Collaborative science to inform management







Three year project to study the environmental effects of pile burning







Collaborative science to inform management









- the amount of biomass consumed,
- the rate of pile combustion,
- carbon dynamics,
- soil characteristics, and
- vegetation response







Why do we burn slash piles?





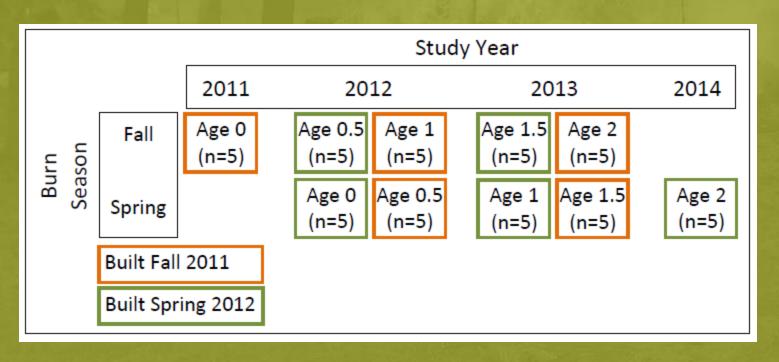


How can we study the effects of pile burning?

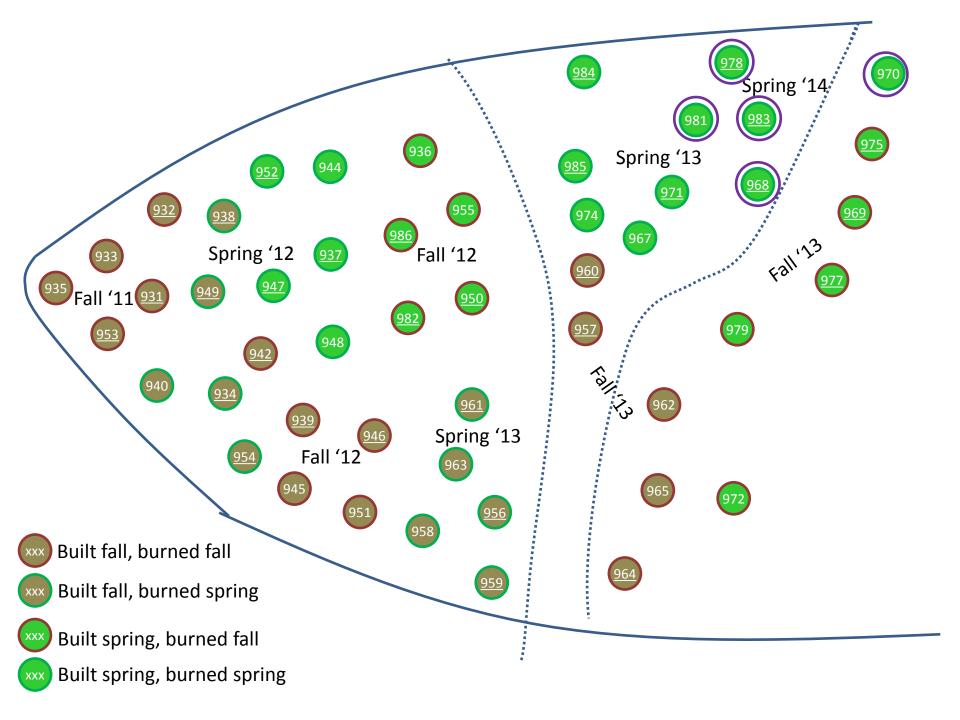


Controlled experiment

5 Ages X two seasons X 5 piles = 50 piles









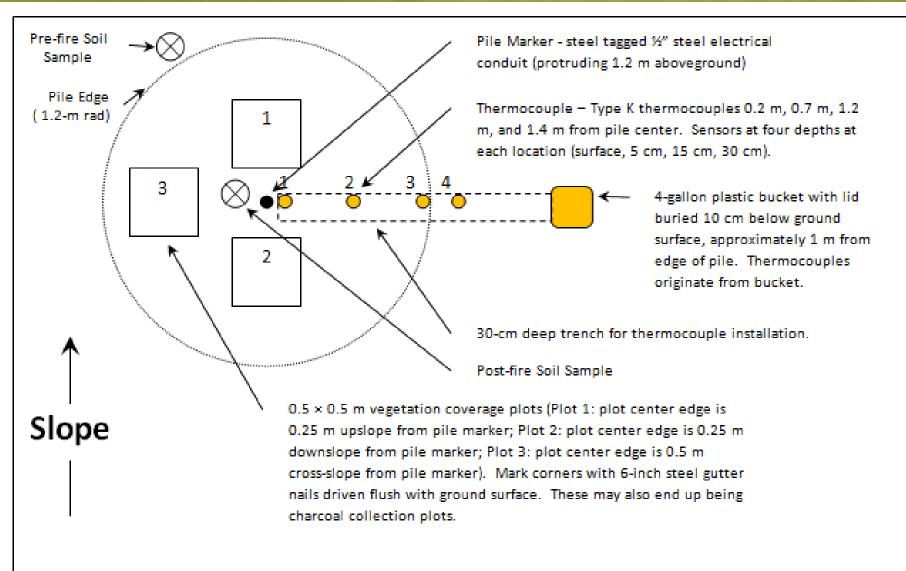


Figure 2. Pile, vegetation plot, and thermocouple layout.

Measuring soil temperature

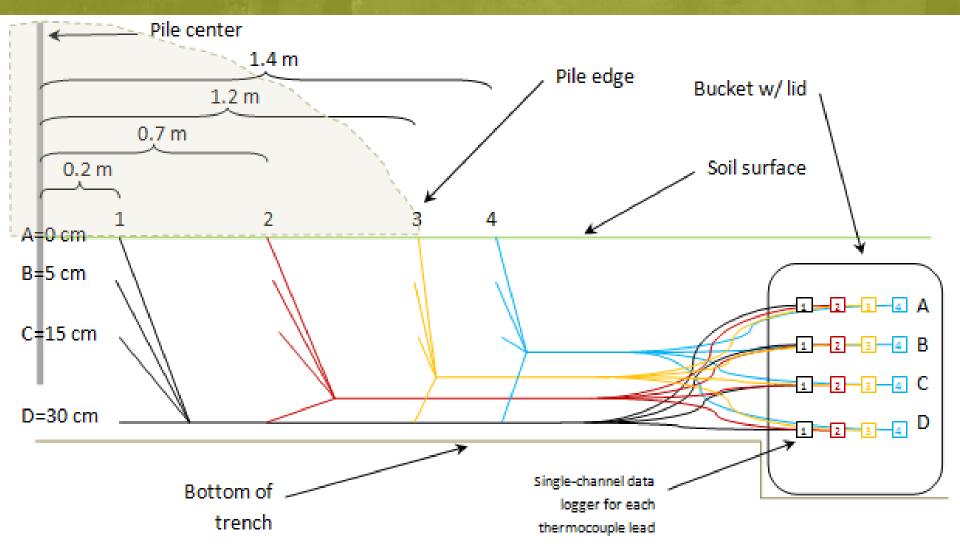


Figure 3. Thermocouple installation diagram.

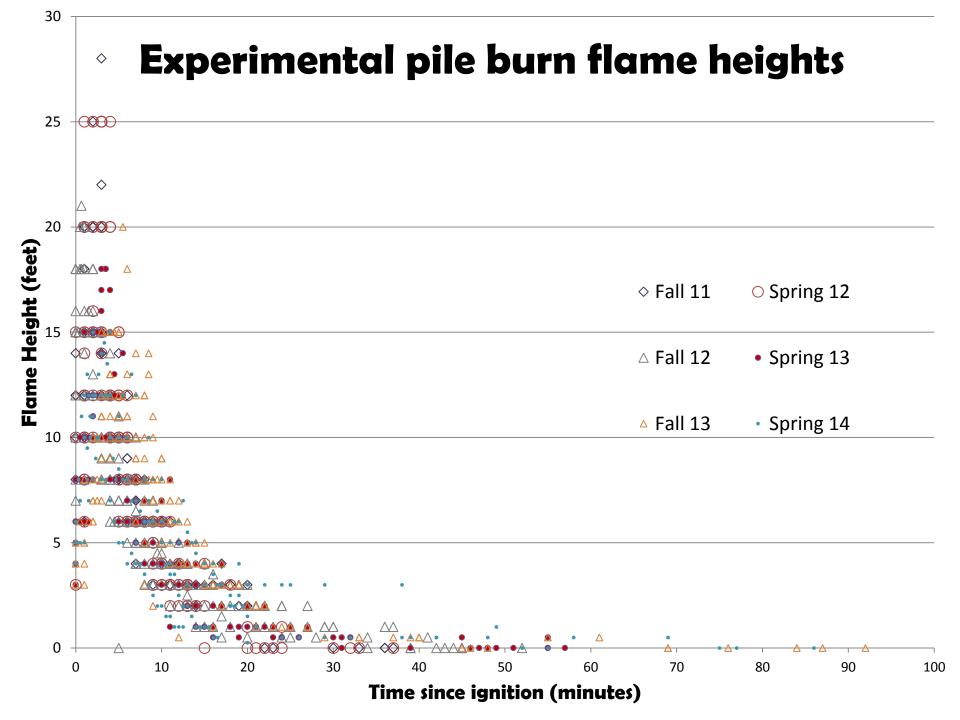


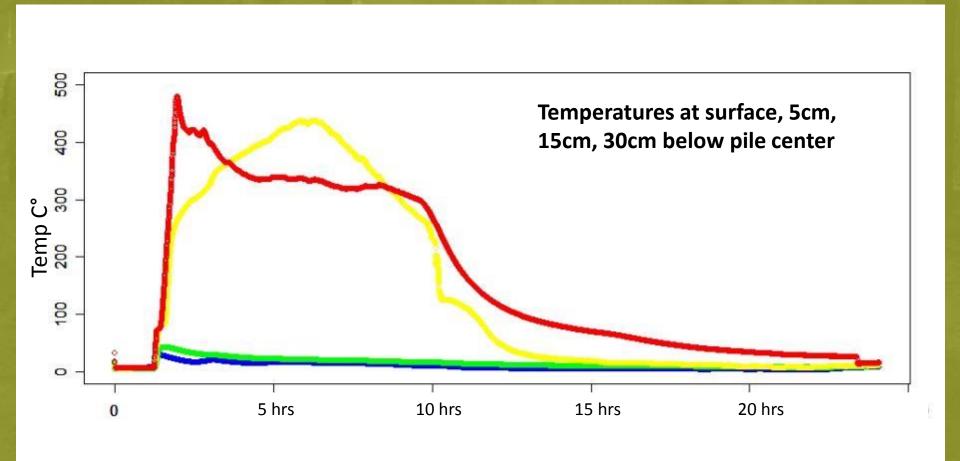






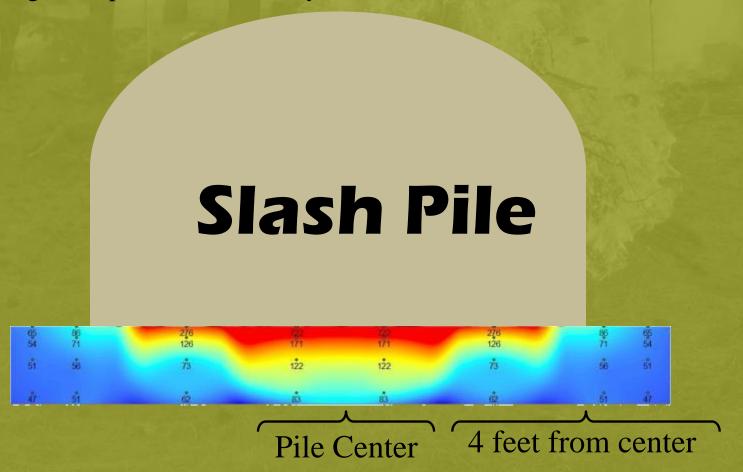


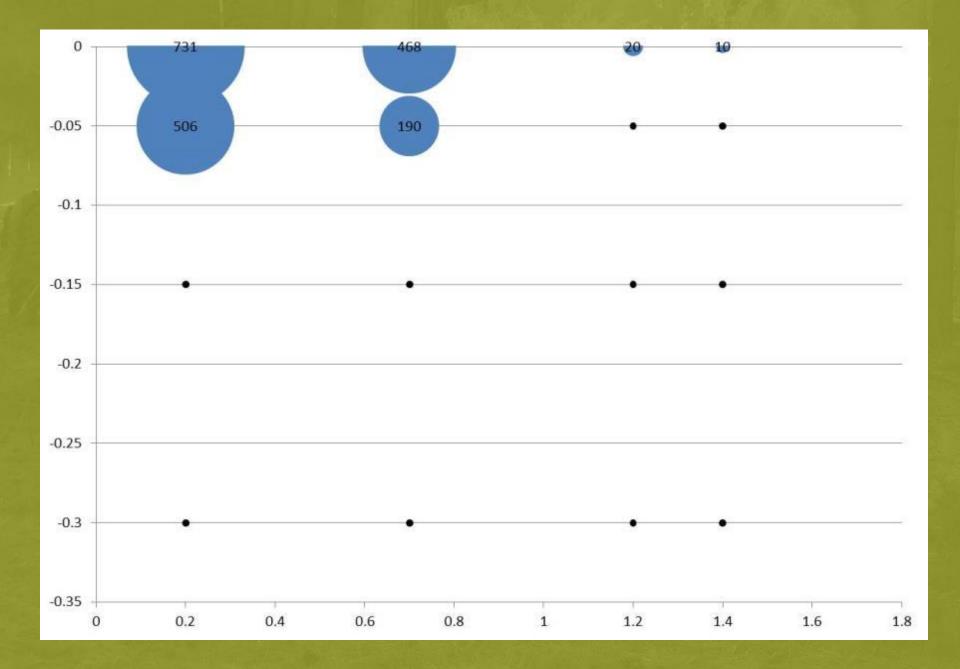


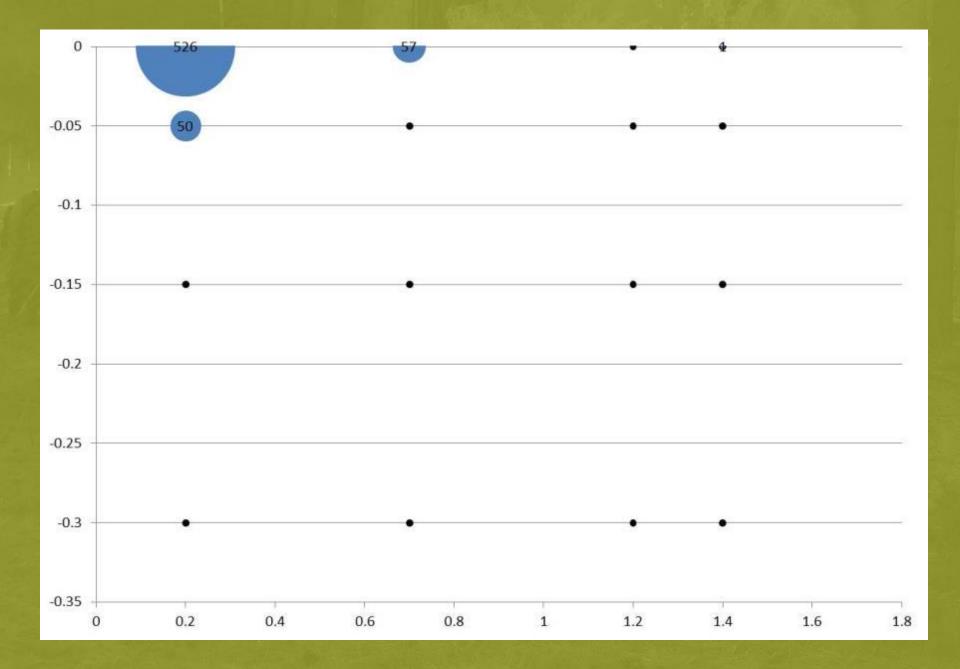


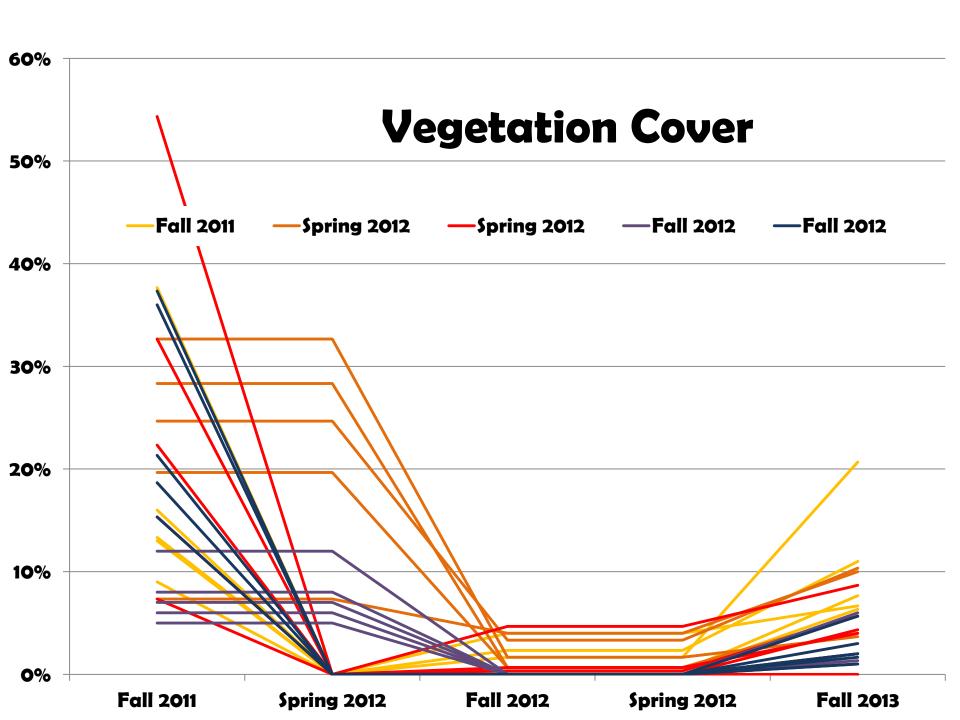
Initial data show that temperatures were over 700°F right under the pile, but at the edges temperatures were only in the 80s.

Initial data show that temperatures were over 700°F right under the pile, but at the edges temperatures were only in the 80s.



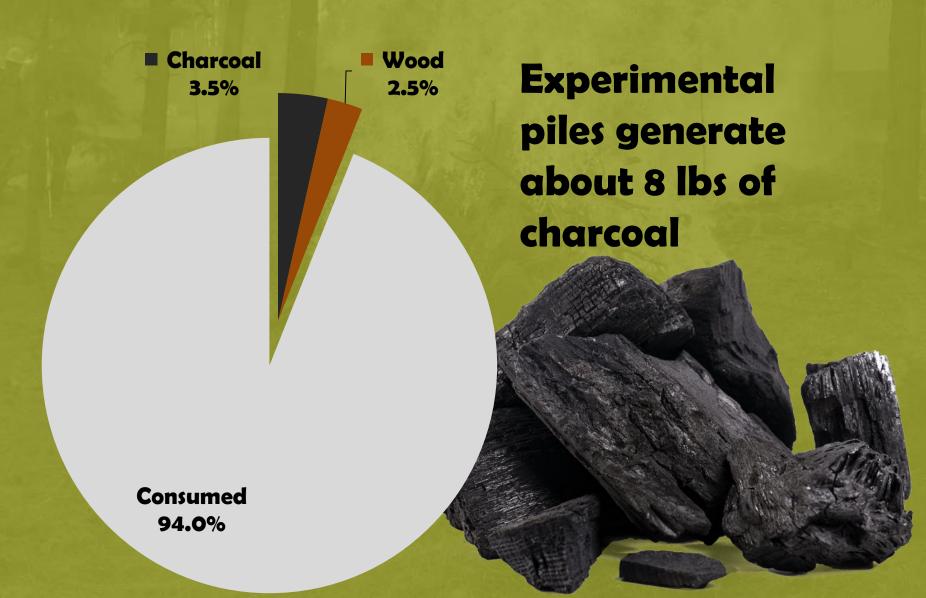








Consumption



Still to do!

- · Soils!
- More vegetation sampling
- Finish charcoal
- Analyze data with fuel moisture data





The Forest Guild's Mission: To promote ecologically, economically, and socially responsible forestry as a means of sustaining the integrity of forest ecosystems and the human communities dependent upon them.