User:
Plan Name: **AR Competitive**
Plan Type: **Congress**

# Measures of Compactness Report

Tuesday, February 1, 2022 12:24 PM

Number of cut edges: 1,485

| | 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 | 3,151.97 | N/A |
| Min | 0.41 | 1.49 | 1.58 | 0.15 | 0.52 | 0.71 | 0.39 | 0.40 | N/A | 5.76 |
| Max | 0.48 | 2.20 | 2.57 | 0.40 | 0.98 | 0.84 | 0.87 | 0.50 | N/A | 104.33 |
| Mean | 0.44 | 1.80 | 2.00 | 0.27 | 0.77 | 0.80 | 0.59 | 0.45 | N/A | 37.81 |
| Std. Dev. | 0.04 | 0.30 | 0.42 | 0.10 | 0.19 | 0.06 | 0.21 | 0.04 | N/A | 44.89 |

| District | Reock | Schwartzberg | Alternate Schwartzberg | Polsby-Popper | Population Polygon | Area/Convex Hull | Population Circle | Ehrenburg | Perimeter | Length-Width |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.46 | 1.79 | 2.01 | 0.25 | 0.77 | 0.84 | 0.48 | 0.44 | 925.83 | 104.33 |
| 2 | 0.41 | 2.20 | 2.57 | 0.15 | 0.79 | 0.71 | 0.61 | 0.40 | 863.73 | 20.97 |
| 3 | 0.41 | 1.49 | 1.58 | 0.40 | 0.98 | 0.83 | 0.87 | 0.50 | 363.93 | 20.19 |
| 4 | 0.48 | 1.71 | 1.85 | 0.29 | 0.52 | 0.82 | 0.39 | 0.46 | 998.48 | 5.76 |

# Measures of Compactness Report

## 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-Popper** | The measure is always between 0 and 1, with 1 being the most compact. |
| **Population Polygon** | The measure is always between 0 and 1, with 1 being the most compact. |
| **Area / Convex Hull** | The measure is always between 0 and 1, with 1 being the most compact. |
| **Population Circle** | The measure is always between 0 and 1, with 1 being the most compact. |
| **Ehrenburg** | The 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. |