

Best Herbicide Management Strategies for Soybeans in Enlist™ Off-Labeled Counties



Build your weed management program around a soil-applied, residual herbicide in all weed pressure situations

- Reason 1 – More yield
 - Eliminates early season weed competition
 - Saves valuable nutrients and water
- Reason 2 – More time/more complete control
 - Helps ensure correct weed size when the post application is made
 - Creates greater flexibility in timing of the post application
- Reason 3 – Greater peace-of-mind and a brighter future
 - Broader spectrum of activity on glyphosate tolerant weed species
 - Best tactic for prevention of future herbicide tolerance/resistance

Low and moderate weed pressure fields

- Plant an Innotech® Enlist E3® variety available from Rob-See-Co
- Start clean with tillage or a preplant burn-down
- Apply a single mode of action, soil-applied, residual herbicide before the crop emerges or very early post if labeled. If the product allows use post-emergence, consider applying a foundation rate (60-70% of label rate) and include the remainder in the post-emerge application
 - Select product(s) based on expected weed spectrum and application timing flexibility as outlined on herbicide label
- Apply a post-emerge treatment that includes glyphosate (primarily grasses) or glufosinate (grass/broadleaf mix) plus the remaining % of the foundation herbicide program
 - Consider adding an additional mode of action depending on type and size of weeds present

High weed pressure fields

- Plant an Innotech Enlist E3 variety available from Rob-See-Co
- Start clean with tillage or a preplant burn-down
- Apply a soil-applied, residual herbicide with two or more modes of action before the crop emerges
 - Select product(s) based on expected weed spectrum
- Apply a post-emerge treatment that includes glyphosate (primarily grasses) or glufosinate (grass/broadleaf mix)
 - Add one or more additional modes of action depending on type and size of weeds present

High weed pressure fields with late emerging weeds and/or glyphosate resistant weeds present (e.g. kochia, waterhemp, ragweed)

- Plant an Innotech Enlist E3 variety available from Rob-See-Co
- Start clean with tillage or a preplant burn-down
- Apply a soil-applied, residual herbicide with two or more modes of action before the crop emerges
 - Select product(s) based on expected weed spectrum
- Apply a post-emerge treatment that includes glyphosate (primarily grasses) or glufosinate (grass/broadleaf mix)
 - Add one or more additional modes of action depending on type and size of weeds present
 - If using glufosinate, add a second tank mix partner with activity on glyphosate tolerant weed species
 - Add two tank mix partners with activity on glyphosate tolerant weed species if glufosinate is not being used

Partial List of Example Soybean Herbicide Products by Application Timing

Site of Action Group	Modes of Action	Common Active Ingredients	Weed Spectrum	Soil Residual	Example Brand Name
Pre-Plant Burndown Products & Tank Mix Partners					
4	1	2,4-D Ester/Amine	Broadleaf	No	Multiple
4	1	Dicamba	Broadleaf	No	Multiple
9	1	Glyphosate	Grass/Broadleaf	No	Multiple
10	1	Glufosinate	Grass/Broadleaf	No	Liberty
4, 9	2	2,4-D Ester/Amine + Glyphosate	Grass/Broadleaf	No	
9, 4	2	Glyphosate + Dicamba	Grass/Broadleaf	No	
4, 10	2	2,4-D Ester/Amine + Glufosinate	Grass/Broadleaf	No	
Soil Applied Residual Products & Tank Mix Partners (Pre-Emerge or Early Post*/Pre-Emerge)					
15	1	s-Metolachlor*	Grass/Broadleaf	Yes	Dual II Magnum
15	1	Acetachlor*	Grass/Broadleaf	Yes	Harness
15	1	Pyroxasulfone*	Grass/Broadleaf	Yes	Zidua
14	1	Flumioxazin	Grass/Broadleaf	Yes	Valor
14	1	Saflufenacil	Grass/Broadleaf	Yes	Sharpen
14	1	Sulfentrazone	Grass/Broadleaf	Yes	Spartan
3	1	Pendimethalin	Grass/Broadleaf	Yes	Prowl H2O
5	1	Metribuzin	Grass/Broadleaf	Yes	Multiple
14, 5	2	Sulfentrazone + Metribuzin	Grass/Broadleaf	Yes	Authority MTZ
14, 15	2	Sulfentrazone + Pyroxasulfone	Grass/Broadleaf	Yes	Authority Edge
14, 2	2	Sulfentrazone + Imazethapyr	Grass/Broadleaf	Yes	Authority Assist
14, 2	2	Sulfentrazone + Cloransulam-methyl	Grass/Broadleaf	Yes	Authority First/Sonic
14, 15	2	Sulfentrazone + s-Metolachlor	Grass/Broadleaf	Yes	Broadaxe
15, 5	2	s-Metolachlor + Metribuzin	Grass/Broadleaf	Yes	Boundary
14, 15	2	Flumoxazin + Pyroxasulfone	Grass/Broadleaf	Yes	Fierce
14, 2, 15	3	Saflufenacil + Imazethapyr + Pyroxasulfone	Grass/Broadleaf	Yes	Zidua Pro
14, 2, 5	3	Flumoxazin + Imazethapyr + Metribuzin	Grass/Broadleaf	Yes	Panther Pro
Post-Emerge Products					
1	1	Clethodim	Grass	No	Select
1	1	Quizalofop	Grass	No	Assure II
9	1	Glyphosate	Grass/Broadleaf	No	Multiple
10	1	Glufosinate	Grass/Broadleaf	No	Liberty
14	1	Lactofen	Broadleaf	No	Cobra
14	1	Fomesafen	Broadleaf	Yes	Flexstar
15	1	s-Metolachlor	Grass/Broadleaf	Yes	Dual II Magnum
15	1	Acetachlor	Grass/Broadleaf	Yes	Harness
15	1	Dimethamid	Grass/Broadleaf	Yes	Outlook
15	1	Pyroxasulfone	Grass/Broadleaf	Yes	Zidua

Some soybean herbicide products are available as multiple brand names in pre-mixes and certain common active ingredients may also be used in a single spray tank mixture. Always follow label requirements when building tank mixes containing multiple active ingredients. Programs containing multiple modes of action are the best strategy for managing weed resistance. Split applying soil residual herbicides in pre- and post-emerge applications, if label allows, will offer increased control of glyphosate tolerant and/or hard to control weed species.

Always read and follow all herbicide label directions, including guidelines on the use of AMS and/or other surfactants.

Some products containing dicamba are Restricted Use Pesticides.

All products are a trademark of their manufacturer.