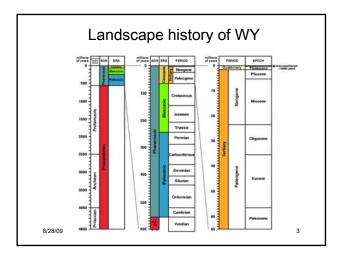
# Setting the Stage

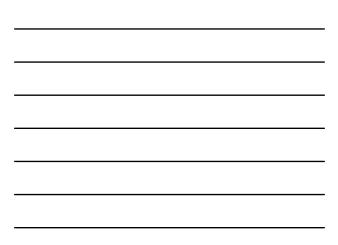
Climate, geology and vegetation patterns in Wyoming

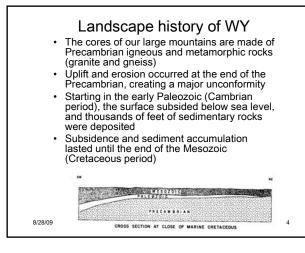
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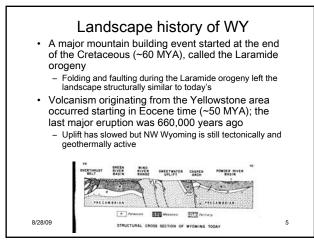
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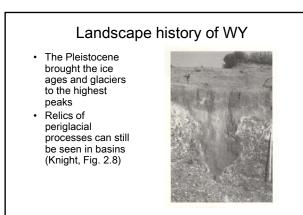
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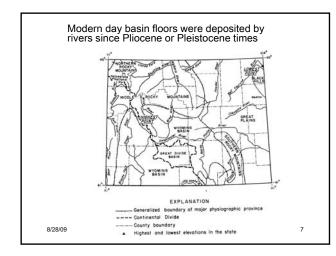




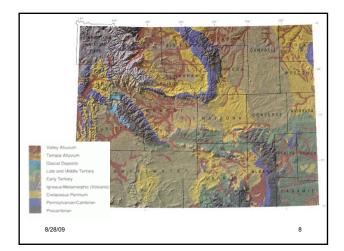




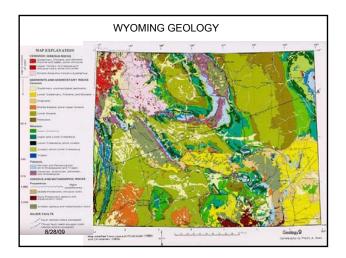


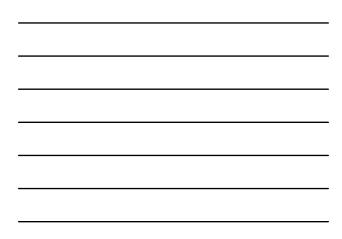


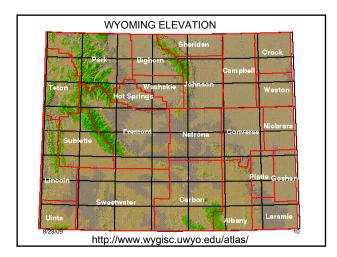




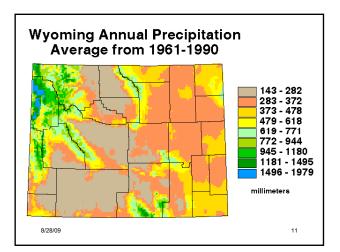




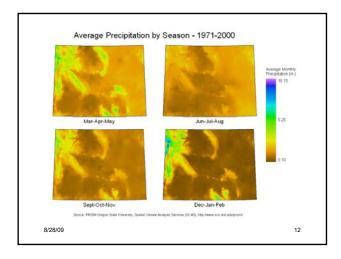




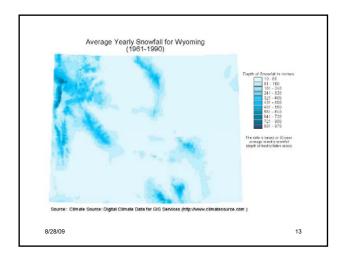




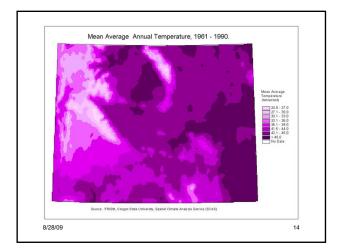










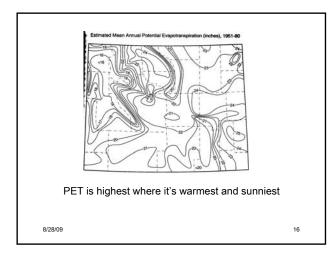


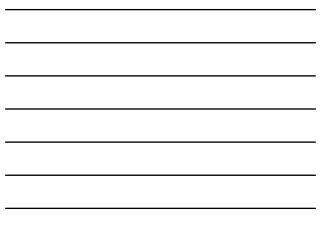


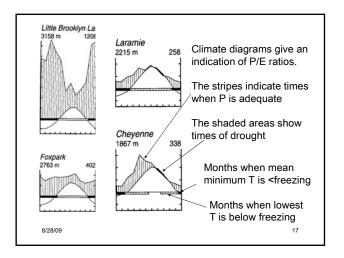
### P/E Ratios and Potential Evapotranspiration

- Vegetation responds more to the ratio between precipitation and evaporation (P/E ratio) than to precipitation per se
- Potential evapotranspiration (PET) is determined by temperature, humidity, and solar radiation, assuming unlimited moisture (saturated surface)
- Actual evapotranspiration (AET) is the water actually lost from the surface as limited by moisture availability and plant physiology

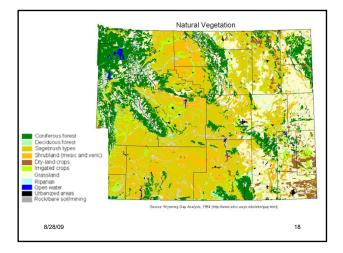
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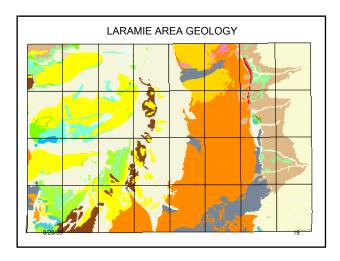




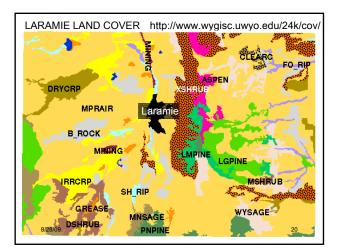




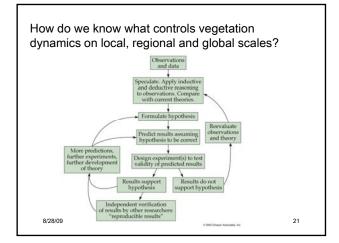


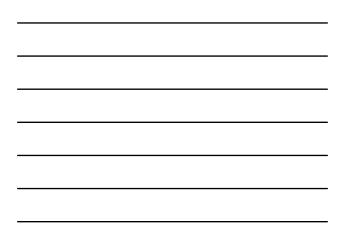




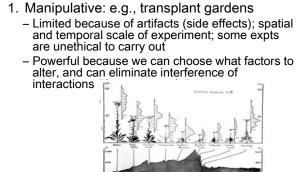






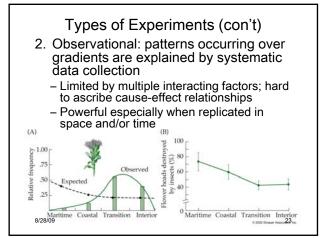


## Types of Experiments

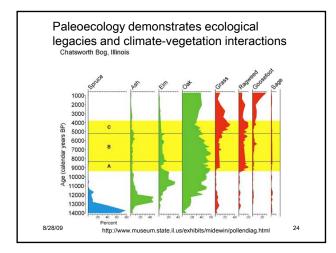


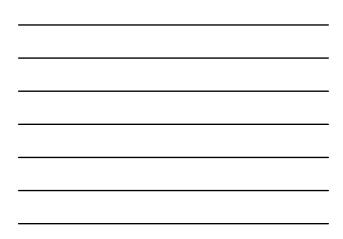
22

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### Types of Experiments (con't)

- 3. Natural experiments are "manipulations" caused by a natural occurrence (e.g., fire)
  - Limited because we can't know if altered and unaltered areas were the same prior to event; possibility of interactions with other factors
    Important to attempt to understand ecological
  - Important to attempt to understand ecological consequences of disturbances; often can't be pursued experimentally

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