

# Soybean Herbicide Performance

## GRASSES AND NUTSEDGE

For weed control, apply the symbols to the percentage of infestation controlled. For crop tolerance, the symbol relates to the portion of the crop showing no significant injury. These statements are approximations. Statements on the label take preference over these ratings.

\*Only to be used on soybean varieties designated as STS. \*\*Only to be used on soybeans designated as Roundup Ready. \*\*\*Only for use on Liberty Link soybeans.

### Key:

P=Less than 65%

F=65-79%

G=80-90%

E=90% or better

TOLERANCE  
BARNYARDGRASS  
CRABGRASS  
FALL PANICUM  
FOXTAIL, GIANT  
FOXTAIL, GREEN  
FOXTAIL, YELLOW  
GOOSEGRASS  
JOHNSONGRASS, SEEDLING  
JOHNSONGRASS, RHIZOME  
QUACKGRASS  
SHATTERCANE  
WILD PROSO MILLET  
WOOLLY CUPGRASS  
VOLUNTEER CORN  
YELLOW NUTSEDGE

PRE-PLANT	TOLERANCE	BARNYARDGRASS	CRABGRASS	FALL PANICUM	FOXTAIL, GIANT	FOXTAIL, GREEN	FOXTAIL, YELLOW	GOOSEGRASS	JOHNSONGRASS, SEEDLING	JOHNSONGRASS, RHIZOME	QUACKGRASS	SHATTERCANE	WILD PROSO MILLET	WOOLLY CUPGRASS	VOLUNTEER CORN	YELLOW NUTSEDGE
Canopy EX	E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	F
Extreme	E	F	F	F	G	F	F	F	F	P	P	G	F	P	P	P
Prowl	E	E	E	E	E	E	E	E	E	P	P	E	F	E	F	P
<b>PRE-EMERGENCE OR PRE-PLANT INCORPORATED</b>																
Authority Assist	E	P	P	F	F	F	F	P	F	P	P	P	P	P	F	E
Boundary 6.5 EC	G/E	E	E	E	E	E	E	G	F	P	P	F	F	F	P	G/E
Dual II Magnum/Parallel	E	E	E	E	E	E	E	G	F	P	P	F	F	F	P	G
Envive	G	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	P/F	F/G
Intro	E	E	E	E	E	E	E	G	F	P	P	F	F	F	P	F
Outlook	E	E	E	E	E	E	E	E	F	P	P	F	F/G	F/G	P	G
Prefix	G/E	E	E	E	E	E	E	G	F	P	P	F	F	F	P	G/E
Prowl	E	E	E	E	E	E	E	E	F	P	P	E	F	E	F	P
Trifluralin	E	E	E	E	E	E	E	E	F	P	P	E	F	E	F	P
<b>POST-EMERGENCE</b>																
Assure II	E	E	G	E	E	E	G	E	E	E	G	E	E	E	E	P
Basagran	E	P	P	P	P	P	P	P	P	P	P	P	P	P	P	G
Extreme **	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	G
Fusion	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	P
Glyphosate **	E	G	E	E	E	E	E	E	E	G	G	E	E	E	E	F
Ignite 280SL***	E	G	G	G	E	E	G	G	G/E	F/G	G	G	G	E	G	P
Poast Plus	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	P
Pursuit	E	G	F	F	G	G	G	P	E	P	P	E	F	F	P	P
Raptor	E	G	F	E	E	E	E	F	E	F	F	E	G	F	E	F
Scepter	E	P	P	P	P	P	P	P	P	P	P	P	P	P	E	P
Select Maxx/Arrow	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	P

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN & GARDEN

SEED

FERTILIZER

GENERAL

# Soybean Herbicide Performance

## BROADLEAVES

For weed control, apply the symbols to the percentage of infestation controlled. For crop tolerance, the symbol relates to the portion of the crop showing no significant injury. These statements are approximations. Statements on the label take preference over these ratings.

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Due to the population of this weed, the amount of seed produced, length of germination and some ALS resistant waterhemp, these ratings are only approximations. Controlling 80-90% of this weed in a particular field may not be acceptable weed control.

Key:

P=Less than 65%

F=65-79%

G=80-90%

E=90% or better

TOLERANCE  
COCKLEBUR  
COPPERLEAF, HOPHORNBEAN  
JIMSONWEED  
KOCHIA  
LAMBSQUARTER  
MORNINGGLORY  
NIGHTSHADE, BLACK  
PIGWEEED  
PRICKLY SIDA  
RAGWEED, COMMON  
RAGWEED, GIANT  
SMARTWEED  
SUNFLOWER  
VELVETLEAF  
WATERHEMP\*\*\*

	TOLERANCE	COCKLEBUR	COPPERLEAF, HOPHORNBEAN	JIMSONWEED	KOCHIA	LAMBSQUARTER	MORNINGGLORY	NIGHTSHADE, BLACK	PIGWEEED	PRICKLY SIDA	RAGWEED, COMMON	RAGWEED, GIANT	SMARTWEED	SUNFLOWER	VELVETLEAF	WATERHEMP***
<b>PRE-PLANT</b>																
Canopy EX	E	G	G	E	F	E	G	E	F	G	G	F	G	G	G	F
Extreme	E	F	P	F	P	P	F	E	E	P	P	P	G	F	E	P
Prowl	E	P	P	P	G	E	P	P	E	P	P	P	P	P	P	G
<b>PRE-EMERGENCE OR PRE-PLANT INCORPORATED</b>																
Authority Assist	E	F	F	F	G	E	G/E	G	E	G	F	F	G	F	G	E
Authority First/Sonic	E	G	G	G	G	E	G/E	G	E	E	G	G	G/E	E	E	E
Authority MTZ	E	G	G	G	G	E	G/E	G	E	E	F	F	G/E	E	E	E
Boundary 6.5 EC	G/E	F	G	F	G	E	P	G/E	E	G	G	P	G	F	G	F
Canopy	G	G	G	E	F	E	G	E	P	F	G	F/G	G	G	G	F
Dual II Magnum/Parallel	E	P	P	P	P	F	P	G	E	P	P	P	P	P	P	G
Envive	G	G	G	E	G	R	E	E	E	G/E	G/E	G	G/E	G/E	G	G
FirstRate	E	E	F	E	F	G	G	P	G	F	G	G	E	E	E	F
Gangster	G	G/E	G	E	G	E	G/E	E	E	G	G	G	E	G/E	G	G
Intro	E	P	P	P	P	F	P	G	E	P	P	P	P	P	P	G
Outlook	E	P	F	P	F	E	F	E	E	P	P	P	F	P	P	G
Prefix	G/E	P	F	F	F	F	P	F	G	F	F	P	F	P	F	G
Prowl	E	P	P	P	G	E	P	P	E	P	P	P	P	P	P	G
Python WDG	E	F	F	F	G	E	F	G	E	G	G	F	G	G	E	F/G
Scepter	E	E	P	G	G	G	G	G	E	E	G	G	G	E	F	F
Sencor/Metribuzin	F/G	F	G	F	G	E	P	P	E	G	F	P	E	F	G	G
Spartan 4F	E	F	G	G	G	E	G/E	E	E	F	F	P	F	P	F	E
Trifluralin	E	P	P	P	G	E	P	P	E	P	P	P	P	P	P	G
Valor	G	P	G	E	G	E	G	E	E	G/E	G	F	F	P	F	G
Valor XLT	G	G	G	E	G	E	E	E	E	G/E	G	G	G/E	G/E	G	G
<b>POST-EMERGENCE</b>																
Basagran	E	E	P	E	F	F	F	P	P	G	G	G	E	G	G/E	P
Cadet	G	F	F	F	G	E	G	G	G	F	P	P	F	F	E	G
Classic	G/E	E	P	G	P	P	G	P	G	P	G	F	G	E	G	F
Cobra	F/G	G	E	G/E	F	P	G	G	E	F	G/E	G	F	F	F	E
Extreme **	E	E	F	E	G	E	G	E	E	G	E	G	E	E	E	E
FirstRate	E	E	P	E	P	P	G	P	P	P	E	G	E	E	E	P
Flexstar	G/E	F/G	E	G/E	F	P	G	G	E	P	G	G	G/E	F	F	E
Glyphosate **	E	E	F	E	G	E	G	G	E	G	E	G	G	E	G	E
Harmony GT/SG	F/G	P	P	F	F	E	P	P	E	P	P	P	E	F	E	F
Ignite 280SL***	E	G/E	G	G	G	G	G/E	E	E	E	E	E	E	E	G	G
Phoenix	G/E	F	F	G	P	P	F	G	E	F	G/E	F/G	P	P	P	E
Pursuit	E	E	P	G	G	P	F/G	E	E	F	F	F/G	E	E	E	F
Raptor	E	E	F	E	E	E	F/G	E	E	G	G	G	E	E	E	F
Reflex	G/E	F	E	G	F	P	G	G	E	P	G	G	G	P	F	E
Resource	E	P	P	P	P	F	P	P	F	P	P	P	P	P	E	F
Scepter	E	E	P	P	P	P	P	F	E	P	P	P	P	E	P	P
Storm	G	G	F	E	F	F	G	G	G	G	G	G	E	G	G	E
Synchrony XP*	E	E	P	G	F	E	G	P	E	P	G	F	E	E	E	F
Ultra Blazer	G	F	E	E	F	P	G	G	E	F	G	F/G	G	F	F	E

# Soybean Herbicides

## PRE-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
Authority Assist	Do not use	Coarse	<1%	It is a combination of Authority and Pursuit. Apply in fall, preplant incorporate, early pre plant, or preemerge. Do not use on soils classified as sands with O.M. less than 1%. Rates can be applied up to 12 oz/A for longer residual and with conventional soybeans. Reduced rate of 4-6 oz/A is recommended for RR soybeans. Do not apply to soils with pH of 7.5 or higher and frozen ground. Do not apply after soybeans have emerged.
	6-8 oz.	Coarse	1-2%	
	8-10 oz.	Coarse	2-4%	
	8-10 oz.	Medium	1-2%	
	10-12 oz.	Medium	2-4%	
	10-12 oz.	Fine	1-2%	
	12 oz.	Fine	2-4%	
Authority MTZ	Do not use	Coarse	<1%	It is a combination of Authority 75DF and Sencor. Apply in fall, preplant incorporate, early pre plant, or preemerge. It may be applied up to 30 days before planting. Do not apply after soybeans have emerged. Do not apply to soils classified as sand, which has less than 1% o.m., greater than 7.5 pH, and to frozen ground. Do not incorporate greater than 2 inches.
	10 oz	Medium	<2%	
	10-12 oz	Medium	2-4%	
	10-12 oz	Fine	1-2%	
	12-14 oz	Fine	2-4%	
Authority First	6.45 oz.		<3%	It is a combination of Authority 75DF and First Rate. Apply preplant incorporate, preplant surface, or preemerge application. Apply alone or in tank mix combination with other herbicides registered for soybeans. Apply 3.25 oz. for the suppression of weeds in RR Soybeans, maintaining control with sequential application s of registered post emergence herbicides. Do not apply more than 8 oz. per season. Do not apply to soils classified as sands containing less than 1% organic matter.
	8 oz		>3%	
Boundary 6.5 EC	1.25 pts.	Coarse	<3%	Controls broadleaf weeds and annual grasses. Can be applied preplant or pre-emergence. When tank-mixed with no-fill partners like 2,4-D LOV, Gramoxone Max, Roundup WeatherMax, or Touchdown. Emerged weeds are burned down and the residual activity in Boundary keeps them down. Use 1.25-1.5 pts. per acre on Roundup Ready Soybean programs.
	1.25-1.5 pts.	Coarse	>%	
	1.5-1.75 pts.	Medium	<3%	
	1.75-2.25 pts.	Medium	>3%	
	2.25 pts.	Fine	<3%	
	2.25-3 pts.	Fine	>3%	
Canopy	4-5 oz.	Coarse	0.5-2%	Controls broadleaf weeds. Can be incorporated. Do not replant corn until 10 months after application. Apply only on soils with pH under 7. Need 1+ inch of rain to activate. May tank mix with grass herbicides. Can be applied up to 45 days before planting. May be applied at reduced rates in preplant planned sequential (pre/post) programs at 2.25-7.0 oz.
	5-6 oz.	Medium	0.5-2%	
	5-7 oz.	Fine	0.5-2%	
Dual II Magnum/ Parallel	1.0-1.33 pts.	Coarse	<3%	Controls some broadleaf weeds and annual grasses. Can be incorporated. Can be tank mixed with Canopy, Sencor, Scepter or Treflan. Apply a minimum of 10 gal. of water per acre. Use higher rates to control yellow nutsedge and black nightshade.
	1.33 pts.	Coarse	>3%	
	1.33-1.67 pts.	Medium		
	1.33-1.67 pts.	Fine	<3%	
	1.67-2.0 pts.	Fine	>3%	
Envive	2.5-4.0 oz.	All Types	0.5-3.0%	Do not apply more than 2.5 oz/Ac on soils with composite pH greater than 7.0. Can be applied in the fall, pre-plant, and pre-emerge in soybeans. Do not apply to cracking soybeans or after soybean crop has emerged or severe injury will occur. Use 2.5-3.0 oz/Ac as a pre-emerge in front of herbicide tolerant soybeans.
FirstRate	0.6 oz.	All types	<3%	Controls broadleaf weeds. Can be incorporated. Can apply up to 4 weeks before planting. May tank mix with other products. Supplemental label allows aerial application.
	0.75 oz.	All types	>3%	
Gangster	1.8-3.6 oz.	All types		Apply before planting, or up to 3 days after planting. Do not tankmix with Domain, Dual, Boundary, Outlook, or Micro-Tech, unless instructed by state labeling. Use 1.8 oz. rate in Roundup Ready soybeans.
Intro	2.0-2.25 qts.	Coarse		Controls some broadleaf weeds and annual grasses. Can be incorporated. Can be tank mixed with Canopy, Scepter, Sencor or Pursuit. Use maximum label rates for: high organic matter soil, difficult weed species, or incorporation.
	2.0-2.75 qts.	Medium		
	2.0-2.75 qts.	Fine	<3%	
	2.5-3.0 qts.	Fine	>3%	

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN &amp; GARDEN

SEED

FERTILIZER

# Soybean Herbicides

## PRE-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	ORGANIC MATTER	REMARKS
Outlook	12-14 oz.	Coarse	<3%	Controls grasses and some broadleaf weeds, such as, pigweeds. Can be incorporated. Can be applied up to 45 days prior to planting. Use highest rates for best waterhemp and nightshade activity. Can be applied up to 3rd trifoliolate.
	14-18 oz.	Coarse	>3%	
	14-18 oz.	Medium	<3%	
	18-21 oz.	Medium	>3%	
Prefix	1 qt	All types		A maximum of 1.25 pts. of Reflex herbicide and any other product containing fomesafen may be applied per acre in alternate years. Please consult label for max. use rates in different regions other than Missouri.
Prowl H2O	1.5 pt.	Coarse		Controls annual grasses and some broadleaf weeds. See label for >3% organic matter rates.
	2.0 pt.	Medium		
	2.0 pt.	Fine	<3%	
	2.5 pt.	Fine	>3%	
Prowl 3.3 EC	1.2-1.8 pts.	Coarse		Controls annual grasses and some broadleaf weeds. See label for >3% organic matter rates.
	1.8-2.4 pts.	Medium		
	1.8-3.6 pts.	Fine		
Python WDG	0.8-1.0 oz.	Coarse		Controls broadleaf weeds. Can be incorporated. Can apply up to 30 days before planting. Check label because rates will vary depending on weed species. May tank mix with other products.
	0.89-1.33 oz.	Med/Fine		
Scepter DG	2.8 oz.	All types		Controls broadleaf weeds and some annual grasses. Can be tank mixed with Prowl, Treflan, Dual, Lasso. Watch rotation restrictions. Shallow incorporation will aid in weed control. Grass control products need to be added. May follow with 1.4 oz. Scepter DG post-emergence with rotation to soybeans the next year.
Sencor DF/ Metribuzin	Do not use	Sandy loam	<2%	Controls broadleaf weeds and grasses. Especially fit for no-till fields but can be incorporated. Watch rotation restrictions. Additional Prowl can be added for increased shattercane control.
	0.5 lb.	Sandy loam	2-4%	
	0.50-6 lb.	Loam	<2%	
	0.66-0.83 lb.	Loam	2-4%	
	0.66-0.83 lb.	Clay	<2%	
Sonic	6.45 oz.		<3%	It is a combination of Authority 75DF and First Rate. Apply preplant incorporate, preplant surface, or preemerge application. Apply alone or in tank mix combination with other herbicides registered for soybeans. Apply 3.25 oz. for the suppression of weeds in RR Soybeans, maintaining control with sequential applications of registered post emergence herbicides. Do not apply more than 8 oz. per season. Do not apply to soils classified as sands containing less than 1% organic matter.
	8 oz.		>3%	
Spartan 4F	4.5-10.1 oz.	All types		See label for rates specific to O.M. Controls nightshade, waterhemp, and other broadleaf weeds. Can be incorporated in top 1-2 inches. Can be tank mixed with Assure II, Lasso, Dual II Magnum, Cinch, Canopy XL, Frontier, or Prowl. Can be followed by post-emergence planned program of Classic, or Synchrony.
	6.0-12.0 oz.	Medium		
	8.0-12.0 oz.	Fine		
Trifluralin	1.2-1.8 pts.	Coarse	<3%	Controls annual grasses and some broadleaf weeds. Must be incorporated. Can be applied during autumn. See label for fall application and reduced tillage rates. Can be impregnated. Incorporate twice: first time within 24 hours after application. Good shattercane and seedling Johnsongrass control.
	2.4 pts.	Coarse	>3%	
	1.8-3.0 pts.	Medium	<3%	
	3.0-3.6 pts.	Medium	>3%	
	2.4-3.6 pts.	Fine	<3%	
	3.6 pts.	Fine	>3%	
Valor	2-2.5 oz.	Coarse		Apply Valor before planting, during planting, or up to 3 days after planting. May be tankmixed with Python, FirstRate, pendimethalin, Pursuit Plus, or Scepter. Do not tankmix with Domain, Dual, Boundary, Outlook, or Micro-Tech unless instructed by state labeling. Fall applications of Valor may be made when soil temperatures fall below 50 degrees at a 2" depth. Check label for fall applied tank mix partners.
	2-2.5 oz.	Medium		
	2-3 oz.	Fine		
Valor XLT	3-4 oz.	All types	<3%	Use Valor XLT at 2.5 oz/ac on soils with a pH of >6.8. Can be applied for spring or fall applications in soybeans.
	3-5 oz.	All types	>3%	



# There's a reason we chose names like Astound and Exclaim.

You may think you're already getting great control, but you haven't seen anything yet. ***Introducing three adjuvants that maximize your glyphosate investment and protect against variables like dry weather, hard water and problem weeds.*** New Astound™ water conditioner and non-ionic surfactant drives any glyphosate into the plant quicker and is waterfast in minutes. New AirLink™ deposition and drift reduction agent keeps glyphosate on target while penetrating the canopy, even to the lower levels. And new Exclaim™ high surfactant crop oil concentrate gives you penetrating power over tougher-to-control weeds with its unique ability to be tank mixed with glyphosate as well as oil-based herbicides. All three are agricultural-commodity based and concentrated for convenience, making them the perfect complement for Gly-4 Plus™ herbicide. See your dealer and discover what your glyphosate can really do.



GENERAL

# Soybean Herbicides

## POST-EMERGENT

CORN

SORGHUM

SOYBEANS

COTTON

RICE

FORAGES

SMALL GRAINS

LAWN &amp; GARDEN

SEED

FERTILIZER

PRODUCT	RATE PER ACRE	SOIL TYPE	REMARKS
Aim EC	0.25 oz.	All types	Apply Aim EC alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Can apply from 30 days before planting up to the third trifoliolate. Add a NIS at 1 quart per 100 gallons of spray solution.
Arrow	6-10 oz.	All types	Generic Select. Controls annual and perennial grasses. Add 1 to 2 pts. per acre of COC or MSO, depending upon tankmix partner (see label). The addition of AMS at 2.5 to 4 lbs. per acre or UAN at 1 qt. per acre may enhance weed control. Can be tankmixed with: Basagran, Ultra Blazer, Cobra, Classic, Flexstar, Galaxy, Pursuit, Reflex, Resource, Reliance, Storm, Synchrony, and FirstRate. Select at 6 oz. per acre may be tankmixed with glyphosate to control volunteer Roundup Ready corn in Roundup Ready soybeans, add either NIS at .25% v/v or 1 pt. of COC/ac. in tank mix.
Assure II	5-8 oz.	All types	Controls annual grasses. Add 1 qt. surfactant per 100 gal. of water or 1 qt. crop oil per acre. Can be tank mixed with Classic. Rainfast in 1 hour. Harvest interval of 80 days. Can be added to glyphosate to control volunteer Roundup Ready corn in Roundup Ready soybeans.
Basagran	0.75-1.0 qt.	All types	Controls broadleaf weeds. Add 1 qt. crop oil or 2-4 qts. liquid N per acre to increase activity on larger weeds. Rainfall soon after application may reduce control. Apply to weeds in 2-6 leaf stage. Very active on cocklebur.
	1 pt./1pt. (Split application)	All types	Controls broadleaf weeds. Add 1 qt. crop oil or 2-4 qts. liquid N per acre to increase activity on larger weeds. Rainfall soon after application may reduce control. Split application on certain weeds 2-4 inches. Very active on cocklebur.
Cadet	0.4-0.9 oz.	All types	A tank mix partner with Glyphosate to aid in ragweed, morningglory, velvetleaf, lambsquarters, and waterhemp control in glyphosate tolerant soybeans. Do not apply within 60 days of harvest. Apply from first trifoliolate through full flowering.
Classic	0.5-0.75 oz.	All types	Controls broadleaf weeds. Add 1 qt. crop oil and 1 gal. liquid N per acre. Can be tank mixed with Assure II, or in hot, dry conditions 2,4-DB. Rain fast in 1 hour.
Cobra	6-12.5 oz.	All types	Controls broadleaf weeds. Can be tank mixed with other broadleaf and grass herbicides. Always check label. Rainfast in 30 minutes. Refer to label for proper choice of additives depending on humidity and tankmix partner; however the preferred and most often used adjuvant system with Cobra tankmixes is COC or MSO at 1 pt. per acre plus AMS at 2.5 lbs. per acre. Cobra can be tankmixed with: Basagran, Classic, Pursuit, Reliance, Synchrony (STS only), Scepter, FirstRate, Select, Assure II, and 2,4-DB. If Select or Assure II are tankmixed with Cobra a COC or MSO must be used. Only add AMS to the Roundup UltraMax plus Cobra tankmix.
Extreme	3 pts.	All types	Use on Roundup Ready Soybeans. Use 12-15 lbs of AMS and 1 pt. NIS per 100 gallons of spray solution. Controls grasses and broadleaf weeds. Contains Glyphosate and Pursuit.
FirstRate	0.3 oz.	All types	Controls broadleaf weeds. Apply prior to 50% flowering stage of soybeans. Always add 1-2 pts. NIS per 100 gallon spray solution plus 2.5% v/v 28%N or add 1.2% v/v COC or MSO. AMS may be used at 2 lbs. per acre instead of 28% N. May tank mix with glyphosate products, Basagran, Ultra Blazer, Flexstar, Cobra, Reflex, Select, Poast Plus, Assure II, Fusion and others. Supplemental label allows aerial application.
Flexstar	16-24 oz.	All types	Controls broadleaf weeds. Always add 1 gallon of COC or MSO per 100 gallons of spray solution. 1 gallon of liquid N or 10 lbs. of AMS per 100 gallons of spray solution may be added. Can be tankmixed with Fusion, Select, Assure II, Poast Plus, Basagran, Classic, Concert, Synchrony SP, Scepter, Pursuit, Reliance, Resource, and FirstRate. 24 oz. may be used in the MO counties of Bollinger, Butler, Cape Girardeau, Dunklin, Madison, Mississippi, New Madrid, Pemiscot, Perry, Ripley, Scott, Stoddard, and Wayne.
Fusion	8-12 oz.	All Types	Controls annual and perennial grasses. Always add 1 gallon of COC/MSO or 1 qt. NIS per 100 gallons of spray solution. Can be tankmixed with Flexstar, Reflex, Basagran, Ultra Blazer, Classic, Cobra, Concert, FirstRate, Galaxy, Pursuit, Synchrony SP, Tornado, Typhoon.
Glyphosate	1-4 pts.	All types	To be used only on "Roundup Ready" Soybeans. Controls annual grasses and broadleaf weeds. Adding ammonium sulfate at 8.5-17 lbs. per 100 gallons of water may increase the performance.
Harmony GT	0.084 oz.	All types	Controls broadleaf weeds. Always use with 28% N. Add surfactant or COC at half the normal rate. Can be tank mixed with Classic, Basagran, Galaxy or in hot, dry conditions 2,4-DB. Rainfast in 1 hour.
Harmony GT SG	0.126 oz.	All types	Controls broadleaf weeds. Always use with 28% N. Add surfactant or COC at half the normal rate. Can be tank mixed with Classic, Basagran, Galaxy or in hot, dry conditions 2,4-DB. Rainfast in 1 hour.
Ignite 280SL	22 oz.	All types	Use only on Liberty Link Soybeans. Apply to young, actively growing 3-4" weeds. Warm temperature, high humidity, and bright sunlight will improve performance. Do not apply more than 2 applications of Ignite to soybean crop. Do not apply more than 44 oz per growing season. Always add AMS at 1.5 lbs/A to spray solution. No substitutions for AMS is recommended. See label for tank mix partners. Do not graze the treated crop or cut for hay.

# Soybean Herbicides

## POST-EMERGENT

PRODUCT	RATE PER ACRE	SOIL TYPE	REMARKS
Phoenix	8-12.5 oz.	All types	Controls broadleaf weeds. Can be tankmixed with FirstRate, Classic, Resource, Synchrony, Raptor, Pursuit and Select. <4" weeds use NIS at 1qt/100 gallons plus COC at 1 pt/100 gallons plus AMS at 2 lbs. per acre. 4-6" weeds use NIS at 1 qt/100 gallons plus COC at 2 pts./100 gallons plus AMS at 2 lbs. per acre. >6" weeds add 1 to 2 pts. per acre of COC plus AMS at 2 lbs. per acre. May be tankmixed with glyphosate on Roundup Ready Soybeans but only add AMS at 2-4 lbs. per acre.
Poast Plus	18-24 oz.	All types	Controls annual grasses. Add 1 qt. crop oil per acre. Can be tank mixed with Basagran or Galaxy.
Pursuit AS	4 oz.	All types	Controls broadleaf weeds and annual grasses. Add 1 qt. surfactant per 100 gallons of spray solution or 1.25 gal. COC per 100 gallons of solution or 1 gallon MSO per 100 gallons AND 1-2 qt. liquid N or 2.5 lbs. AMS per acre. Can be tank mixed with other products. Watch rotation restrictions. Rainfast in 1 hour. Can be tank mixed with other products.
Raptor	4 -5 oz.	All types	Controls broadleaf weeds and annual grasses. Will also control 2-5" lambsquarter. Add 1 gallon MSO or COC per 100 gallons, or 1qt. NIS per 100 gallons of water and 1-2 qt. liquid N or 2.5 lbs. AMS per acre. Can be tank mixed with other products.
Reflex	16-24 oz.	All types	Controls broadleaf weeds. Add 1 gallon of MSO/COC or 1 qt. NIS per 100 gallons of spray solution. Can be tankmixed with Fusion, Select, Assure II, Poast Plus, Basagran, Classic, Concert, Synchrony SP, Scepter, Pursuit, Reliance, Resource, and FirstRate. 24 oz. may be used in the MO counties of Bollinger, Butler, Cape Girardeau, Dunklin, Madison, Mississippi, New Madrid, Pemiscot, Perry, Ripley, Scott, Stoddard and Wayne.
Resource	4-8 oz.	All types	Controls velvetleaf. For velvetleaf up to the 10-L stage use 8 oz. per acre. Add 1 qt per acre COC or MSO. For increased broadleaf control tankmix with: Basagran, Basagran plus Cobra, Classic, Cobra, FirstRate, Flexstar, Galaxy, Pursuit DG, Select, Scepter DG, Storm, Reflex, Manifest, Raptor, Result, Synchrony, and Reliance. Resource at 2,3, or 4 oz. per acre may be tankmixed with Glyphosate in Roundup Ready soybeans (see label for rates and proper adjuvants) for increased control of velvetleaf and suppression of tall, ivy, entireleaf, and pitted morningglory.
Roundup WeatherMAX/ Roundup PowerMAX	16-52 oz.	All types	To be used only on "Roundup Ready" soybeans. Controls annual grasses and broadleaf weeds. Adding AMS at 8.5-17 lbs. per 100 gallons of water may increase the performance. Maximum single application of this product not to exceed 44 oz. per acre. Maximum combined total of in crop applications from emergence through harvest must not exceed 64 oz. per acre. Maximum amount of this product that can be applied after crop maturity until harvest is 22 oz. per acre. Combined total of all applications including preplant burndown and preharvest applications is 5.3 qts. per acre.
Scepter DG	1.4-2.8 oz.	All types	Controls broadleaf weeds. Add 1 qt. surfactant per 100 gal. of water. Excellent for Cocklebur, sunflowers and volunteer corn control.
Select Maxx	6-16 oz.	All types	Use Select Max at 6 oz. per acre + glyphosate + AMS for volunteer Roundup Ready corn less than 12". Use 9 oz. per acre + glyphosate for volunteer Roundup Ready corn less than 24". Use adjuvant System required by glyphosate label. Use 9 to 12 oz. in tank mixes for control of less than 6" annual grasses in non-GMO soybeans. Use 14-16 oz. per acre for annual grasses greater than 6" or for perennial grasses. Refer to label for tank mix partner adjuvants and rates.
Storm	1.5 pt.	All types	Controls broadleaf weeds. Add 1-2 pt. corp. oil per acre or NIS at 0.25% v/v and .5-1 gallon 28% N per acre or AMS at 8.5-17 lbs/100 gal. of water.
Synchrony XP	.75 oz.	All types	Controls broadleaf weeds. Add 1 gallon of COC per 100 gallon of water and 2-4 qts. 28% N per acre or 2-4 lbs. ammonium sulfate per acre. Can be tank mixed with Assure II or in hot, dry conditions 2,4-DB. Can be tank mixed with other grass herbicides. Check label. Rainfast in 1 hour. Use the high rate only on STS soybeans.
	.375 oz.	Non-STs soybeans	
Touchdown Hi-Tech	14-40 oz.		To be used only on Roundup Ready soybeans. Controls annual grasses and broadleaf weeds. A non-ionic surfactant must be added at .25-.5% V/V of finished spray volume. Adding AMS at 8.5 -17 lbs per 100 gallons of water may increase the performance. If under stress conditions or larger weeds use higher rate of NIS and AMS. Maximum single application of this product not to exceed 40 oz. per acre. Maximum combined total in crop applications from emergence through flowering must not exceed 1.8 qt. per acre. Maximum amount of this product that can be applied after crop maturity until harvest is 20 oz. per acre. Combined total of all applications including preplant burndown and preharvest applications is 4.8 qts. per acre.
Touchdown Total	17-48 oz.		To be used only on Roundup Ready Soybeans. Controls annual grasses and broadleaf weeds. Adding AMS at 8.5 -17 lbs per 100 gallons of water may increase the performance. Maximum single application of this product not to exceed 48 oz. per acre. Maximum combined total in crop applications from emergence through flowering must not exceed 2.2 qts. per acre. Maximum amount of this product that can be applied after crop maturity until harvest is 24 oz. per acre. Combined total of all applications including preplant burndown and preharvest applications is 5.8 qts. per acre. If under stress conditions or larger weeds use the high rate of AMS and include NIS at 0.25% v/v.
Ultra Blazer	1-1.5 pts.	All types	Controls some broadleaf weeds and some annual grasses. Add 1 pt. surfactant per 100 gal. of water. Rainfall soon after application may reduce control. Apply before weeds are 4" tall and actively growing.

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# Soybean Herbicides

## POST-EMERGENT TANK MIXES

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PRODUCT/ RATE PER ACRE	PRODUCT/ RATE PER ACRE	PRODUCT/ RATE PER ACRE	REMARKS
Glyphosate Use label rates	Arrow 6-8 oz.		To be used only on Roundup Ready Soybeans. Controls broadleaf and grass weeds, and volunteer Roundup Ready Corn. Use 6 oz for volunteer corn up to 12" tall and 8 oz for corn up to 24" tall. Always add NIS at 0.25% V/V and use adjuvant system required by glyphosate label.
Glyphosate Use label rates	Select Maxx 6-9 oz.		To be used only on Roundup Ready Soybeans. Controls broadleaf and grass weeds and volunteer Roundup Ready Corn. Use adjuvant system required by glyphosate label. Use 6 oz of Select Maxx on corn less than 12" and 9 oz on volunteer corn less than 24". Always add AMS at 8.5 -17 lbs per 100 gal of water.
Glyphosate Use label rates	Cadet 0.4-0.5 oz.		A tank mix partner with Glyphosate to aid in ragweed, morningglory, velvetleaf, lambsquarters, and waterhemp control in glyphosate tolerant soybeans. Do not apply within 60 days of harvest. Apply from first trifoliolate through full flowering.
Glyphosate Use label rates	Fusilade DX 6-8 oz.		To be used only on Roundup Ready Soybeans. Controls broadleaf and grass weeds, and volunteer Roundup Ready Corn. Use 6 oz on volunteer corn up to 24" tall. Always add NIS at 0.25% V/V and use adjuvant system required by glyphosate label.
Glyphosate See label rates	Flexstar 24 oz.		To be used only on Roundup Ready Soybeans. To be used for improved Palmer amaranth, common ragweed, waterhemp, giant ragweed, and morningglory. Refer to Flexstar label for rotational restrictions to corn, sorghum, and wheat.
Glyphosate See label rates	Ultra Blazer 1-1.5 pts.		To be used only on Roundup Ready Soybeans. Use adjuvant system required by glyphosate label and add NIS 0.25% V/V.
Glyphosate Use label rates	Synchrony 0.375 oz		To be used only on Roundup Ready Soybeans. Always add AMS and NIS at 0.25% V/V.
Glyphosate Use label rates	Resource 2 oz.		To be used only on Roundup Ready Soybeans. To be used only for improved Velvetleaf control.
Glyphosate Use label rates	Cobra 6-12 oz		To be used only on Roundup Ready Soybeans. Use adjuvant system required by glyphosate label and add NIS 0.25% V/V.
Glyphosate Use label rates	Butyrac 200 2 oz.		To be used only on Roundup Ready Soybeans. For best performance add NIS at 0.25% V/V plus AMS.
Glyphosate Use label rates	FirstRate 0.3-0.6 oz.		To be used only on Roundup Ready Soybeans. Use adjuvant system required by glyphosate label and add NIS 0.25% V/V.
Glyphosate Use label rates	Classic 0.5 oz.		To be used only on Roundup Ready Soybeans. Use adjuvant system required by glyphosate label and add NIS 0.25% V/V.
Glyphosate Use label rates	Harmony GT 0.084 oz.		To be used only on Roundup Ready Soybeans. Use adjuvant system required by glyphosate label and add NIS 0.25% V/V.
Arrow 8-10 oz.	Ultra Blazer 1-1.5 pt	FirstRate 0.3 oz.	Controls grasses and broadleaf weeds. Add NIS at 0.25% V/V and 2.5 to 4 lbs. of AMS or 1 to 2 qt/ac. of UAN. Refer to label for proper choice. Use on conventional soybeans.
Arrow 8-10 oz.	Ultra Blazer 1-1.5 pts	Classic 0.5 oz.	Controls grasses and broadleaf weeds. Add NIS at 0.25% and 2.5 to 4 lbs of AMS or 1-2 qts/ac of UAN. Use on conventional soybeans.
Arrow 8-10 oz.	Flexstar 16-24 oz	Classic 0.5 oz.	Controls grasses and broadleaf weeds. Add NIS at 0.25% and 2.5 to 4 lbs of AMS or 1-2 qts/ac of UAN. Use on conventional soybeans.
Arrow 8-10 oz.	Storm 1.5 pts		Controls grasses and broadleaf weeds. Add 1-2pt. Of COC per acre and 8.5 lbs/100 gal of solution of AMS or 1.5-1 gal of UAN. Use on conventional soybeans.

# Soybean Herbicides

## CONSERVATION TILLAGE BURNDOWN CHEMICALS

PRODUCT	RATE PER ACRE	REMARKS
2,4-D Amine	1-2 pts.	Controls emerged broadleaf weeds prior to planting. Delay planting a minimum of 15 days after application at rates up to 1 pint per acre and a minimum of 30 days after application at rates from 1-2 pints per acre.
2,4-D LOV	1-2 pts.	Controls emerged broadleaf weeds prior to planting. Delay planting a minimum of 7 days after application at rates up to 1 pint per acre and a minimum of 30 days after application at rates from 1-2 pints per acre.
Aim EC	0.5 oz.	Adding COC improves speed and spectrum when tank mixed with other burndown herbicides.
Autumn	0.3 oz.	Can be applied from fall thru spring, but 90 days prior to soybean planting. Fall is the preferred timing. Annual and perennial broadleaf weed control of 3" or less. Typical tankmix partners include 2,4-D or glyphosate. Add 1% v/v of COC + AMS or UAN when tankmixed with 2,4-D. Add AMS 8.5 lb/100 gal. of spray solution when tankmixed with glyphosate.
Extreme	3 pts.	Contains glyphosate and Pursuit. Add 1 pt. NIS plus 8.5 lbs. of AMS/100 gallons. 2,4-D may be added for additional control.
Canopy EX	1.1-3.3 oz.	Will provide burndown and residual control of annual and broadleaf weeds up to 3" or perennial weeds up to 6". Rates depend on soil type and pH. Apply 14 days prior to planting. Addition of 2, 4-D is recommended. Add COC or NIS.
Glyphosate	1-4 pts.	Controls emerged grasses and broadleaf weeds prior to crop emergence. Add ammonium sulfate at 8.5-17 lbs. per 100 gallons of water.
Gramoxone Inteon	2-3 pts.	Controls emerged grasses and broadleaf weeds prior to crop emergence. Consult label for specific rates and timing. Always add either Crop Oil 1 gallon per 100 gallons of mix, MSO at 1 gallon per 100 gallons of mix, or non-ionic surfactant at 1 qt./100 gallons of mix. Gramoxone is a contact herbicide so it is essential to obtain complete coverage of weeds to maximize control.
Hi-Dep	1-2 pts.	Controls emerged broadleaf weeds prior to planting. Delay planting a minimum of 15 days after application at rates up to 1 pint per acre and a minimum of 30 days after application at rates from 1-2 pints per acre.
Valor	1-3 oz.	Valor may be tank mixed with glyphosate to increase the speed of burndown activity compared to glyphosate applied alone.
Valor XLT	3-5 oz.	Valor XLT when tank mixed with glyphosate and or 2,4-D will provide added burndown activity.

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# Soybean Foliar Fungicides

PEST	PRODUCT	RATE/ACRE	REMARKS	
CORN	Alto	2.75-5.5 oz.	Do not apply more than 11 oz. per season. Do not apply within 30 days of harvest. NIS at 0.25% is the recommended adjuvant.	
	Echo 720	16-40 oz.	Protectant that gives only contact, preventative control. For optimum control apply before disease occurs. Common use rate is 27 oz. per acre. See label regarding adjuvants and tank mix partners.	
SORGHUM	Folicur/Punch/ Uppercut	3-4 oz.	Fungicide that has a Sec. 18 label. Triazole with a curative – xylem systemic mode of action. Common use rate is 4 oz. per acre. See label regarding adjuvants and tank mix partners. Maximum number of applications per season is 2. Maximum rate per season is 8 oz. per acre. See label regarding adjuvants and tank mix partners.	
SOYBEANS	Laredo E.C.	4-8 oz.	Fungicide that has a federal label. Triazole with a curative – xylem systemic mode of action. Common use rate is 7 oz. per acre. See label regarding adjuvants and tank mix partners. Maximum number of applications per season is 2. Maximum rate per season is 16 oz. per acre. See label regarding adjuvants and tank mix partners.	
	Asian Soybean Rust and Foliar Diseases	Domark	5 oz	Apply in 10-25 GPA-Ground, Do not apply after the R-5 growth Stage. Do not apply more than 10 oz per season. Do not apply through any irrigation system. Controls Asian soybean rust, Anthracnose, Brown spot, Cercospora blight, Frogeye leaf blight, and Powdery mildew.
	COTTON	Headline	6-12 oz.	Strobilurin with a preventative/locally systemic mode of action. For optimum control apply before disease occurs. Common use rate is 6 oz. per acre. Maximum number of applications per season is 2. Maximum rate per season is 24 oz. per acre. See label regarding adjuvants and tank mix partners. Controls Asian soybean rust, Alternaria leaf Spot, Anthracnose, Brown spot, Cercospora blight, Frogeye leaf spot, Pod and stem blight, and Rhizoctonia aerial blight.
		RICE	Quadris	6.2-15.4 oz.
	FORAGES	Quadris Xtra	5-6.8 oz	Do not apply more than 13.6 oz/A per season. Do not apply within 30 days of harvest. 5 oz/A is the standard use rate. NIS at 0.25% v/v is the recommended adjuvant.
		Quilt	14-20 oz.	A combination of a triazole with a curative – xylem systemic and strobilurin with a preventative/locally systemic mode of action. Common use rate is 14 oz. per acre. See label regarding adjuvants and tank mix partners. Maximum number of applications per season is 2. See label regarding adjuvants and tank mix partners. Controls Asian soybean rust, Alternaria leaf spot, Anthracnose, Brown Spot, Cercospora blight, Frogeye leaf spot, and Pod and stem blight.
	SMALL GRAINS	Stratego	10 oz.	A combination of a triazole with a curative – xylem systemic and strobilurin with a preventative/locally systemic mode of action. Common use rate is 10 oz. per acre. See label regarding adjuvants and tank mix partners. Maximum number of applications per season is 2. See label regarding adjuvants and tank mix partners. Controls Asian Soybean rust, Alternaria leaf spot, Anthracnose, Brown Spot, Cercospora blight, Frogeye leaf spot, and Pod and stem blight.
	LAWN & GARDEN			
SEED				
FERTILIZER				



## THE XLT EFFECT.

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Valor XLT qualifies for



# Soybean Insecticides

	PEST	PRODUCT	RATE/ACRE	REMARKS	
CORN	Armyworm	Baythroid XL	1.6-2.8 oz.	Harvest interval 45 days.	
		Cobalt	13-38 oz.	Harvest interval 30 days. Rate dependent on species.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate	1.6-1.92 oz.	Harvest interval 45 days.	
		Lannate L	1-2 pts.	Harvest interval 14 days. Do not graze.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
		Respect	2.8-4.0 oz.	Apply as required by scouting.	
		Silencer/Lambda star	3.20-3.84 oz.	Spray. Harvest interval 30 days.	
		Steward	5.6-11.3 oz.	Do not feed or graze livestock on treated plants.	
SORGHUM	Armyworm	Warrior II	1.6-1.92 oz.	Do not feed or graze livestock on treated plants.	
		Asana XL	5.8-9.6 oz.	Do not feed or graze livestock on treated plants.	
		Baythroid XL	1.0-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.	
		Cobalt	13-28 oz.	Harvest interval 30 days.	
		Endigo	2.5-3.5 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.	
		Furadan 4F	.25-.5 pt.	Do not apply within 21 days of harvest, feed, or graze livestock.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	.96-1.92 oz.	Check label for rates on specific pests. Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	1.28-4.0 oz.	Apply as required by scouting.	
SOYBEANS	Bean leaf beetle, cutworm	Respect	1.28-4.0 oz.	Apply as required by scouting.	
		Silencer/Lambda Star	1.92-3.84 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.	
		Permethrin	2-4 oz./acre	Do not graze or feed soybean forage for hay.	
		Warrior II	1-1.92 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.	
		Blister beetle, webworm	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
COTTON	Blister beetle, webworm	Respect	2.8-4.0 oz.	Apply as required by scouting.	
		Warrior II	2.8-4.0 oz.	Apply as required by scouting.	
		Small grains	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
RICE	Blister beetle, webworm	Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
		Small grains	Respect	2.8-4.0 oz.	Apply as required by scouting.
		Forages	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
FORAGES	Blister beetle, webworm	Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
		Respect	2.8-4.0 oz.	Apply as required by scouting.	
		Small grains	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
SMALL GRAINS	Blister beetle, webworm	Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
		Respect	2.8-4.0 oz.	Apply as required by scouting.	
		Forages	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
LAWN & GARDEN	Blister beetle, webworm	Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
		Respect	2.8-4.0 oz.	Apply as required by scouting.	
SEED	Blister beetle, webworm	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.	
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	
		Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.	
FERTILIZER	Blister beetle, webworm	Respect	2.8-4.0 oz.	Apply as required by scouting.	
		Forages	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.	
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.	
		Karate Z	1.6-1.92 oz.	Harvest interval 45 days.	
		Lorsban 4E/others	1-2 pts.	Harvest interval 28 days. Do not graze.	

# Soybean Insecticides

PEST	PRODUCT	RATE/ACRE	REMARKS
Corn earworm, green clover, worm, Mexican bean caterpillar	Asana XL	2.9-5.8 oz.	Do not feed or graze livestock on treated plants.
	Baythroid XL	1.6-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days. Green forage may be fed 15 days after last application.
	Endigo	2.5-3.5 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
	Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.
	Karate Z	.96-1.6 oz.	Check label for rates on specific pests. Harvest interval 45 days.
	Lannate L	.5-2 pts.	Harvest interval 14 days.
	Lorsban 4E/others	.5-2 pts.	Harvest interval 28 days. Do not graze.
	Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.
	Permethrin	2-4 oz.	Do not apply within 60 days of harvest. Do not graze or feed. Pounce controls bean leaf beetle, cutworms, soybean looper, and potato leafhopper.
	Respect	2.8-4.0 oz.	Apply as required by scouting.
	Silencer/Lambda Star	1.92-3.84 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
Grasshopper	Steward	5.6-11.3 oz.	Do not feed or graze livestock on treated plants.
	Warrior II	1-1.92 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
	Asana XL	5.8-9.6 oz.	Do not feed or graze livestock on treated acres. Harvest interval 21 days.
	Cobalt	See label	Harvest interval 30 days. No more than 3 applications per season.
	Endigo	3.5-4.5 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
	Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.
	Lorsban 4E/others.	.5-1 pts.	Harvest interval 28 days, do not graze.
	Mustang Max EC	3.2-4 oz.	Use 3.2 oz. on small grasshoppers and 4.0 oz. on grasshoppers greater than 1.5" long.
	Orthene 75S	.33-1.33 lbs.	Use low rate for grasshoppers, high rate for stinkbugs. Do not feed.
	Respect	3.2-4 oz.	Use 3.2 oz. on small grasshoppers and 4.0 oz. on grasshoppers greater than 1.5" long.
	Silencer/Lambda Star	3.2-3.84 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
Mexican bean beetle, spider mite Mexican bean beetle, thrips	Warrior II	1.6-1.92 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
	Dimethoate	1 pt.	Use as needed. Harvest interval 21 days.
	Lorsban 4E/others	1-2 pts.	Harvest interval 28 days, do not graze.
	Baythroid XL	1.0-2.8 oz.	Rate of application is variable according to pest pressure and timing of spray. Harvest interval 45 days.
	Di-Syston 15G	7.5 lbs.	Apply at planting. Place in 4 inch band in front of press wheel.
	Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.
	Mustang Max EC	2.8-4.0 oz.	Apply as required by scouting.
	Respect	2.8-4.0 oz.	Apply as required by scouting.
Nematodes	Thimet 20G	9.8 lbs.	Banded at planting. Do not apply directly on seed. Use 9 oz./1000 ft. row. Do not feed foliage. Do not use with metribuzin herbicides or other soil-applied organo-phosphate pesticides.
	Temik 15G	10-20 lbs.	Apply in a 1-2 inch band and work into soil 2-4 inches before or at planting.

GENERAL

CORN

SORGHUM

SOYBEANS

COTTON

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GENERAL

# Soybean Insecticides

PEST	PRODUCT	RATE/ACRE	REMARKS	
SOYBEANS	Soybean Aphids	Asana XL	5.8-9.6 oz.	Do not feed or graze livestock on treated acres. Harvest interval 21 days.
		Cobalt	13-26 oz.	Harvest interval 30 days. No more than 3 applications per season.
		Endigo	2.5-3.5 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.
		Mustang Max EC	2.8-4 oz.	Apply as required by scouting.
		Respect	2.8-4 oz.	Apply as required by scouting.
		Silencer/Lambda Star	1.92-3.84 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
SOYBEANS	Spider mites	Lorsban 4E/others	.5-1 pt.	Retreat if necessary. Do not exceed 6 pts. Lorsban 4E per season. Do not graze.
		Hero	10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.
SOYBEANS	Stinkbugs	Asana XL	9.6 oz.	Do not feed or graze livestock on treated acres. Harvest interval 21 days.
		Cobalt	19-38 oz.	Harvest interval 30 days. No more than 3 applications per season.
		Endigo	4-4.5 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
		Hero	4-10.3 oz.	Harvest interval 21 days. Do not feed, hay, or graze treated soybean forage.
		Mustang Max EC	4.0 oz.	Apply as required by scouting.
		Respect	4.0 oz.	Apply as required by scouting.
		Silencer/Lambda Star	3.84 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.
SOYBEANS	Warrior II	1.92 oz.	Do not apply within 30 days of harvest. Do not graze or harvest forage straw or hay for livestock feed.	

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