Broadleaf Weed Control for Dry Field Pea, Lentil and Chickpea

Benefits of Sharpen® Herbicide

**Powered by Kixor® Herbicide Technology**
- Control of the toughest broadleaf weeds
- Excellent management tool for winter annuals including mustard species and prickly lettuce

**Fast and Effective**
- 3 to 5 times faster than 2,4-D or glyphosate
- Effective control of broadleaf weeds

**Flexible**
- Preplant and preemergence application timings
- Plant any crop the following spring
- Compatible with residual herbicide partners

**Prickly Lettuce Control**

![Comparison Image]

Montana State University Field Trial, 2010. 7 DAT. Sharpen herbicide applied at 1 fl oz/A. Glyphosate applied at 22 fl oz/A. Prickly lettuce burndown application.
Best Use Recommendations

Dry Field Pea and Chickpea Recommendations
- Sharpen herbicide (1–2 fl oz/A) + glyphosate

Sharpen Herbicide + PPO/Group 14*
- Dry field pea: Sharpen herbicide (1 fl oz/A) + PPO/Group 14 applied preplant/preemergence
- Chickpea: Sharpen herbicide (1-2 fl oz/A) + PPO/Group 14 applied preplant/preemergence

Lentil Recommendations
- Sharpen herbicide (0.75 fl oz/A) + glyphosate
- DO NOT apply to Spanish Brown varieties

Application Timing**
- Preplant
- Preemergence

Application Requirements
- Adjuvant: MSO (1 gal/100 gals or minimum 1 pint/A) + AMS (8.5 to 17 lbs/100 gals)
- 15 GPA carrier volume recommended for optimum burndown performance
- Rainfast in 1 hour

*For use in Idaho, Montana, North Dakota, Oregon, South Dakota, and Washington only.
**Sharpen herbicide must be applied prior to crop emergence or severe injury will occur.

Sharpen Herbicide Speed of Kill
Demo 48h after Application

Montana State University Field Trial, 2011. Prickly lettuce control. Sharpen herbicide applied at 1 fl oz/A. Glyphosate applied at 22 fl oz/A.

Prickly Lettuce Control
78 Days After Treatment

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<thead>
<tr>
<th>Sharpen® Herbicide + Glyphosate + MSO</th>
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<tr>
<td>Glyphosate + NIS</td>
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<table>
<thead>
<tr>
<th>% Control</th>
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Key Broadleaf Weeds Controlled by a Burndown Application of Sharpen Herbicide

- Bedstraw
- Common mallow
- Dandelion
- Horseweed (marestail)
- Kochia
- Mustard (black, wild, tumble)
- Narrowleaf hawksbeard
- Prickly lettuce
- Russian thistle
- Wild buckwheat

Glyphosate Sharpen Herbicide + Glyphosate
BASF Research Farm, Lethbridge, AB. Sharpen herbicide demo. Sharpen herbicide applied at 1 fl oz/A. Glyphosate applied at 22 fl oz/A.