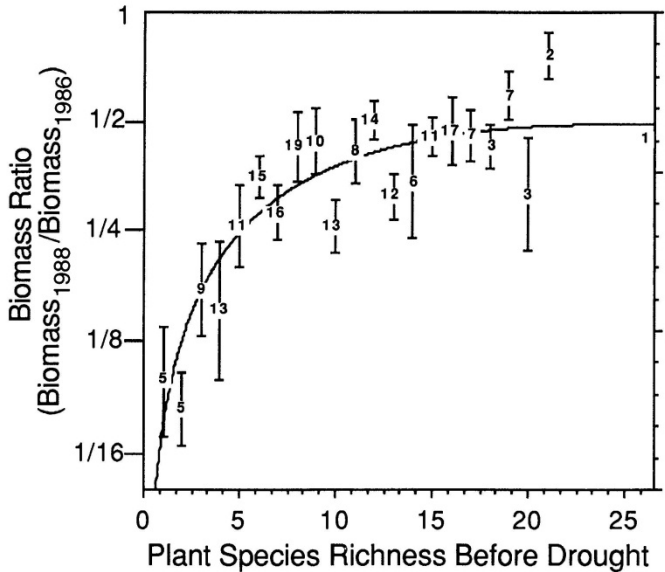


Data from Cedar Creek investigating biodiversity and ecosystem functioning

Graph 1: Investigating the diversity-stability hypothesis

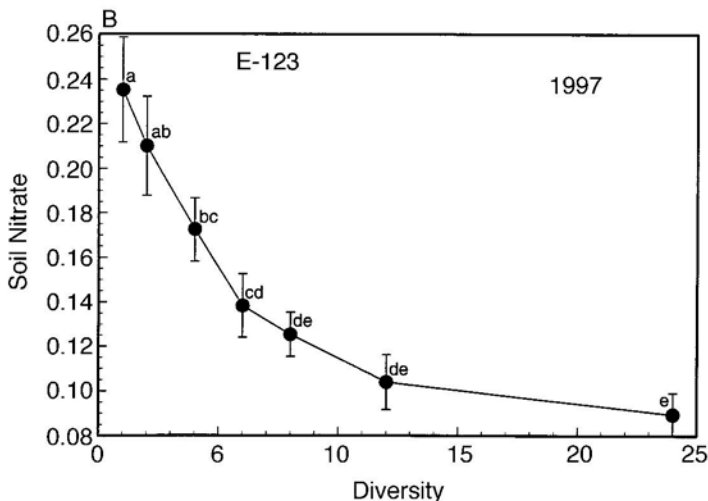
Biomass ratio key

1988: year of drought 1986: pre-drought



- What does the data from this graph reveal about the relationship of biodiversity and biomass loss during a drought?
- How does this relationship correlate to **stability**?
- **T or F:** “Results from this experiment showed that stability, measured as resistance to the effects of a major disturbance, is a sharply and significantly increasing function of plant diversity.”

Graph 2: Investigating diversity and available soil nitrogen

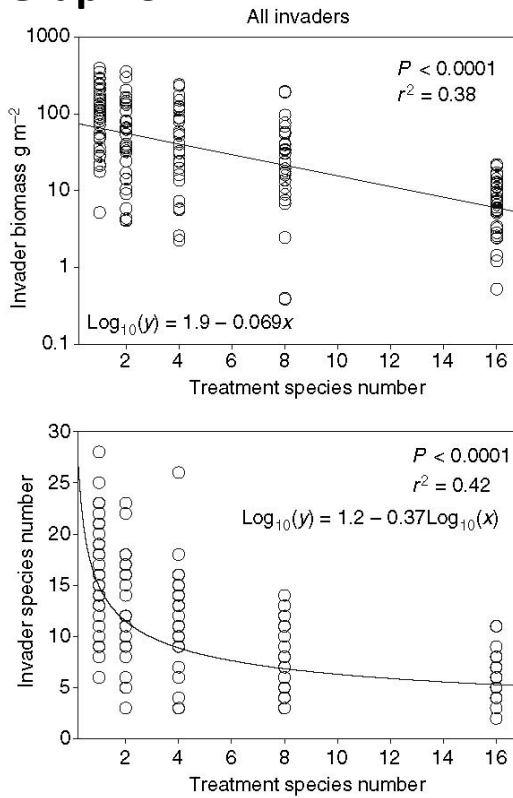


- What does this graph reveal regarding the relationship between diversity and soil nitrate?
- Explain how this data could be used as a possible mechanism in understanding the low rate of exotic species invasion in diverse plant communities.

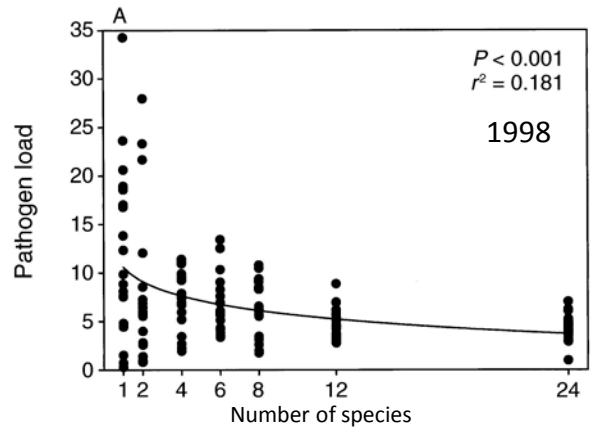
Match the graph to the hypothesis represented by the data

All data from Big Bio experiments

Graph 3

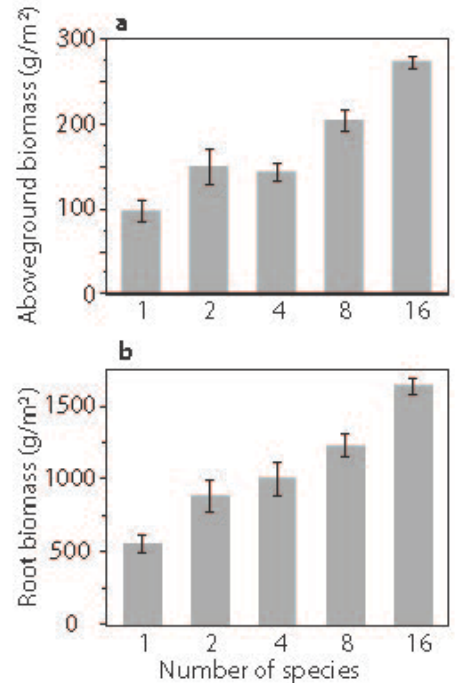


Graph 4



Graph 5

2006, using 13 years of Big Bio data



Place the number of each graph beside the appropriate hypothesis.

- ___ Diversity : Productivity Hypothesis
- ___ Diversity : Stability Hypothesis
- ___ Diversity : Disease Hypothesis
- ___ Diversity : Invasion Hypothesis

Graph 6

