

Autobound EDGE - Compactness Report

Plan Name: State Senate:052024_SD_COL_v4

[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	64	54	235	28	0.27
2	55	42	138	26	0.40
3	57	42	141	27	0.40
4	219	91	654	52	0.33
5	120	65	336	39	0.36
6	85	53	223	33	0.38
7	65	46	169	29	0.38
8	78	48	185	31	0.42
9	128	62	305	40	0.42
10	59	35	99	27	0.60
11	85	62	305	33	0.28
12	291	95	716	60	0.41
13	122	57	255	39	0.48
14	966	165	2,158	110	0.45
15	406	122	1,186	71	0.34
16	1,797	223	3,954	150	0.45
17	3,507	419	13,972	210	0.25
18	1,589	244	4,740	141	0.34
19	543	108	924	83	0.59
20	1,890	318	8,068	154	0.23
21	887	134	1,426	106	0.62
22	874	133	1,416	105	0.62
23	309	92	677	62	0.46
24	547	133	1,403	83	0.39
25	5,020	353	9,894	251	0.51
26	1,701	269	5,763	146	0.30
27	288	84	555	60	0.52
28	1,119	169	2,266	119	0.49
29	77	41	133	31	0.58
30	360	112	994	67	0.36
31	2,499	227	4,100	177	0.61
32	5,788	347	9,573	270	0.60
33	2,924	333	8,827	192	0.33
34	4,334	354	9,974	233	0.43
35	767	137	1,502	98	0.51
36	14,061	615	30,128	420	0.47
37	9,836	613	29,891	352	0.33
38	33,196	943	70,771	646	0.47

Most Compact: 0.62 For District: 22

Least Compact: 0.23 For District: 20

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	64	54	235	28	0.52
2	55	42	138	26	0.63
3	57	42	141	27	0.63
4	219	91	654	52	0.58
5	120	65	336	39	0.60
6	85	53	223	33	0.62
7	65	46	169	29	0.62
8	78	48	185	31	0.65
9	128	62	305	40	0.65
10	59	35	99	27	0.77
11	85	62	305	33	0.53
12	291	95	716	60	0.64
13	122	57	255	39	0.69
14	966	165	2,158	110	0.67
15	406	122	1,186	71	0.59
16	1,797	223	3,954	150	0.67
17	3,507	419	13,972	210	0.50
18	1,589	244	4,740	141	0.58
19	543	108	924	83	0.77
20	1,890	318	8,068	154	0.48
21	887	134	1,426	106	0.79
22	874	133	1,416	105	0.79
23	309	92	677	62	0.68
24	547	133	1,403	83	0.62
25	5,020	353	9,894	251	0.71
26	1,701	269	5,763	146	0.54
27	288	84	555	60	0.72
28	1,119	169	2,266	119	0.70
29	77	41	133	31	0.76
30	360	112	994	67	0.60
31	2,499	227	4,100	177	0.78
32	5,788	347	9,573	270	0.78
33	2,924	333	8,827	192	0.58
34	4,334	354	9,974	233	0.66
35	767	137	1,502	98	0.71
36	14,061	615	30,128	420	0.68
37	9,836	613	29,891	352	0.57
38	33,196	943	70,771	646	0.68

Most Compact: 0.79 For District: 22

Least Compact: 0.48 For District: 20

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	64	54	235	28	0.20
2	55	42	138	26	0.56
3	57	42	141	27	0.31
4	219	91	654	52	0.41
5	120	65	336	39	0.39
6	85	53	223	33	0.45
7	65	46	169	29	0.36
8	78	48	185	31	0.53
9	128	62	305	40	0.46
10	59	35	99	27	0.59
11	85	62	305	33	0.28
12	291	95	716	60	0.40
13	122	57	255	39	0.51
14	966	165	2,158	110	0.35
15	406	122	1,186	71	0.41
16	1,797	223	3,954	150	0.32
17	3,507	419	13,972	210	0.22
18	1,589	244	4,740	141	0.41
19	543	108	924	83	0.57
20	1,890	318	8,068	154	0.30
21	887	134	1,426	106	0.49
22	874	133	1,416	105	0.51
23	309	92	677	62	0.46
24	547	133	1,403	83	0.41
25	5,020	353	9,894	251	0.53
26	1,701	269	5,763	146	0.39
27	288	84	555	60	0.56
28	1,119	169	2,266	119	0.52
29	77	41	133	31	0.57
30	360	112	994	67	0.37
31	2,499	227	4,100	177	0.60
32	5,788	347	9,573	270	0.43
33	2,924	333	8,827	192	0.29
34	4,334	354	9,974	233	0.50
35	767	137	1,502	98	0.58
36	14,061	615	30,128	420	0.49
37	9,836	613	29,891	352	0.38
38	33,196	943	70,771	646	0.51

Most Compact: 0.6 For District: 31

Least Compact: 0.2 For District: 1

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	64	54	235	28	1.36
2	55	42	138	26	1.11

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3	57	42	141	27	3.08
4	219	91	654	52	1.76
5	120	65	336	39	1.30
6	85	53	223	33	1.82
7	65	46	169	29	2.19
8	78	48	185	31	1.31
9	128	62	305	40	1.29
10	59	35	99	27	1.18
11	85	62	305	33	1.64
12	291	95	716	60	1.24
13	122	57	255	39	1.45
14	966	165	2,158	110	2.90
15	406	122	1,186	71	1.65
16	1,797	223	3,954	150	4.04
17	3,507	419	13,972	210	3.60
18	1,589	244	4,740	141	1.00
19	543	108	924	83	1.65
20	1,890	318	8,068	154	1.74
21	887	134	1,426	106	2.34
22	874	133	1,416	105	1.55
23	309	92	677	62	0.99
24	547	133	1,403	83	2.01
25	5,020	353	9,894	251	1.05
26	1,701	269	5,763	146	1.69
27	288	84	555	60	1.35
28	1,119	169	2,266	119	1.71
29	77	41	133	31	2.01
30	360	112	994	67	2.05
31	2,499	227	4,100	177	1.88
32	5,788	347	9,573	270	0.80
33	2,924	333	8,827	192	0.87
34	4,334	354	9,974	233	1.55
35	767	137	1,502	98	1.27
36	14,061	615	30,128	420	1.87
37	9,836	613	29,891	352	1.63
38	33,196	943	70,771	646	1.87

Most Compact: 4.04 For District: 16

Least Compact: 0.8 For District: 32

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	64	54	235	28	0.63
2	55	42	138	26	0.77
3	57	42	141	27	0.80
4	219	91	654	52	0.71

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5	120	65	336	39	0.74
6	85	53	223	33	0.71
7	65	46	169	29	0.79
8	78	48	185	31	0.81
9	128	62	305	40	0.76
10	59	35	99	27	0.87
11	85	62	305	33	0.69
12	291	95	716	60	0.82
13	122	57	255	39	0.83
14	966	165	2,158	110	0.91
15	406	122	1,186	71	0.77
16	1,797	223	3,954	150	0.94
17	3,507	419	13,972	210	0.64
18	1,589	244	4,740	141	0.71
19	543	108	924	83	0.86
20	1,890	318	8,068	154	0.62
21	887	134	1,426	106	0.96
22	874	133	1,416	105	0.89
23	309	92	677	62	0.86
24	547	133	1,403	83	0.81
25	5,020	353	9,894	251	0.87
26	1,701	269	5,763	146	0.70
27	288	84	555	60	0.95
28	1,119	169	2,266	119	0.83
29	77	41	133	31	0.93
30	360	112	994	67	0.74
31	2,499	227	4,100	177	0.90
32	5,788	347	9,573	270	0.91
33	2,924	333	8,827	192	0.70
34	4,334	354	9,974	233	0.78
35	767	137	1,502	98	0.80
36	14,061	615	30,128	420	0.79
37	9,836	613	29,891	352	0.76
38	33,196	943	70,771	646	0.87

Most Compact: 0.96 For District: 21

Least Compact: 0.62 For District: 20