



Rejuvra™ Herbicide

*Protecting Land
for Tomorrow Starts Today:*

Invasive Annual Grass Control



Protecting western natural areas and rangelands from invasive annual grass species is crucial to preserving our country's beautiful landscape for future generations, and also maintaining our rangeland, wildlife management areas and other natural areas such as parks and open spaces. In rangeland, controlling these forage production robbing annual grasses is vital to maximizing the productivity and profitability of the land.

Invasive annual grasses like cheatgrass, medusahead, ventenata and red brome compete with desirable native perennial grasses, forbs and shrubs. These invasive annual grasses germinate in late-summer and fall and then grow rapidly in late winter, establishing themselves and stealing moisture and nutrients before desirable perennials start to grow in the spring.

Left unchecked, these grasses will dominate the landscape and fine fuel layers will build to dangerous levels increasing the incidence of wildfires.

Early action is critical

With the help of Rejuvra™ (indaziflam) herbicide from Bayer, it is possible to stop invasive annual grasses by preventing germination of their seeds and depleting the weed seed bank. This pre-emergent restoration tool is showing consistent control over multiple years with just one application.

Over the last few years a significant research program documented outcomes from use of Rejuvra on natural areas and rangeland. A total of 18 universities and university extension programs have coordinated over 130 replicated trials in the field, lab and greenhouse. Six federal agencies have installed trials or demonstrations. Additional trials and demonstrations have been supported by counties, municipalities and non-government organizations.



Non-Treated



Rejuvra herbicide helps stop harmful broadleaf and grassy weeds that can choke out desirable vegetation.

Advanced control for the restoration and protection of rangeland, CRP land and natural areas

With Rejuvra herbicide, managing the soil seed bank of invasive annual grasses and bringing back desirable vegetation is now a reality. While providing control of invasive grasses and broadleaf weeds, Rejuvra herbicide leaves remnant desirable perennial populations to recolonize while restoring diversity and wildlife habitat.



Rejuvra Herbicide Key Benefits

- // **Consistent, long-term weed control:** Up to four seasons of control of invasive grasses, depending on weather, grazing pressure, and other factors.
- // **Non-volatile and good photo stability:** Does not leave the application site as a vapor and has good stability when exposed to sunlight. This allows flexibility in application timing relative to rainfall events needed to activate the herbicide.
- // **Releases perennial native vegetation:** Perennial plants respond quickly to the additional water and nutrients that become available when invasive annual grasses are controlled.
- // **Resistance management:** An effective tool for managing herbicide-resistant weeds.
- // **Reduced time and labor costs:** Fewer applications are needed to control weeds.
- // **Flexible tankmixing:** Can be tankmixed with both pre- and post-emergent herbicides.
- // **Standard PPE requirement:** Long-sleeved shirt, long pants, shoes plus socks, and chemical resistant gloves. Follow state requirements if more stringent.
- // **No grazing restrictions:** For an application rate of 5 oz/acre.

Prioritize restoration on sites with adequate remnant desirable grasses, shrubs, and forbs present, to be released and fully express their genetic and productive potential.

For effective control, Rejuvra herbicide should be applied and activated by rainfall prior to target weed germination. (See key weeds controlled section below.)

Documented outcomes from Rejuvra include:

- // Invasive annual grass soil seed bank depletion
- // Restored native plant communities
- // Decreased fine-fuels associated with wildfires
- // Increased wildlife habitat quality
- // Increased pollinator habitat
- // Increased perennial biomass and forage production

Key weeds controlled

Rejuvra herbicide controls a broad spectrum of grasses and broadleaf weeds including:

- // Cheatgrass or downy brome
- // Japanese brome
- // Medusahead
- // Ventenata
- // Red brome
- // Ferel Rye*

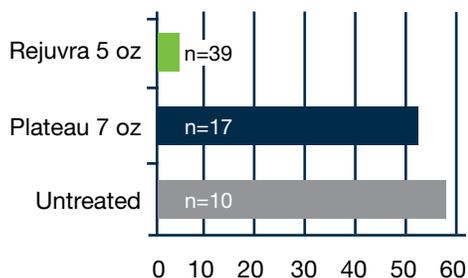
*Suppression only; For best control use 7 oz/A and follow up with a sequential application 1 or 2 years after the initial application.

Trial Data

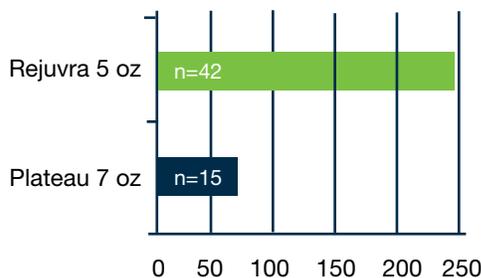
Trial work across the western US has documented that Rejuvra herbicide is a highly effective tool for control of many invasive annual grasses. A single application of Rejuvra herbicide can prevent germination of annual grasses for multiple years. This provides land managers with a new opportunity to start the process of depleting the annual grass seed bank.



Invasive annual grass cover (%) at 4 seasons after treatment



Increase in perennial grass biomass (%) at two summers after treatment



Data combined across all application timings and target invasive grass species. Rejuvra treatments include straight Rejuvra and tank mixes. Results for operational treatments depend on good coverage at treatment and other factors e.g. intercepting canopies, rainfall, thatch, terrain, livestock impacts and rate. Perennial grass response is variable and dependent on individual site conditions.

n = number of trials

Application, use and timing:

- Uniform soil coverage is important
- Apply 5 oz/acre of Rejuvra herbicide at a minimum of 5 gallons per acre by air; for ground application, use spray volumes of 20-30 GPA total spray mix (apply up to 7 oz/acre on areas that are not grazed by livestock).
- For good first year control, must be applied prior to germination of the target weeds.
- To control weeds that have already germinated, a tank mix partner that provides post-emergence control is needed.

Rejuvra is a preemergent herbicide and will only provide effective control in areas covered by the target rate. Annual grass escapes will occur if coverage is uneven or if a lower effective rate is applied between spray swaths.

Tank mixing Rejuvra herbicide with other herbicides

For first year annual grass control, Rejuvra herbicide should be tank mixed with a post-emergence herbicide at the following application timings:

- Application is less than a month before first expected annual grass germination
- Application is after first germination of annual grasses (post-emergence)
- Expectation of insufficient precipitation to activate Rejuvra herbicide prior to first annual grass germination

Efficacy of tank mix partners varies between annual grass species and annual grass growth stage.

Also, tolerance of desirable perennials varies between species and application timing. Review all labels carefully and use the most restrictive label when using tank mixes.

IMPORTANT: This bulletin is not intended to provide adequate information for use of these products. Read the label before using. Observe all label directions and precautions.

For more information visit www.rejuvra.com.



Tank mixtures: The applicable labeling for each product must be in the possession of the user at the time of application. Follow applicable use instructions, including application rates, precautions and restrictions of each product used in the tank mixture. Not all tank mix product formulations have been tested for compatibility or performance other than specifically listed by brand name. Always predetermine the compatibility of tank mixtures by mixing small proportional quantities in advance.

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