**Citation:** Using the Tier III Experiments to Investigate the Effects of Drought and Fertilization on Forest Water Use and Stomatal Conductance . (Feb. 2014) . PINEMAP Year 3 Annual Report: Mapping the Future of the Southern Pine Management in a Changing World. Gainesville, FL : United States Department of Agriculture .

PINEMAP Article Reflection
**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*After reading the PINEMAP article, answer the following reflection questions. Be prepared to discuss and share the main ideas of the article and your interpretation of the information presented.*

1. What is stomatal conductance?
2. How is stomatal conductance related to transpiration?
3. What heavily influences the total amount of photosynthesis and transpiration for a stand (group) of trees?
4. Do our class results from the transpiration investigation support your answer to question #3? Please explain.
5. Why is the understanding of forest transpiration important for the PINEMAP study?
6. How are PINEMAP scientists quantifying transpiration at the Tier III research sites?
7. Briefly summarize the results of the Tier III study?
8. Why do you think this research is important? How do you think it will impact society?