

SUSTAINABLE SAGEBRUSH COUNTRY: SUPPORTING WILDLIFE AND RANCHING

Vanessa Schroeder

Faculty Research Assistant

Vanessa.Schroeder@oregonstate.edu

541-573-8936



Oregon State
University

Contemporary grazing and avian habitat

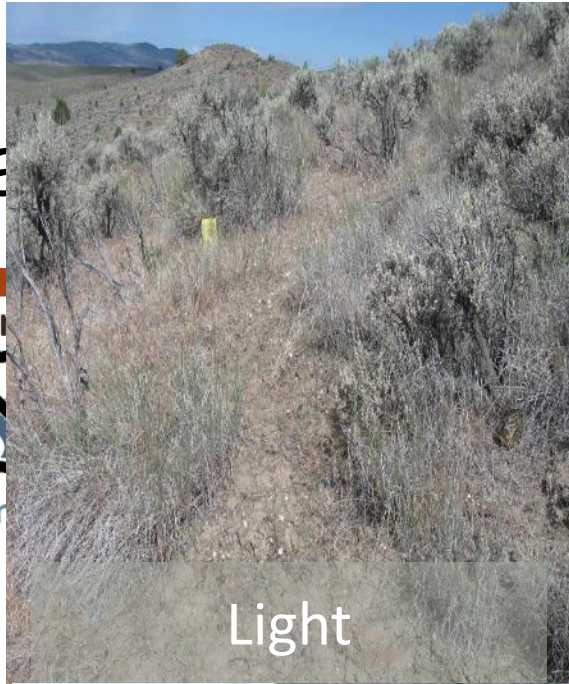
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-

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Contemporary



Light



Moderate



Heavy



Severe

Jan



Con

Dec.



Filling Knowledge Gaps



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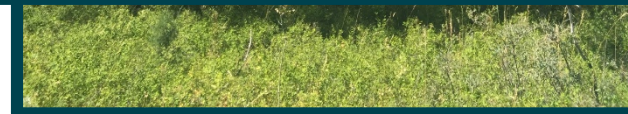


Multi-Species Effects of Juniper Removal

-



[Play Video](#)



Threat Based Land Management



Intact native shrubland



Annual grassland



Shrubland or grassland with encroaching juniper and annual grass understory



Juniper woodland with annual grass understory



Shrubland with encroaching juniper



Juniper woodland with native perennial understory



Juniper woodland with denuded understory

Minimal threats expressed



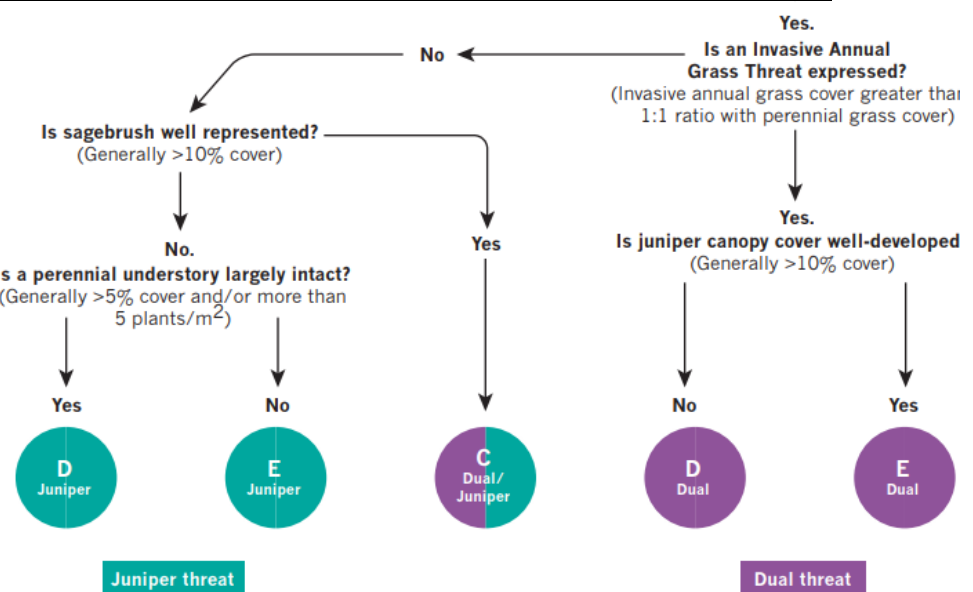
Is sagebrush well represented?
(Generally >10% cover)

Invasive annual grass threat



Is sagebrush well represented?
(Generally >10% cover)

Up Next: Mesic Models



QUESTIONS?



Vanessa Schroeder

Faculty Research Assistant

OSU Extension Service

Eastern Oregon Agricultural Research Center

Vanessa.Schroeder@oregonstate.edu

541-573-8936



@SageHabitatTeam



Oregon State
University

EOARC/OSU Rangeland Science and Outreach Program



Dustin Johnson

OSU Rangeland Outreach Coordinator
Eastern Oregon Agricultural Research Center - Burns



**Oregon State
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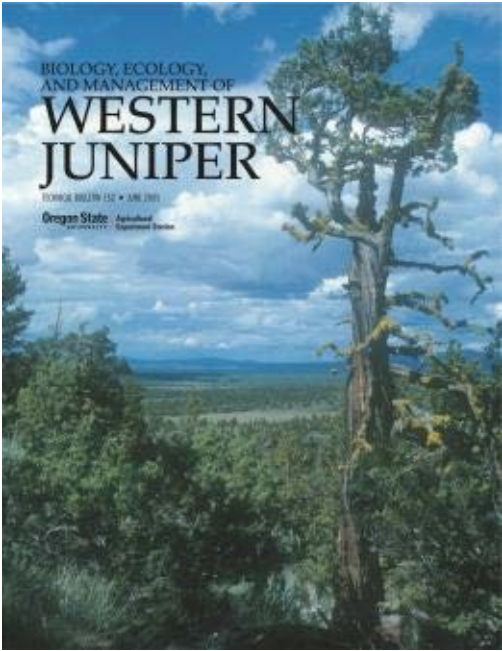
Major Roles as OSU Rangeland Outreach Coordinator

- (~ %)
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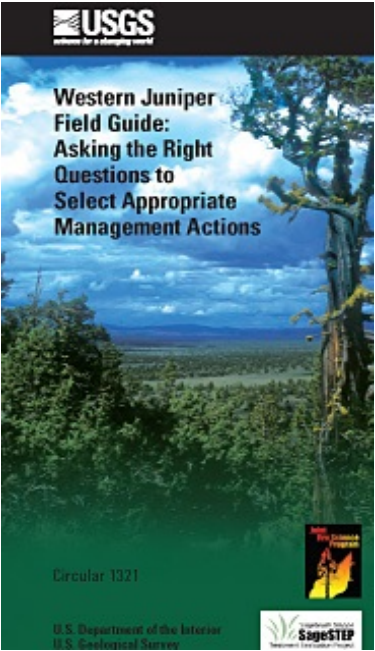
Strategy: Expand outreach through synthesis, educational content, and curriculum development.



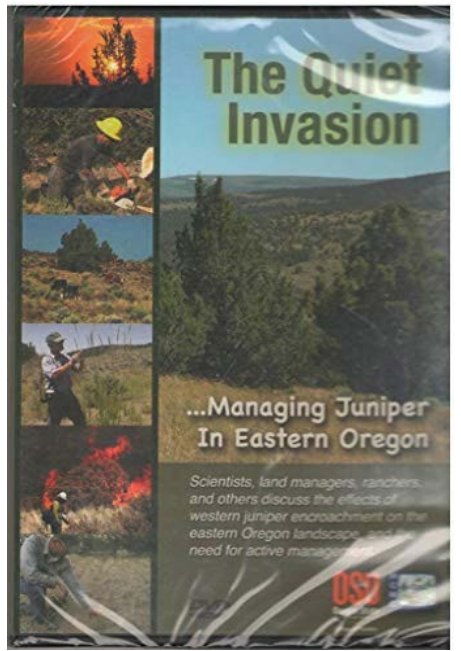
EOARC and Other Science



Syntheses/Manager's Guides

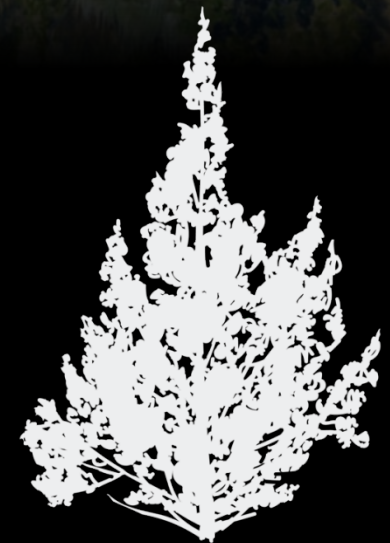


Field Guides



Videos, PACE Courses, Field Schools, etc.

Threat-Based Land Management



Threat-Based Land Management in the Northern Great Basin: A Field Guide



Managing a complex world at feasible, relevant scales



Threat-Based Land Management in the Northern Great Basin: A Manager's Guide



Managing rangeland complexity at feasible, relevant scales

Authors: Deborah A. Clark, Daniel B. Clark, Rebecca A. Korman, Lee A. Barber, Angela M. J. G. Baker, Tracy Ruppner and Joshua C. Crippen



FWA 732
September 2018

Threat-Based Land Management in the Northern Great Basin: A Field Guide

2 Understanding Threats



3 Understand States: See Back

4 Choose Map Unit Scale & Delineate States



5 Determine Apparent Trend



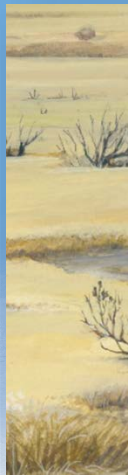
6 Recommended Actions



Threat-Based Land Management Professional and Continuing Education

Google Earth/GIS and Land Management Planning Hybrid and PACE Courses

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-
-
- Mapping —
-
-



McIntyre Ecological State Indicators of Assessing apparent trend Indicators of

State A (IAG)
 Relationship between shrub abundance and fine fuels in shaping *wildfire risk

Fuel Condition Class	Description
1	Low probability of fire ignition and spread. Low probability of perennial bunchgrass mortality.
2	High probability of fire ignition and spread. Low probability of perennial bunchgrass mortality.
3	Low probability of fire

Increasing fine fuel amount & continuity

Bohnert - Research



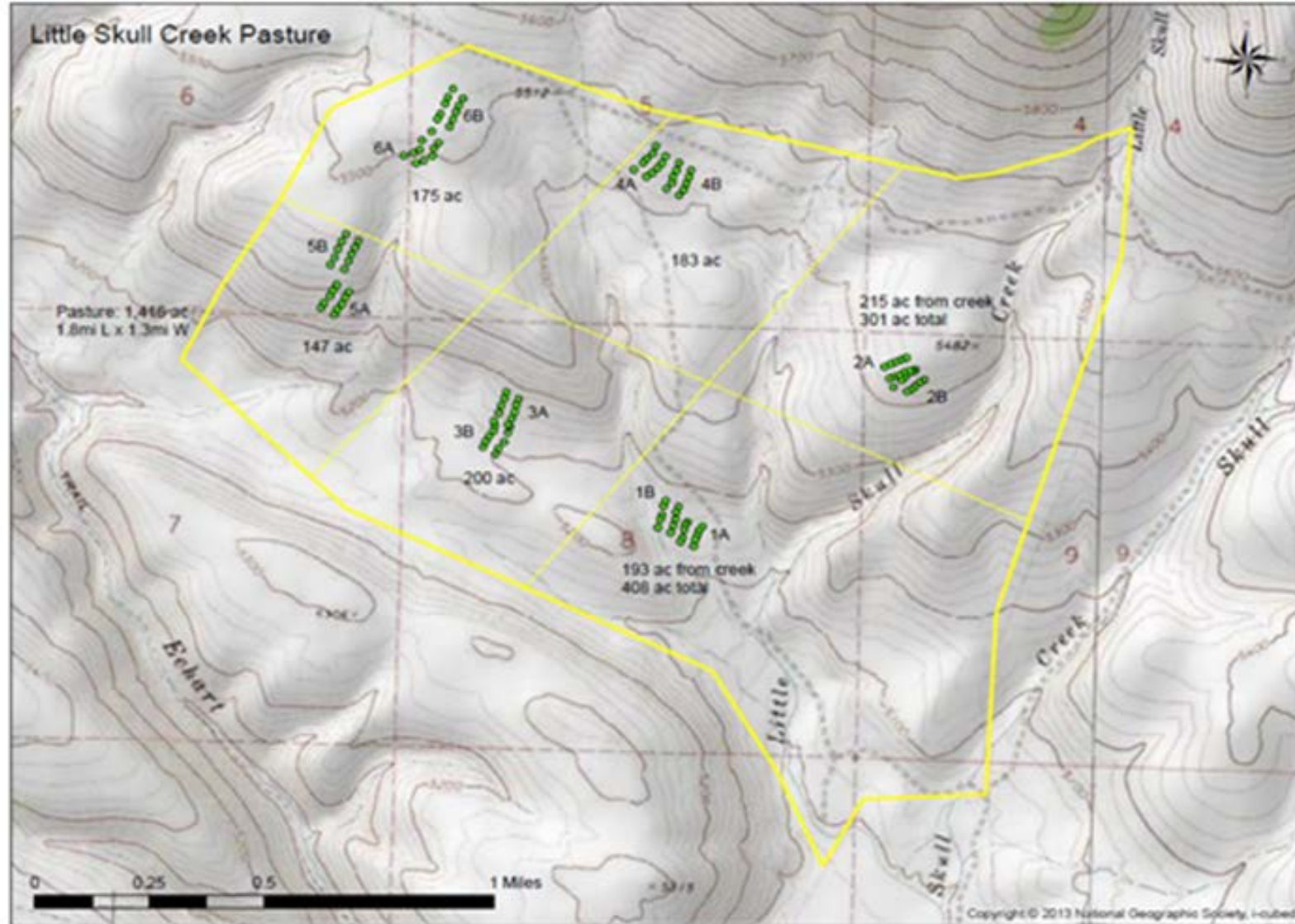
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Interspace/Undercanopy Foraging Patterns of Horses in Sagebrush Habitats: Implications for Sage-Grouse

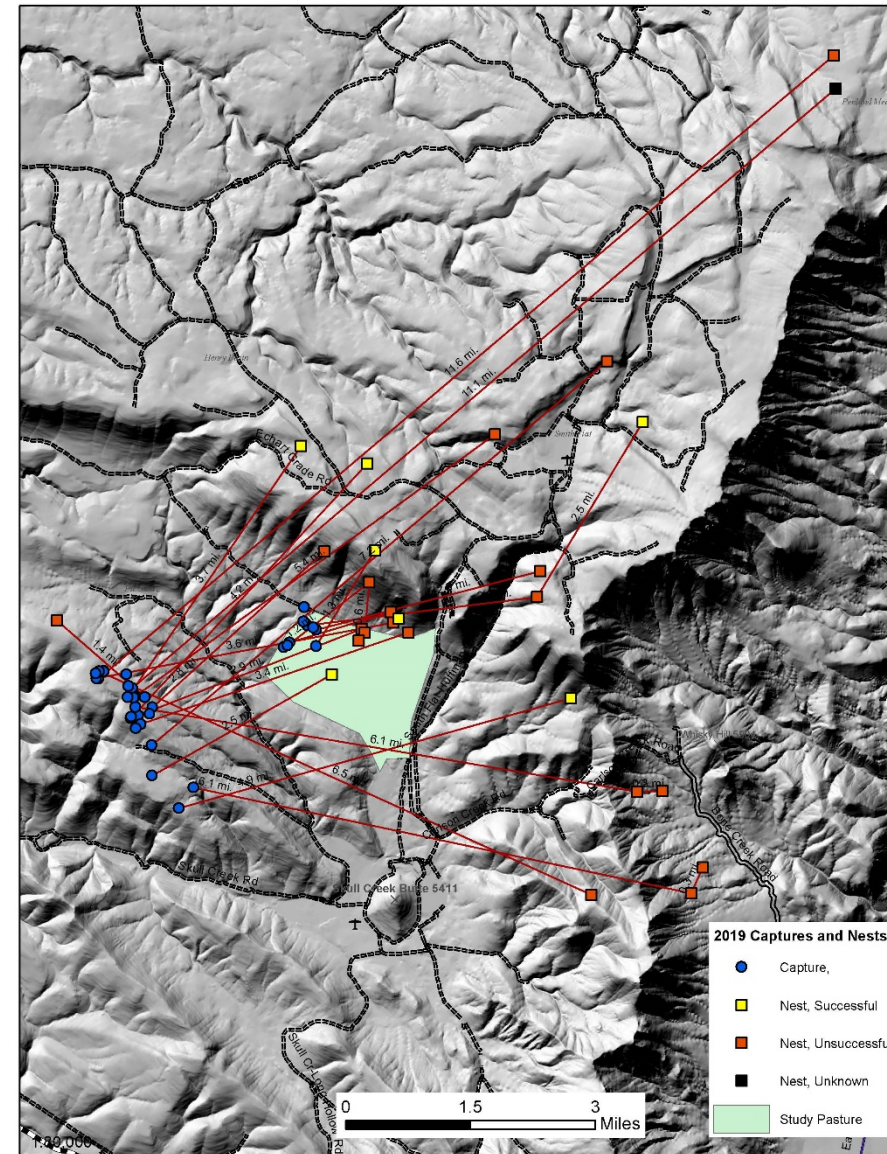
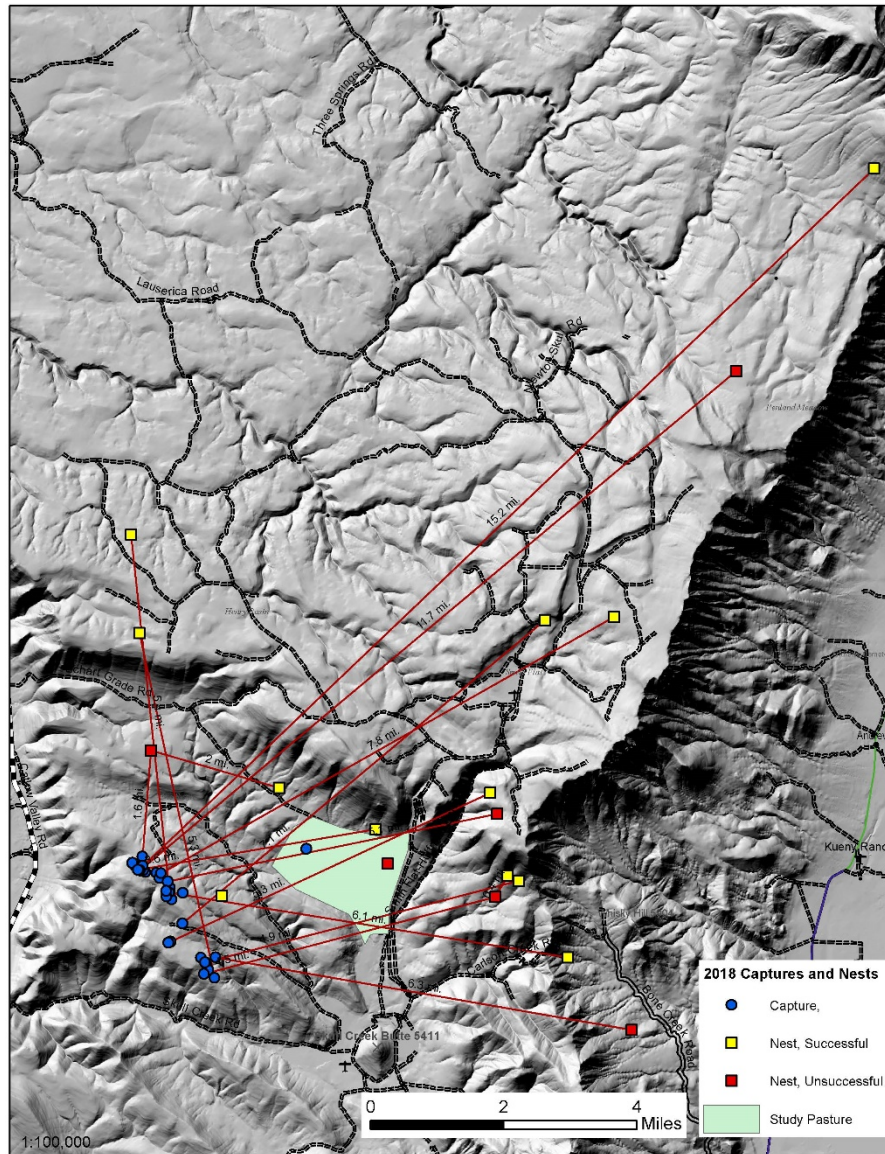
- Case study approach to determine the impacts of season-long horse grazing on:
 - Sage-grouse nesting habitat structure and composition
 - Sage-grouse nesting behavior within active nesting habitat located near a water source
- Duration
 - *4 years*
 - *Beginning year 3*
- Horse Grazing
 - *Will begin 2020*
 - *1 horse/100 acres; 1400 acres*
 - *April through November*
 - *GPS Collars*
- Sage Grouse
 - *Collar birds at lek*
 - *Nesting locations*



Interspace/Undercanopy Foraging Patterns of Horses in Sagebrush Habitats: Implications for Sage-Grouse



Interspace/Undercanopy Foraging Patterns of Horses in Sagebrush Habitats: Implications for Sage-Grouse

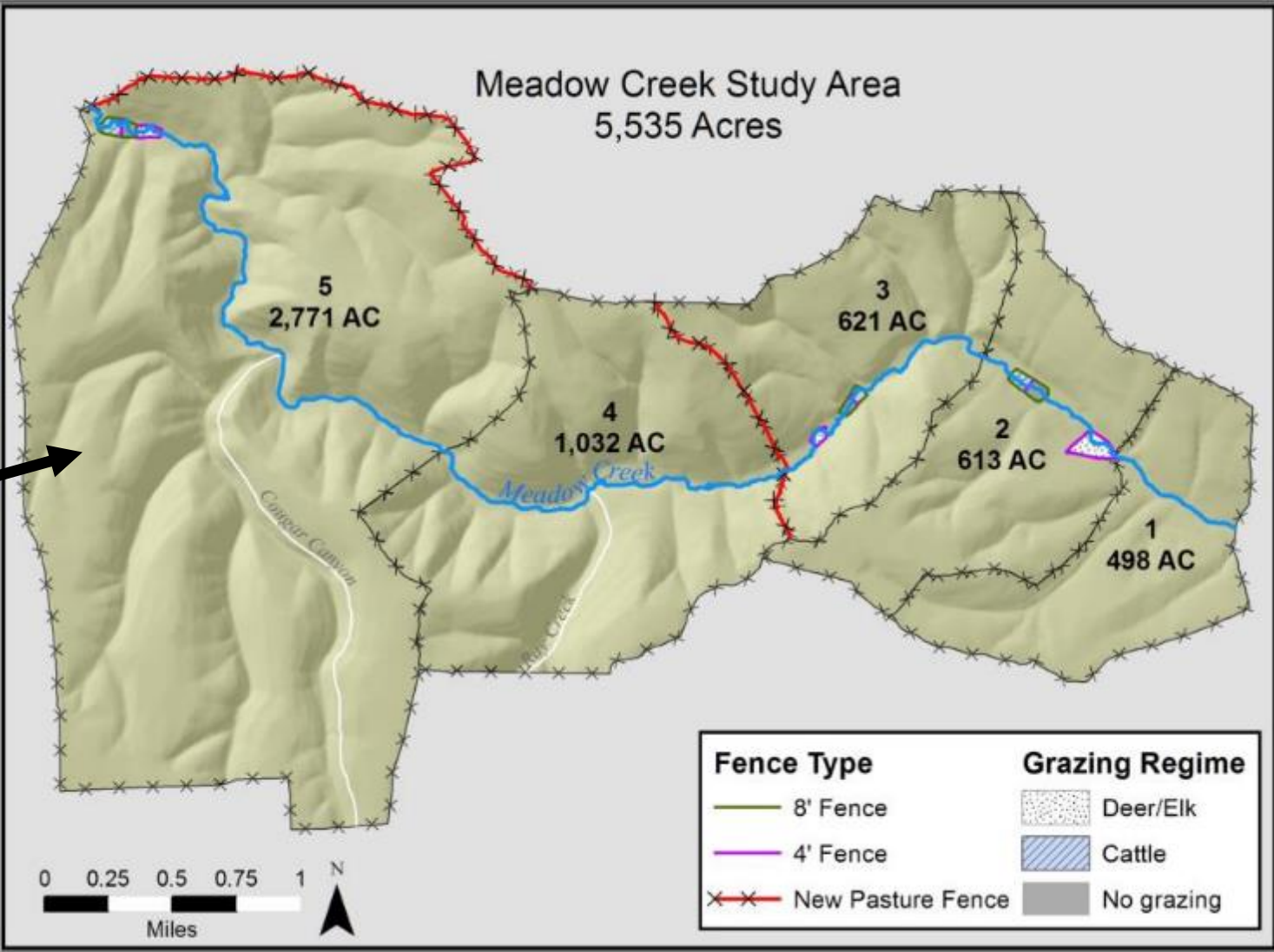
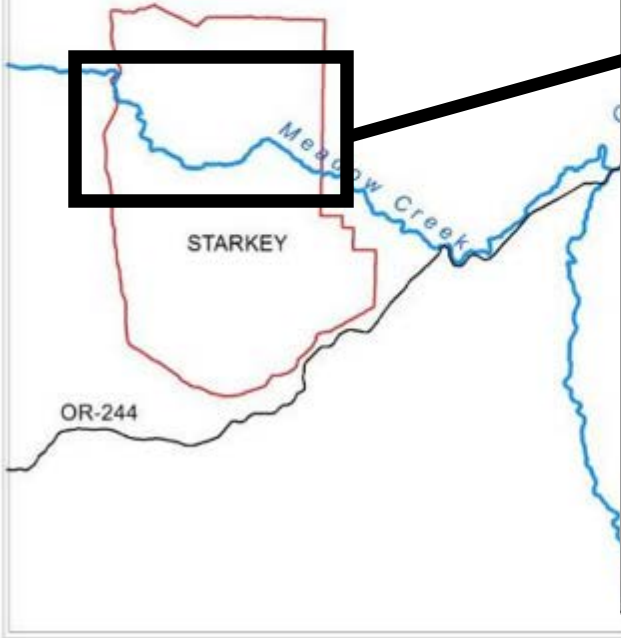




Starkey Experimental Forest



Meadow Creek, tributary to Grande River in Columbia Basin. 7.5 mile reach within USDA Forest Service Starkey Experimental Forest area.



Bohnert - Outreach

- Management Tools

- CowCulator
- Across Breed EPD Calculator
- Ration Evaluation/Consultation

- Educational events

- AI School
- Range Field Day
- Experiential Learning Tours/Visits – College, K-12

- Oregon Cattlemen's Magazine

- Weekly Beef Producer Email

- Administrator for OSU Beef Cattle Sciences Website

- Administrator for Email Groups

- Livestock Marketing Information Center
- Forage and Livestock Faculty Workgroup
- COIN (CA, OR, ID, and NV extension agents and industry professionals workgroup)