

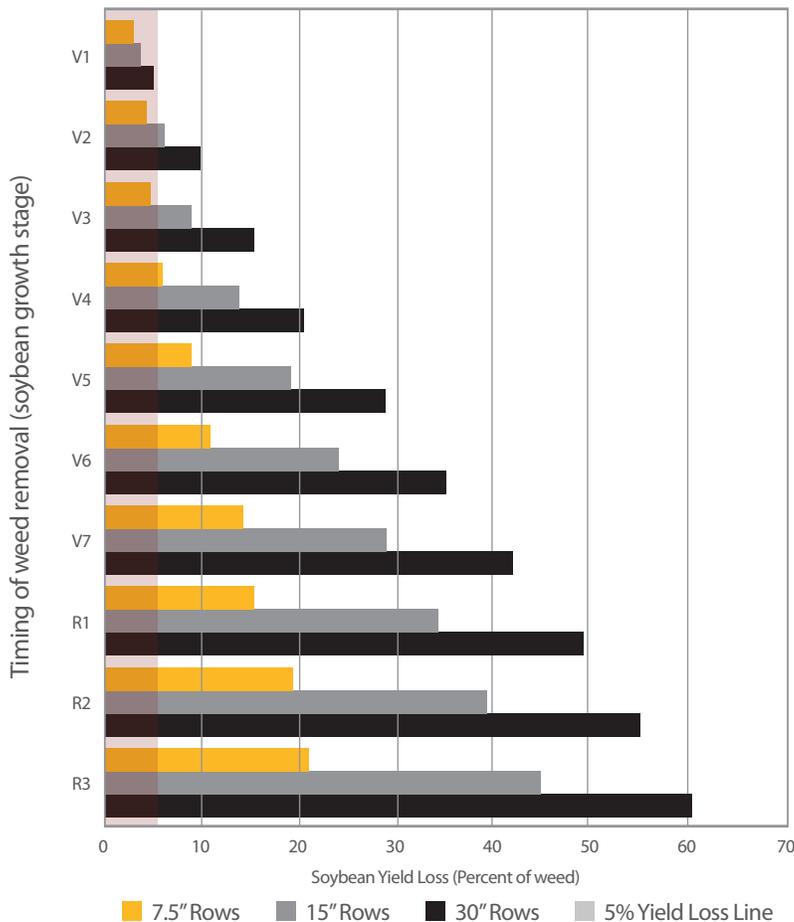
AUTHORITY[®] XL HERBICIDE

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[®] applications in Roundup Ready[®] 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[®] XL 4.0 2,4-D 1pt,
Followed by Roundup PowerMAX[®]



Authority XL 4.0 oz



Optill[™] 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[®] XL according to Rate Tables for types of application and specific geographic areas.

Reduced Rates for GMO Soybeans

(Roundup Ready[®], LibertyLink[®] etc.)

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%	4.0 oz/A	4.0 oz/A	4.0 – 5.0 oz/A
2.0 – 4.0%	4.0 oz/A	4.8 oz/A	4.0 – 5.0 oz/A

Use rates in Reduced Rate Table are to be used in conjunction with a planned POST herbicide program; Authority XL at these reduced rates will provide early season control or suppression to reduce early season weed competition.

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



Authority XL Treated Versus Untreated



Weed Spectrum

Controls

- Carpetweed
- Chickweed**
- Cocklebur*
- Copperleaf, hophornbeam
- Copperleaf, Virginia
- Florida beggarweed
- Jimsonweed
- Kochia
- Lambsquarters
- Mallow, Venice
- Marestalk
- Morningglory
 - Annual
 - Ivyleaf
 - Entireleaf
 - Pitted*
 - Smallflower
 - Tall
- Mustard, wild
- Nutsedge, purple
- Nutsedge, yellow
- Pigweed
 - Palmer amaranth
 - Redroot
 - Smooth
 - Spiny amaranth
- Poinsettia, wild
- Prickly sida (teaweed)
- Purslane, common
- Ragweed, common
- Ragweed, giant*
- Russian thistle
- Senna, coffee
- Smartweed (annual)
- Spurge, spotted
- Sunflower, wild
- 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[®] are recommended.

Suppresses

- Barnyardgrass
- Burcucumber
- Crabgrass
- Foxtail, species
- Goosegrass
- Johnsongrass, seedling
- Mexicanweed
- Panicum, Texas and fall
- Sicklepod
- Signalgrass, broadleaf