

Herbicide use may restrict grazing options for cover crops

nterest in cover crops has dramatically increased due to their many potential benefits. In addition to conservation purposes, cover crops can provide forage for livestock producers. It is important for livestock producers to consider restrictions on labels of herbicides used earlier in the growing season if they intend to use the cover crop as a forage source.

The two primary reasons for label restrictions related to cover crops are:
1) herbicide residues may prevent successful establishment of the cover crop, or 2) residue tolerances have not been established for the presence of the herbicide within the cover crop. Regardless of the reason for the restriction, failing to follow the restrictions is a violation of the label and therefore a punishable offense.

The following tables list herbicide products that allow the establishment of cover crops for the purpose of grazing or forage harvest during the same cropping season as application. Herbicides are divided into three categories based on the minimum interval between application and planting of cover crops intended for forage purposes. The first group of herbicides allows planting of the indicated cover crops within four months of application; the herbicide label will list the specific time interval.

Table 1. Corn herbicides allowing establishment of cover crops for grazing/forage during the season of application.

Cover crop options that can be planted within 4 months of application.								
Tradenames	Cereal rye	Wheat	Oats	Barley	Others*			
Armezon/Impact	Х	Χ	Χ	Х				
Basagran	Х	Х	Х	Х	Х			
Buctril	Х	Χ	Х	Х	Х			
Callisto			Х					
Clarity	Х	Χ	Х	Х				
Fierce		X						
glyphosate	Х	X	Х	Х	Х			
Harmony	Х	Х	Х	Х	Х			
Liberty	Х	Χ	Х	Х	Х			
Option	Х	Χ	Х	Х	Х			
Northstar	Х	Χ		Х				
Resolve		Х						
Sharpen	Х	Χ	Х	Х				
Status	Х	Χ	Х	Х				
Valor (≤ 2 oz)	X	X		X				
Zidua (≤2 oz)		X		-				
Stinger		X	Х	Х	Х			
Resource	Х	Х	Х	Х	Х			
Yukon	Х	Χ	Х	Х	Х			
2,4-D	Х	Χ	Х	Х				
Cover crop options that					cation.			
Accent Q	X	X	X	Х				
Anthem Maxx (≤4.9 oz)	Λ	X	Λ	Λ				
Balance Flexx	Х	X	Х	Х				
Callisto	X	X	X	X				
Corvus	X	X	,	~				
Clarity	X	X	Х	Х	Х			
Halex GT	X	X	X	X	,			
Hornet	X	X	X	X				
Instigate	X	X	X	X				
Laudis	X	X	X	X				
Optill	X	X	χ	Λ				
Outlook	X	X	Х	Х				
Prequel	X	X	X	X				
Prowl H20 (<4 pts/A)	Λ	X	,	X				
Python	Х	X	Х	X				
Realm Q	X	X	X	X				
Steadfast Q	X	X	X	X				
Surestart	7.	X	^	^				
Surpass		X						
Verdict	Х	X	Х	Х				
Zidua (≤3 oz)	^	X	Α					
Cover crop options that	t can be nlan		ım of 4 5 mon	ths after ann	lication			
Dual II Magnum	X	X	X	X				
Lumax	X	X	٨	X				
Sequence	X	X	Х	X				
Zemax	X	X	X	X				
Lelliax	٨	٨	^	^				
Cadet**	Х	Х	Х	Х	Х			

^{*} Refer to label to determine specific cover crops that are allowed.

^{**} Any cover crop may be planted following harvest of corn treated with Cadet.

The second group of products requires a minimum of four months between application and planting of cover crops, whereas a 4.5 month interval is required for the third group. The intent of this bulletin is to assist livestock producers in identifying herbicides that are compatible in cropping systems that use cover crops for forage. It is not intended to eliminate the need to read the label and determine specific use restrictions.

Due to the large number of generic and private brand products, not all products are included in these tables. Inclusion of a product in this bulletin does not imply endorsement of that particular brand, nor does exclusion imply non-approval.

No endorsement is intended by Iowa State University Extension and Outreach of companies or their products mentioned nor is criticism implied of similar companies or their products not mentioned.

Prepared by Bob Hartzler, professor in agronomy and extension weed specialist at Iowa State University; Meaghan Anderson, field agronomist with Iowa State University Extension and Outreach; Rebecca Vittetoe, field agronomist for Iowa State University Extension and Outreach.

Photo credit: Page 1 photo by Rebecca Vittetoe.

... and justice for all

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue SW, Washington, DC 20250-9410, or call 800-795-3272 (voice) or 202-720-6382 (TDD), USDA is an equal opportunity provider and employer.

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Cathann A. Kress, director, Cooperative Extension Service, Iowa State University of Science and Technology, Ames, Iowa.

Table 2. Soybean herbicides allowing establishment of cover crops for grazing/forage during the season of application.

Cover crop options that can be planted within 4 months of application.									
Tradenames	Cereal rye	Wheat	Oats	Barley	Others*				
Basagran	X	X	X	X	X				
Classic	X	X	X	X	,				
Cobra	X	X	X	X	Х				
Enlite (pH ≤7.5; ≤4.25 oz)	X	X	X	Λ	, A				
Extreme (East of I-35)		X							
Fierce		X							
Fusilade	Х	X	Х	Х	X				
glyphosate	X	X	X	X	X				
Liberty	X	X	X	X	X				
Poast Plus	X	X	X	X	X				
	^	X	^	^	٨				
Raptor	Х		V	Х	V				
Resource		X	X		X				
Select Max	X	X	X	X	X				
Sharpen	X	X	X	X	V				
UltraBlazer	X	X	X	X	X				
Valor ≤2 oz	Х	X		Х					
Zidua (≤2 oz)		X							
Cover crop options that	t can be plant	ted a minimu	ım of 4 montl	ıs after applic	cation.				
Assure II	X	Χ	Х	X	X				
Authority Assist	X	Χ							
Authority First		Χ							
Authority Maxx	X	Χ		X					
Authority MTZ		Χ		X					
Authority XL	X	Χ		X					
Enlite (pH ≤7.5; ≤4.25 oz)	Х	Х		X					
Envive	X	Χ		X					
Extreme	Х	Х							
FirstRate		Х							
Flexstar GT	Х	Х		Х					
metribuzin		Х		Х					
Optill	Х	Х							
Optill PRO	Х	Χ							
Outlook	Х	Х	Х	Х					
Prowl H20 (≤4 pt/A)		Χ		Х					
Pursuit	Х	X							
Python	X	X	Х	Х					
Raptor	X	X							
Sharpen (≤1 oz)	,,	^			Х				
Valor ≤ 3 oz	Х	Χ		Х	,				
Valor XLT	X	X		X					
Zidua (≤3 oz)	Λ	X		^					
Cover crop options that	t oon ho alou		m of / E man	the often and	ligation				
	•		ını vı 4.3 MOF						
Authority Elite	X	X	N/	X	Х				
Dual II Magnum	X	X	X	X					
Prefix	Х	X	Х	X					
Boundary		Х		Х					
Cadet**	X	Х	X	X	X				

^{*} Refer to label to determine specific cover crops that are allowed.

^{**} Any cover crop may be planted following harvest of soybean treated with Cadet.