

Where should we work and what should we do?

Intermountain West Joint Venture

About the IWJV

The IWJV's vision: An Intermountain West where people, birds, and other wildlife thrive.



www.iwjv.org

About the IWJV

Our approaches



Science-to-implementation

Strategic communications

On-the-ground capacity

Partnership development

Government relations



Why do we care about pinyon-juniper?



Conservation benefits



Partnership spark



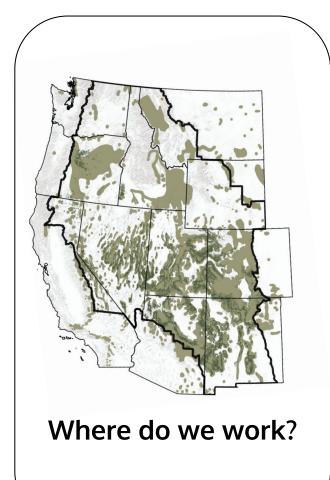
Strategic location

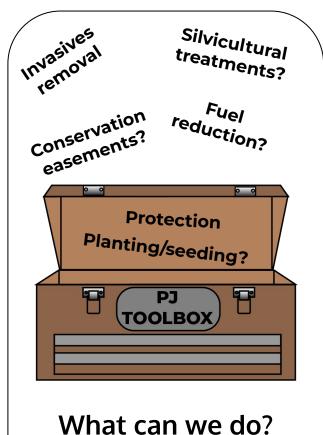


Funding & policy

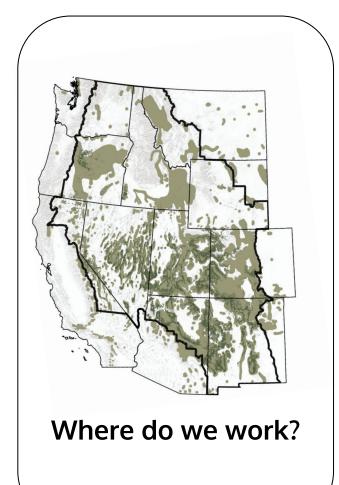


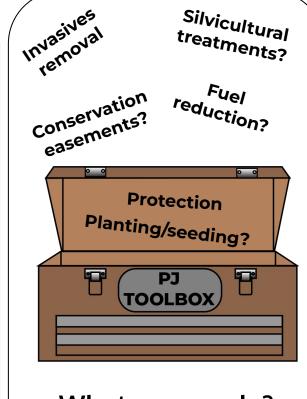
Knowledge gaps for managing pinyon-juniper woodlands





Coordination is needed to close knowledge gaps





What can we do?

Pinyonjuniper woodland learning network

Coordination & Funding

Multi-Agency and Interdisciplinary Participation

Part 1: Where?
Biome-Wide Spatial
Assessment of Threats and
Values

Part 2: What?
Experimental Assessment
of Treatments and Effects
on Woodlands, Wildlife

Technical Transfer and Outreach to Managers



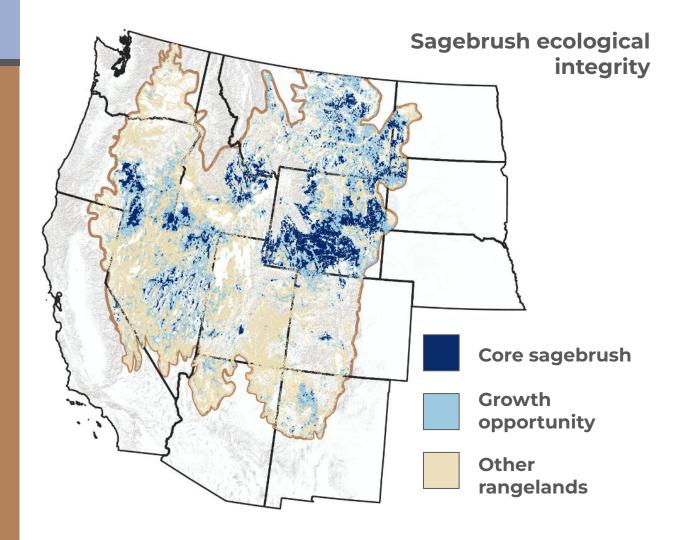
Values

Wildfire risk
Invasives
Drought
Insects
Disease
Land conversion
Low regeneration
...and more!

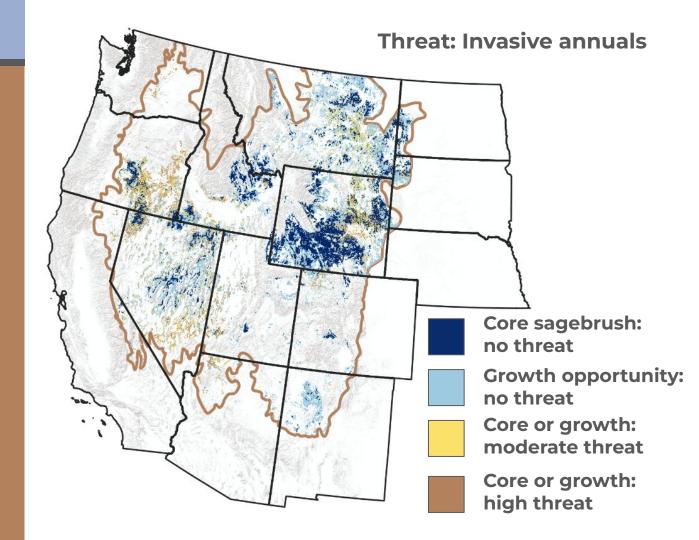
Tribal importance
Old growth
Recreation
Hunting
Wildlife habitat
Ecosystem
services
Climate resilience
...and more!

Where is this on the landscape?

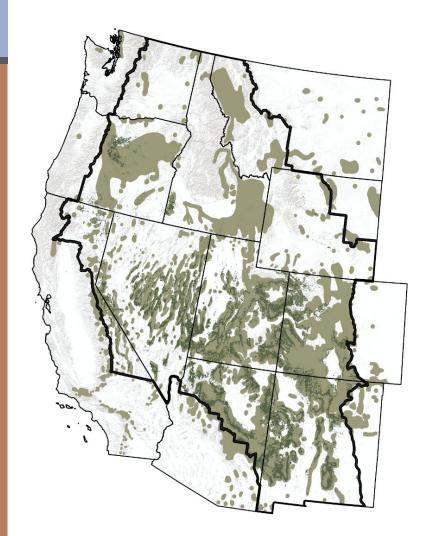
The Sagebrush
Conservation
Design as an
example
biome-wide
framework



The Sagebrush Conservation Design as an example biome-wide framework



First steps: Assessing threats and values



What would it look like for a group of researchers and managers to co-assess threats and values at the biome scale?

...To reduce the likelihood of drought- and beetle-induced tree die-off events?

...Following droughtand beetle-induced tree mortality events?

...To prevent
wildfire-facilitated
landscape
conversion to
invasive species?

...To protect or improve wildlife habitat?

SW Colorado
Pinyon-Juniper
Adaptive
Silviculture
Project



Experimental treatments



Variables being monitored



Tree health

Tree mortality
Pine nut production
Tree regeneration
Disease and pathogen prevalence

Understory health and groundcover ————

Understory plant cover (by species) and diversity
Ground cover (bare soil, biological soil crust, litter, etc.)

Fire behavior

Down wood / fuel loads by size class (feed into fire behavior modeling, also potentially important for tree disease risk)
Canopy structure (terrestrial lidar scans)

Key collaborators

Miranda Redmond U.C. Berkeley

Ali Urza U.S. Forest Service

Peter Weisberg and Krisi Ramsey University of Nevada, Reno

John Bradford U.S. Geological Survey

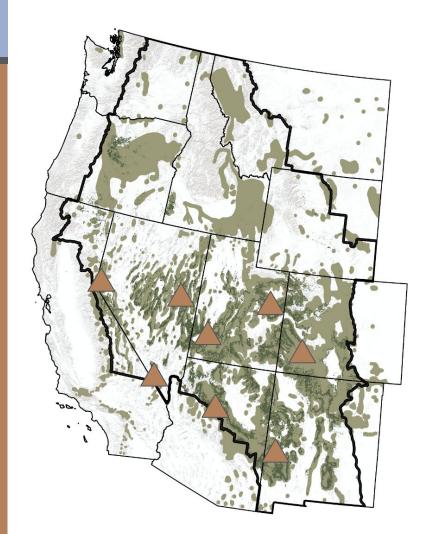
Chad Hoffman Colorado State University

Ian Barrett, James Savage, Tyler Corbin, Nathaniel West, and Chris Domschke BLM

Rosie Frederick University of California, Berkeley



Assessing experimental treatments across the biome



What would it look like to replicate experimental treatments within ongoing management efforts across the biome?



What do we need to move forward?

Coordination & Funding

Cross-Agency and Interdisciplinary Participation

Part 1: Where? **Assessment of**

Biome-Wide

Spatial

Threats and

Values

Part 2: What? **Experimental** Assessment of Treatments and Effects on Woodlands, Wildlife

IWJV has capacity

Could this be you?

ISO:

- Researchers working on spatial assessments
- Managers implementing treatments interested in collaborating on research

Technical Transfer and Outreach to Managers

IWJV has capacity

Thanks!



Interested in working with us? Please reach out.

Mariah McIntosh
Science to Implementation Specialist
mariah.mcintosh@iwjv.org

Andrew Olsen
Science to Implementation Coordinator
andrew olsen@iwiv.org



INTERMOUNTAIN WEST