**SC 2022 Congressional Map**

The SEM of the statewide vote share (Vf) for the six individual elections in the composite is very small (0.0116, roughly 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 very small (0.0001) and a very small fraction of the SEM (0.0050).

Similarly, the absolute differences between the composite district vote shares and the means for the elections in it are very very small (average: 0.0001) and small fractions of the SEM (average: 0.0159).

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 relatively small (0.0150) but that is roughly one and have standard errors.

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 small (averaging just 0.0028 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, histogram

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: 0.0033).

The difference for declination is, however, significant (11.4079 or ~11 degrees). The SEM is also large (7.2279 or ~7 degrees). [TODO: Discuss.]

[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 (0.2633, 0.4605, and 0.3440 for values typically in the low single digits), though the last two differences are more than one standard error.

[end]