

Soybean Herbicide

Compatibility with Fertilizers as Application Carriers

Herbicide	Fertilizer	
	Fluid	Dry
Anthem Maxx	Y	Y
Assure II/Targa	N	N
Authority Elite/Broadaxe	Y	Y
Authority Edge/Authority Supreme	Y	Y
Broadstrike + Dual or Treflan	Y	Y
Dual Magnum	Y	Y
FirstRate	Y	Y
Glyphosate	N	N
Liberty/Cheetah	N	N
Metribuzin	Y	Y
Outlook	Y	Y
Paraquat	Y	N
Prowl	Y	Y
Pursuit	Y	N
Python	Y	Y
Select Max	N	N
Sharpen	Y	Y
Synchrony XP	N	N
Treflan/Trilin/trifluralin	Y	Y
Turbo	Y	Y
Valor	Y	Y
Warrant	N	Y
Zidua	Y	Y

Y = Yes, N = No

There are many specific fertilizer incompatibilities and restrictions with most herbicides. Be sure to read the herbicide label for specific mixing or impregnation instructions. Compatibility agents are required for many mixes. A typical compatibility test procedure for mixing herbicides in fluid fertilizers is given on page 4. NOTE: Compatibility with dry fertilizer is listed here from a labeling standpoint. The University of Arkansas only recommends herbicide application on dry fertilizer as a third alternative to spraying in water or in liquid fertilizer.

Rainfall-free Periods for Postemergence Herbicides

Herbicide	Time Before Rainfall
2,4-DB	4 hrs
Assure II/Targa	1 hr
Basagran	8 hrs
Classic	4 hrs
Cobra	30 min
Enlist One	4 hrs
Enlist Duo	4 hrs
Engenia/Xtendimax	4 hrs
FirstRate	2 hrs
Fusilade, Fusion	1 hr
Glyphosate	4-6 hrs
Liberty/Cheetah	4 hrs
Paraquat	30 min
Poast/Poast Plus	1 hr
Pursuit	1 hr
Python	4 hrs
Reflex, Flexstar, Typhoon	4 hrs
Resource	1 hr
Reviton	1 hr
Select Max	1 hr
Sharpen	1 hr
Storm	8 hrs
Synchrony XP	4 hrs
Tavium	4 hrs
Ultra Blazer	6 hrs
Valor	1 hr

These are intervals that must occur between application and the first rainfall event in order for no loss in herbicide activity to occur.

Soybean Postemergence Herbicide Preharvest Application Intervals (PHI)

Herbicide	PHI
2,4-DB	60 days
Assure II/Targa	80 days
Basagran	No restrictions
Classic	60 days
Cobra	90 days
Enlist One	R2
Enlist Duo	R2
Engenia/Xtendimax	7 day PHI; R1 cutoff
Dual Magnum	90 days
FirstRate	65 days
Fusilade DX	1st bloom / R1
Glyphosate	After flowering / R3
Liberty/Cheetah	70 days
Poast/Poast Plus	90 days
Pursuit	85 days
Python	85 days
Reflex, Flexstar, Typhoon	1st bloom / R1
Resource	60 days
Select Max	60 days
Sharpen	3 days
Storm	50 days
Synchrony XP	60 days
Tavium	75 days PHI; V5 cutoff
Ultra Blazer	50 days
Valor	60 days

These intervals are the number of days that must be allowed between herbicide application and harvest. Applications made after these interval restrictions could cause illegal herbicide residues to be present in the harvested grain.

Soil-Applied Herbicide Rates for Soybeans
Soil Texture

Herbicide	Coarse (light)	Medium	Fine (heavy)
Broadcast Rates Per Acre			
Preplant (Normal Rates)			
Afforia	2.5 oz	2.5 oz	2.5 oz
Dual Magnum	1 pt	1.33 pt	1.67 pt
Dual Magnum + metribuzin 75DF	0.8 pt + 0.33 lb	1 pt + 0.5 lb	1.33 pt + 0.67 lb
Prowl 3.3EC	1.2-1.8 pt	1.8-2.4 pt	2.4-3.6 pt
Prowl H ₂ O 3.8 CS	1.0-1.6 pt	1.6-2.1 pt	2.1-3.2 pt
Sonic	3-6 oz	3-6 oz	3-6 oz
Synchrony XP	1.5 oz	1.5 oz	1.5 oz
Treflan, Trilin, Trifluralin 4EC	1 pt	1.5 pt	2 pt
Valor	2 oz	2 oz	2 oz
Preemergence			
Afforia	2.5 oz	2.5 oz	2.5 oz
Anthem Flex	2.25-2.75 oz	2.75-5.55 oz	4.0-5.5 oz
Anthem Maxx	2-3.25 oz	2.5-4.75 oz	3.5-5.5 oz
Authority Edge	5.9-7.9 oz	7.0-10.0 oz	9.0-12.0 oz
Authority Elite	19-23 oz	24-26 oz	27-32 oz
Authority MTZ	10-12 oz	12-14 oz	14-18 oz
Authority Supreme	6-6.9 oz	6-9.8 oz	7-11.5 oz
Boundary	1.2-1.5 pt	1.5-2 pt	1.75-2.25 pt
BroadAxe XC	19-25 oz	25-32 oz	25-32 oz
Dual Magnum	1 pt	1.33 pt	1.67 pt
Dual Magnum + metribuzin 75DF, Boundary	0.8 pt + 0.33 lb	1 pt + 0.5 lb	1.33 pt + 0.67 lb
Enlite	2.8 oz	2.8 oz	2.8 oz
Envive	3.5 oz	3.5 oz	3.5 oz ¹
Metribuzin 75DF	0.33-0.5 lb	0.5-0.67 lb	0.67-1 lb
Outlook	10-14 oz	14-16 oz	16-18 oz
Prefix	2 pt	2-2.5 pt	2-3 pt
Python	1 oz	1.1 oz	1.3 oz
Sharpen	--	1 oz	1 oz
Sonic/Authority First	3-6 oz	3-6 oz	3-6 oz
Surveil (co-pack)	3 oz	3 oz	3 oz
Tendovo	1.2-1.5 qt	1.35-2.1 qt	1.75-2.35 qt
Trivence ¹	6 oz	6-8 oz	8-10 oz
Valor	2 oz	2 oz	2 oz
Verdict	--	5 oz	5 oz
Warrant	1.25 qt	1.5 qt	1.9 qt
Zidua SC	2.5-3.5 oz	3.25-5	4-5.75 oz
Zone Defense	3.5-5.0 oz	4.5-5.0 oz	5.0 oz

¹See label for pH restrictions.