



Herbicide Rotational Restrictions FOR COVER AND FORAGE CROPPING SYSTEMS

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This publication provides a starting point of reference when considering using cover crops following herbicides in the cropping system. This publication does not replace the herbicide label. This publication outlines rotational intervals for many commonly used herbicides in Wisconsin. The rotational interval is the required amount of time from herbicide application to subsequent crop establishment for forage or harvest value. For example, a herbicide is applied to soybeans with a 10-month rotational interval for winter cereal rye. The rye could be established 10 months after the herbicide application for food or feed value. This rotational interval is legally required period prior to crop harvest for feed or forage. Cover crops intended for forage value must follow the rotation interval. Cover crops utilized for soil building do not need to follow the rotational interval, however, they may still be prone to herbicide injury. This herbicide injury is often attributed to herbicide carryover and the chances of injury can be better understood after a field bioassay. The herbicide label must be referenced prior to making any management decisions. The rotational intervals stated in this publication are the maximum rotational restriction taken from the most current herbicide label available at time of printing.

Herbicide Carryover

For cover crops to accomplish their intended goals, they must establish well; establishment of cover crops can be compromised by use of residual herbicides, the herbicide activity in the soil for a period of time after application and are applied to the preceding cash crop. The persistence of these residual herbicides may affect cover crop establishment later in the growing season and can be affected by a wide range of management (tillage, application rate, and herbicide application method) and soil properties (moisture, temperature, soil colloid properties, chemical reactions, pH, microbial population, soil texture and organic matter) (Krausz et al., 1992). Cover cropping and using residual herbicides is not impossible but is challenging. Herbicide resistant weed management should be considered when planning herbicide applications. The cost of herbicide program, cover crop benefits, and resistance management should all be considered.

Cover Crop vs. Forage Crop

A crop is classified as a cover crop when no forage or grain biomass is harvested. A cover crop is established for benefits to the soil, cropping system, and environment. A cover crop becomes a forage crop when biomass is harvested for feed. This includes harvesting the crop via grazing or mechanical collection. A cover crop can be used for forage; however, most pesticide labels do not provide the plant back restriction time required from pesticide application to grazing or harvest for cover crops, only forage crops. Therefore, requiring the maximum rotational restrictions be utilized. If these restrictions are not followed, harvesting a cover crop for forage value is illegal. Crop rotation restrictions will vary in length and should be examined for all pesticides and crops in the rotation. A cover crop that will not be harvested for any value can be legally established following any herbicide application, however, the grower takes all responsibility for cover crop injury or failure that may result. Several herbicide labels provide guidance for using cover crop following application. A bioassay is often recommended to evaluate herbicide injury potential.



Winter Cereal Rye Termination for Forage Systems

Winter cereal rye is often harvested as forage and questions arise when the rye should be terminated prior to the subsequent crop. Pre-harvest termination treatment is often illegal. Harvesting winter rye without another termination treatment is effective at reducing biomass and slowing regrowth, however, a second termination method is often required. Chemical treatment of rye regrowth, which may include residual herbicides for the following crop, should accommodate the pre-harvest interval, plant back restrictions for the subsequent crop and not have an antagonistic effect on the rye termination. Post-harvest glyphosate treatments are effective and legal methods of terminating winter rye, and these applications can occur immediately following harvest with no reduction in efficacy.

Bioassay

A field bioassay is often required or recommended prior to establishing crops following residual herbicides. A bioassay is a test that measures the effects of residual herbicides in the soil on a crop in a controlled trial. Herbicide residues may vary in strength and be variable though the field depending management and environmental conditions. A few variables include soil texture, pH, and drainage. A bioassay should be done using the typical management practices for the crop to be planted following herbicide application.

Two types of bioassay may be recommended. The most common, field bioassay, is done by using a small area of the field to plant a small trial area of the intended crop. This crop should be monitored for injury symptoms, stand reductions, reduced biomass/grain production. If injury occurs, extend the rotational interval to the next growing season. If the cover crop planted is for soil building and will not be harvested, a small tolerance for injury may be acceptable.

The second type of bioassay is done in a controlled setting. This includes collecting a small amount of treated soil from the field and placing in pots. These pots should be in a controlled environment (near a window and heated indoor area). The intended crop should be planted in these pots and observed for herbicide injury. More info can be found here "A Quick Test for Herbicide Carry-over in the Soil" Klein et al. 2008. A bioassay does not replace the rotational interval.

Crop Variety and Hybrid Sensitivity to Herbicides

The data presented in this publication shows the rotational cropping intervals for common Wisconsin forage, grain and cover crops. Hybrids and varieties make a difference in herbicide tolerance. Genetic engineering allows crops traditionally injured by some herbicides to allow over the top applications and limited plant back restrictions. Always understand what traits and tolerances are in being used in your cropping system.

References

Klein, R.N., M.L. Bernards, P.J. Shea. 2018. *A Quick Test for Herbicide Carry-over in the Soil*. University of Nebraska-Lincoln Extension Publication G1891.

Krausz, R.F., G. Kapusta, E. L. Knake. 1992. *Soybean (Glycine max) and Rotational Crop Tolerance to Chlorimuron, Clomazone, Imazaquin, and Imazethapyr*. Weed Technol. 1:77-80. doi:10.1017/S0890037X00034321z

Adapted from Bosak, E. and V.M. Davis. 2014. "Herbicide Rotation Restrictions in Forage and Cover Cropping System" University of Wisconsin Crop Weed Science Publication.

When using these data tables use these ground rules:

1. Always read, follow, and understand the herbicide label. The label is the law.
2. This data is intended to be an introduction to herbicide rotational intervals; **always consult the label before making management decisions.**
3. Maximum rotation length is shown; rotation length is often dependent upon herbicide application rate, tillage, soil type, and yearly rainfall.
4. The data is formulated for Wisconsin producers and utilizes rotational data for areas that receive +30 inches of precipitation per year.
5. Some herbicide rotations do not consider frozen soils to count towards the minimum rotation interval; consult the label to clarify this information.

Maximum Rotational Restriction Intervals for Labeled Herbicides in Wisconsin Table

Herbicide-Trade Name	Bioassay Required or Recommended Cover Crop Language		COMMON WI CROPS			SMALL GRAINS/GRASSES						BRASSICAS			LEGUMES						Maximum Rotation	
			CORN (field & silage)	SOYBEAN	ALFALFA	WHEAT	OATS	WINTER RYE	WINTER TRITICALE	BARLEY	ANNUAL RYEGRASS	RADISH	TURNIPS	RAPESEED	BERSEEM CLOVER	CRIMSON CLOVER	RED CLOVER	VETCH	FIELD PEAS	COWPEA		
2,4-D Amine 4, Shredder	--	--	14 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D
2,4-D LV4 Shredder	--	--	14 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D
Aatrex	--	--	0	12 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M
Accent Q	--	--	0	0.5 M	12 M	4 M	4 M	4 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	12 M	18 M	10 M	10 M	18 M	
Acuron	--	--	0	10 M	18 M	4 M	18 M	4 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Acuron Flexi	--	--	0	10 M	18 M	4 M	18 M	4 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Affinity Broadspec	--	--	1.5 M	1.5 M	1.5 M	0	1.5 M	0	0	0	1.5 M	1.5 M	1.5 M	2 M	1.5 M	1.5 M	1.5 M	1.5 M	1.5 M	1.5 M	1.5 M	
Afforia	yes	--	14 D	0	10 M	2 M	10 M	4 M	12 M	4 M	12 M	12 M	12 M	12 M	10 M	10 M	10 M	10 M	4 M	10 M	12 M	
Aim	--	--	0	0	0	0	0	0	0	0	12 M	0	0	0	0	0	0	0	0	0	12 M	
Ally XP	yes	--	34 M	34 M	34 M	1 M	10 M	34 M	34 M	10 M	34 M	34 M	34 M	34 M	34 M	34 M	34 M	34 M	34 M	34 M	34 M	
Alphanex	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
Anthem	--	--	0	4 M	10 M	6 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	8 M	18 M	18 M	
Anthem ATZ	--	--	0	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	8 M	18 M	18 M	
Anthem Flex	--	--	0	4 M	10 M	6 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	8 M	18 M	18 M	
Anthem Maxx	--	--	0	4 M	10 M	6 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	4-8 M	18 M	18 M	
Armezon	--	--	0	9 M	9 M	3 M	3 M	3 M	3 M	3 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	9-18 M	18 M	18 M	
Armezon Pro	--	--	0	9 M	9 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	9-18 M	18 M	18 M	
Assure II	--	--	120 D	0	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	0	120 D	120 D	120 D	
Authority Assist	yes	--	10 M	0	12 M	4 M	30 M	4 M	30 M	9.5 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	
Authority Elite	yes	yes	10 M	0	12 M	4.5 M	12 M	4.5 M	4.5 M	4.5 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	
Authority First	yes	yes	18 M	0	12 M	4 M	12 M	12 M	30 M	12 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	
Authority Maxx	yes	yes	18 M	0	18 M	4 M	18 M	4 M	36 M	4 M	36 M	36 M	36 M	36 M	18 M	18 M	18 M	18 M	36 M	36 M	36 M	
Authority MTZ	yes	--	10 M	0	12 M	4 M	18 M	18 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Authority Supreme	yes	--	4 M	4 M	10 M	6 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Authority XL	yes	yes	10 M	0	12 M	4 M	12 M	4 M	36 M	4 M	36 M	36 M	36 M	36 M	18 M	18 M	18 M	36 M	36 M	36 M	36 M	
Autumn	yes	--	30 D	90 D	18 M	8 M	9 M	4 M	18 M	8 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Autumn Super	yes	--	1 M	2 M	18 M	3 M	18 M	18 M	18 M	9 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Axial Star	--	--	4 M	4 M	4 M	0 M	4 M	4 M	4 M	0 M	4 M	4 M	4 M	4 M	4 M	4 M	4 M	4 M	4 M	4 M	4 M	
Axial XL	--	--	90 D	90 D	90 D	0	90 D	90 D	90 D	0	90 D	90 D	90 D	90 D	90 D	90 D	90 D	90 D	90 D	90 D	90 D	
Balance Flexx	yes	yes	0	6 M	10 M	4 M	18 M	4 M	4 M	6 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Banvel	yes	no	0	45 D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30 DAT	
Basagran	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	
Basis Blend	--	--	0	10 M	18 M	3 M	9 M	3 M	3 M	3 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	
Beacon	--	--	14 D	8 M	8 M	3 M	18 M	3 M	18 M	3 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	8 M	18 M	18 M	
Beyond	--	--	8.5 M	0	3 M	3 M	9 M	4 M	18 M	9 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	

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Restrictions assume cover crop planted in summer/fall shown in months; the most restrictive data is shown.

ACH=after crop harvest; D=days; FY= full year (365 days) after application M=months; NL= not listed; 0= typically a labeled crop with no rotational restriction interval

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			CORN (field & silage)			WHEAT	OATS	WINTER RYE	WINTER TRITICALE	BARLEY	ANNUAL RYEGRASS	RADISH	TURNIPS	RAPESEED	BERSEEM CLOVER	CRIMSON CLOVER	RED CLOVER	VETCH	FIELD PEAS	COWPEA	
Bicep II Magnum	--	--	FY	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Bicep Lite II Magnum	--	--	FY	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Boundary	--	yes	4 M	12 M	12 M	8 M	12 M	12 M	12 M	8 M	12 M	18 M	18 M	18 M	12 M	12 M	12 M	12 M	8 M	12 M	18 M
Breakfree NXT ATZ	--	yes	0	FY	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Breakfree NXT	--	yes	0	FY	9 M	4 M	FY	FY	FY	18 M	18 M	18 M	18 M	18 M	9 M	9 M	9 M	18 M	FY	FY	18 M
Breakfree NXT Lite	--	yes	0	FY	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Broadaxe XC	yes	--	10 M	0	12 M	4.5 M	12 M	4.5 M	4.5 M	4.5 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M
Brox 2EC	--	--	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D
Brox M	--	--	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D
Cadet	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Callisto	--	--	0	10 M	10 M	4 M	18 M	4 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	10 M	10 M	18 M
Callisto GT	--	--	0	10 M	10 M	4 M	18 M	4 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Callisto Xtra	--	--	0	FY	FY	FY	18 M	18 M	18 M	FY	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Canopy	--	--	10 M	0	10 M	4 M	30 M	4 M	30 M	4 M	4 M	30 M	30 M	30 M	12 M	12 M	12 M	30 M	12 M	30 M	30 M
Canopy Blend	--	--	10 M	0	10 M	4 M	30 M	30 M	30 M	4 M	4 M	30 M	30 M	30 M	18 M	18 M	18 M	30 M	12 M	30 M	30 M
Canopy EX	--	--	10 M	0.25 M	12 M	4 M	4 M	4 M	4 M	4 M	4 M	30 M	30 M	30 M	12 M	12 M	12 M	30 M	12 M	30 M	30 M
Caparol	--	yes	5 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M
Capreno	yes	yes	0	10 M	18 M	4 M	18 M	18 M	18 M	10 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Cinch ATZ	--	--	FY	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Cinch ATZ Lite	--	--	FY	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Clarity	--	--	120 D	120 D	120 D	30 D	30 D	30 D	30 D	30 D	30 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Classic	--	--	10 M	0	10 M	4 M	4 M	4 M	4 M	4 M	4 M	30 M	30 M	30 M	12 M	12 M	12 M	30 M	12 M	12 M	30 M
Cobra	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Colt + Salvo	--	--	120 D	120 D	120 D	29 D	120 D	120 D	120 D	29 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Colt + Sword	--	--	120 D	120 D	120 D	0	0	120 D	120 D	0	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Command 3ME	--	yes	9 M	0	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	9 M	9 M	12 M
Corvus	yes	yes	0	9 M	17 M	4 M	17 M	4 M	4 M	9 M	17 M	17 M	17 M	17 M	17 M	17 M	17 M	17 M	17 M	17 M	17 M
Curtail	yes	--	30 D	18 M	18 M	30 D	30 D	30 D	30 D	30 D	30 D	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Curtail M	yes	--	60 D	18 M	18 M	30 D	30 D	30 D	30 D	30 D	30 D	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Degree	--	yes	0	FY	9 M	4 M	FY	FY	FY	FY	FY	FY	FY	FY	9 M	9 M	9 M	9 M	FY	FY	FY
Degree Xtra	--	yes	NL	FY	9 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	9 M	9 M	9 M	9 M	18 M	18 M	18 M
Diflexx	yes	yes	120 D	60 D	180 D	120 D	120 D	120 D	120 D	120 D	120 D	180 D	180 D	180 D	180 D	180 D	180 D	180 D	180 D	180 D	180 D
Diflexx Duo	yes	yes	0	8 M	10 M	4 M	4 M	4 M	4 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	10 M	18 M	18 M
Diuron	--	--	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M
Diuron 80 WDG	--	--	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M	24 M

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Dual II Magnum	--	--	0	0	4 M	4.5 M	4.5 M	4.5 M	12 M	4.5 M	12 M	12 M	12 M	12 M	9 M	9 M	9 M	12 M	12 M	12 M	12 M	
Elevore	yes	no	14 DAT	14 DAT	9 M	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	15 M	15 M	15 M	9 M	9 M	9 M	9 M	9 M	9 M	9 M	15 M
Engenia	--	no	0	28 D	120 D	28 D	28 D	28 D	28 D	28 D	28 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Enlist Duo	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Enlist One	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Enlite	--	--	9 M	0	12 M	3 M	10 M	4 M	30 M	4 M	12 M	30 M	30 M	30 M	12 M	12 M	12 M	30 M	30 M	9 M	9 M	
Envive	--	--	10 M	0	10 M	4 M	10 M	4 M	30 M	4 M	4 M	30 M	30 M	30 M	12 M	12 M	12 M	30 M	12 M	12 M	30 M	
Eptam	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Everest	yes	--	11 M	9 M	NL	4 M	NL	NL	NL	9 M	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Everprex	--	--	0	0	4 M	4.5 M	4.5 M	4.5 M	12 M	4.5 M	12 M	12 M	12 M	12 M	9 M	9 M	9 M	9 M	0	0	12 M	12 M
Expert	--	--	0	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Express	--	--	21 D	8 D	45 D	0	8 D	45 D	0	0	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	60 D
Extreme	yes	--	9.5 M	0	4 M	3 M	18 M	4 M	40 M	9.5 M	40 M	40 M	40 M	40 M	4 M	4 M	4 M	40 M	0	40 M	40 M	40 M
Facet	yes	--	10 M	10 M	24 M	0	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M	10 M
Fierce	--	--	1 M	0	10 M	2 M	12 M	12 M	12 M	12 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	6 M	18 M	18 M	18 M
Fierce EZ	--	--	2 M	0	10 M	2 M	12 M	12 M	12 M	12 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	6 M	18 M	18 M	18 M
Fierce MTZ	--	--	1 M	0	10 M	8 M	12 M	12 M	12 M	12 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	11 M	11 M	18 M	18 M
Fierce XLT	--	--	10 M	0	18 M	4 M	30 M	18 M	30 M	18 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	30 M	18 M	30 M	30 M	30 M
Firstrate	yes	--	9 M	0	9 M	4 M	9 M	18 M	18 M	12 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	9 M	18 M	18 M	18 M
Flexstar	--	--	10 M	0	18 M	4 M	4 M	4 M	4 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	4 M	12 M	18 M	18 M
Flexstar GT	--	--	10 M	0	18 M	4 M	4 M	4 M	4 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	4 M	12 M	18 M	18 M
Forefront HI	yes	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Fultime NXT	yes	--	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Fusilade DX	--	--	60 D	NL	NL	60 D	60 D	60 D	60 D	60 D	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Fusion	--	--	60 D	NL	NL	60 D	60 D	60 D	60 D	60 D	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Glean XP	yes	--	NL	NL	NL	NL	10 M	0	0	16 M	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Goldsky	--	--	9 M	9 M	9 M	1 M	9 M	12 M	1 M	9 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	9 M	12 M	12 M	12 M
Gramoxone SI	--	yes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Halex Gt	--	--	0	10 M	10 M	4.5 M	4.5 M	4.5 M	18 M	4.5 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	10 M	10 M	18 M	18 M
Harmony	--	--	0	0	45 D	0	0	45 D	0	0	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D
Harmony Extra	--	--	28 D	14 D	45 D	0	45 D	45 D	0	0	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	60 D
Harmony GT XP	--	--	0	0	45 D	0	0	45 D	0	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D	45 D
Harness	--	yes	0	FY	9 M	4 M	FY	FY	FY	18 M	18 M	18 M	18 M	9 M	9 M	9 M	9 M	FY	FY	18 M	18 M	18 M
Harness Max	--	yes	0	10 M	10 M	4 M	FY	FY	18 M	FY	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M

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			CORN (field & silage)	SOYBEAN	ALFALFA	WHEAT	OATS	WINTER RYE	WINTER TRITICALE	BARLEY	ANNUAL RYEGRASS	RADISH	TURNIPS	RAPESEED	BERSEEM CLOVER	CRIMSON CLOVER	RED CLOVER	VETCH	FIELD PEAS	COWPEA		
Harness Xtra	--	yes	0	FY	18M	4M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
Hornet	yes	yes	NL	10.5M	10.5M	4M	4M	4M	26M	4M	26M	26M	26M	26M	26M	26M	26M	26M	18M	26M	26M	26M
Huskie	yes	--	4M	4M	4M	7DAT	1M	1M	1M	7DAT	1M	18M	18M	18M	18M	18M	18M	18M	9M	18M	18M	18M
Huskie Complete	yes	--	9M	9M	9M	3M	9M	18M	18M	9M	18M	18M	18M	18M	18M	18M	18M	18M	9M	18M	18M	18M
Impact	--	yes	0	9M	9M	3M	3M	3M	18M	9M	3M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
Instigate	yes	yes	0	10M	10M	9M	9M	9M	9M	9M	18M	18M	18M	18M	18M	18M	18M	18M	10M	18M	18M	18M
Kerb	--	--	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
Keystone	--	--	0	FY	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M	15M
Keystone NXT	--	yes	0	FY	2Y	18M	18M	18M	18M	18M	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y
Laudis	yes	yes	0	8M	10M	4M	4M	4M	4M	4M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
Lexar EZ	--	--	0	FY	18	FY	FY	FY	FY	FY	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
Liberty	--	--	0	0	180D	70D	70D	70D	70D	70D	180D	180D	180D	180D	180D	180D	180D	180D	180D	180D	180D	180D
Linex	--	--	0	0	12M	4M	4M	4M	12M	4M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
Lorox	--	--	NL	0	NL	12M	4M	4M	12M	4M	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Lumax EZ	--	--	0	FY	18M	4.5M	FY	4.5M	18M	4.5	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
Marvel	--	--	10M	0	18M	4M	4M	4M	4M	4M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
MCPA Amine	--	--	NL	NL	NL	0	0	0	60D	0	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MCPA L.V. 4 Ester	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Milestone	yes	--	12M	24M	24M	12M	12M	12M	12M	12M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M
northstar	--	--	14D	8M	8M	3-8M	8M	3M	18M	3M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
nortron	--	--	12M	12M	12M	12M	12M	12M	12M	12M	0	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
Optill	yes	--	0-8.5M	0-1M	4M	3M	18M	4M	40M	9.5M	40M	40M	40M	40M	40M	40M	40M	40M	40M	40M	40M	40M
Optill Pro	--	--	8.5M	1M	9M	4M	18M	4M	40M	9.5M	40M	40M	40M	40M	9M	9M	9M	40M	40M	40M	40M	40M
Orion	--	--	3M	9M	9M	1M	1M	1M	1M	1M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M
Outlook	--	yes	0	0	4-6M	4M	4M	4M	4M	4M	6M	6M	6M	6M	6M	6M	6M	6M	6M	6M	6M	9M
Panoflex	--	--	14D	7D	45D	0	1D	0	0	0	45D	45D	45D	45D	45D	45D	45D	45D	45D	45D	45D	60D
Peak	yes	--	1M	22M	22M	0	0	0	0	0	22M	22M	22M	22M	22M	22M	22M	22M	22M	22M	22M	22M
Permit	--	--	1M	5-9M	9M	2M	2M	2M	36M	2M	36M	12M	36M	36M	9M	9M	9M	36M	9M	36M	36M	36M
Phoenix	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Plateau	yes	--	36M	18M	36M	12M	24M	12M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M	36M	48M
Poast	--	yes	30D	0	0	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D
Poast Plus	--	yes	30D	0	0	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D	30D
Prefix	--	yes	10M	0	18M	4.5M	4.5M	4.5M	18M	4.5M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M	18M
Princep 4L	--	--	0	2Y	2Y	2Y	2Y	2Y	2Y	2Y	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Prowl H2O	--	--	FY	0	6M	4M	10M	FY	FY	4M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	12M	18M

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			CORN (field & silage)	SOYBEAN	ALFALFA	WHEAT	OATS	WINTER RYE	WINTER TRITICALE	BARLEY	ANNUAL RYEGRASS	RADISH	TURNIPS	RAPESEED	BERSEEM CLOVER	CRIMSON CLOVER	RED CLOVER	VETCH	FIELD PEAS	COWPEA	
Pursuit	yes	yes	8.5 M	0	4 M	4 M	18 M	4 M	40 M	9.5 M	40 M	40 M	40 M	40 M	4 M	4 M	4 M	40 M	40 M	40 M	40 M
Python	yes	yes	0	0	4 M	4 M	4 M	4 M	26 M	4 M	26 M	26 M	26 M	26 M	9 M	9 M	9 M	9 M	26 M	26 M	26 M
Quelex	yes	--	3 M	3 M	9 M	0	3 M	3 M	0	0	15 M	15 M	15 M	15 M	15 M	15 M	15 M	15 M	15 M	15 M	15 M
Raptor	--	--	8.5 M	0	3 M	3 M	9 M	4 M	18 M	9 M	18 M	18 M	8 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Realm Q	--	--	0	10 M	10 M	4-9 M	9 M	4 M	4 M	9 M	18 M	18 M	18 M	10 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Reflex	--	--	10 M	0	18 M	4 M	18 M	4 M	18 M	4 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Reglone	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Resicore	--	yes	0	10.5 M	10.5 M	4 M	10.5 M	10.5 M	18 M	10.5 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Resolve SG	--	--	0	10 M	10-18 M	4 M	9 M	18 M	18 M	9 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Resolve Q	--	--	0	10 M	10-18 M	3 M	9 M	3 M	3 M	9 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Resource	--	--	0	0	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D	30 D
Revulin Q	yes	yes	0	10 M	10 M	4 M	8 M	4 M	4 M	8 M	18 M	19 M	20 M	21 M	22 M	23 M	24 M	25 M	26 M	27 M	28 M
Rimfire Max	--	yes	10 M	10 M	10 M	0	12 M	12 M	12 M	10 M	12 M	12 M	12 M	10 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M
Roundup Weathermax	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Roundup Xtend	--	--	0	28 D	120 D	45 D	45 M	45 D	45 D	45 D	45 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	180 D
Rowel FX	--	--	10 M	0	12 M	4 M	NL	4 M	4 M	4 M	4 M	30 M	30 M	30 M	18 M	18 M	18 M	30 M	30 M	30 M	30 M
Scepter	--	--	18 M	0	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Select Max	--	--	30 D	0	0	30 D	30 D	30 D	30 D	30 D	30 D	30 D	0	0	30 D	30 D	30 D	30 D	30 D	30 D	30 D
Sequence	--	--	0	0	4 M	4.5 M	4.5 M	4.5 M	NL	FY	NL	NL	NL	NL	9 M	9 M	9 M	NL	NL	NL	9 M
Sharpen	--	yes	0	3 M	6 M	0	0	0	0	0	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	6 M	9 M
Sinbar	yes	--	2 Y	2 Y	12 m	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y	2 Y
Solstice	--	--	0	10 M	10 M	4 M	ACH	4 M	4 M	4 M	18 M	18 M	18 M	10 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Sonalan HFP	--	--	NL	0	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Sonic	yes	--	10 M	0	12 M	4 M	12 M	12 M	NL	12 M	NL	NL	NL	24 M	NL	NL	NL	NL	NL	NL	30 M
Spartan	yes	--	10 M	0	12 M	4 M	12 M	4 M	12 M	4 M	12 M	12 M	12 M	24 M	12 M	12 M	12 M	12 M	12 M	12 M	18 M
Spartan Charge	yes	--	4 M	0	12 M	4 M	12 M	4 M	4 M	4 M	12 M	12 M	12 M	24 M	12 M	12 M	12 M	12 M	12 M	12 M	18 M
Spartam Elite	yes	--	10 M	0	12 M	4.5 M	12 M	4.5 M	4.5 M	4.5 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M
Spirit	--	--	4 WK	18 M	18 M	3 M	3 M	3 M	3 M	3 M	18 M	18 M	18 M	10 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Stanza	yes	yes	0	10.5 M	10.5 M	4 M	4 M	4 M	26 M	4 M	26 M	26 M	26 M	26 M	10.5 M	10.5 M	10.5 M	10.5 M	26 M	26 M	26 M
Starane Flex	--	--	3 M	9 M	9 M	0	0	12 M	12 M	0	0	12 M	12 M	9 M	12 M	12 M	12 M	12 M	12 M	12 M	12 M
Status	--	--	7 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Steadfast Q	--	--	0	15 D	10 M	8 M	8 M	8 M	18 M	8 M	18 M	18 M	18 M	10 M	18 M	18 M	10 M	18 M	18 M	18 M	18 M
Stinger	yes	--	0	10.5 M	10.5 M	0	0	NL	NL	NL	0	NL	0	0	NL	NL	NL	NL	NL	NL	18 M
Storm	--	--	100 D	0	100 D	40 D	40 D	40 D	40 D	40 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D
Surestart II	yes	--	0	FY	FY	4 M	FY	FY	NL	FY	NL	NL	NL	26 M	FY	FY	FY	NL	FY	FY	26 M

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Surpass	--	--	0	FY	FY	4 M	NL	FY	FY	FY	NL	NL	NL	NL	FY	FY	FY	FY	NL	NL	NL
Surveil	yes	--	9 M	0	10 M	3 M	9 M	NL	NL	NL	NL	NL	NL	30 M*	NL	NL	NL	NL	NL	NL	30 M
Synchrony XP	--	--	9 M	0	9 M	3 M	3 M	3 M	3 M	3 M	3 M	30 M	30 M	19 M	9 M	9 M	9 M	NL	9 M	9 M	30 M
Taraga	--	--	120 D	NL	120 D	NL	120 D	120 D	120 D	NL	120 D	120 D	120 D	NL	120 D	120 D	120 D	120 D	120 D	120 D	120 D
Tavium	yes	yes	4 M	42 D	6 M	4.5 M	4.5 M	4.5 M	12 M	4.5 M	12 M	6 M	12 M	12 M	9 M	9 M	9 M	12 m	6 M	6 m	12 M
Treflan HFP	--	yes	5 M	5 M	5 M	14 M	14 M	14 M	14 M	14 M	14 M	5 M	5 M	5 M	5 M	5 M	5 M	5 M	5 M	5 M	14 M
Tricor	--	yes	4 M	4 M	4 M	8 M	NL	NL	NL	8 M	0	0	0	0	0	0	0	0	0	0	18 M
Tripleflex II	--	--	0 M	FY	FY	4 M	FY	FY	NL	FY	26 M	26 M	26 M	26 M	FY	FY	FY	FY	NL	NL	26 M
Trivence	--	--	10 M	0 M	10 M	4 M	18 M	30 M	30 M	4 M	12 M	30 M	30 M	30 M	18 M	18 M	18 M	30 M	30 M	30 M	30 M
Ultra Blazer	--	--	100 D	0	100 D	40 D	40 D	40 D	40 D	40 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D	100 D
Valor	yes	--	14 D	0	10 M	60 D	12 M	12 M	12 M	4 M	12 M	12 M	12 M	12 M	10 M	10 M	10 M	12 M	12 M	12 M	12 M
Valor XLT	--	--	10 M	0	12 M	4 M	30 M	4 M	30 M	4 M	4 M	30 M	30 M	30 M	18 M	18 M	18 M	30 M	30 M	30 M	30 M
Varisto	--	--	8.5 M	0	3 M	3 M	9 M	4 M	18 M	9 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Velpar	yes	--	12 M	2Y	NL	2Y	2Y	2Y	2Y	2Y	2Y	12 M	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y
Velpar Alfamax	yes	--	12 M	2Y	NL	2Y	2Y	2Y	2Y	2Y	2Y	12 M	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y	2Y
Verdict	--	--	0	0	FY	4 M	FY	4 M	4 M	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY
Warrant	--	yes	0	0	9 M	4 M	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY
Warrant Ultra	--	yes	10 M	0	18 M	4 M	4 M	4 M	FY	4 M	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	18 M
Weld	yes	--	60 D	10.5 M	10.5 M	0	0	0	0	0	0	18 M	120 D	120 D	10.5 M	10.5 M	10.5 M	10.5 M	18 M	18 M	18 M
Widematch	yes	--	0	10.5 M	10.5 M	0	0	0	0	0	0	10.5 M	120 D	120 D	10.5 M	10.5 M	10.5 M	10.5 M	10.5 M	10.5 M	10.5 M
Wolverine	yes	--	9 M	4 M	4 M	1 M	1 M	1 M	1 M	1 M	9 M	9 M	NL	9 M	NL	NL	NL	NL	9 M	NL	9 M
Wolverine Advanced	yes	--	9 M	4 M	4 M	1 M	1 M	1 M	1 M	1 M	9 M	9 M	NL	9 M	NL	NL	NL	NL	9 M	NL	9 M
XtendiMax	--	no	120 D	28 D	120 D	60 D	60 D	60 D	60 D	60 D	60 D	102 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D	120 D
YUKON	--	--	1 M	5 M	9 M	2 M	2 M	2 M	2 M	2 M	2 M	12 M	36 M	15 M	9 M	9 M	9 M	36 M	9 M	36 M	36 M
Zemax	--	--	0	FY	18 M	4.5 M	4.5 M	4.5 M	4.5 M	4.5 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M
Zidua	--	--	0	0	10 M	6 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	2 M	18 M	18 M
Zidua Pro	yes	--	8.5 M	0	10 M	4 M	40 M	11 M	40 M	11 M	40 M	40 M	40 M	40 M	18 M	18 M	18 M	18 M	1 M	40 M	40 M
Zidua SC	--	--	0	0-4 M	10 M	1-6 M	18 M	11-18 M	11-18 M	11-18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	18 M	4-8 M	18 M	18 M

The product information compiled here is intended to be as accurate as possible at the time of printing. Refer to product label for more detailed restriction information. Always follow the product's current label restrictions and instructions.

Restrictions assume cover crop planted in summer/fall shown in months; the most restrictive data is shown.

ACH=after crop harvest; D=days; FY= full year (365 days) after application M=months; NL= not listed; 0= typically a labeled crop with no rotational restriction interval

Resources

Wisconsin Herbicide Label Data <https://www.kellysolutions.com/WI/>

University of Wisconsin Extension Cover Crop Team <https://fyi.extension.wisc.edu/covercrop/>



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