**To-Do List, Generated 8/15:**

* Clean and produce plots of biomass data:
  + Focus on:
    - General temporal patterns
    - Outliers / general data validation
* Clean and produce plots of resin data
  + Focus on:
    - General temporal patterns
    - Outliers / general data validation
* Produce general functional group abundance figures:
  + Calculate relative abundance of major functional groups in all plots
  + Visualize differences in functional groups over time, relative to:
    - Initial planting composition
    - Water treatment
    - Fertilization treatment
    - Clipping treatment
  + Easiest to start with the full mix treatment to see different taxa are dominant under different resource conditions, then move onto priority effects within.
* Compositional similarity:
  + How quickly do groups collapse to the same community composition (if at all?)
    - Best way to measure this may be Bray-Curtis dissimilarity between communities relative to the no-priority mix (see Kardol et al.), threshold for difference being mean dissimilarity of controls relative to one another.
  + Ordination-based visualization:
    - Separate ordinations for different treatments/planting compositions – while things are getting more similar over time, are they moving to the same composition over time, or fluctuating?
    - To what degree do treatment differences vs. planting differences still structure community diversity over time? Is there a switch in influence, if ever?

**Questions to ask with WAPS data:**

General characterization of the dataset:

* How does community composition vary over time? Based on planted groups, what taxa/functional groups seem to predominate?
* What species (of the set) seem to predominate? Are these different depending on what competitors are planted within the dataset?
* How does biomass vary with time and treatment? Are some mixtures more stable or productive than others? Do all mixtures respond to drought in similar ways?

Priority effects:

* How compositionally dissimilar are plantings of different functional groups from the non-priority control?
  + Are these dissimilarities maintained through time, or do groups collapse at different rates?
  + How do nutrient treatments affect these relationships? Could be expected that nutrient enrichment may both increase and decrease the strength of priority effects.
* Are compositional identities retained over time? If groups are becoming more or less dissimilar from one another, are they retaining the original state or converging on a new one?
* How do these compositional differences compare with measures of aggregate community performance (biomass/N use efficiency)? Do changes in productivity correlate with compositional dissimilarity?

Temporal stability:

* What features make a community most compositionally stable over time?
* Do natives, waps, exotics, or mixtures therein, confer greater temporal asynchrony in species cover over time, which yields greater compositional stability / resilience?