Learning to manage pinyon woodlands Working together with Tribes, a perspective from the Interagency Bishop Field Office-Inyo National Forest Vegetation Management Program

Management Program





Evolution of our thinking about managing pinyon* woodlands as a part of the entire landscape

- Working together with Tribes, developing trust, blending traditional methods and knowledge with western forestry
- Incorporating pinyon woodland health as a goal in all projects in and near woodlands
- Mitigating threats to pinyon woodlands (fire and climate change)
- · Creating edges of woodlands that are good for wildlife
- Making very site-specific plans based on what we can learn about that site
- Working with researchers to learn more about response to treatments and wildlife use including pinyon jay

^{*}In the eastern Sierra region managed by the Bishop Field Office and Inyo National forest most of the pinyon-juniper woodlands are dominated by pinyon so this presentation will focus on pinyon.

Starting point 15-20 years ago

- Pinyon projects were driven by one of two objectives:
 - fuel reduction/community wildfire protection goals or
 - sagebrush restoration goals
- Tribes were informed of project design and given an opportunity to consult as required by law and policy but not a part of the project development.
- Projects were treated using a relatively uniform prescription derived from forestry methods in other forest types (individual tree spacing or clumps with uniform spacing)

Example old treatment with fuels reduction and community protection goals



Example old treatment with sagebrush restoration goals



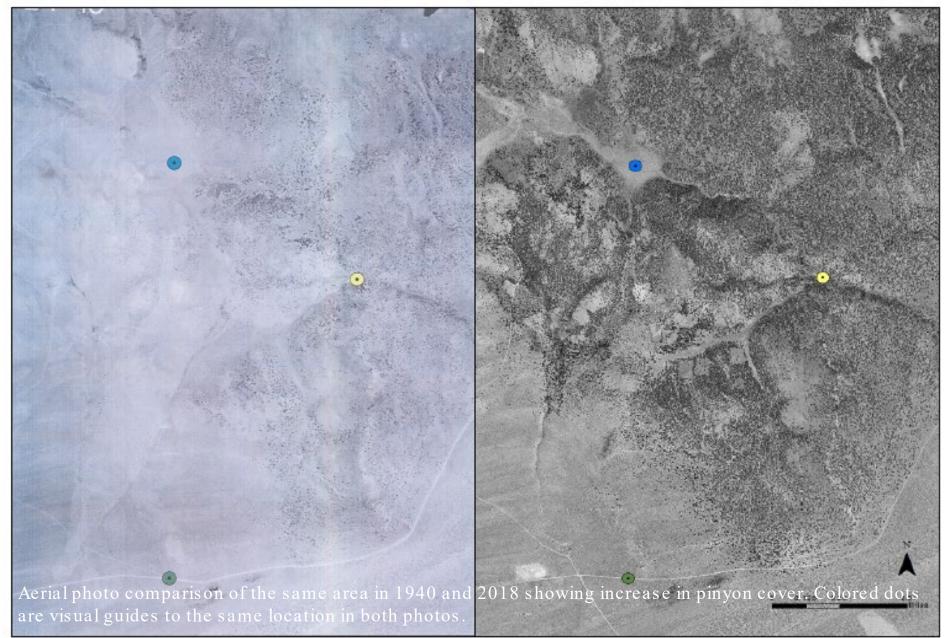
Pinyon woodland patterns in the Bodie Hills





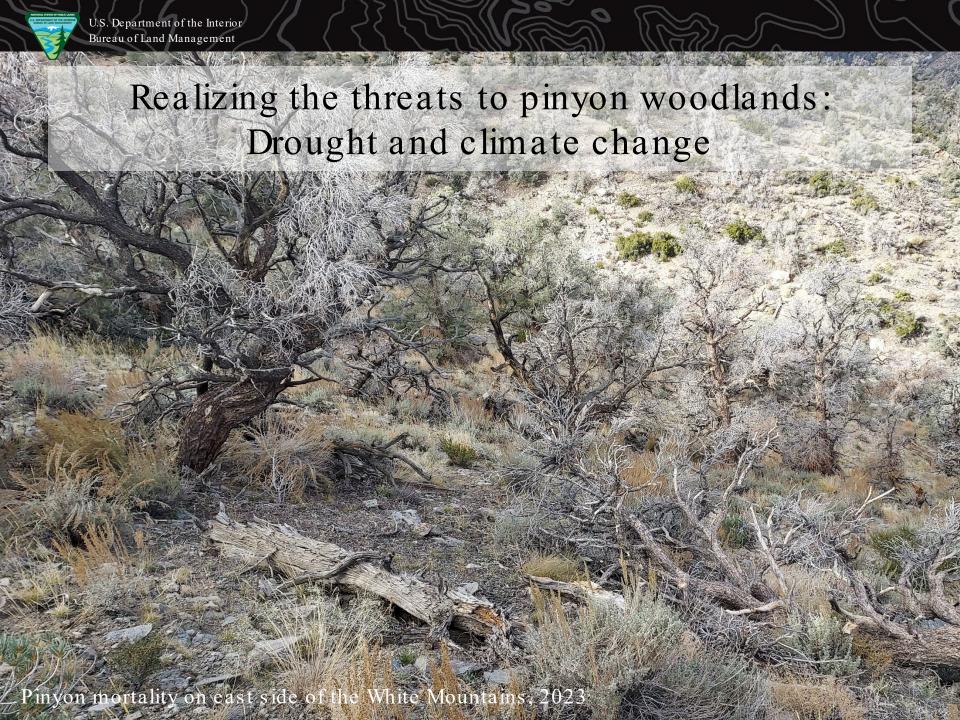
Rancheria Gulch Area in 1940

Rancheria Gulch Area in 2018



Realizing the local threats to pinyon woodlands: Wildfire



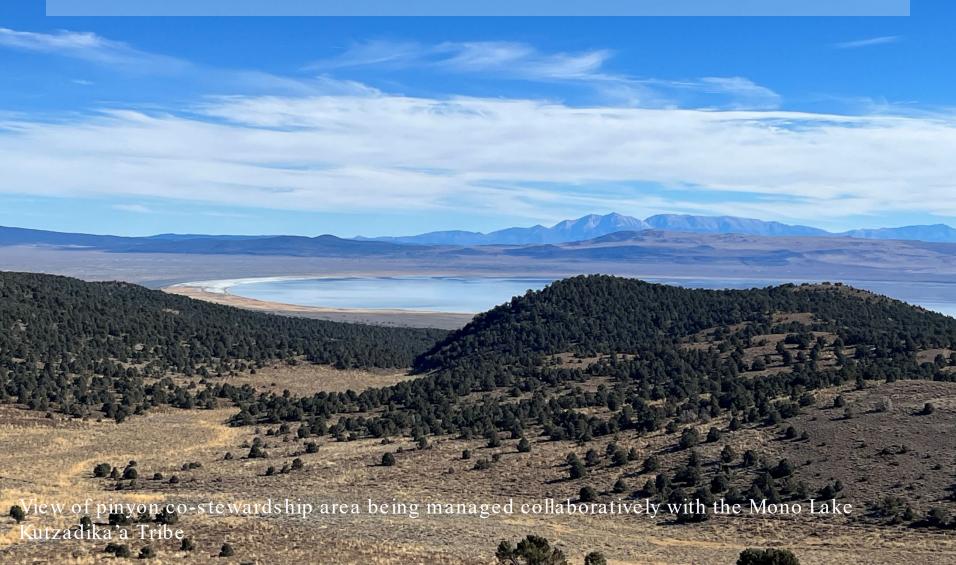


Tribes and local Native people made their voices heard





Pinyon Co-Stewardship Area with Mono Lake Kutzadika'a







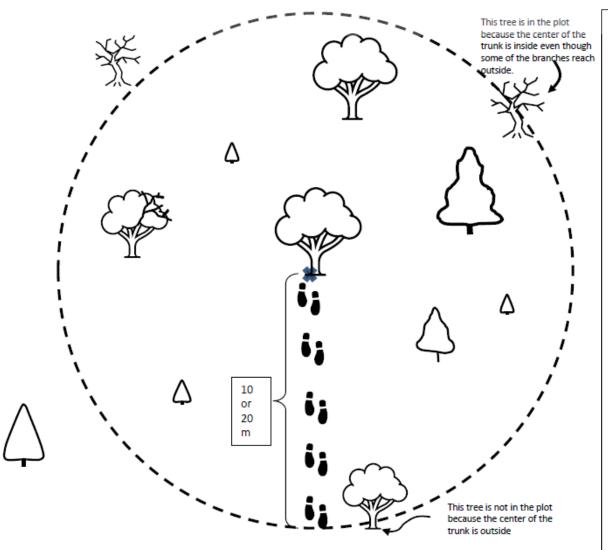
Adjacent sagebrush project also designed to benefit woodlands

View of completed sagebrush restoration project also designed to protect the woodlands and provide edge habitat





Tribal citizen science pinyon monitoring protocol developed with the Bishop Paiute Tribe



Plot Layout:

- Pick a center point
 It is good to use a tree to avoid having your plot be mostly a natural opening.
- Use your paces (steps) to measure out your plot.
 - If you know how many steps you have in 10 meters, use that. If you don't know, assume that you have about 20 steps (one foot at a time) in 10 meters.
- If you have 3 or more mature trees in circle 10 meters from your center, use that. If you have too few trees, use a 20meter (approx. 40 step) plot.

Trees are in the plot if the center of the trunk is inside your paced distance. If the center of the trunk is outside, then don't count that tree even if the branches reach over the plot.

