

Partisan Bias Analysis

Goal: Compare 2011 Congressional, Senate, and House maps for South Carolina to the proposed maps developed by John Ruoff.

2011 Maps: Data processed in the manner described in Anna Marie's master's thesis.

John's Proposed Maps (LWV Exemplars): Precincts from Anna Marie's 2011 data files were assigned to John's new districts for each map. For precincts that were split between districts, they were assigned to the district that contained the largest proportion of its area.

Initial Estimates

Map	Congressional		SC Senate		SC House	
Measure	2011 Actual	LWV Exemplar	2011 Actual	LWV Exemplar	2011 Actual	LWV Exemplar
Median-Mean	-0.0199	-0.0452	-0.0494	-0.0516	-0.0517	-0.0323
Geometric Bias*	0.0377	0.0190	0.0392	0.0318	0.0430	0.0315
Efficiency Gap**	0.3123	0.0244	0.0891	0.0886	0.0976	0.0848

**Geometric bias takes the same direction as it did before – indicates Republican advantage, but it's significantly lessened in most cases.*

***Average efficiency gap from the districts. $EG > 0$ indicates that Democrats wasted more votes on average (i.e. a Republican advantage).*