

The Best Cheatgrass Control Program



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Plateau

- History
- Properties
- Proper use
- Tips for success
- Comparison to Rejurva
- Benefits of Plateau



Plateau History

- Registered in 1996
- BLM approval in 2007
- BLM rate set at 6 oz
 - ▶ Cheatgrass and Medusahead
 - ▶ Threshold rate – compromise rate to balance impacts
 - ▶ Longer lasting control at higher rates
- 20+ years of successful operational applications



Mis-Information / Mis-Understanding

- Use in spring applications
- Spray after cheatgrass has greened-up
- Spray cheatgrass and Medusahead very late into fall or early winter
- Nothing will germinate following application
- Plateau kills sagebrush and other woody native vegetation
- Cheatgrass control is poor and only provides one year of control

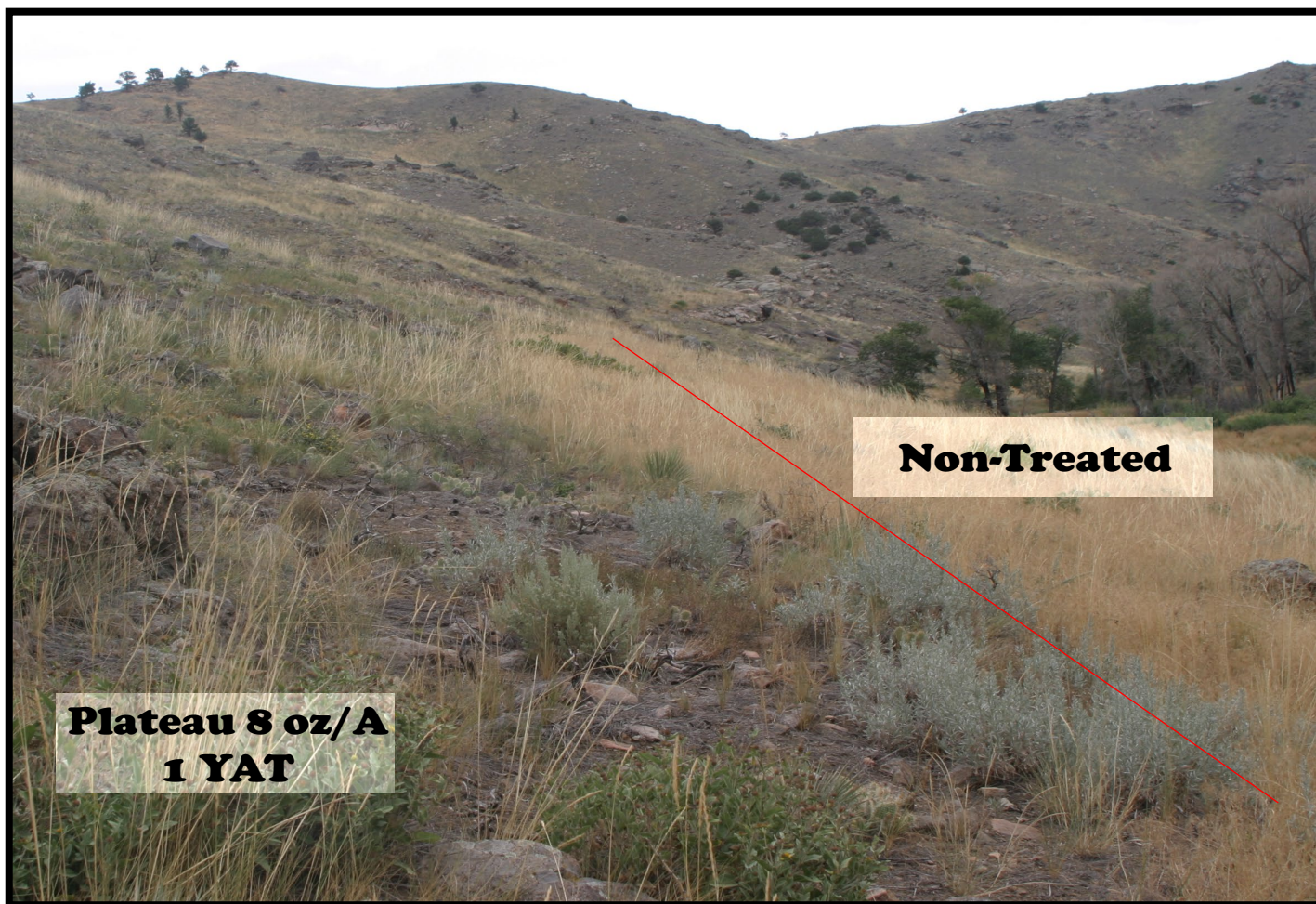
Plateau Mode of Action

- ALS Inhibitor
- Caution signal word
- Pre and early post-emergent activity
- Minimal woody species activity
- Controls cheatgrass and Medusahead pre-emergent
- Late summer timing (before green-up)
- Add glyphosate for burndown after cheatgrass green-up

Plateau Mode of Action

- Best activity when applied to mineral soil following fire
- Must have rainfall to activate
- Controls many weeds post-emergent
- Most legumes and warm season grasses are tolerant
- Plateau will release beneficial native and pollinator plants
- Length of control is based on rate and environmental conditions

Cheatgrass Control



Medusahead Control

- Native vegetation responds
- Shift of plants toward desirable native vegetation
- Years of experience in rehab efforts



Mountain Mahogany Release - Fort Collins, CO

Cheatgrass Control
Applied 11/9/15 - 7 MAT



5 oz. Plateau + 1% MSO

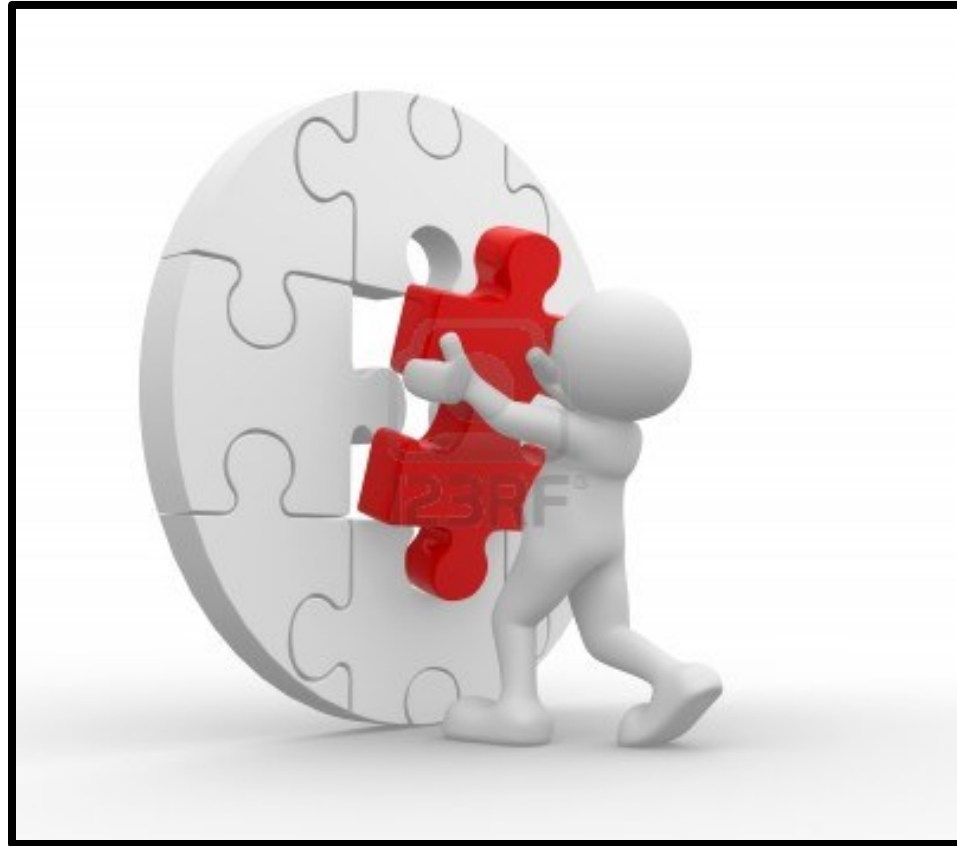
Native Vegetation Restoration

	Cheatgrass Pre-Treat	Cheatgrass Post Treat	Native Vegetation Pre-Treat	Native Vegetation Post Treat
Non-Treated	67%	75%	33%	25%
Plateau	84%	0%	16%	100%

6.12.2004

Factors That Influence Control

- Timing
- Thatch
- Rate
- Moisture
- Soil



Timing

- Use Plateau in August/October **BEFORE** Cheatgrass and Medusahead have emerged
- Add 8 oz. glyphosate + 1% MSO after green-up
- Use Post-emergent applications later in the fall for leafy spurge, Dalmatian toadflax or when trying to release desirable woody species



Thatch Removal

- Prescribed burn
- Heavy grazing
- Mowing/racking
- Other



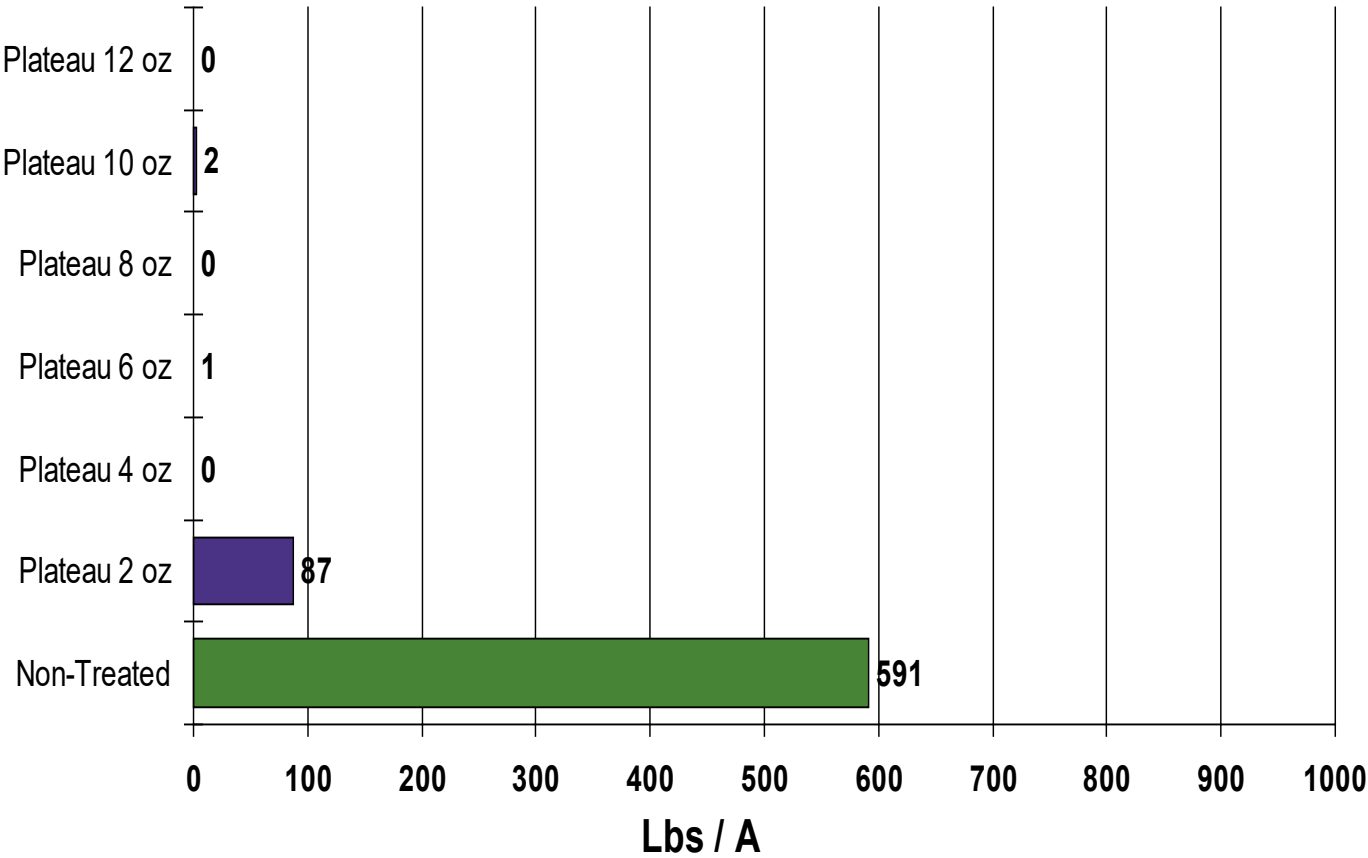
Rates

- Length of control dictated by rate, moisture and temperatures
- In many cases, 6-10 oz. per acre is the appropriate rate
- Use lower rates on sandy soils, soils with low pH or in cool dry sites.
- Add 1% MSO for ALL post-emergent applications
- Plateau controls cheatgrass for 3 years in most cases



Dry Weight Yields of Downy Brome

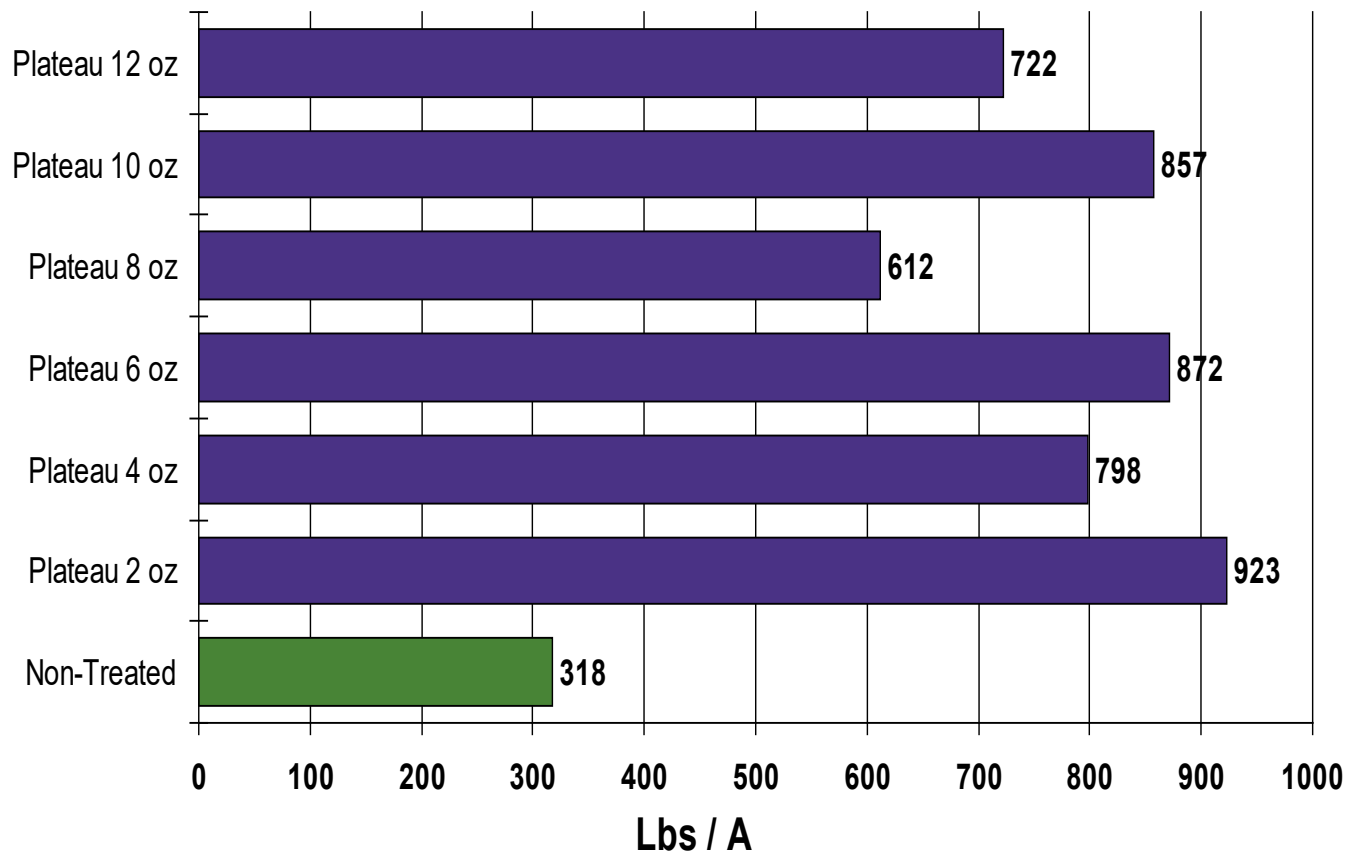
Applied 9/5/02 8/20/03 11 MAT



Data by Dr. Tom Whitson, UWY

Dry Weight Yields of Perennial Grass

Applied 9/5/02 8/20/03 11 MAT



Data by Dr. Tom Whitson, UWY

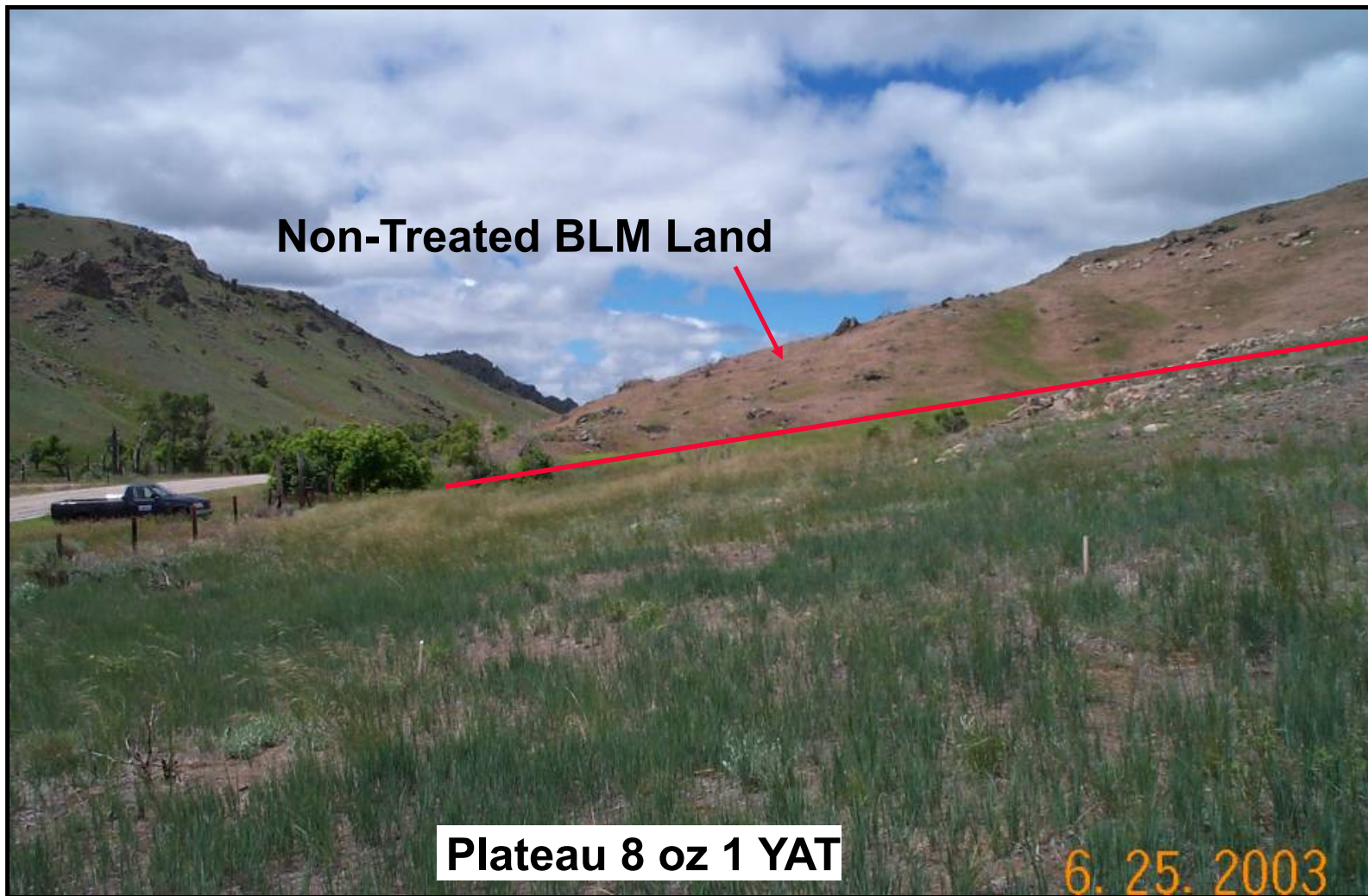
Western Wheatgrass Release



Non-treated

3 oz Plateau

Plateau Cheatgrass Control 1 YAT



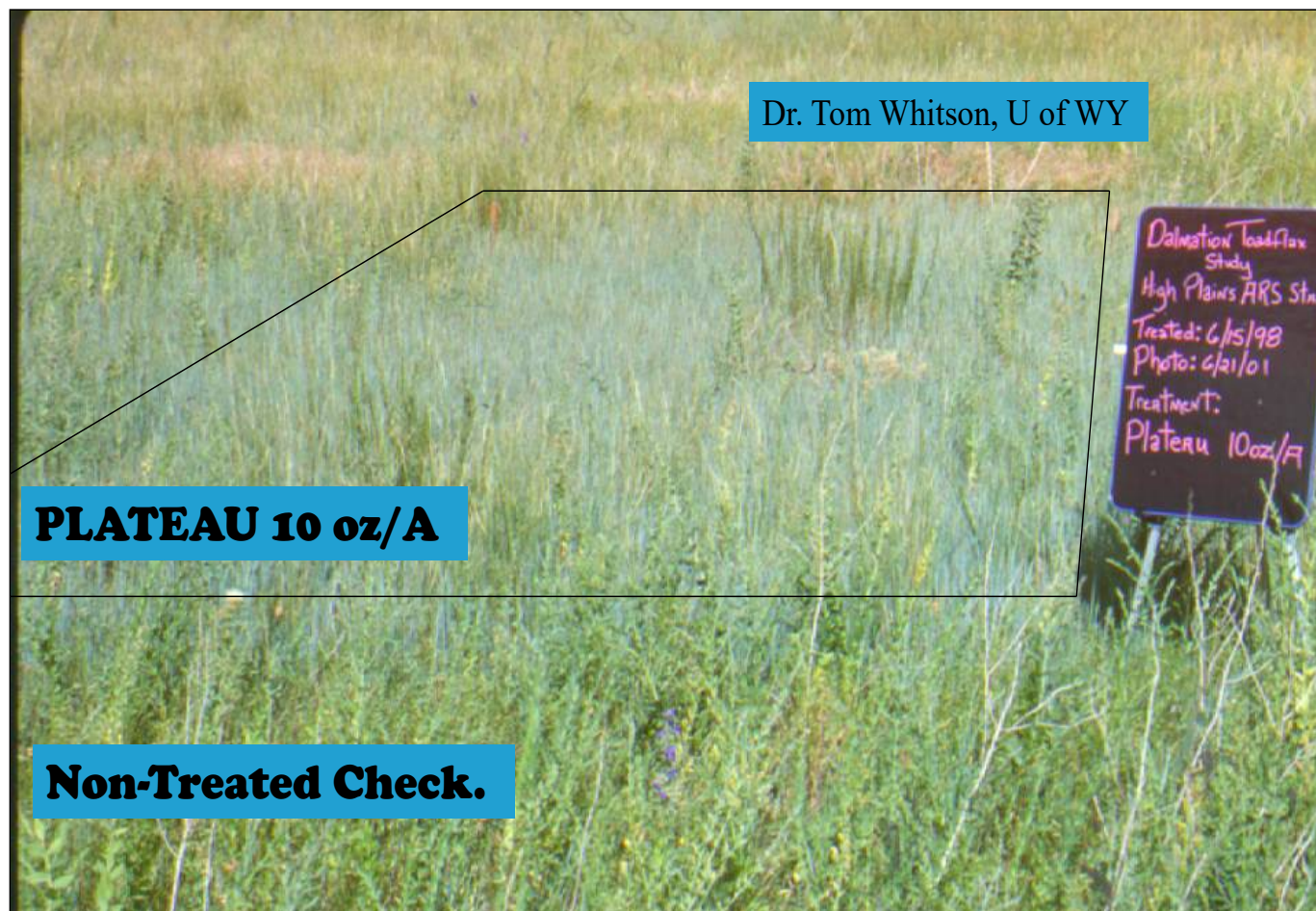
Plateau Cheatgrass Control 3 YAT

8 oz. Plateau



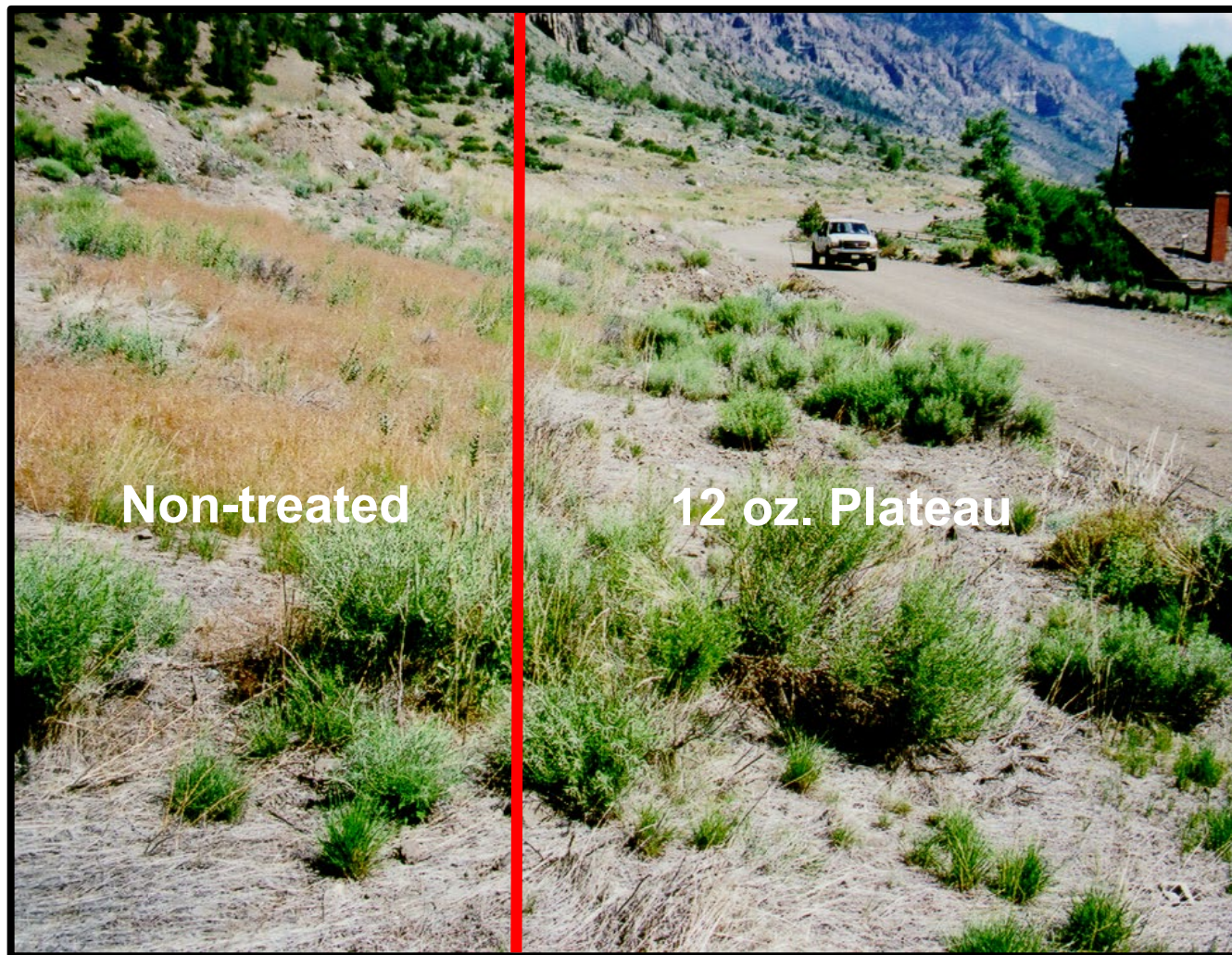
8 oz. Plateau - WY

Dalmatian Toadflax & Downy Brome Control 3 YAT



Western Wheatgrass Release

Dalmatian Toadflax and Cheatgrass Control



Moisture

- Time applications when rainfall is likely within a few days
- Minimum of ½ inch rainfall required to activate in soil
- Results will diminish if no rainfall within 30 days of application

Behavior in Soil

- Half-life is 31 to 410 days depending on rate, moisture and temperature (120 days typical)
- Plateau is broken down by soil microbes. Product breaks down the fastest when it is warm and moist
- Plateau is more effective at lower soil pH; No effect for increasing pH above 6.5.
- Applications to bare mineral soil, after fire are the most effective. Wait 2 weeks after fire before treatment

Successful Rehab of BLM

- 30,000 near Burns, OR
- Sprayed 2016
- Medusahead controlled
- Desirable native vegetation released
- BLM has documented shifting of plant population toward desirable native vegetation



Native Plant Release Following Wildfire

7 oz. Plateau for Medusahead



Native Woody Vegetation Restoration

- Sagebrush:
 - ▶ Fringed, Silver, Wyoming, Sand, etc.
- Antelope Bitterbrush
- Atroplexes – Four wing, Shadscale
- Mountain Mahogany
- Rabbit brush species
- Greasewood
- And many others

Native Woody Vegetation Restoration

- Spray during leaf color change or after leaf drop
- No surfactant
- See label for tolerance information



Tips for Success

- Know the tolerance of the species you want to promote
- Reducing the thatch layer will greatly improve performance
- Use higher rates to extend control
- Add 1% MSO for post-emergent applications
- Uniform application is critical
- Aerial applications from 5 to 10 gpa

Plateau versus Rejurva Comparison

■ Better value

- ▶ Rejurva cost 6x+ more per acre

■ Fewer restrictions

- ▶ No grazing restrictions
- ▶ Much shorter haying interval
- ▶ No hay export restrictions
- ▶ Easier and faster reseeding
- ▶ Shorter soil persistence allows for land use changes
- ▶ No history of soil movement issues causing off-target injury to crops
- ▶ Less concern with root pruning of desirables

Plateau versus Rejurva Comparison

■ Proven Success

- ▶ Operational control for 20 years

■ Length of Control

- ▶ 3 years vs 4 years

■ Simple

- ▶ One product



Plateau versus Rejurva Comparison

■ Flexible

- ▶ Pre-emergent AND early post emergent control of cheatgrass and Medusahead
- ▶ Post-emergent control of many other invasive weeds
 - Leafy spurge, Dalmatian toadflax, Russian knapweed and more!

■ Broader Spectrum

- ▶ Undesirable grasses and many broadleaf weeds at higher rates
 - Pre-emergent and post-emergent

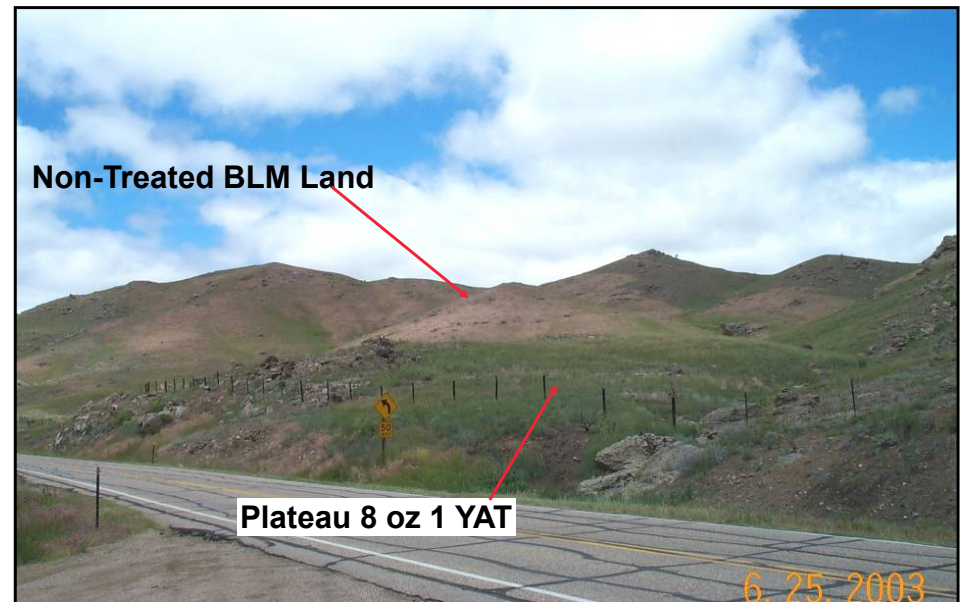
Plateau versus Rejurva Comparison

Is one more year of control and many more restrictions worth 6x+ the cost?



Plateau Summary

- Economical
- Time tested, unique, versatile, effective product
- Pre-emergent and post-emergent control
- Reduces fire hazards
- Restores native plants
- Improves grazing quality



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Questions

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