Productivity dynamics and fate

Overarching Questions

• How much does variability in growth rate explain variability in productivity?

• How much does biomass turnover vary across time and across ecosystems?

• To what extent does turnover predict nutritional quality and litter pools?
Detailed questions

• Is productivity positively related to biomass turnover?
  • What is the relationship of P and turnover within versus among ecosystems?
• Is turnover positively related to nutritional quality (N content)
• Is turnover (or nutritional quality) related to herbivore biomass?
• Is turnover positively related to resource supply?
Variables needed
(by year for each plot within a site)

- NPP and biomass
- Growth rate
- N content as proxy for nutritional quality
- Standing litter (or detritus) biomass

Optional but desirable:

- Herbivore biomass
- Herbivory rates
- Decomposition rates