

# *Case Study*

## *PLATEAU® Herbicide Effect on True Mountain Mahogany*

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# *Case Study*

## ❖ Objectives

- ✍ Determine effect PLATEAU® herbicide has on established true mountain mahogany plants

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- ✍ Determine effect PLATEAU® herbicide has on established true mountain mahogany plants
- ✍ Determine effect PLATEAU® herbicide has on true mountain mahogany regeneration
- ✍ Rate most effective to control spread of cheatgrass, and minimize effect on true mountain mahogany

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- ❖ True mountain mahogany wildfire
  - ✎ Occurred August 2000



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- ❖ True mountain mahogany wildfire
  - ✍ Occurred August 2000
  - ✍ Burned approximately 2,000 acres
  - ✍ Contained small downy brome areas
  - ✍ Cheatgrass proliferation following fire



# *Case Study*



- ❖ PLATEAU®  
Herbicide Application
  - Aerial application in  
October 2001

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## ❖ Plateau Herbicide Application

→ Aerial application in October 2001

→ Apply to 4-ten acre plots

→ 6, 8, 10, and 12 ounces per acre rates

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- ❖ **PLATEAU®  
Herbicide Application**
  - Aerial application in October 2001
  - Apply to 4-ten acre plots
    - 6, 8, 10, and 12 ounces per acre rates
  - Applied 6 and 12 ounce rates
    - Weather conditions

# *Case Study*



- ❖ **Herbicide Efficacy**
  - ⇒ 6 ounce rate
    - ✓ spotty control
    - ✓ cheatgrass present
    - ✓ musk thistle present

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## ❖ Herbicide Efficacy

⇒ 6 ounce rate

- ✓ spotty control
- ✓ cheatgrass present
- ✓ musk thistle present

⇒ 12 ounce rate

- ✓ complete control
- ✓ no cheatgrass presence
- ✓ musk thistle eliminated
- ✓ resurgence of native perennials



# *Case Study*



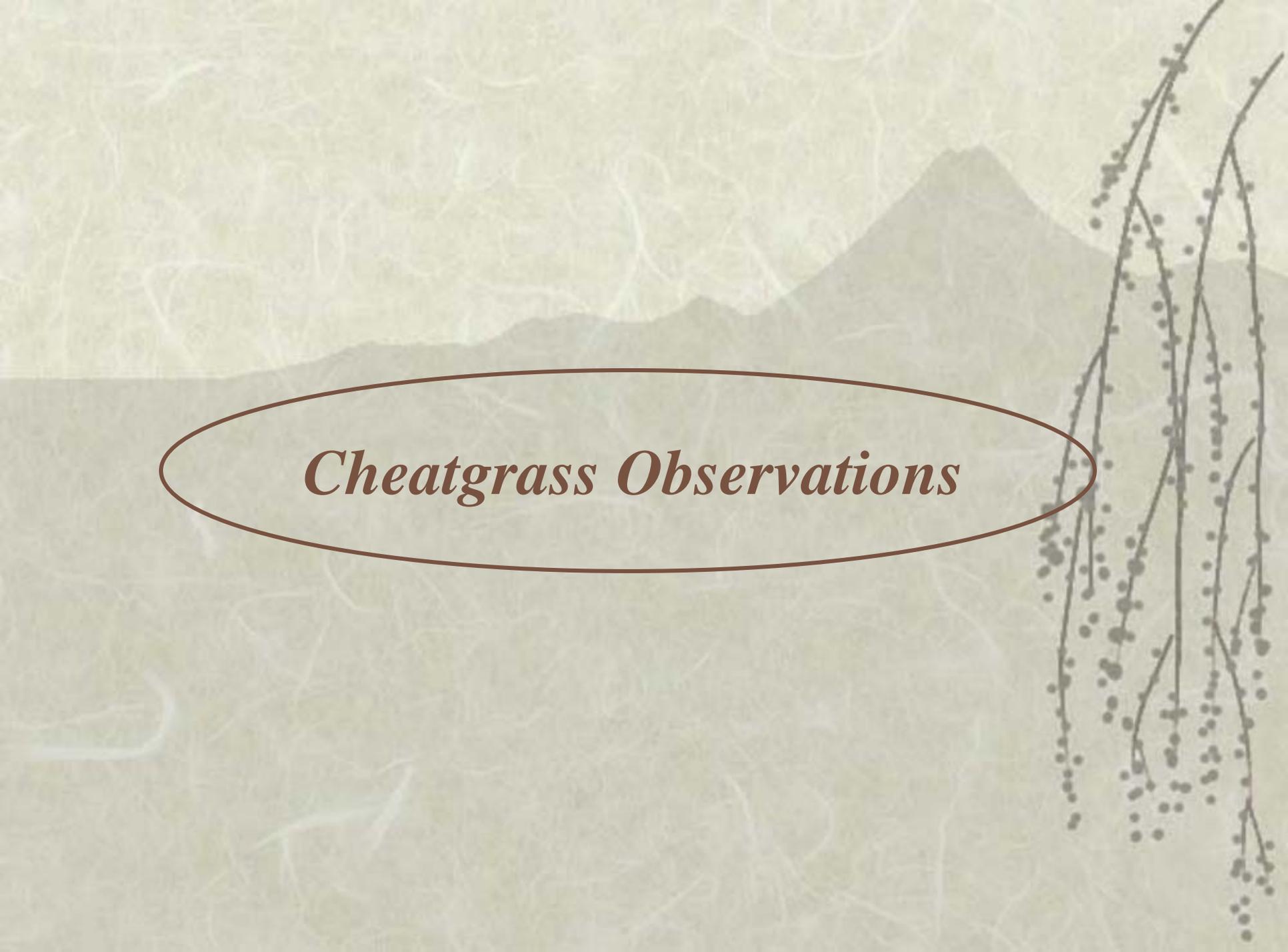
- ❖ True Mountain Mahogany Response
  - ⇒ stunted growth form
  - ⇒ rolled leaves
  - ⇒ plants appear to be set back

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## ❖ True Mountain Mahogany Response

- ⇒ stunted growth form
- ⇒ rolled leaves
- ⇒ plants appear to be set back
- ⇒ slowed regeneration
- ⇒ no documented mortality
- ⇒ one growing season post-application
- ⇒ extremely dry growing seasons

The background features a stylized, muted landscape. In the upper half, there are silhouettes of mountains in shades of light green and grey. In the lower right corner, a dark brown branch of a willow tree hangs down, adorned with numerous small, dark, round seed pods. The overall aesthetic is soft and naturalistic.

*Cheatgrass Observations*

# *Cheatgrass Observations*

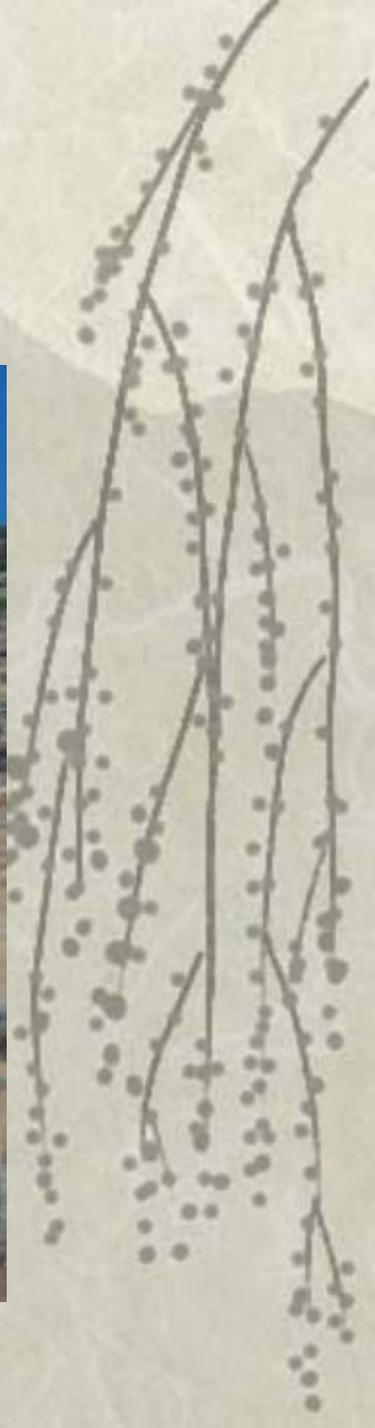


- ❖ Found above 6,000 feet
- ❖ Located on various aspects
- ❖ Present on various soil types
- ❖ Associated with different vegetative community types

# *Cheatgrass Observations*



# *Cheatgrass Observations*



# *Questions and Comments*

