User: Dakota

Plan Name: SC 1 Strong Opportunity w\_compactness

Plan Type: Good gov

## **Measures of Compactness Report**

Monday, November 1, 2021

Number of cut edges: 3,216

	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	3,462.97	N/A
Min	0.34	1.46	1.62	0.14	0.43	0.67	0.30	0.23	N/A	1.53
Max	0.50	2.31	2.65	0.38	0.91	0.82	0.76	0.47	N/A	37.30
Mean	0.42	1.79	2.05	0.26	0.75	0.77	0.52	0.36	N/A	19.36
Std. Dev.	0.06	0.28	0.36	0.08	0.16	0.06	0.20	0.09	N/A	11.94
District	Reock	Schwartzberg	Alternate Schwartzberg	Polsby- Popper	Population Polygon	Area/Convex Hull	Population Circle	Ehrenburg	Perimeter	Length-Width
1	0.40	1.52	1.62	0.38	0.91	0.80	0.75	0.41	275.60	37.30
2	0.34	1.83	2.32	0.19	0.71	0.77	0.36	0.47	617.60	27.26
3	0.40	1.70	1.80	0.31	0.72	0.82	0.33	0.38	459.51	20.47
4	0.36	1.89	2.15	0.22	0.88	0.70	0.64	0.23	461.28	1.53
5	0.45	1.46	1.78	0.32	0.86	0.81	0.76	0.31	274.78	17.43
6	0.46	1.83	2.06	0.24	0.73	0.81	0.49	0.44	504.44	23.58
7	0.50	2.31	2.65	0.14	0.43	0.67	0.30	0.30	869.76	7.96

## Measures of Compactness Summary

**Reock** The measure is always between 0 and 1, with 1 being the most compact.

**Schwartzberg** The measure is usually greater than or equal to 1, with 1 being the most compact. **Alternate Schwartzberg** This measure is always greater than or equal to 1, with 1 being the most compact.

Polsby-PopperThe measure is always between 0 and 1, with 1 being the most compact.Population PolygonThe measure is always between 0 and 1, with 1 being the most compact.Area / Convex HullThe measure is always between 0 and 1, with 1 being the most compact.Population CircleThe measure is always between 0 and 1, with 1 being the most compact.EhrenburgThe measure is always between 0 and 1, with 1 being the most compact.

**Perimeter** 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.

**Length-Width** A lower number indicates better length-width compactness.

**Cut Edges** A smaller number implies a more compact plan. The measure should only be used to compare plans defined on the same base layer.