

Autobound EDGE - Compactness Report

Plan Name: State Senate:10-04-21 v2 SD

[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	767	137	1,502	98	0.51
2	469	140	1,566	77	0.30
3	1,401	234	4,358	133	0.32
4	279	82	536	59	0.52
5	62	52	214	28	0.29
6	59	53	224	27	0.27
7	331	91	666	64	0.50
8	68	63	312	29	0.22
9	74	49	189	30	0.39
10	79	50	198	32	0.40
11	208	80	506	51	0.41
12	248	88	616	56	0.40
13	51	50	195	25	0.26
14	107	66	348	37	0.31
15	1,506	250	4,978	138	0.30
16	126	61	292	40	0.43
17	77	69	374	31	0.21
18	230	84	560	54	0.41
19	54	42	142	26	0.38
20	1,890	318	8,068	154	0.23
21	615	108	926	88	0.66
22	2,499	227	4,100	177	0.61
23	77	41	133	31	0.58
24	362	101	809	67	0.45
25	5,471	326	8,457	262	0.65
26	3,405	391	12,169	207	0.28
27	146	74	434	43	0.34
28	1,479	186	2,763	136	0.54
29	1,582	246	4,835	141	0.33
30	959	146	1,688	110	0.57
31	768	133	1,416	98	0.54
32	1,297	169	2,269	128	0.57
33	2,670	273	5,945	183	0.45
34	6,040	345	9,472	275	0.64
35	4,413	344	9,418	236	0.47
36	13,810	591	27,828	417	0.50
37	9,836	613	29,891	352	0.33
38	33,196	943	70,771	646	0.47

Most Compact: 0.66 For District: 21

Least Compact: 0.21 For District: 17

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	767	137	1,502	98	0.71
2	469	140	1,566	77	0.55
3	1,401	234	4,358	133	0.57
4	279	82	536	59	0.72
5	62	52	214	28	0.54
6	59	53	224	27	0.52
7	331	91	666	64	0.70
8	68	63	312	29	0.47
9	74	49	189	30	0.63
10	79	50	198	32	0.63
11	208	80	506	51	0.64
12	248	88	616	56	0.63
13	51	50	195	25	0.51
14	107	66	348	37	0.55
15	1,506	250	4,978	138	0.55
16	126	61	292	40	0.66
17	77	69	374	31	0.45
18	230	84	560	54	0.64
19	54	42	142	26	0.62
20	1,890	318	8,068	154	0.48
21	615	108	926	88	0.82
22	2,499	227	4,100	177	0.78
23	77	41	133	31	0.76
24	362	101	809	67	0.67
25	5,471	326	8,457	262	0.80
26	3,405	391	12,169	207	0.53
27	146	74	434	43	0.58
28	1,479	186	2,763	136	0.73
29	1,582	246	4,835	141	0.57
30	959	146	1,688	110	0.75
31	768	133	1,416	98	0.74
32	1,297	169	2,269	128	0.76
33	2,670	273	5,945	183	0.67
34	6,040	345	9,472	275	0.80
35	4,413	344	9,418	236	0.68
36	13,810	591	27,828	417	0.70
37	9,836	613	29,891	352	0.57
38	33,196	943	70,771	646	0.68

Most Compact: 0.82 For District: 21

Least Compact: 0.45 For District: 17

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	767	137	1,502	98	0.58
2	469	140	1,566	77	0.31
3	1,401	234	4,358	133	0.39
4	279	82	536	59	0.55
5	62	52	214	28	0.25
6	59	53	224	27	0.21
7	331	91	666	64	0.36
8	68	63	312	29	0.27
9	74	49	189	30	0.47
10	79	50	198	32	0.50
11	208	80	506	51	0.41
12	248	88	616	56	0.46
13	51	50	195	25	0.37
14	107	66	348	37	0.33
15	1,506	250	4,978	138	0.29
16	126	61	292	40	0.38
17	77	69	374	31	0.25
18	230	84	560	54	0.50
19	54	42	142	26	0.59
20	1,890	318	8,068	154	0.30
21	615	108	926	88	0.65
22	2,499	227	4,100	177	0.60
23	77	41	133	31	0.57
24	362	101	809	67	0.42
25	5,471	326	8,457	262	0.63
26	3,405	391	12,169	207	0.20
27	146	74	434	43	0.40
28	1,479	186	2,763	136	0.42
29	1,582	246	4,835	141	0.41
30	959	146	1,688	110	0.43
31	768	133	1,416	98	0.52
32	1,297	169	2,269	128	0.60
33	2,670	273	5,945	183	0.38
34	6,040	345	9,472	275	0.45
35	4,413	344	9,418	236	0.46
36	13,810	591	27,828	417	0.53
37	9,836	613	29,891	352	0.38
38	33,196	943	70,771	646	0.51

Most Compact: 0.65 For District: 21

Least Compact: 0.2 For District: 26

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	767	137	1,502	98	1.27
2	469	140	1,566	77	2.92

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3	1,401	234	4,358	133	1.08
4	279	82	536	59	1.35
5	62	52	214	28	0.48
6	59	53	224	27	0.58
7	331	91	666	64	1.24
8	68	63	312	29	0.86
9	74	49	189	30	1.65
10	79	50	198	32	1.74
11	208	80	506	51	1.13
12	248	88	616	56	1.63
13	51	50	195	25	0.80
14	107	66	348	37	0.51
15	1,506	250	4,978	138	2.28
16	126	61	292	40	0.77
17	77	69	374	31	1.13
18	230	84	560	54	1.38
19	54	42	142	26	1.51
20	1,890	318	8,068	154	1.74
21	615	108	926	88	1.66
22	2,499	227	4,100	177	1.88
23	77	41	133	31	2.01
24	362	101	809	67	2.53
25	5,471	326	8,457	262	1.10
26	3,405	391	12,169	207	5.21
27	146	74	434	43	1.86
28	1,479	186	2,763	136	2.67
29	1,582	246	4,835	141	2.99
30	959	146	1,688	110	2.68
31	768	133	1,416	98	1.58
32	1,297	169	2,269	128	1.72
33	2,670	273	5,945	183	1.15
34	6,040	345	9,472	275	0.80
35	4,413	344	9,418	236	1.90
36	13,810	591	27,828	417	1.75
37	9,836	613	29,891	352	1.63
38	33,196	943	70,771	646	1.87

Most Compact: 5.21 For District: 26

Least Compact: 0.48 For District: 5

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	767	137	1,502	98	0.80
2	469	140	1,566	77	0.78
3	1,401	234	4,358	133	0.68
4	279	82	536	59	0.94

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5	62	52	214	28	0.79
6	59	53	224	27	0.66
7	331	91	666	64	0.89
8	68	63	312	29	0.58
9	74	49	189	30	0.80
10	79	50	198	32	0.77
11	208	80	506	51	0.75
12	248	88	616	56	0.78
13	51	50	195	25	0.73
14	107	66	348	37	0.85
15	1,506	250	4,978	138	0.69
16	126	61	292	40	0.81
17	77	69	374	31	0.61
18	230	84	560	54	0.77
19	54	42	142	26	0.82
20	1,890	318	8,068	154	0.62
21	615	108	926	88	0.92
22	2,499	227	4,100	177	0.90
23	77	41	133	31	0.93
24	362	101	809	67	0.82
25	5,471	326	8,457	262	0.90
26	3,405	391	12,169	207	0.78
27	146	74	434	43	0.75
28	1,479	186	2,763	136	0.90
29	1,582	246	4,835	141	0.85
30	959	146	1,688	110	0.94
31	768	133	1,416	98	0.82
32	1,297	169	2,269	128	0.88
33	2,670	273	5,945	183	0.77
34	6,040	345	9,472	275	0.94
35	4,413	344	9,418	236	0.80
36	13,810	591	27,828	417	0.81
37	9,836	613	29,891	352	0.76
38	33,196	943	70,771	646	0.87

Most Compact: 0.94 For District: 4

Least Compact: 0.58 For District: 8