Compactness Analysis Report

Plan Name: Current Cong Modification 16
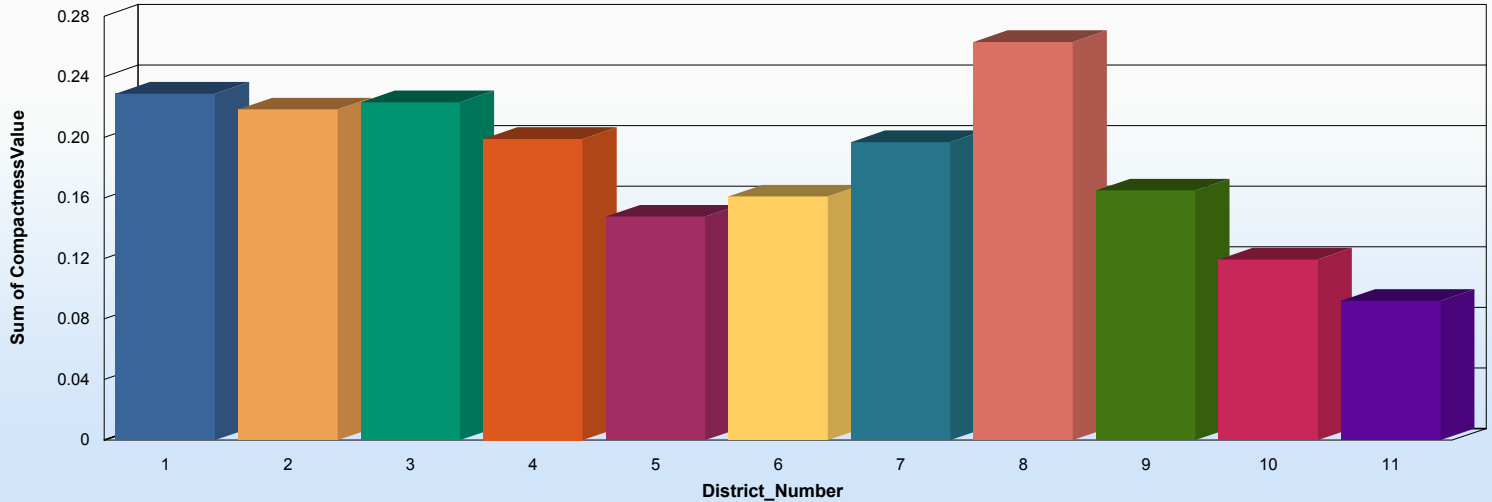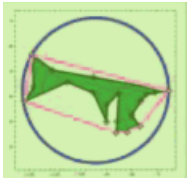
Plan Last Edited on:

Confidential

Compactness Measure:

Circularity Ratio - Ratio of the area of the District to the area of a circle (the most compact shape) having the same perimeter. That ratio is expressed as $M = 4pi(area) / (perimeter)2$. For a circle, the ratio is one. This

District:	1	Compactness Value:	0.23	As Percent:	22.9%
District:	2	Compactness Value:	0.22	As Percent:	21.8%
District:	3	Compactness Value:	0.22	As Percent:	22.3%
District:	4	Compactness Value:	0.20	As Percent:	19.9%
District:	5	Compactness Value:	0.15	As Percent:	14.8%
District:	6	Compactness Value:	0.16	As Percent:	16.1%
District:	7	Compactness Value:	0.20	As Percent:	19.7%
District:	8	Compactness Value:	0.26	As Percent:	26.3%
District:	9	Compactness Value:	0.16	As Percent:	16.5%
District:	10	Compactness Value:	0.12	As Percent:	11.9%
District:	11	Compactness Value:	0.09	As Percent:	9.2%

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Redistricting and Reapportionment Software
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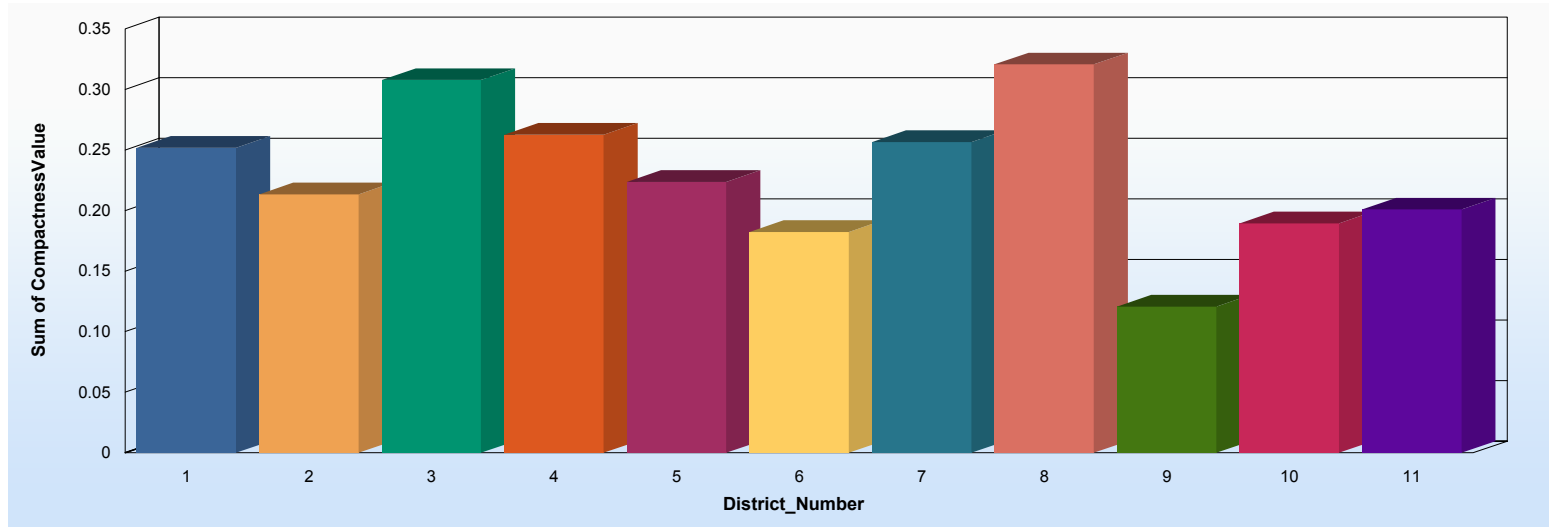
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Compactness Measure:

District area divided by the area of the minimum circle bounding the district. This method is also know as the Roeck or Ehrenberg test.

District:		Compactness Value:		As Percent:	
District:	1	Compactness Value:	0.25	As Percent:	25.2%
District:	2	Compactness Value:	0.21	As Percent:	21.3%
District:	3	Compactness Value:	0.31	As Percent:	30.8%
District:	4	Compactness Value:	0.26	As Percent:	26.3%
District:	5	Compactness Value:	0.22	As Percent:	22.4%
District:	6	Compactness Value:	0.18	As Percent:	18.2%
District:	7	Compactness Value:	0.26	As Percent:	25.7%
District:	8	Compactness Value:	0.32	As Percent:	32.1%
District:	9	Compactness Value:	0.12	As Percent:	12.1%
District:	10	Compactness Value:	0.19	As Percent:	18.9%
District:	11	Compactness Value:	0.20	As Percent:	20.1%

Total Perimeter for all Districts   **9,853.82 Miles**

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