FIA analysis examination

* Check process for developing visit 1 and visit 2 temp and precip data sets **(The process looks solid. Not finding errors).**
* Calculate mean estimates for density temp and precip by hand
  + Compare against TSE estimates **(Yes, they are the same)**
* Compare TSE means against Bootstrap means (shiny page does this)
* Verify that GLS mean = mean of the species’ means, no adjusting **(The results do differ, both mean of bootstrap means and mean of TSE means vs. GLS estimates. I think the bootstrap is fine.)**
  + Check GLS means calc
  + Possibility: the GLS means may be about right (try UCI – LCI / 2 – this is weird, the absolute range shouldn’t equal the mean of all spp). I wonder, though, if plotting will reverse their overall sign?
  + Can I calculate the same mean as the GLS?

I BELIEVE THE GLS IS FIXED. MAKE SURE THAT THE OCCUPANCY CODE HANDLES BS.RESULTS AND BS.RESULTS2 CORRECTLY (PROBABLY NEED A JOIN)

Questions:

The precip GLS estimate sign seems backwards from available data. Why do precip data seem wonky when temp data do not?

The GLS CIs for density used to be pretty far from zero. What’s happened? How stable are they? Might need to experiment with different numbers of bootstrap iterations.