

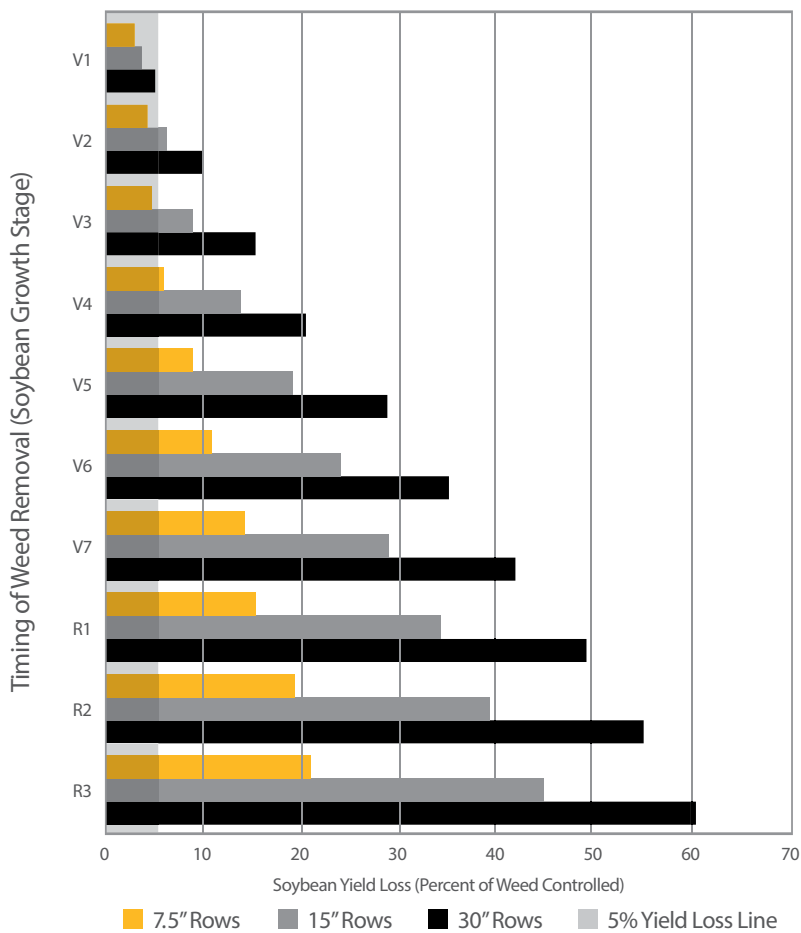
# AUTHORITY<sup>®</sup> XL HERBICIDE

## Preemergence Herbicide with Burndown for Glyphosate- and ALS-Resistant Weeds

### Product Characteristics

- Helps increase yield potential by providing cleaner fields
- Facilitates more timely Roundup PowerMAX<sup>®</sup> herbicide applications in Roundup Ready<sup>®</sup> soybeans
- Reduces the selection pressure for glyphosate- and ALS-tolerant weed biotypes
- Provides excellent crop safety
- Controls both small- and large-seeded broadleaf weeds
- May be applied with other crop protection chemicals and liquid fertilizers
- Extends weed spectrum and burndown when weeds have already emerged when added to Roundup PowerMAX and 2,4-D LVE

Soil-Applied Herbicides in Soybeans



Applications made in April 2010. Photos taken in June 2010, 60 days after application



Authority<sup>®</sup> XL 4.0 2,4-D 1pt,  
Followed by Roundup PowerMAX<sup>®</sup>



Authority XL 4.0 oz



OpTill<sup>®</sup> herbicide 2.0 oz

## Usage Recommendations

### Full Use Rate

(needed for glyphosate-resistant weeds for longer residual control)

Fall Application, Early Pre-plant, Pre-plant Burndown, Pre-plant Incorporated, and Preemergence

Broadcast Rate (oz/A)	Coarse Soil Texture	Medium Soil Texture	Fine Soil Texture
% Organic Matter	Loamy Sand, Sandy Loam	Loam, Silt Loam, Silt, Sandy Clay Loam	Silty Clay Loam, Clay Loam, Clay
0.5 – 2.0%	5.0 – 6.0 oz/A	6.5 – 7.5 oz/A	7.0 – 8.0 oz/A
2.0 – 4.0%	6.0 – 7.0 oz/A	7.0 – 8.8 oz/A	8.0 – 9.6 oz/A

Apply Authority<sup>®</sup> XL according to rate tables for types of application and specific geographic areas.

Authority XL 3.2 oz/A + 12 oz 2,4-D + Roundup PowerMAX herbicide 8 oz/A



Kansas City, MO  
Applied October 27, 2009  
Photo April 21, 2010

UNTREATED

Authority XL Treated Versus Untreated

Daviess Co., KY  
Applied November 2009  
Photo April 21, 2010

## Weed Spectrum

### Controls

- Carpetweed
- Chickweed\*\*
  - Purple
  - Yellow
- Cocklebur\*
- Copperleaf
  - Hophornbeam
  - Virginia
- Florida Beggarweed
- Jimsonweed
- Kochia
- Lambsquarters
- Mallow, Venice
- Marestalk
- Morningglory
  - Annual
  - Ivyleaf
  - Entireleaf
  - Pitted\*
  - Smallflower
  - Tall
- Mustard, Wild
- Nutsedge
  - Purple
  - Yellow
- Pigweed
  - Palmer Amaranth
  - Redroot
  - Smooth
  - Spiny Amaranth
- Poinsettia, Wild
- Prickly Sida (Teaweed)
- Purslane, Common
- Ragweed
  - Common
  - Ragweed, Giant\*
- Senna, Coffee
- Smartweed, Annual
- Spurge, Spotted
- Sunflower, Wild
- Thistle, Russian
- Velvetleaf
- Waterhemp

Control of emerged weeds requires a burndown tank mix such as 2,4-D or Roundup.

\* Weed species which can germinate deep in the soil, such as pitted morningglory, cocklebur and giant ragweed or other weeds, such as nutsedge, which may emerge at various times during the growing season, may require a cultivation or a follow-up application of postemergence herbicides.

\*\* To deliver control the addition of Roundup PowerMAX or Express<sup>®</sup> herbicide is recommended.

### Suppresses

- Barnyardgrass
- Burcucumber
- Crabgrass
- Foxtail Species
- Goosegrass
- Johnsongrass, Seedling
- Mexicanweed
- Panicum
  - Texas
  - Fall
- Sicklepod
- Signalgrass, Broadleaf