**WAPS analysis topics**

* My primary focus is on priority effects – I’m most interested in understanding how these communities fluctuate over time, depending on their environment and initial conditions during community assembly.
  + How do initial conditions of community assembly continue to control community composition over time?
    - What planted compositions exhibit the strongest priority effects? Invasive vs. exotics vs. natives?
    - Who is invading whom over time? Is there some sort of relationship where Invasives -> Annuals -> Natives -> Invasives that suggests some kind of rock-paper-scissors relationship? Or is there a clear competitive hierarchy?
      * Is the stability of each of these groups related to how efficiently they utilize resources?
  + How do interactions between planted species composition and environmental forcing control species composition?
    - Consider analysis of nutrient addition vs. supplemental water vs. control – does an increase in resource availability increase the strength of priority effects?
    - The recent drought has the advantage of a particularly interesting natural experiment – does drought stress cause a collapse of priority effects that isn’t mirrored by added precipitation plots?
  + Contrasts between compositional priority effects and community performance effects – does aggregate community performance mirror similarity? E.g. irrespective of community composition, do certain planted compositions continue to perform better than others, even if their vegetation composition is relatively equivalent?
    - Assumptions that changes in microbial composition can be driven by priority effects, which have consistent effects on soil nutrient cycling, etc. that may manifest as changes in resource availability (resins) or productivity (biomass).
  + Additive/Non-additive changes in community performance – calculating community performance based on relative abundance of constituent taxa in mixtures, relative to their monocultures. May be more or less valid depending on function measured and how well-maintained monocultures are.
* Other sorts of questions:
  + Importance of lag effects: Are performance measures (like productivity response) synced to community change?
    - When do we start seeing the effects of post-drought recovery? Does the productivity response outpace that of community change, which may be more dependent on replenishment of the seedbank, etc., that may take more time to mount.