

# APPENDIX H

## Measures of Compactness Report - Senate\*

	<b>Reock</b>	<b>Polsby-Popper</b>	<b>Area/Convex Hull</b>	<b>Population Polygon</b>	<b>Population Circle</b>
Mean	0.43	0.40	0.79	0.77	0.44
Min	0.24	0.20	0.62	0.33	0.06
Max	0.63	0.65	0.93	0.97	0.84
Std. Dev.	0.09	0.11	0.08	0.16	0.16
Sum					

<b>District</b>	<b>Reock</b>	<b>Polsby-Popper</b>	<b>Area/Convex Hull</b>	<b>Population Polygon</b>	<b>Population Circle</b>
01	0.48	0.31	0.84	0.95	0.72
02	0.35	0.29	0.73	0.80	0.42
03	0.34	0.23	0.71	0.33	0.28
04	0.51	0.33	0.83	0.97	0.84
05	0.44	0.40	0.72	0.72	0.32
06	0.33	0.34	0.70	0.87	0.65
07	0.46	0.37	0.80	0.78	0.30
08	0.30	0.25	0.70	0.84	0.75
09	0.46	0.42	0.82	0.83	0.43
10	0.49	0.43	0.83	0.58	0.27
11	0.41	0.46	0.81	0.93	0.57
12	0.38	0.38	0.74	0.79	0.40
13	0.55	0.29	0.76	0.48	0.45
14	0.39	0.24	0.72	0.77	0.62
15	0.25	0.26	0.81	0.85	0.23
16	0.45	0.36	0.82	0.86	0.53

\*This report was generated in Maptitude for Redistricting (Version 2021 Build 4960). A key explaining each measure is at the end of the report.

## Measures of Compactness Report

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District	Reock	Polsby-Popper	Area/Convex Hull	Population Polygon	Population Circle
17	0.50	0.32	0.78	0.58	0.32
18	0.27	0.23	0.86	0.84	0.61
19	0.38	0.50	0.85	0.94	0.51
20	0.42	0.34	0.81	0.38	0.31
21	0.46	0.50	0.81	0.74	0.54
22	0.28	0.22	0.68	0.42	0.24
23	0.42	0.52	0.89	0.93	0.51
24	0.54	0.52	0.90	0.55	0.45
25	0.48	0.44	0.77	0.84	0.72
26	0.50	0.52	0.84	0.82	0.66
27	0.37	0.35	0.78	0.77	0.28
28	0.42	0.44	0.79	0.87	0.37
29	0.54	0.28	0.75	0.85	0.58
30	0.24	0.20	0.68	0.72	0.16
31	0.39	0.29	0.74	0.77	0.27
32	0.38	0.46	0.78	0.81	0.36
33	0.45	0.31	0.80	0.85	0.43
34	0.24	0.23	0.62	0.46	0.16
35	0.45	0.39	0.79	0.86	0.51
36	0.46	0.45	0.83	0.78	0.46
37	0.42	0.43	0.86	0.64	0.27
38	0.41	0.43	0.76	0.77	0.49
39	0.35	0.34	0.69	0.73	0.35
40	0.44	0.39	0.83	0.75	0.35
41	0.30	0.20	0.68	0.38	0.13
42	0.63	0.59	0.92	0.91	0.70
43	0.55	0.55	0.88	0.89	0.48
44	0.36	0.37	0.70	0.60	0.30
45	0.38	0.46	0.89	0.83	0.30
46	0.56	0.37	0.82	0.86	0.63

## Measures of Compactness Report

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District	Reock	Polsby-Popper	Area/Convex Hull	Population Polygon	Population Circle
47	0.45	0.48	0.85	0.86	0.56
48	0.41	0.41	0.78	0.94	0.50
49	0.56	0.59	0.92	0.93	0.59
50	0.37	0.46	0.85	0.80	0.33
51	0.40	0.50	0.85	0.81	0.36
52	0.40	0.41	0.79	0.83	0.34
53	0.48	0.30	0.72	0.70	0.43
54	0.61	0.55	0.92	0.93	0.62
55	0.54	0.50	0.88	0.94	0.61
56	0.39	0.52	0.87	0.96	0.49
57	0.59	0.58	0.93	0.85	0.48
58	0.37	0.27	0.67	0.34	0.06
59	0.34	0.39	0.73	0.79	0.41
60	0.39	0.44	0.83	0.82	0.38
61	0.38	0.41	0.75	0.61	0.35
62	0.58	0.65	0.91	0.93	0.64
63	0.34	0.31	0.66	0.58	0.29
64	0.50	0.53	0.84	0.88	0.55
65	0.44	0.31	0.73	0.73	0.45
66	0.39	0.37	0.74	0.73	0.38
67	0.39	0.57	0.92	0.95	0.45

## Measures of Compactness Report

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### Measures of Compactness Summary

<b>Reock</b>	The measure is always between 0 and 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>Area / Convex Hull</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>Population Circle</b>	The measure is always between 0 and 1, with 1 being the most compact.

## Measures of Compactness Report - House\*

	<b>Reock</b>	<b>Polsby-Popper</b>	<b>Area/Convex Hull</b>	<b>Population Polygon</b>	<b>Population Circle</b>
Mean	0.43	0.42	0.80	0.77	0.44
Min	0.25	0.19	0.54	0.23	0.12
Max	0.64	0.68	0.98	0.99	0.90
Std. Dev.	0.09	0.12	0.09	0.17	0.16
Sum					

<b>District</b>	<b>Reock</b>	<b>Polsby-Popper</b>	<b>Area/Convex Hull</b>	<b>Population Polygon</b>	<b>Population Circle</b>
01A	0.55	0.39	0.85	0.98	0.90
01B	0.53	0.34	0.80	0.89	0.65
02A	0.31	0.36	0.79	0.79	0.43
02B	0.39	0.27	0.69	0.47	0.26
03A	0.32	0.25	0.70	0.34	0.14
03B	0.40	0.32	0.76	0.32	0.27
04A	0.36	0.19	0.68	0.97	0.90
04B	0.50	0.29	0.81	0.48	0.42
05A	0.42	0.40	0.76	0.83	0.34
05B	0.48	0.49	0.82	0.88	0.39
06A	0.33	0.26	0.65	0.60	0.42
06B	0.29	0.27	0.76	0.93	0.65
07A	0.56	0.37	0.82	0.61	0.54
07B	0.40	0.37	0.75	0.71	0.50
08A	0.33	0.21	0.54	0.83	0.69
08B	0.41	0.34	0.78	0.68	0.52

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## Measures of Compactness Report

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District	Reock	Polsby-Popper	Area/Convex Hull	Population Polygon	Population Circle
09A	0.43	0.33	0.73	0.88	0.68
09B	0.46	0.52	0.87	0.72	0.33
10A	0.38	0.38	0.80	0.50	0.24
10B	0.36	0.43	0.81	0.70	0.15
11A	0.54	0.57	0.89	0.94	0.31
11B	0.47	0.45	0.79	0.90	0.69
12A	0.32	0.36	0.79	0.67	0.20
12B	0.38	0.35	0.64	0.84	0.61
13A	0.43	0.30	0.72	0.55	0.22
13B	0.40	0.39	0.82	0.81	0.38
14A	0.46	0.44	0.80	0.84	0.49
14B	0.39	0.22	0.70	0.51	0.37
15A	0.39	0.39	0.82	0.84	0.61
15B	0.33	0.31	0.87	0.93	0.42
16A	0.34	0.23	0.70	0.48	0.26
16B	0.49	0.61	0.90	0.99	0.77
17A	0.39	0.43	0.79	0.83	0.55
17B	0.33	0.23	0.65	0.43	0.24
18A	0.27	0.25	0.87	0.61	0.32
18B	0.29	0.28	0.70	0.95	0.71
19A	0.25	0.33	0.69	0.68	0.25
19B	0.35	0.51	0.89	0.99	0.53
20A	0.36	0.42	0.80	0.91	0.60
20B	0.43	0.28	0.71	0.23	0.18
21A	0.39	0.38	0.69	0.46	0.36
21B	0.39	0.48	0.82	0.86	0.62
22A	0.48	0.42	0.80	0.70	0.39
22B	0.38	0.24	0.70	0.31	0.23
23A	0.41	0.51	0.86	0.89	0.30
23B	0.56	0.55	0.87	0.92	0.76

## Measures of Compactness Report

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District	Reock	Polsby-Popper	Area/Convex Hull	Population Polygon	Population Circle
24A	0.51	0.57	0.91	0.47	0.23
24B	0.41	0.28	0.74	0.64	0.40
25A	0.43	0.36	0.75	0.62	0.36
25B	0.50	0.50	0.84	0.87	0.64
26A	0.39	0.50	0.88	0.98	0.75
26B	0.39	0.58	0.98	0.97	0.33
27A	0.41	0.48	0.88	0.92	0.40
27B	0.39	0.41	0.82	0.90	0.40
28A	0.56	0.47	0.79	0.84	0.54
28B	0.54	0.57	0.89	0.90	0.70
29A	0.39	0.23	0.62	0.54	0.34
29B	0.56	0.46	0.81	0.93	0.64
30A	0.35	0.21	0.67	0.78	0.41
30B	0.48	0.42	0.81	0.79	0.48
31A	0.46	0.46	0.89	0.85	0.46
31B	0.60	0.36	0.79	0.80	0.57
32A	0.38	0.47	0.80	0.71	0.31
32B	0.50	0.57	0.90	0.83	0.40
33A	0.31	0.33	0.78	0.80	0.27
33B	0.28	0.25	0.67	0.74	0.21
34A	0.33	0.42	0.88	0.85	0.24
34B	0.34	0.25	0.60	0.52	0.27
35A	0.31	0.35	0.78	0.79	0.35
35B	0.37	0.39	0.82	0.85	0.37
36A	0.56	0.48	0.82	0.70	0.48
36B	0.55	0.54	0.89	0.92	0.62
37A	0.53	0.54	0.90	0.66	0.31
37B	0.49	0.54	0.87	0.87	0.49
38A	0.53	0.55	0.86	0.89	0.65
38B	0.59	0.56	0.85	0.83	0.57

## Measures of Compactness Report

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District	Reock	Polsby-Popper	Area/Convex Hull	Population Polygon	Population Circle
39A	0.39	0.42	0.79	0.77	0.33
39B	0.45	0.32	0.65	0.69	0.54
40A	0.51	0.39	0.80	0.74	0.45
40B	0.42	0.38	0.68	0.68	0.40
41A	0.36	0.21	0.64	0.27	0.12
41B	0.48	0.30	0.72	0.68	0.54
42A	0.34	0.41	0.73	0.68	0.35
42B	0.56	0.68	0.95	0.98	0.54
43A	0.53	0.59	0.92	0.92	0.55
43B	0.45	0.42	0.79	0.72	0.35
44A	0.48	0.54	0.89	0.85	0.36
44B	0.40	0.39	0.77	0.85	0.53
45A	0.48	0.50	0.88	0.90	0.52
45B	0.51	0.38	0.83	0.84	0.45
46A	0.42	0.42	0.81	0.88	0.53
46B	0.50	0.39	0.76	0.75	0.51
47A	0.46	0.40	0.76	0.72	0.41
47B	0.42	0.46	0.86	0.78	0.44
48A	0.46	0.35	0.72	0.77	0.54
48B	0.60	0.48	0.85	0.81	0.50
49A	0.58	0.62	0.90	0.86	0.56
49B	0.43	0.49	0.80	0.86	0.47
50A	0.41	0.36	0.71	0.67	0.38
50B	0.64	0.58	0.90	0.92	0.68
51A	0.37	0.51	0.90	0.84	0.30
51B	0.35	0.54	0.89	0.89	0.33
52A	0.33	0.33	0.68	0.68	0.32
52B	0.39	0.37	0.74	0.71	0.44
53A	0.33	0.32	0.68	0.54	0.26
53B	0.29	0.24	0.61	0.65	0.31

## Measures of Compactness Report

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District	Reock	Polsby-Popper	Area/Convex Hull	Population Polygon	Population Circle
54A	0.36	0.23	0.64	0.86	0.50
54B	0.57	0.34	0.84	0.65	0.44
55A	0.46	0.44	0.78	0.81	0.47
55B	0.47	0.57	0.89	0.89	0.54
56A	0.56	0.58	0.88	0.85	0.57
56B	0.50	0.51	0.82	0.92	0.66
57A	0.52	0.62	0.93	0.80	0.25
57B	0.44	0.57	0.90	0.93	0.44
58A	0.32	0.34	0.74	0.78	0.35
58B	0.49	0.30	0.69	0.37	0.21
59A	0.46	0.60	0.89	0.92	0.58
59B	0.32	0.35	0.72	0.76	0.34
60A	0.47	0.57	0.87	0.89	0.39
60B	0.51	0.50	0.81	0.83	0.65
61A	0.43	0.50	0.83	0.71	0.33
61B	0.47	0.59	0.92	0.90	0.42
62A	0.45	0.60	0.94	0.95	0.48
62B	0.38	0.40	0.70	0.68	0.35
63A	0.47	0.58	0.86	0.83	0.41
63B	0.25	0.31	0.75	0.74	0.29
64A	0.27	0.38	0.72	0.75	0.32
64B	0.52	0.59	0.90	0.94	0.52
65A	0.38	0.47	0.86	0.90	0.44
65B	0.60	0.44	0.78	0.80	0.56
66A	0.63	0.58	0.91	0.87	0.59
66B	0.33	0.34	0.73	0.79	0.44
67A	0.46	0.61	0.91	0.88	0.49
67B	0.41	0.56	0.89	0.91	0.40

## Measures of Compactness Report

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### Measures of Compactness Summary

<b>Reock</b>	The measure is always between 0 and 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>Area / Convex Hull</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>Population Circle</b>	The measure is always between 0 and 1, with 1 being the most compact.