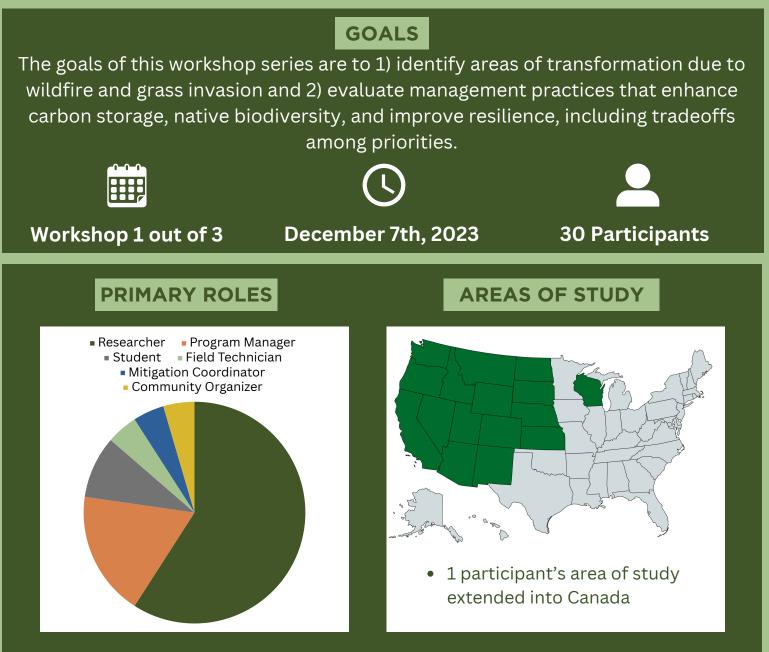


Report Summary

Fall 2023 Ecological Transformation Workshop



3 TALKS

Introduction to Ecological Transformation (Wynne Moss, USGS) - Wynne's slides here

Drivers and Well Known Examples of Transformation (Emily Fusco, University of Washington - Climate Impacts Group/NW RISCC)

Workflow for Monitoring Transformation (Nayani Ilangakoon, Earth Lab - University of Colorado Boulder) - <u>Nayani's slides here</u>

BREAKOUT SESSION RESULTS







Examples of ecological transformation identified

Many examples of grass invasion and fire

Identified key questions

Key takeaways:

- The interaction of grass invasion and fire was the most common example
- Managers working at different scales need different information
- Many systems are displaying a high degree of resilience in the face of wildfire and invasions

Examples of identified transformations:

- Increased fire and drought in sagebrush ecosystems promotes the spread of invasive grasses
- Conifer forests are now dominated by deciduous trees, shrubs, or grasses due to high-severity wildfire

Future questions to address:

- How do we identify and maintain refugia of native species?
- How do the effects of cheatgrass invasion differ in shrublands vs. grasslands?

Research from the NC RISCC will address:

- The consequences of transformations caused by invasive species
- How invasive species and wildfire management can change carbon storage









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