

User:

Plan Name: IN Sept Least Change

Plan Type: Congress

# Measures of Compactness Report

Tuesday, October 19, 2021

7:11 PM

Number of cut edges: 2,944

	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	3,291.13	N/A
Min	0.34	1.36	1.38	0.20	0.65	0.69	0.28	0.32	N/A	0.60
Max	0.64	1.83	2.22	0.52	0.94	0.89	0.88	0.72	N/A	70.47
Mean	0.48	1.59	1.68	0.37	0.82	0.82	0.58	0.47	N/A	30.18
Std. Dev.	0.09	0.16	0.25	0.10	0.11	0.06	0.20	0.13	N/A	25.33

District	Reock	Schwartzberg	Alternate Schwartzberg	Polsby-Popper	Population Polygon	Area/Convex Hull	Population Circle	Ehrenburg	Perimeter	Length-Width
1	0.45	1.36	1.38	0.52	0.94	0.85	0.88	0.65	198.02	3.48
2	0.59	1.49	1.55	0.42	0.89	0.86	0.68	0.44	366.96	12.33
3	0.44	1.46	1.47	0.46	0.94	0.88	0.70	0.40	335.91	42.36
4	0.46	1.73	1.80	0.31	0.67	0.79	0.36	0.35	466.41	34.44
5	0.45	1.67	1.69	0.35	0.78	0.80	0.48	0.45	270.65	6.39
6	0.49	1.47	1.52	0.43	0.65	0.85	0.28	0.46	426.64	54.18
7	0.64	1.59	1.66	0.36	0.92	0.89	0.76	0.72	97.65	0.60
8	0.34	1.83	2.22	0.20	0.76	0.69	0.44	0.32	695.45	70.47
9	0.42	1.72	1.83	0.30	0.84	0.77	0.64	0.41	433.44	47.39

## 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.