

## Glyphosate

**Trade Names:** Credit, Debit, Glyphomax, Glyphomax Plus, Glyphos, Glyphos X-TRA, Roundup Custom, Roundup Original, Roundup Ultra, Roundup Ultra Dry, Roundup Ultra Max

**Chemical Family:** Miscellaneous

**Mode of Action:** Inhibition of 5-enolpyruvylshikimate-3-phosphate, preventing further production of the essential amino acids tyrosine, tryptophan, and phenylalanine.

**General Symptoms:** Yellowing in terminal of broadleaves and yellowing of grass leaves prior to control.



Soybean injury at 6 days after treatment with 0.5 lb ai/A glyphosate applied at the V6 growth stage. Glyphosate drift will cause terminal yellowing and may result in yield reductions, whereas direct applications at labeled rates will cause plant death. Roundup Ready soybeans are tolerant to glyphosate.

**Agronomic Use:** Glyphosate is a broad-spectrum, foliar-applied herbicide which can be applied preplant for control of emerged weeds. Glyphosate can be applied in-crop for postemergence weed control in Roundup Ready corn, cotton, and soybeans.

**Additional Information:** Glyphosate has a low mammalian toxicity, lacks soil residual activity, is tightly bound to soil colloids, and rapidly degraded by soil microbes. Weed sensitivity to glyphosate varies among species. Weeds showing a degree of tolerance include the morningglory species, nutsedge species, hemp sesbania, spreading dayflower, cutleaf eveningprimrose, Florida pusley, redvine, and common bermudagrass among others. Glyphosate is extremely effective on Palmer amaranth and most grasses. Plant stress at application may reduce glyphosate absorption and translocation, and in turn weed control. Tank mixing glyphosate with contact herbicides and high level of salts in the spray water will reduce glyphosate efficacy.

**Rotational Restrictions:** None

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