

# Measures of Compactness Report

Wednesday, October 6, 2021

10:54 PM

Number of cut edges: 6,996

	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	4,904.00	N/A
Min	0.24	1.19	1.28	0.06	0.47	0.57	0.19	0.24	N/A	0.73
Max	0.60	3.84	4.12	0.61	0.97	0.96	0.76	0.52	N/A	58.72
Mean	0.41	1.99	2.07	0.31	0.70	0.76	0.42	0.39	N/A	23.53
Std. Dev.	0.11	0.74	0.81	0.15	0.16	0.10	0.19	0.09	N/A	17.55

District	Reock	Schwartzberg	Alternate Schwartzberg	Polsby-Popper	Population Polygon	Area/Convex Hull	Population Circle	Ehrenburg	Perimeter	Length-Width
01	0.45	1.46	1.53	0.42	0.97	0.85	0.76	0.45	107.17	9.18
02	0.49	1.62	1.68	0.35	0.62	0.77	0.43	0.41	186.75	8.09
03	0.53	3.84	4.12	0.06	0.74	0.67	0.63	0.28	220.40	0.73
04	0.60	1.54	1.59	0.40	0.57	0.82	0.24	0.49	419.75	19.43
05	0.26	2.05	2.17	0.21	0.64	0.64	0.20	0.31	677.04	8.47
06	0.45	3.28	3.43	0.08	0.47	0.70	0.44	0.24	384.84	2.38
07	0.41	1.40	1.41	0.50	0.89	0.87	0.60	0.51	247.19	38.21
08	0.34	1.64	1.66	0.36	0.94	0.76	0.66	0.30	351.50	58.72
09	0.45	1.67	1.68	0.35	0.61	0.80	0.19	0.47	515.87	29.65
10	0.34	1.77	1.79	0.31	0.60	0.73	0.19	0.29	449.89	15.14
11	0.24	2.81	2.95	0.12	0.64	0.57	0.42	0.38	191.44	22.47

# Measures of Compactness Report

10-1-21

Number of cut edges: 6,996

	<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	4,904.00	N/A
Min	0.24	1.19	1.28	0.06	0.47	0.57	0.19	0.24	N/A	0.73
Max	0.60	3.84	4.12	0.61	0.97	0.96	0.76	0.52	N/A	58.72
Mean	0.41	1.99	2.07	0.31	0.70	0.76	0.42	0.39	N/A	23.53
Std. Dev.	0.11	0.74	0.81	0.15	0.16	0.10	0.19	0.09	N/A	17.55

  

<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	0.26	1.82	1.86	0.29	0.52	0.75	0.29	0.35	244.65	47.16
13	0.40	1.76	1.78	0.32	0.61	0.74	0.22	0.36	389.14	39.68
14	0.45	2.07	2.16	0.21	0.77	0.75	0.60	0.50	239.29	15.55
15	0.50	1.19	1.28	0.61	0.86	0.96	0.36	0.52	279.08	38.07

## 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.