

User:

Plan Name: **Utah Good Governance**

Plan Type: **Congress**

# Measures of Compactness Report

Tuesday, October 12, 2021

5:08 PM

Number of cut edges: 909

	<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	2,901.07	N/A
Min	0.42	1.39	1.47	0.31	0.33	0.76	0.25	0.39	N/A	7.68
Max	0.51	1.59	1.80	0.46	0.98	0.87	0.63	0.57	N/A	74.10
Mean	0.48	1.50	1.62	0.39	0.64	0.82	0.40	0.44	N/A	27.64
Std. Dev.	0.04	0.10	0.16	0.07	0.32	0.05	0.16	0.09	N/A	31.17

<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>
1	0.42	1.39	1.47	0.46	0.98	0.87	0.36	0.39	510.04	74.10
2	0.48	1.44	1.50	0.44	0.33	0.86	0.25	0.40	1,272.41	12.70
3	0.51	1.57	1.71	0.34	0.41	0.79	0.36	0.57	725.00	16.07
4	0.51	1.59	1.80	0.31	0.84	0.76	0.63	0.41	393.62	7.68

## 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.