BATTALION PRO

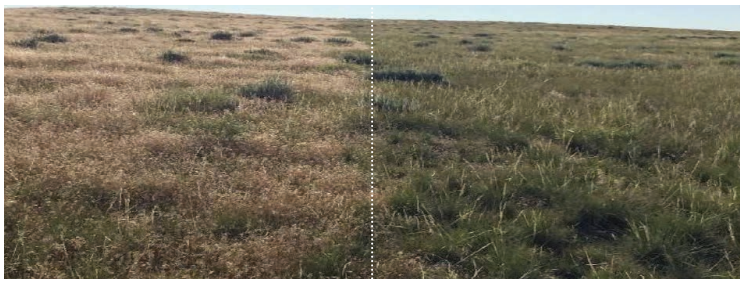
NEW BIOHERBICIDE to inhibit invasive grass weeds in the western US

Battalion Pro is a highly-effective liquid, preemergent bioherbicide for the selective suppression of the annual grass weeds cheatgrass, medusahead, and jointed goatgrass.

New Tool to Halt Invasive Weeds

Invasive annual grass weeds are taking over western US sagebrush rangelands, increasing wildfire size and frequency, diminishing agricultural crop quality and yield, reducing forage productivity, and threatening wildlife habitat and rural economies. Battalion Pro provides rangeland and agricultural managers a new tool to halt the growth cycle of these invasive weeds.

Rangeland



Control | Battalion Pro

BATTALION PRO

Economic Benefits

- Increases return on investment (ROI) on weed mitigation, range operation and crop production efforts
- Reduces weed seedbank for long-term sustainable results
- Provides high-efficient and highly targeted results at a cost-effective price point

REDUCES WILDFIRE RISK

Key Benefits

- **Only inhibits** cheatgrass, medusahead, and jointed goatgrass
- **Does not inhibit** economically important plants or crops and doesn't injure native plant species
- **Causes no harm** to important wildlife, insects, or pollinators
- **Removes weed seedbank**
- **Provides tool** for fire suppression activities and post-fire restoration efforts
- **Reduces flammable grasses** that contribute to wildfires and reduces fire cycle events

Decrease impact & probability of fires

Increase desirable perennial plant species

Maximize crop & forage productivity

Safe for wildlife and grazing animals

Restore critical wildlife habitats & ecosystems

Long-term & cost-effective solution

BioWest Ag Solutions

BioWest.ag • MicrobialSolutions@BioWest.ag

Provides Novel Mode-of-Action

Battalion Pro:

- **Contains the naturally occurring active ingredient, *Pseudomonas fluorescens* strain ACK55**
- **Inhibits cheatgrass, medusahead, jointed goatgrass specifically.**
- **Suppresses weed growth with weed-inhibitory compound**
- **Inhibits root formation, root growth, and tiller initiation of the annual weeds**
- **Lowers seed production and reduces viability of the seed bank**
- **Reduces targeted weeds to near zero for 3 to 5 years after application**

Reduces Cheatgrass Root Growth

Control **Battalion Pro**

Flexible Application

MRL Exempt | **0-Day PHI** | **Worker-friendly** | **4-Hour REI** | **Minimal PPE** | **No Plant-back Restrictions** | **No Grazing Restrictions**

- Available for large quantity applications
- Apply late fall through early spring to coincide with early root growth of weeds
- Protect larger areas from further weed infestation
- Piggyback with most herbicides, fungicides, insecticides, fertilizers, or seed coatings
- Apply aerially, by ground rig, through irrigation, or soil incorporation
- Spray over existing crop or desirable plant foliage
- Short re-entry avoids costly downtime
- No grazing restrictions when used by label instructions

Battalion Pro is selective and can be used in many applications: rangeland, crops, forest, pasture, Conservation Reserve Program (CRP) Lands, grasses grown for forage or seed, sod production, recreational areas, roadsides, road cuts, construction sites and right-of-ways.

[Refer to Battalion Pro label for detailed product information.]

Roadside

Control **Battalion Pro**

Sustainable & Effective Results

Battalion Pro has consistently proven its effectiveness in inhibiting invasive annual grass weeds, cheatgrass, medusahead and jointed goatgrass.

Long-term field trials in western US resulted in:

- Almost complete suppression of targeted weeds 3 to 5 years after application
- None of the targeted weeds remained in the seed bank 5 to 7 years after application
- Conditions vary from site to site, therefore, subsequent applications may be necessary. Contact your rangeland or crop specialist for recommendations.

Additional applications of Battalion Pro may be needed if weeds or weed-laden soil are transported into the site. An integrated weed and restoration management effort increases success.

Contact your retailer to purchase Battalion Pro and learn more on timing and applications.
For more information on Battalion Pro and other innovative products, contact BioWest at Biowest.ag.