Resident Population: April 1, 2010 to April 1, 2020

Statewide count released April 26, 2021. County populations are 2020 Census Estimates increased 1.11% to match statewide residential total

Type of Districts: House

Number of Districts: 110

Ideal District size: 91,612

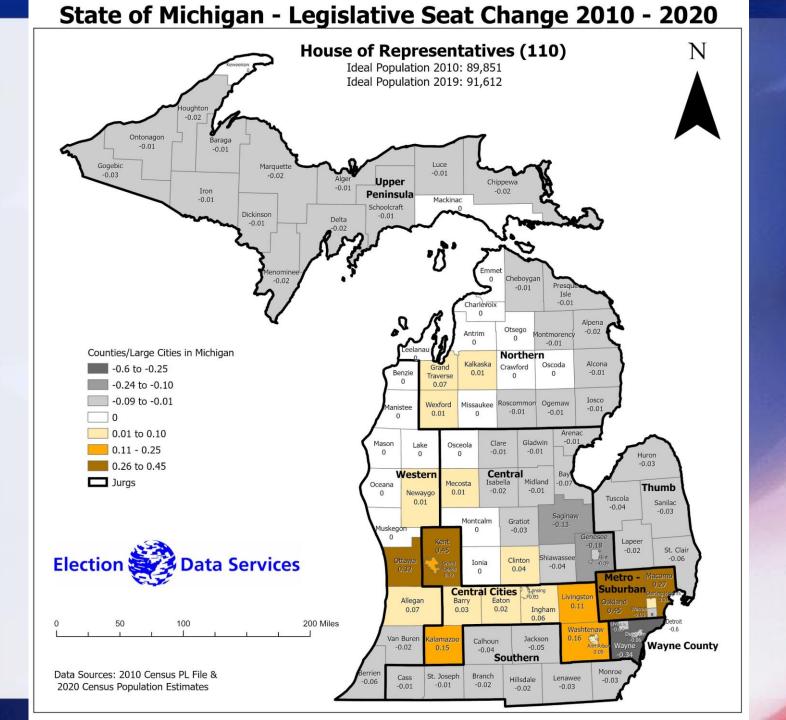
Acceptable Window - Low: 87,031

Acceptable Window - High: 96,193

		2020	Seat Distribution		2010	2000	Difference	Difference	
Jurg Areas	Jurg	Calculated Pop	Low	Ideal	High	Ideal	Ideal	2000 to 2010	2010 to 2020
Wayne County	1	1,759,970	20.17	19.21	18.25	20.26	22.81	-2.55	-1.05
Metro Suburban	2	2,147,861	24.62	23.45	22.27	22.74	21.94	0.80	0.70
Central Cities	3	1,967,955	22.56	21.48	20.41	20.33	19.18	1.15	1.15
Central-Mid	4	1,318,815	15.12	14.40	13.68	14.94	14.86	0.08	-0.54
Southern MI	5	748,619	8.58	8.17	7.76	8.39	8.27	0.12	-0.22
West Coast	6	986,294	11.30	10.77	10.23	10.44	10.05	0.39	0.33
Thumb	7	374,736	4.29	4.09	3.89	4.27	4.33	-0.06	-0.18
Up North	8	473,608	5.43	5.17	4.91	5.17	5.05	0.12	0.00
Upper Peninsula	9	299,473	3.43	3.27	3.11	3.47	3.52	-0.05	-0.20

Population Shifts Within Michigan

Impact on Seat Allocation



Population Shifts within Michigan Regions Impact on Redistricting – State Senate Districts

Michigan Legislative Seat Distribution - State Senate

With 2020 Estimated Population Reported by Census Bureau (modified)

Decennial Census count of the Resident Population: April 1, 2010 to April 1, 2020

Statewide count released April 26, 2021. County populations are 2020 Census Estimates increased 1.11% to match statewide residential total

Type of Districts: Senate

Number of Districts: 38

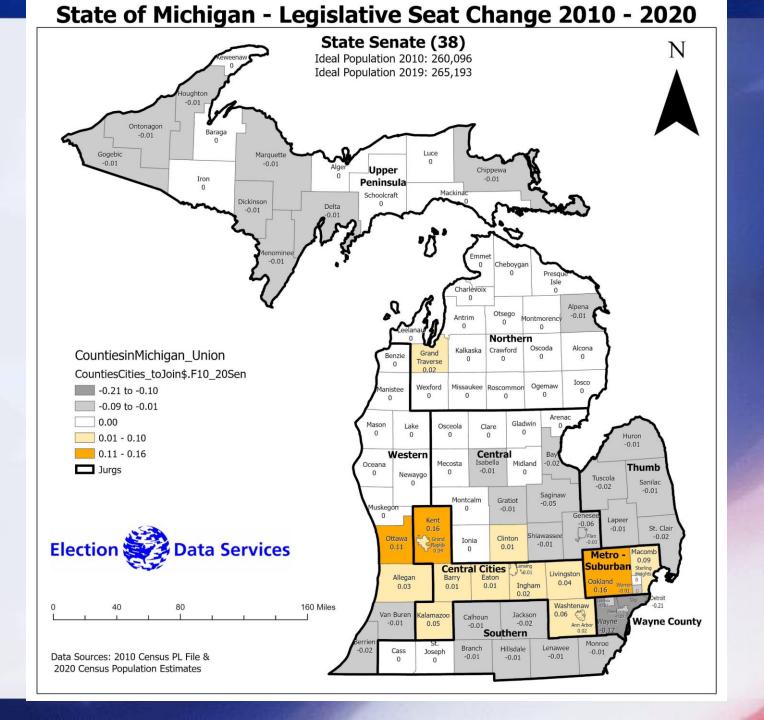
Ideal District size: 265,193

Acceptable Window - Low: 251,933 Acceptable Window - High: 278,453

		2020	Seat Distribution		2010	2000	Difference	Difference	
Jurg Areas	Jurg	Calculated Pop	Low	Ideal	High	Ideal	Ideal	2000 to 2010	2010 to 2020
Wayne County	1	1,759,970	6.99	6.64	6.32	7.00	7.88	-0.88	-0.36
Metro Suburban	2	2,147,861	8.53	8.10	7.71	7.86	7.58	0.28	0.24
Central Cities	3	1,967,955	7.81	7.42	7.07	7.02	6.62	0.40	0.40
Central-Mid	4	1,318,815	5.23	4.97	4.74	5.16	5.13	0.03	-0.19
Southern MI	5	748,619	2.97	2.82	2.69	2.90	2.86	0.04	-0.08
West Coast	6	986,294	3.91	3.72	3.54	3.61	3.47	0.14	0.11
Thumb	7	374,736	1.49	1.41	1.35	1.47	1.50	-0.02	-0.06
Up North	8	473,608	1.88	1.79	1.70	1.79	1.75	0.04	0.00
Upper Peninsula	9	299,473	1.19	1.13	1.08	1.20	1.21	-0.02	-0.07

Population Shifts Within Michigan

Impact on Seat Allocation



Population Shifts within Michigan Regions Impact on Redistricting – US Congressional Districts

Michigan Congressional Seat Distribution - US House (13 Seats)

With 2020 Estimated Population Reported by Census Bureau (modified)

Decennial Census count of the Resident Population: April 1, 2010 to April 1, 2020

Statewide count released April 26, 2021. County populations are 2020 Census Estimates increased 1.11% to match statewide residential total

Type of Districts: Congress

Number of Districts: 13

Ideal District size: 775,179

Acceptable Window - Low: 736,420

Acceptable Window - High: 813,938

				13 seats		14 seats	15 seats		
		2020	Se	Seat Distributio		2010	2000	Difference	Difference
Jurg Areas	Jurg	Calculated Pop	Low	Ideal	High	Ideal	Ideal	2000 to 2010	2010 to 2020
Wayne County	1	1,759,970	2.39	2.27	2.16	2.58	3.11	-0.53	-0.31
Metro Suburban	2	2,147,861	2.92	2.77	2.64	2.89	2.99	-0.10	-0.12
Central Cities	3	1,967,955	2.67	2.54	2.42	2.59	2.62	-0.03	-0.05
Central-Mid	4	1,318,815	1.79	1.70	1.62	1.90	2.03	-0.12	-0.20
Southern MI	5	748,619	1.02	0.97	0.92	1.07	1.13	-0.06	-0.10
West Coast	6	986,294	1.34	1.27	1.21	1.33	1.37	-0.04	-0.06
Thumb	7	374,736	0.51	0.48	0.46	0.54	0.59	-0.05	-0.06
Up North	8	473,608	0.64	0.61	0.58	0.66	0.69	-0.03	-0.05
Upper Peninsula	9	299,473	0.41	0.39	0.37	0.44	0.48	-0.04	-0.05

Michigan Population Distribution

Flip to Excel Tables

Files will be sent to Commission For Commission's website

Questions So far?

Thank you



Rimball Brace
President
Election Data Services, Inc.
6171 Emerywood Court
Manassas, VA 20112

(703-580-7267 or 202-789-2004)

KBrace@electiondataservices.com or KBrace@aol.com

www.electiondataservices.com