

# **Herbicides Persistence and Rotation to Cover Crops**

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**Table 4. Common corn and soybean herbicides, estimated half-lives, cash crop restrictions and their potential to injure fall cover crops. ~~Table 351e~~**

**CORN**

<b>Herbicide</b>	<b>Active ingredient1.(</b>
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Simazine 4L (Princep)	simazine	1-2 qt	60	Can plant corn, sorghum, and soybean the following year (some products allow others)	Sorghum species	Cereals, Ryegrass, legumes, and mustards	Soil pH > 7
Stinger 3S (Hornet and Surestart)	clopyralid	5 oz	40	Recrop intervals 10.5 to 18 mo. for legumes.	All grasses	Small seeded legumes	

## SOYBEAN

Herbicide	Active ingredient	Normal Rate/acre	Half life (days) <sup>1</sup>	Cash crop restrictions	Fall cover crops		Other
					OK to plant	Concern for	
Assure II/Targa 0.88E	quizalofop	8 oz	60	Most broadleaves OK	Most broadleaves	All grasses if less than 120 days or at high rates	Plant anything after 120 days
Authority 75DF (Spartan 4F)	sulfentrazone	4 oz	32-302	12 to 24 months for legumes and some vegetables	Cereals and ryegrass	Small seeded legumes, mustards, sorghum	Labeled on tobacco, sunflowers, transplanted tomato
Classic 25DF (Canopy, Envive, etc.)	chlorimuron	0.5-2 oz	40	12 to 30 months for small seeded legumes	Cereals and ryegrass	Small seeded legumes, mustards, sorghum	More persistent in high pH soils (> 7) and with higher soil applied rates
FirstRate 84WDG	cloransulam	0.3 to 0.6 oz	8-33				

Reflex 2E/ Flexstar 1.88E	fomesafen	1.5 pt	100	Recrop intervals range from 4 to 18 months	Cereal grains	Small seeded legumes, mustards, sorghum	Since fomesafen is often applied postemergence, soil activity can surprise users
Scepter 1.5AS	imazaquin	0.66 pt	60-90	Recrop intervals range from 11 to 18 months	Cereal grains	Small seeded legumes, mustards	Carryover much more of a risk with drought
Select 2E	clethodim	10 oz	3 d	Most broadleaves OK	All broadleaves	None assuming at least 30 days.	Plant anything after 30 days
Valor 51WDG	flumioxazin	2.5 oz	12-20	Recrop restrictions up to 10 mo. for no-till alfalfa, clover and 12 mo. for no-till canola	All grasses	Small seeded legumes and mustards	Based on the half-life, all nonfood/feed winter cover crops should be OK

### CORN AND SOYBEAN

Herbicide	Active ingredient	Normal Rate/acre	Half life (days) <sup>1</sup>	Cash crop restrictions	Fall cover crops		Other
					OK to plant	Concern for	
Glyphosate 4L	glyphosate	0.75 to 1.25 lb	47	No restrictions preemergence	All	None	Glyphosate does not have soil activity at normal use rates
Gramoxone 2S	paraquat	2 pt	1000	No restrictions preemergence	All	None	Paraquat does not have soil activity at normal use rates
Harmony 50WDG	thifensulfuron	1/8 oz	12	Any crop can be planted 45 days after application	No restrictions for wheat, barley, and oats	None with 45 day waiting interval	Harmony Extra also contains tribenuron
Liberty 2.34L	glufosinate	22 - 36 fl. oz	7	No restrictions for canola, corn, and soybean. Small grains have a 70 day restriction.	All	Food or feed residues rather than crop injury may be a concern	Glufosinate does not have soil activity at normal use rates
Metribuzin 75DF (Sencor)	metribuzin	0.63 lb	14-60	Recrop restrictions range from 4 to 12 mo.	Cereal grains and ryegrass	Slight risk for small seeded legumes and mustards	Nonfood/feed winter cover crops allowed

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