

Restoring the West Workshop: Aspen Genetics and Phytochemistry

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Recommendations for future work: Genetics

- Genetic diversity and genome structure/architecture
- Life History Strategies
 - Sexual / vegetative reproduction
 - Growth form / rate
 - Persistence or longevity
 - Classification
 - Resistance / resilience
 - Pathogens, herbivores, climatic variables
 - Geographic variation

Genetics, cont.

- Interspecific community composition
- Management / Education

Recommendations for future work:

Phytochemistry

- Mediation of Organismal Interactions
 - Plants, herbivores, pathogens, soil community
- Effects on Ecosystem Function
 - Nutrient cycling (N cycle)
 - C sequestration
 - Seral successional processes
 - Geographic mosaic (differences thereof)

Future Directions / Follow-up

- Large scale demonstrations with multiple genotypes in common gardens
 - Multiple gardens across environmental gradients
- Extensive / intensive field surveys of aspen genetics
 - Clone size/vigor
- Develop aspen classification system

Future Directions / Follow-up cont.

- Education / Outreach
 - Land managers & landowners
 - Environmental education associations
 - Natural Resource Districts
 - Demonstration landscapes
 - Applications of genetics / etc.
- Additional workshops, etc. (W.A.A.)
- Facilitate interactions between scientists and land managers