

Compactness Analysis Report

10/27/2015

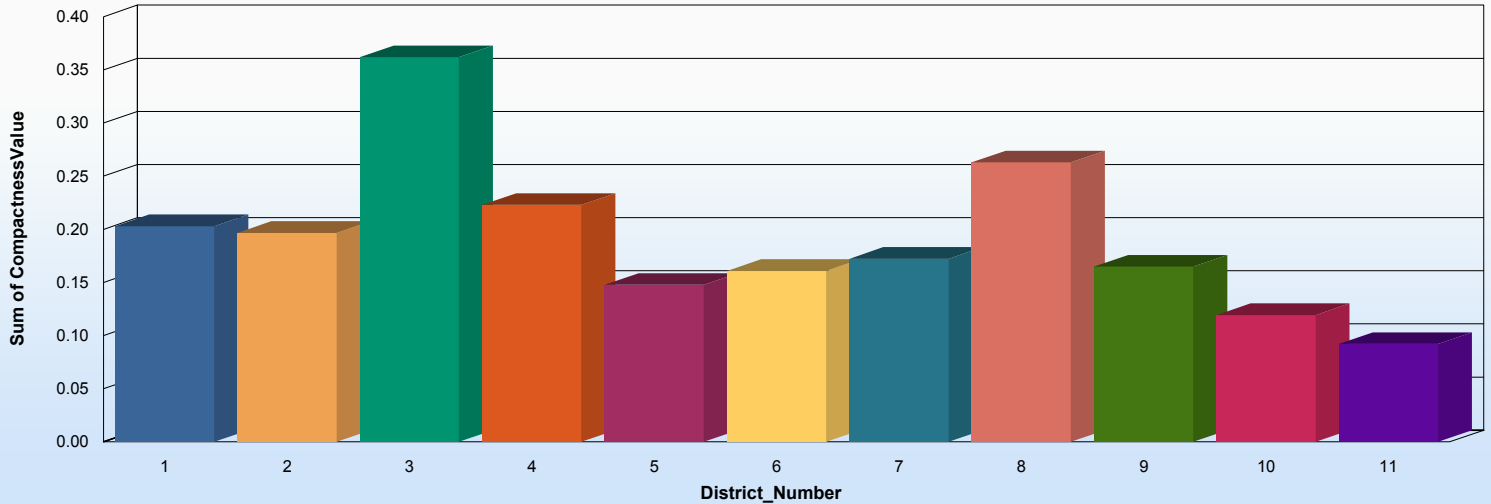
Plan Name: NAACP Modified Plan #6 Revised

Plan Last Edited on: 10/27/2015 2:41:03 PM

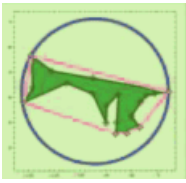
Confidential

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 $M = 4\pi(\text{area}) / (\text{perimeter})^2$. For a circle, the ratio is one. Polsby-Popper test.



District:	1	Compactness Value:	0.20	As Percent:	20.3%
District:	2	Compactness Value:	0.20	As Percent:	19.7%
District:	3	Compactness Value:	0.36	As Percent:	36.2%
District:	4	Compactness Value:	0.22	As Percent:	22.3%
District:	5	Compactness Value:	0.15	As Percent:	14.8%
District:	6	Compactness Value:	0.16	As Percent:	16.1%
District:	7	Compactness Value:	0.17	As Percent:	17.2%
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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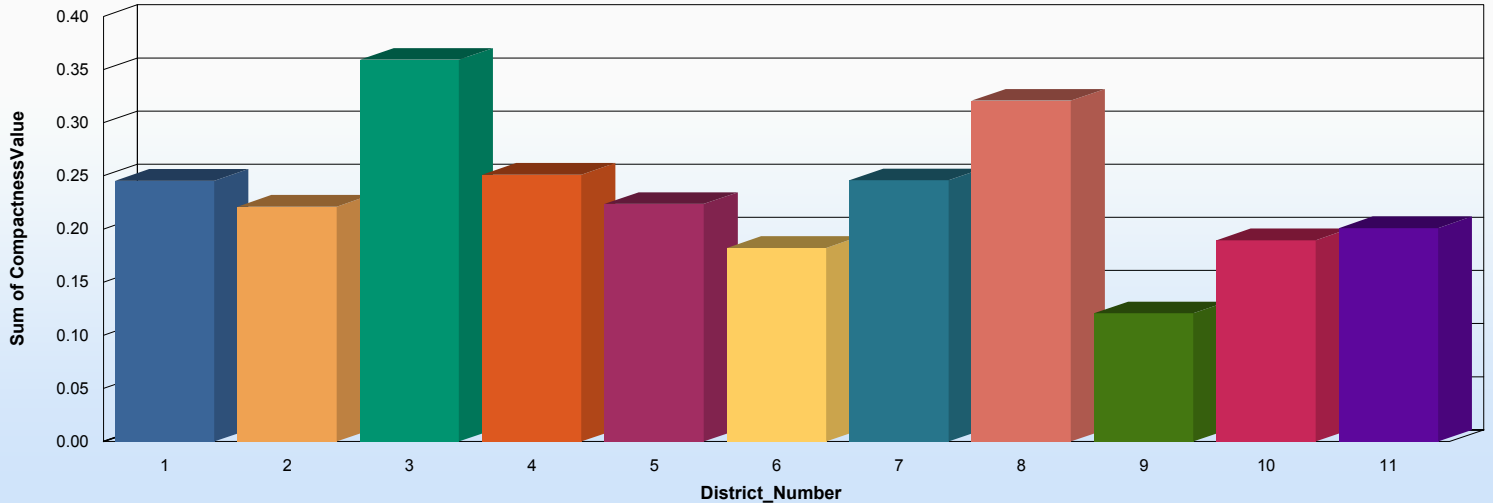
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Compactness Measure:

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



District:	1	Compactness Value:	0.25	As Percent:	24.5%
District:	2	Compactness Value:	0.22	As Percent:	22.1%
District:	3	Compactness Value:	0.36	As Percent:	35.9%
District:	4	Compactness Value:	0.25	As Percent:	25.1%
District:	5	Compactness Value:	0.22	As Percent:	22.4%
District:	6	Compactness Value:	0.18	As Percent:	18.2%
District:	7	Compactness Value:	0.25	As Percent:	24.6%
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

9,897.77 Miles