



Clean Up Alfalfa with a Dormant Season Application of Sharpen® Herbicide

Sharpen Herbicide Benefits

Powered by Kixor® Herbicide Technology

- Control of the toughest broadleaf weeds such as common groundsel

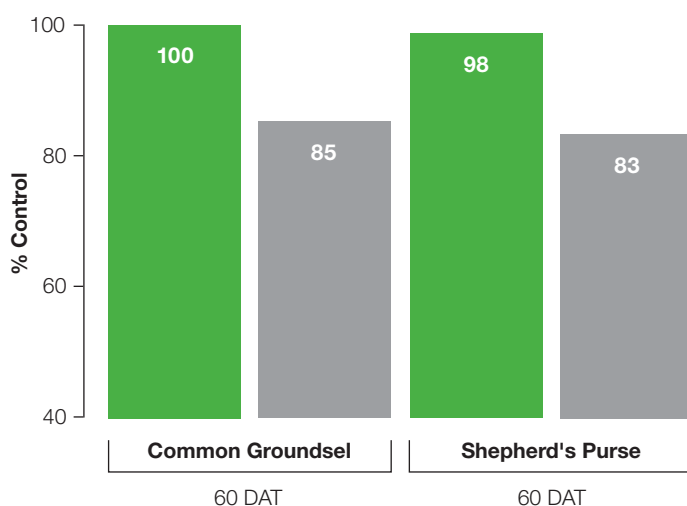
Resistance Management

- Additional site of action to manage and/or prevent resistant broadleaf weeds, such as ALS resistant London Rocket

Flexible

- Broad-spectrum broadleaf weed control
- Quick burndown
- Effective dormant season herbicide application without yield loss

Weed Control in Dormant Alfalfa



■ Sharpen herbicide ■ Gramoxone® SL Herbicide

UCCE Trial – Groundsel and Shepherd's Purse control in dormant alfalfa. Trial location: Tracy, CA. Treatment date: 1/6/15. Rating date: 3/6/15. All treatments include Hasten® (MSO) and Ammonium sulfate at 1.0%. Sharpen herbicide rate: 2 fl oz. Gramoxone SL herbicide rate: 32 fl oz.



Powered by Kixor herbicide technology, Sharpen herbicide drives burndown three to five times faster than 2, 4-D or glyphosate and offers broad-spectrum control of tough broadleaf weeds.

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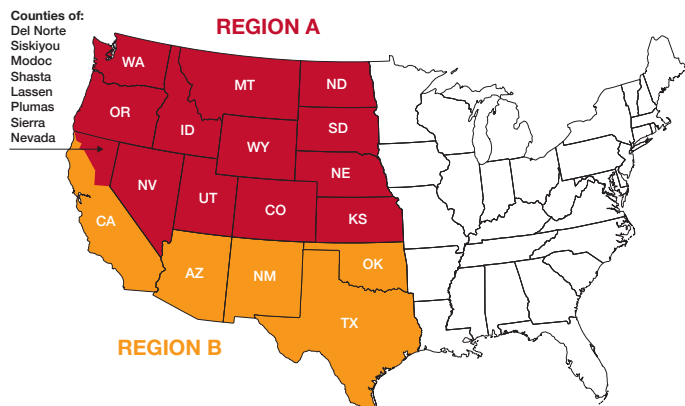
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Technical Information Bulletin

Application Timing by Regions

In Region A (red), make Sharpen® herbicide applications at least 90 days before first planned cutting or yield reductions may occur.

In Region B (orange), make Sharpen herbicide applications at least 75 days before first planned cutting or yield reductions may occur.



Best Use Recommendations

Application Rates

- One application of 2 fl oz/A during dormancy
- Tank mix with Prowl® H2O herbicide for extended residual control of grasses and small seeded broadleaf weeds

Application Recommendations

- Adjuvants: MSO (1% v/v or a minimum of 1pt/A) + AMS (8.5-17 lbs/100 gals), **OR** MSO (1% v/v or a minimum of 1 pt/A) + UAN (1.25-2.5 gals/100 gals)
- For best results, apply by ground using a minimum of 10 GPA of water
- Rainfast 1 hour after treatment
- Do not apply through an irrigation system
- Do not use a nonionic surfactant (NIS) as a substitute for MSO
- Do not apply to alfalfa > 4 inches tall

Sharpen Herbicide Burndown

Dormant Season Alfalfa



**Sharpen Herbicide
(2 fl oz/A) + AMS + MSO**

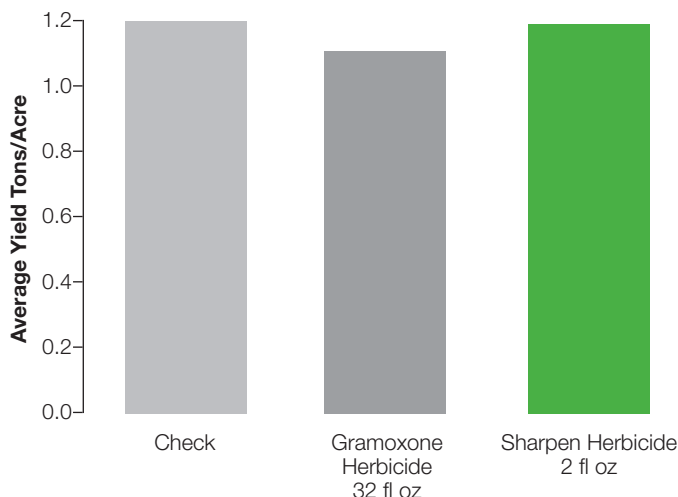


**Gramoxone (1 qt/A)
+ AMS + COC**

2014 Parlier, CA – Photo taken 15 DAT. Sharpen herbicide treatment included MSO at 1.0% v/v + AMS at 8.5 lb/100 gal. Gramoxone herbicide treatment included COC at 1.0% v/v + AMS at 8.5 lbs/100 gal.

Sharpen Herbicide Yield

Dormant Season Alfalfa



77 Days After Treatment (4-1-15)

2015, Trial location: UC Davis Agronomy, Davis, CA. Sharpen herbicide treatment included MSO at 1.0% v/v + AMS at 8.5 lb/100 gal. Gramoxone herbicide treatment included COC at 1.0% v/v + AMS at 8.5 lbs/100 gal.

Superior burndown, equal recovery! Visit your retailer to order Sharpen herbicide today. To learn more, visit www.KixorHerbicide.com.

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