

User:

Plan Name: MI Max Competitiveness

Plan Type: Max Competitiveness

# Measures of Compactness Report

Monday, January 17, 2022

12:55 PM

Number of cut edges: 6,174

	Reock	Schwartzberg	Alternate Schwartzberg	Polsby-Popper	Population Polygon	Area/Convex Hull	Population Circle	Ehrenburg	Perimeter	Length-Width
Sum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,581.62	N/A
Min	0.36	1.30	1.37	0.19	0.39	0.64	0.27	0.19	N/A	0.40
Max	0.53	2.27	2.30	0.54	0.90	0.89	0.52	0.59	N/A	34.41
Mean	0.43	1.75	1.80	0.33	0.68	0.74	0.42	0.39	N/A	20.41
Std. Dev.	0.05	0.26	0.27	0.10	0.12	0.08	0.08	0.12	N/A	12.14

District	Reock	Schwartzberg	Alternate Schwartzberg	Polsby-Popper	Population Polygon	Area/Convex Hull	Population Circle	Ehrenburg	Perimeter	Length-Width
1	0.36	1.71	1.81	0.31	0.90	0.73	0.52	0.45	92.30	0.40
2	0.36	2.27	2.30	0.19	0.63	0.64	0.39	0.19	125.50	10.90
3	0.39	1.82	1.96	0.26	0.67	0.66	0.52	0.34	1,554.63	25.06
4	0.40	1.84	1.87	0.29	0.73	0.65	0.52	0.45	687.66	34.41
5	0.44	1.76	1.80	0.31	0.39	0.74	0.27	0.53	475.01	33.64
6	0.48	1.90	1.94	0.27	0.64	0.69	0.41	0.28	248.29	7.99
7	0.44	1.73	1.73	0.33	0.75	0.75	0.40	0.30	552.02	29.77
8	0.40	1.85	1.86	0.29	0.52	0.69	0.31	0.30	433.75	17.45
9	0.52	1.30	1.37	0.54	0.65	0.86	0.45	0.56	383.01	14.41
10	0.43	1.52	1.53	0.43	0.74	0.81	0.39	0.44	353.60	25.63
11	0.39	1.60	1.64	0.37	0.72	0.79	0.36	0.31	225.93	31.43

Number of cut edges: 6,174

	<b>Reock</b>	<b>Schwartzberg</b>	<b>Alternate Schwartzberg</b>	<b>Polsby-Popper</b>	<b>Population Polygon</b>	<b>Area/Convex Hull</b>	<b>Population Circle</b>	<b>Ehrenburg</b>	<b>Perimeter</b>	<b>Length-Width</b>
Sum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5,581.62	N/A
Min	0.36	1.30	1.37	0.19	0.39	0.64	0.27	0.19	N/A	0.40
Max	0.53	2.27	2.30	0.54	0.90	0.89	0.52	0.59	N/A	34.41
Mean	0.43	1.75	1.80	0.33	0.68	0.74	0.42	0.39	N/A	20.41
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<b>District</b>	<b>Reock</b>	<b>Schwartzberg</b>	<b>Alternate Schwartzberg</b>	<b>Polsby-Popper</b>	<b>Population Polygon</b>	<b>Area/Convex Hull</b>	<b>Population Circle</b>	<b>Ehrenburg</b>	<b>Perimeter</b>	<b>Length-Width</b>
12	0.53	1.38	1.41	0.50	0.74	0.89	0.46	0.59	290.49	31.73
13	0.44	2.08	2.12	0.22	0.71	0.76	0.40	0.30	159.43	2.48

## Measures of Compactness Summary

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<b>Reock</b>	The measure is always between 0 and 1, with 1 being the most compact.
<b>Schwartzberg</b>	The measure is usually greater than or equal to 1, with 1 being the most compact.
<b>Alternate Schwartzberg</b>	This measure is always greater than or equal to 1, with 1 being the most compact.
<b>Polsby-Popper</b>	The measure is always between 0 and 1, with 1 being the most compact.
<b>Population Polygon</b>	The measure is always between 0 and 1, with 1 being the most compact.
<b>Area / Convex Hull</b>	The measure is always between 0 and 1, with 1 being the most compact.
<b>Population Circle</b>	The measure is always between 0 and 1, with 1 being the most compact.
<b>Ehrenburg</b>	The measure is always between 0 and 1, with 1 being the most compact.
<b>Perimeter</b>	The Perimeter test computes one number for the whole plan. If you are comparing several plans, the plan with the smallest total perimeter is the most compact.
<b>Length-Width</b>	A lower number indicates better length-width compactness.
<b>Cut Edges</b>	A smaller number implies a more compact plan. The measure should only be used to compare plans defined on the same base layer.