**NC 2022 Congressional Map**

The SEM of the statewide vote share (Vf) for the six individual elections in the composite is small (0.0073, less than 1 percentage point). The individual elections show relatively consistent statewide voting behavior. The absolute difference between the composite Vf and the mean of the individual elections is very small (0.0011) and a small fraction of the SEM (0.1474).

Similarly, the absolute differences between the composite district vote shares and the means for the elections in it are very small (average: 0.0012) and small fractions of the SEM (average: 0.1378).

Chart, line chart

Description automatically generated

Hence, the two analytical starting points in the composite partisan profile are not appreciably different than the means of those for the individual elections.

The absolute difference between the estimated seat share (Sf) of the composite and the means for the individual elections is small (0.0044) and a small fraction of the SEM (0.2118).

Hence, the starting point for inferring a S(V) curve – the point Vf, Sf – is not appreciably different than the means for the individual elections.

As one would expect given that, the absolute differences between the seat shares in the inferred S(V) curve (Sf) are very very small (averaging just 0.0009 in the local +/– 5% range around the statewide vote share). The composite Sf’s closely track the mean Sf’s in the local range.

Chart, line chart

Description automatically generated

The absolute differences between the main measures of bias with fractional [0.0–1.0] values calculated on the composite and the means of the metrics computed on the individual elections is very small (average: 0.0010). [TODO: Discuss GS – over 3 SEM off mean.]

The difference for declination is also small (0.0798 or less than one tenth of a degree).

[TODO: Insert metrics figure w/ error bars]

The absolute differences between the measures of responsiveness – big ‘R’, little ‘r’, and the number of responsive districts (Rd) – for the composite and the means for the individual elections are small (0.3774, 0.0212, and 0.0663 for values typically in the low single digits), and the differences are all roughly one standard error or less.

[end]