



Authority® Assist Herbicide Technical Bulletin

Authority® Assist is the Foundation Herbicide for Higher Yielding Soybeans

Authority® Assist herbicide won seven out of eight university yield trials in 2009 and has become the best foundation herbicide with its multiple modes of action. Studies show excellent control of waterhemp, lambsquarters, nightshade, kochia, velvetleaf, Pennsylvania smartweed, morningglory, Venice mallow and many other broadleaves. It also helps control problem grasses like foxtails, barnyardgrass and fall panicum.

Formulated as a 4 lb per gallon SC formulation, Authority Assist has been studied in no-till, minimum-till and conventional tillage systems using pre-plant surface, pre-emergence or pre-plant incorporated applications. Authority Assist has some foliar activity to provide burndown on emerged weeds. It offers a broader spectrum and excellent control when combined with 2,4-D, Rage® D-Tech herbicide or glyphosate in no-till systems.

Counter the Effects of Delayed Glyphosate Treatments in Late-Planted Soybeans

Research indicates that weed control prior to an in-crop application is more important than weed control after the in-crop application of glyphosate. Many studies show that a pre-herbicide application can help boost yields by over an average of six bushels per acre in comparison to waiting for a first in-crop application at the four to eight-inch weed stage. At \$10 soybeans,

that difference can amount to an increase of over \$60 per acre. As a result, its important to consider the impact that weeds have on the crop early in the season also, not that there is just a clean field at harvest. More researchers are reporting that you cannot afford to plant a crop without the protection of a pre-emergence herbicide in a soybean crop.

Product Characteristics Reviewed in Research Studies

- Foundation for yield maximization
- Excellent crop safety
- Dual mode of action with outstanding residual chemistries
- Broad cross-spectrum weed control
- Long residual
- Low-rate liquid formulation
- Early effective application window
- Control of tough resistant weeds
- Early season grass activity
- Simple, easy tank cleanout procedures

Herbicidal Activity On:

Broadleaf weeds

- Annual smartweeds
- Cocklebur
- Kochia
- Russian thistle
- Lambsquarters
- Mustard spp.
- Morningglory spp.
- Eastern black nightshade
- Nutsedge
- Pigweed (Amaranthus spp.)
- Velvetleaf
- Venice mallow
- Waterhemp

Grasses

- Foxtail spp.
- Barnyardgrass
- Fall panicum

Authority® Assist Herbicide Trial Results



Authority Assist, foreground, untreated check, background



Authority Assist 45 days after planting and before glyphosate application, center, untreated area outside rows at top of photo

Managing Weeds Early With Authority® Assist is a Necessity

Managing weeds early helps improve fertilizer management, moisture conservation, earlier planting, insect management, weed resistance management, time and risk management and with higher commodity prices means higher return on investment. With all of those factors combined, managing weeds early with a foundation herbicide such as Authority Assist is an absolute necessity. Its flexible for Roundup Ready, Liberty Link or conventional soybeans.

Timing

- Early pre-plant (March), stop at soybean emergence

Burndown

- 12 oz/A of Rage® D-Tech or 1 pt of 2,4-D (add glyphosate for additional grass burndown)

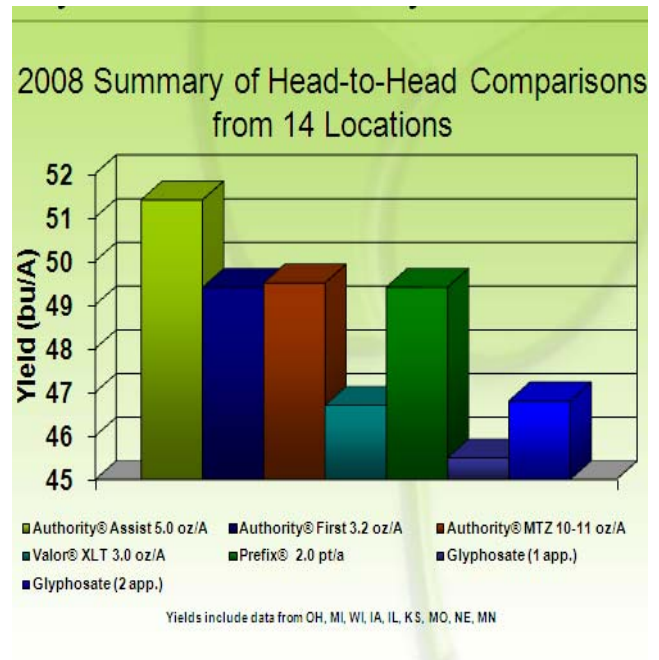
Use Rates

Roundup Ready® or Liberty Link® soybeans 5.0 – 6.0 oz/A
 Conventional Soybeans 7.0 – 10.0 oz/A

Rotational Guidelines

Alfalfa	12 months	Corn, sweet	18 months	Sugarbeets	40 months
Canola, crambe	40 months	Cotton	18 months	Sunflowers	18 months
Corn, Clearfield®, IR, IT	4 months	Sorghum	18 months	Tobacco	9.5 months
Corn, field	10 months	Soybeans	Any time	Wheat	4 months
Corn, pop	18 months				

See your FMC retail market manager or go to FMCcrop.com.



FMC Corporation
 Agricultural Products Group
 1735 Market Street
 Philadelphia, PA 19103

1-888-59-FMC-AG • FMCcrop.com

The Foundation herbicide for higher yielding soybeans

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