

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-14-21 v1 SD RL

[For more information on compactness calculations Click Here](#)



Compactness measure: Polsby-Popper

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	30,432	1,041	86,293	618	0.35
2	12,600	626	31,226	398	0.40
3	12,202	631	31,725	392	0.38
4	4,765	386	11,837	245	0.40
5	2,840	253	5,107	189	0.56
6	6,387	452	16,251	283	0.39
7	2,398	280	6,230	174	0.38
8	2,089	263	5,506	162	0.38
9	3,110	244	4,724	198	0.66
10	2,626	284	6,408	182	0.41
11	210	92	678	51	0.31
12	130	64	327	40	0.40
13	1,614	262	5,480	142	0.29
14	542	109	945	83	0.57
15	1,095	188	2,819	117	0.39
16	698	163	2,120	94	0.33
17	334	116	1,075	65	0.31
18	816	159	2,017	101	0.40
19	651	123	1,206	90	0.54
20	1,393	177	2,493	132	0.56
21	883	147	1,715	105	0.51
22	341	102	821	65	0.42
23	5,831	331	8,739	271	0.67
24	677	168	2,245	92	0.30
25	121	64	327	39	0.37
26	81	50	199	32	0.41
27	73	58	270	30	0.27
28	61	52	213	28	0.29
29	56	41	137	27	0.41
30	65	51	204	29	0.32
31	99	54	233	35	0.42
32	71	50	201	30	0.35
33	82	59	281	32	0.29
34	145	64	324	43	0.45
35	230	86	594	54	0.39
36	136	63	311	41	0.44
37	320	101	811	63	0.40
38	511	131	1,367	80	0.37

Most Compact: 0.67 For District: 23

Least Compact: 0.27 For District: 27

Compactness measure: Schwartzberg

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District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	30,432	1,041	86,293	618	0.59
2	12,600	626	31,226	398	0.64
3	12,202	631	31,725	392	0.62
4	4,765	386	11,837	245	0.63
5	2,840	253	5,107	189	0.75
6	6,387	452	16,251	283	0.63
7	2,398	280	6,230	174	0.62
8	2,089	263	5,506	162	0.62
9	3,110	244	4,724	198	0.81
10	2,626	284	6,408	182	0.64
11	210	92	678	51	0.56
12	130	64	327	40	0.63
13	1,614	262	5,480	142	0.54
14	542	109	945	83	0.76
15	1,095	188	2,819	117	0.62
16	698	163	2,120	94	0.57
17	334	116	1,075	65	0.56
18	816	159	2,017	101	0.64
19	651	123	1,206	90	0.73
20	1,393	177	2,493	132	0.75
21	883	147	1,715	105	0.72
22	341	102	821	65	0.64
23	5,831	331	8,739	271	0.82
24	677	168	2,245	92	0.55
25	121	64	327	39	0.61
26	81	50	199	32	0.64
27	73	58	270	30	0.52
28	61	52	213	28	0.54
29	56	41	137	27	0.64
30	65	51	204	29	0.57
31	99	54	233	35	0.65
32	71	50	201	30	0.59
33	82	59	281	32	0.54
34	145	64	324	43	0.67
35	230	86	594	54	0.62
36	136	63	311	41	0.66
37	320	101	811	63	0.63
38	511	131	1,367	80	0.61

Most Compact: 0.82 For District: 23

Least Compact: 0.52 For District: 27

Compactness measure: Reock Score

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
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1	30,432	1,041	86,293	618	0.42
2	12,600	626	31,226	398	0.49
3	12,202	631	31,725	392	0.38
4	4,765	386	11,837	245	0.33
5	2,840	253	5,107	189	0.64
6	6,387	452	16,251	283	0.45
7	2,398	280	6,230	174	0.47
8	2,089	263	5,506	162	0.42
9	3,110	244	4,724	198	0.52
10	2,626	284	6,408	182	0.30
11	210	92	678	51	0.53
12	130	64	327	40	0.38
13	1,614	262	5,480	142	0.47
14	542	109	945	83	0.56
15	1,095	188	2,819	117	0.31
16	698	163	2,120	94	0.45
17	334	116	1,075	65	0.33
18	816	159	2,017	101	0.53
19	651	123	1,206	90	0.51
20	1,393	177	2,493	132	0.51
21	883	147	1,715	105	0.44
22	341	102	821	65	0.61
23	5,831	331	8,739	271	0.65
24	677	168	2,245	92	0.50
25	121	64	327	39	0.37
26	81	50	199	32	0.52
27	73	58	270	30	0.23
28	61	52	213	28	0.30
29	56	41	137	27	0.43
30	65	51	204	29	0.26
31	99	54	233	35	0.34
32	71	50	201	30	0.38
33	82	59	281	32	0.31
34	145	64	324	43	0.52
35	230	86	594	54	0.43
36	136	63	311	41	0.42
37	320	101	811	63	0.50
38	511	131	1,367	80	0.28

Most Compact: 0.65 For District: 23

Least Compact: 0.23 For District: 27

Compactness measure: Length-Width

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	30,432	1,041	86,293	618	1.96
2	12,600	626	31,226	398	1.66

Autobound EDGE - Compactness Report

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3	12,202	631	31,725	392	1.81
4	4,765	386	11,837	245	2.25
5	2,840	253	5,107	189	1.24
6	6,387	452	16,251	283	1.08
7	2,398	280	6,230	174	1.93
8	2,089	263	5,506	162	2.41
9	3,110	244	4,724	198	2.19
10	2,626	284	6,408	182	3.68
11	210	92	678	51	1.52
12	130	64	327	40	1.88
13	1,614	262	5,480	142	1.75
14	542	109	945	83	1.66
15	1,095	188	2,819	117	3.65
16	698	163	2,120	94	1.06
17	334	116	1,075	65	0.99
18	816	159	2,017	101	2.13
19	651	123	1,206	90	0.91
20	1,393	177	2,493	132	0.85
21	883	147	1,715	105	2.64
22	341	102	821	65	1.53
23	5,831	331	8,739	271	1.37
24	677	168	2,245	92	1.36
25	121	64	327	39	0.81
26	81	50	199	32	1.37
27	73	58	270	30	0.59
28	61	52	213	28	1.00
29	56	41	137	27	2.59
30	65	51	204	29	0.50
31	99	54	233	35	0.55
32	71	50	201	30	1.42
33	82	59	281	32	2.59
34	145	64	324	43	1.93
35	230	86	594	54	0.68
36	136	63	311	41	1.05
37	320	101	811	63	1.34
38	511	131	1,367	80	0.89

Most Compact: 3.68 For District: 10

Least Compact: 0.5 For District: 30

Compactness measure: Convex Hull

District	District Area (SQM)	Perimeter (Miles)	Area of Circle with Same Perimeter	Perimeter of Circle with Same Area	Compactness Value
1	30,432	1,041	86,293	618	0.78
2	12,600	626	31,226	398	0.79
3	12,202	631	31,725	392	0.76
4	4,765	386	11,837	245	0.77

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5	2,840	253	5,107	189	0.83
6	6,387	452	16,251	283	0.81
7	2,398	280	6,230	174	0.83
8	2,089	263	5,506	162	0.79
9	3,110	244	4,724	198	0.97
10	2,626	284	6,408	182	0.82
11	210	92	678	51	0.79
12	130	64	327	40	0.74
13	1,614	262	5,480	142	0.72
14	542	109	945	83	0.88
15	1,095	188	2,819	117	0.86
16	698	163	2,120	94	0.68
17	334	116	1,075	65	0.68
18	816	159	2,017	101	0.87
19	651	123	1,206	90	0.86
20	1,393	177	2,493	132	0.87
21	883	147	1,715	105	0.87
22	341	102	821	65	0.83
23	5,831	331	8,739	271	0.95
24	677	168	2,245	92	0.66
25	121	64	327	39	0.78
26	81	50	199	32	0.73
27	73	58	270	30	0.66
28	61	52	213	28	0.62
29	56	41	137	27	0.86
30	65	51	204	29	0.76
31	99	54	233	35	0.87
32	71	50	201	30	0.68
33	82	59	281	32	0.72
34	145	64	324	43	0.80
35	230	86	594	54	0.85
36	136	63	311	41	0.85
37	320	101	811	63	0.72
38	511	131	1,367	80	0.82

Most Compact: 0.97 For District: 9

Least Compact: 0.62 For District: 28