

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. It outlines rotational intervals for many commonly used herbicides in Wisconsin. But it is important to note, however, that this publication does not replace the information provided on herbicide labels. The rotational interval is the required amount of time from herbicide application to subsequent crop establishment for forage or harvest value. For example, if 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 building soil health 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. The establishment of cover crops can be compromised by the soil residual herbicides initially applied to manage weeds in 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 herbicide application. 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 throughout the field depending on 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.

Bioassay Tutorial



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 it 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.

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.

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.

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		Common WI Crops			Small Grains / Grasses						Brassicas			Legumes				Maximum Rotation
	Bioassay Required	Recommended	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
2, 4-D LV6	--	--	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	1	1	1	1	1	1	1	1	1
2,4-D Amine 4	--	--	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2,4-D LV4	--	--	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2,4-DB 200	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
AAtrex 4L	--	--	0	12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
AAtrex Nine-0	--	--	0	12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Accent	--	--	0	0.5	10	8	8	4	4	8	NL	NL	NL	NL	10	NL	10	10	18
Accent Q	--	--	0	0.5	12	4	4	4	18	4	18	18	18	18	12	18	10	10	18
Acuron	Yes	Yes	0	10	18	4	4	4	4	4	18	18	18	18	18	18	18	18	18
Acuron Flexi	--	--	0	10	10	4	4	4	4	4	18	18	18	18	18	18	18	18	18
Acuron GT	Yes	Yes	0	10	10	4.5	4.5	4.5	4.5	4.5	18	18	18	18	18	18	18	18	18
Affinity Broadspec with Totalsol Soluble Granules	--	--	0.75	0.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Afforia	Yes	--	0.5	0	10	2	10	4	12	4	12	12	12	12	10	10	4	10	12
Agent 1.88	--	--	10	0	18	4	4	4	4	4	18	18	18	18	18	18	10	18	18
Agrisolutions Moxy 2E	--	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aim EC	--	--	0	0	0	0	0	0	0	0	12M	0	0	0	0	0	0	0	12
Ally XP	Yes	--	34	34	34	1	10	34	34	10	34	34	34	34	34	34	34	34	34
Amine 4 2,4-D Weed Killer	--	--	0.5	0.5	1	0.5	0.5	0.5	1	0.5	1	1	1	1	1	1	1	1	3
Antares Complete	Yes	--	10	0	12	4.5	18	18	18	4.5	18	18	18	18	18	18	18	18	18
Anthem	--	--	0	4	10	6	18	18	18	18	18	18	18	18	18	18	8	18	18
Anthem ATZ	--	--	0	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Anthem Flex	--	--	0	4	10	6	18	18	18	18	18	18	18	18	18	18	4	18	18
Anthem MAXX	--	--	0	4	10	6	18	18	18	18	18	18	18	18	18	18	4	11	24
Armezon	--	--	0	9	9	3	3	3	3	3	18	18	18	18	18	18	18	18	18
Armezon PRO	--	--	0	9	9	4	4	4	4	4	18	18	18	18	18	18	18	18	18
Arterio 4 F	Yes	--	10	0	12	4	12	4	4	4	12	12	0	24	12	12	0	12	24
AS Metribuzin 75DF	--	Yes	0	0	4	8	18	18	18	8	4	18	18	18	18	18	8	8	18
AS Thifensulfuron 50	--	--	0	0	1.5	0	0	1.5	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
AS Tribenuron 50	--	--	0.75	0.5	1.5	0	0.25	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Assure II	--	--	4	0	4	4	4	4	4	4	4	4	4	0	4	4	0	4	4
Atrazine 4L	--	--	0	12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

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

FY = following year; NL= not listed; 0 = typically a labeled crop with no rotational restriction interval

*Restrictions apply, see label

†When soil pH ≥ 7.5, rotations increase from 17 to 24 months

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Herbicide- Trade Name	Bioassay Required or Recommended		Common WI Crops			Small Grains / Grasses						Brassicas			Legumes				Maximum Rotation
	Cover Crop	Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Atrazine 4L	--	--	0	FY	24	24	24	FY	FY	24	24	24	24	NL	24	24	24	24	24
Atrazine 90 WDG	--	--	0	FY	24	24	24	FY	FY	24	24	24	24	NL	24	24	24	24	24
Atrazine 90DF	--	--	0	FY	24	24	24	FY	FY	24	24	24	24	FY	24	24	24	24	24
Audit 1:1	--	--	0.75	0.5	1.5	0	NL	NL	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Audit 4:1	--	--	1.5	1.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Authority Assist	Yes	--	10	0	12	4	30	4	30	9.5	30	30	30	30	30	30	30	30	30
Authority Edge	Yes	--	10	4	12	10	18	18	18	18	24	24	24	24	24	24	4	4	24
Authority Elite	Yes	--	10	0	12	4.5	12	4.5	4.5	4.5	12	12	12	12	12	12	12	12	12
Authority First DF	Yes	Yes	18	0	12	4	12	12	30	12	30	30	30	24	30	30	9	30	30
Authority Maxx	Yes	Yes	18	0	18	4	18	4	36	4	36	36	36	36	18	18	36	36	36
Authority MTZ DF	Yes	--	10	0	12	4	18	18	18	4	18	18	18	18	18	18	18	18	18
Authority Supreme	Yes	--	4	4	12	6	18	18	18	18	18	18	18	18	18	18	18	18	18
Authority XL	Yes	Yes	18	0	18	4	18	4	36	4	36	36	36	36	18	36	36	36	36
Autumn Super 51 WDG	Yes	--	1	2	18	3	18	18	18	9	18	18	18	18	18	18	18	18	18
Avalanche Ultra	--	--	3.3	0	3.3	1.3	1.3	1.3	1.3	1.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Axial Bold	Yes	Yes	3	3	3	0	3	3	3	0	3	1	1	3	3	3	3	3	3
Axial Star	--	--	4	4	4	0	4	4	4	0	4	4	4	4	4	4	4	4	4
Axial XL	--	--	3	3	3	0	3	3	3	0	3	3	3	3	3	3	3	3	3
Axiom DF	Yes	--	0	0	12	4	12	12	4	12	12	18	18	12	12	12	12	12	18
Balance Flexx	Yes	Yes	0	6	10	4	18	4	4	6	18	18	18	18	18	18	18	18	18
Basagran	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Basagran 5L	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Basis Blend	--	--	0	10	18	3	9	3	3	3	18	18	18	18	18	18	18	18	18
Batalium Amped	Yes	--	15	9	18	0	18	NL	NL	11	NL	NL	NL	9	NL	NL	NL	NL	NL
Beyond	--	--	8.5	0	3	3	9	4	18	9	18	18	18	18	18	18	18	18	26
Beyond Xtra	--	--	8.5	0	3	3	9	4	18	9	18	18	18	18	18	18	18	18	26
Bicep II Magnum FC	Yes	Yes	0	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Bicep Lite II Magnum	--	--	0	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Bison	--	--	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY	FY
BL2	--	Yes	0	0	4	8	18	18	18	8	4	18	18	18	18	18	8	8	18
BL3	Yes	--	0.5	0	10	2	18	4	12	4	12	12	12	12	10	12	4	4	12
BL4	--	--	0	10	10	4	0	4	4	4	18	18	18	10	18	18	18	18	18
Boundary 6.5 EC	--	Yes	4	0	4.5	4.5	12	12	12	8	12	18	18	12	12	12	8	12	18
Brash	--	--	4	4	4	3	3	3	3	3	4	4	4	4	4	4	4	4	6

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Broadaxe XC	Yes	Yes	4	0	12	4.5	12	4.5	4.5	4.5	12	12	12	12	12	12	0	8	12
Broadloom	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Broadworks	--	--	0	10	10	4	4	4	4	4	0	18	18	10	18	18	10	10	18
Broclean	--	--	FY	NL	NL	FY	FY	FY	FY	FY	FY	NL	NL	NL	NL	NL	NL	NL	NL
Brox 2ec	--	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Brox-M	--	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BurnMaster	--	--	4	4	6	2.6	2.6	2.6	2.6	2.6	2.6	6	6	6	6	6	6	6	6
Cadence ATZ NXT	--	Yes	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
Cadence LA NXT	--	Yes	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
Cadence NXT	--	Yes	0	FY	9	4	FY	FY	FY	FY	NL	NL	NL	NL	9	9	FY	FY	NL
Cadet	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calibra	Yes	Yes	0	10	10	4.5	4.5	4.5	4.5	4.5	18	18	18	18	18	18	18	18	18
Callisto	--	--	0	10	10	4	0	4	4	4	0	18	18	10	18	18	10*	10	18
Callisto XTra	Yes	Yes	0	10	10	4	4	4	4	4	18	18	18	18	18	18	18	18	18
Canopy	--	--	10	0	10	4	30	4	30	4	4	30	30	18	12	30	12	12	30
Caparol 4I	--	--	5	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Capreno	Yes	Yes	0	10	18	4	10	18	4	10	18	18	18	18	18	18	18	18	18
Carabiner 4 SC	--	--	0	0	10	4	0	4	18	4	0	18	18	10	18	18	NL	NL	18
Charger Basic	--	--	FY	FY	4	4.5	4.5	4.5	NL	4.5	NL	FY	FY	NL	NL	NL	0	0	NL
Charger Max	--	--	FY	FY	4	4.5	4.5	4.5	NL	4.5	NL	FY	FY	NL	9	NL	NL	NL	NL
Charger Max ATZ	--	--	0	12	24	24	24	NL	NL	24	NL	24	24	NL	24	24	24	24	NL
Charger MAX ATZ Lite	--	--	FY	FY	24	24	24	24	24	24	NL	24	24	NL	24	24	24	24	NL
Chateau	Yes	--	0.25	0	8	1	8	3	NL	3	8	8	8	8	8	8	3	3	8
Chateau EZ	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Cheetah	--	--	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
Clarity	--	--	4	4	4	1	1	1	1	1	1	4	4	4	4	4	4	4	4
Clash Selective	--	--	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Classic	--	--	10	0	12	4	4	4	4	4	4	30	30	30	12	30	12	12	30
Clean Amine	--	--	0.5	0.5	1	0.5	0.5	0.5	1	0.5	1	1	1	1	1	1	1	1	3
Clean Slate Selective	Yes	--	0	10.5	10.5	0	0	NL	NL	0	0	0	0	0	NL	NL	18	18	18
Cleanse 2EC	--	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cloak	--	--	10	0	10	4	NL	4	NL	4	4	30	30	18	12	30	12	12	30
Cloak EX	--	--	10	.5	10	4	4	4	4	4	4	30	30	18	12	30	12	12	30

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Cobra	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Collide	--	--	10	.5	2	10	10	10	10	10	2	3	3	4	2	2	2	2	10
Colt + Salvo	--	--	4	4	4	1	4	4	4	1	4	4	4	4	4	4	4	4	4
Colt + Sword	--	--	4	4	4	0	0	4	4	0	4	4	4	4	4	4	4	4	4
Command 3ME Microencapsulated	--	Yes	9	0	12	12	12	12	12	12	12	12	12	12	12	12	9	9	12
Confidence	--	Yes	0	FY	9	FY	FY	FY	FY	FY	18	18	18	18	9	9	FY	FY	18
Confidence Xtra	--	Yes	0	FY	24	4	24	18	18	24	18	18	18	18	24	24	24	24	24
Confidence Xtra 5.6L	--	Yes	0	FY	24	4	24	18	18	24	18	18	18	18	24	24	24	24	24
Cornerstone 5 Plus	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cornerstone Plus	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Corvus†	Yes	Yes	0	9	17†	4	17†	4	4	9	17†	17†	17†	17†	17†	17†	17†	17†	17†
Credit 41 Extra Non-Selective	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Credit 5.4 Extra Non-Selective	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Credit K6	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Credit Xtreme	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Curio	--	--	9	0	12	3	3	3	3	3	3	30	30	18	12	30	9	9	30
Curtail	Yes	--	1	18	18	1	1	1	1	1	1	18	18	18	18	18	18	18	18
Curtail M	Yes	--	2	18	18	1	1	NL	NL	1	1	18	18	5	18	18	18	18	18
D1691	--	--	4	4	4	2	2	2	2	2	4	4	4	4	4	4	4	4	4
Defendor	--	--	3	9	9	0	0	0	0	0	0	12	12	9	12	12	9	9	12
Degree Xtra	--	--	1.5	FY	NL	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Depth Charge	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Diablo	--	Yes	FY	1	24	0.7	12	NL	NL	12	12	NL	NL	NL	24	24	24	24	36
Dicamba Max 4	--	Yes	0	FY	FY	0	0	NL	NL	0	1.3	FY	FY	FY	FY	FY	FY	FY	FY
DiFlexx	Yes	Yes	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6
Diflexx Duo	Yes	Yes	0	8	10	4	4	4	4	4	18	18	18	10	18	18	10	18	18
Dimetric EXT	--	Yes	4	4	4	8	18	18	18	8	4	18	18	18	18	18	8	18	18
Dimetric Liquid	--	Yes	4	4	4	8	18	18	18	8	4	18	18	18	18	18	8	8	18
Distinct	--	--	0.25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Diuron 4L	--	--	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

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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	Clover	Vetch	Field Peas	Cowpea	
Diuron 80 WDG Weed Killer	--	--	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Divergence 75 WDG	Yes	--	NL	NL	3	0	NL	NL	NL	NL	3	NL	NL	NL	3	3	NL	NL	12
DMA 4 IVM	--	--	0.5	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dog Fight	Yes	--	8.5	0	4	3	18	4	NL	4	NL	NL	NL	NL	4	NL	0	0	NL
Double Header	--	Yes	0	10.5	10.5	4	10.5	10.5	18	10.5	18	18	18	18	18	18	18	18	18
Dual II G Magnum Granular	--	--	0	0	4	4.5	4.5	4.5	NL	4.5	NL	FY	FY	12	9	NL	FY	FY	NL
Dual II Magnum	Yes	Yes	0	0	4	4.5	4.5	4.5	12	4.5	12	2	2	12	9	12	0	0	12
Dual Magnum	Yes	Yes	0	0	4	4.5	4.5	4.5	12	4.5	12	2	2	12	9	12	0	0	12
Durango DMA	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Edition Broadspec	--	--	0.75	0.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Edition Tankmix	--	--	0.75	0.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Elevore	Yes	--	0.5	0.5	9	0.5	0.5	0.5	0.5	0.5	0.5	9	9	0.5	9	15	9	9	15
Empyros	--	--	0	9	18	4.5	4.5	4.5	NL	4.5	18	18	18	18	18	18	18	18	18
Empyros Triad	--	--	0	10	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Empyros Triad Flex	--	--	0	10	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Engenia	--	--	0	1	4	1	1	1	1	1	1	4	4	4	4	4	4	4	4
Enlist Duo	--	--	0.5	0.5	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	1
Enlist One	--	--	0	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Enlite	--	--	9	0	12	3	10	4	30	4	12	30	30	30	12	30	30	9	9
Envive	--	--	10	0	10	4	10	4	30	4	4	30	30	30	12	30	12	12	30
Everest 3.0 Ag	Yes	--	15	9	18	0	18	NL	NL	11	NL	NL	NL	9	NL	NL	NL	NL	NL
EverpreX	--	--	0	0	4	4.5	4.5	4.5	12	4.5	12	12	12	12	9	9	0	0	12
Evik DF	--	--	0	11	11	3	3	3	3	3	11	11	11	11	11	11	11	11	11
Explorer	--	--	0	10	10	4	4	4	4	4	0	18	18	10	18	18	10	10	18
Express with Totalsol Soluble Granules	--	--	0.75	0.5	1.5	0	0.25	0	0	0	1.5	1.5	1.5	2	1.5	1.5	0.25	0.25	2
Express XP	--	--	0.75	0.5	1.5	0	0.25	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Extreme	Yes	--	8.5	0	4	3	18	4	NL	9.5	40	40	40	40	4	40	0	0	40
Facet L	Yes	--	10	10	24	0	10	10	10	10	10	10	10	10	10	10	10	10	10
Fierce	--	--	1	0	10	2	12	12	12	12	18	18	18	18	18	18	6	18	18
Fierce EZ	--	--	1	0	10	2	12	12	12	12	18	18	18	15	18	18	4	11	18
Fierce MTZ	--	--	1	0	10	8	12	12	12	12	18	18	18	18	18	18	4	11	18

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			Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Fierce XLT Soybean	--	--	10	0	18	4	30	18	30	18	30	30	30	30	18	30	18	30	30
FirstRate	Yes	--	9	0	9	4	9	18	18	12	18	18	18	18	18	18	9	9	30
FirstWatch 84 WDG	Yes	--	9	0	9	4	9	18	18	12	18	18	18	18	18	18	9	9	30
Flexstar	Yes	Yes	10	0	18	4	4	4	4	4	18	18	18	18	18	18	4	12	18
Flexstar GT 3.5	Yes	Yes	10	0	18	4	4	4	4	4	18	18	18	18	18	18	4	12	18
Flumi 51 WDG	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Flumi SC	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Flumi SX	Yes	--	0.25	0	8	1	8	3	NL	3	8	8	8	8	8	8	3	3	8
Forfeit 280	--	--	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
Four Power Plus	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Framework 3.3 EC	--	--	0	0	0	4	24	24	12	4	12	24	24	24	0	0	0	0	24
Full Deck	Yes	--	0	12	10.5	0	0	NL	NL	0	0	NL	12	12	NL	NL	10.5	NL	18
FulTime	--	--	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
FulTime NXT	--	Yes	1.5	NL	NL	4	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	18
Fusilade DX	--	--	2	0	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1
Glean XP	Yes	--	NL	NL	NL	0	10	0	0	16	NL	NL	NL	NL	NL	NL	NL	NL	NL
GR2	--	--	9	5	9	1	5	12	1	9	9	12	12	9	12	12	9	9	12
Gramoxone SL 3.0	--	Yes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grapple	Yes	Yes	0	1	18	9	9	NL	NL	9	18	18	18	18	18	18	18	18	18
Graslan L	Yes	--	NL	NL	NL	2	2	2	2	2	NL	NL	NL	NL	NL	NL	NL	NL	36
Grazon PD3	Yes	--	NL	NL	NL	2	2	2	2	2	NL	NL	NL	NL	NL	NL	NL	NL	36
Halex GT	--	--	0	10	10	4.5	4.5	4.5	18	4.5	18	18	18	12	18	18	10*	18	18
Harmony Extra SG with Totalsol Soluble Granules	--	--	0.75	0.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Harmony GT XP	--	--	0	0	1.5	0	0	1.5	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Harmony SG with Totalsol Soluble Granules	--	--	0	0	1.5	0	0	1.5	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Harness	--	Yes	0	FY	9	4	FY	FY	FY	FY	18	18	18	18	9	9	FY	FY	18
Harness Max	--	Yes	0	10	10	4	FY	FY	NL	FY	18	18	18	18	18	18	18	18	18
Harness Xtra	--	Yes	0	FY	24	4	24	18	18	24	18	18	18	18	24	24	24	24	24
Harness Xtra 5.6L Premix for Corn	--	Yes	0	FY	24	4	24	18	18	24	18	18	18	18	24	24	24	24	24

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	Cover	Crop Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Helena Flumioxazin 4 SC	--	--	9	9	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Honcho K6	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Honcho Plus	--	--	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hornet	Yes	Yes	NL	10.5	10.5	4	4	4	NL	4	10.5	26	26	26	26	26	18	18	26
Huskie	Yes	--	4	4	4	0.25	1	1	1	0.25	1	NL	NL	9	NL	NL	9	9	18
Huskie Complete	Yes	--	9	9	9	3	9	NL	NL	9	NL	NL	NL	9	NL	NL	9	NL	NL
Huskie FX	Yes	Yes	4	4	4	0.25	1	1	1	0.25	1	NL	NL	NL	NL	NL	9	9	NL
Imazapic 2SL IVM	Yes	--	36	18	36	12	24	12	NL	24	36	36	36	48	36	36	36	18	48
Impact	--	Yes	0	9	9	3	3	3	18	9	3	18	18	18	18	18	18	18	18
Impact Core	--	--	0	10	8	4	9	9	NL	9	18	18	18	18	18	18	18	18	18
IMPACTZ	--	Yes	0	9	9	9	18	9	18	9	18	18	18	18	18	18	18	18	18
Intensity One	--	--	0.25	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	1
Intensity Post-Emergence Grass	--	--	1	0	0	1	1	1	1	1	1	0	0	0	1	0	0	0	1
Interline	--	--	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
InterMoc	--	--	0	0	12	4.5	4.5	4.5	4.5	4.5	12	12	12	12	12	12	12	12	12
Intimidator	--	--	10	0	18	8	18	12	18	8	18	18	18	18	18	18	10	18	18
Kerb SC & T&O	--	--	12	1	1	6	6	6	6	6	12	3	3	1.5	1	1	1	1	12
Keystone	--	--	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
Keystone LA	--	--	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
Keystone LA NXT	--	Yes	0	FY	24	4	24	NL	NL	24	NL	NL	NL	NL	24	24	24	24	24
Keystone NXT	--	Yes	0	FY	24	4	24	NL	NL	24	NL	NL	NL	NL	24	24	24	24	24
KleenUp Pro	--	--	NL	NL	NL	0	NL	NL	NL	NL	1	NL	NL	NL	0	0	NL	NL	1
Kyro	--	Yes	0	18	10.5	4	10.5	10.5	NL	10.5	18	18	18	18	18	18	18	18	18
Latigo	--	--	4	4	NL	4	4	4	4	4	NL	NL	NL	NL	NL	NL	NL	NL	NL
Latigo Bold	--	--	4	4	NL	4	4	4	4	4	NL	NL	NL	NL	NL	NL	NL	NL	NL
Laudis	Yes	Yes	0	8	10	4	4	4	4	4	18	18	18	10	18	18	10	18	18
Lexar EZ	--	--	0	FY	18	FY	FY	FY	FY	FY	18	18	18	18	18	18	18	18	18
Liberty 280 SL	--	Yes	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
Linex® 4l Agricultural	--	--	0	0	12	4	4	4	12	4	12	4	4	4	4	4	4	4	12
Longbow EC	--	--	0	0	0	0	0	0	0	0	0	0.25	0.25	0	0	NL	0	0	12
Lorox Df Agricultural	--	--	0	0	NL	NL	4	4	12	4	NL	NL	NL	NL	NL	NL	NL	NL	NL

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Low Vol 4 Ester Weed Killer	--	--	0	0.5	FY	NL	NL	NL	FY	NL	FY	FY	FY	FY	FY	FY	FY	FY	FY
Low Vol 6 Ester Weed Killer	--	--	0.5	0.5	1	0.5	0.5	0.5	1	0.5	1	1	1	1	1	1	1	1	3
Lumax EZ	--	--	0	FY	18	4.5	FY	4.5	FY	4.5	18	18	18	18	18	18	18	18	18
M1691	--	--	4	4	4	2	2	2	2	2	2	4	4	4	4	4	4	4	4
Mad Dog	--	--	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1
Mad Dog 5.4 #	--	--	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Mad Dog K6	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mad Dog Plus	--	--	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Maestro 2EC	--	--	1	NL	1	1	1	1	1	1	NL	NL	NL	NL	NL	NL	NL	NL	NL
Maestro 4EC Selective	--	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maestro Advanced Selective	--	--	2	2	2	1	1	1	NL	1	1	2	2	2	2	2	2	2	2
Makaze	--	--	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Makaze Yield Pro	--	--	0	0	0	0	1	1	1	1	1	0	0	0	0	1	0	0	1
Marvel	--	--	10	0	18	4	4	4	4	4	18	18	18	18	18	18	18	18	18
Matador	--	--	8.5	0	4.5	8	18	12	40	9.5	40	40	40	40	12	40	8	40	40
Matador -S	--	--	8.5	0	4.5	8	18	12	40	9.5	40	40	40	40	12	40	8	40	40
Maverick Corn	--	Yes	0	10.5	18	6	18	18	18	18	18	18	18	18	18	18	18	18	18
MCP Amine 4	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MCP Ester 4	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MCPA - 4 Amine	--	--	NL	NL	NL	0	0	0	2	0	NL	NL	NL	NL	NL	NL	NL	NL	NL
MCPA Amine	--	--	NL	NL	NL	0	0	0	2	0	NL	NL	NL	NL	NL	NL	NL	NL	NL
Medal EC	Yes	Yes	0	0	4	4.5	4.5	4.5	12	4.5	12	2	2	12	9	12	0	0	12
Medal II ATZ	Yes	Yes	0	FY	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Medal II EC	Yes	Yes	0	0	4	4.5	4.5	4.5	12	4.5	12	2	2	12	9	12	0	0	12
Mesotrione 50WG	--	--	0	10	10	4	0	4	4	4	18	18	18	10	18	18	18	18	18
Metribuzin 75 Dry Flowable	--	Yes	18	4	4	4	18	18	18	4	4	18	18	18	18	18	4	4	18
MetriCor 4F	--	Yes	0	4	4	8	NL	NL	NL	8	4	18	18	18	18	18	8	18	18
MetriCor DF	--	Yes	4	4	4	8	NL	NL	NL	8	4	18	18	18	18	18	8	8	18

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Milestone	Yes	--	12	NL	NL	12	12	12	12	12	NL	NL	NL	NL	NL	NL	NL	NL	NL
Moccasin	--	--	0	0	4	4.5	4.5	4.5	NL	4.5	NL	2	2	NL	9	NL	NL	0	NL
Moccasin II Plus	--	--	0	0	4	4.5	4.5	4.5	NL	4.5	12	12	12	12	9	12	12	0	12
Moccasin MTZ	--	Yes	4	0	4.5	8	NL	NL	NL	8	12	18	18	18	18	18	8	8	18
Mongoose	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Motif	--	--	0	10	10	4	0	4	NL	4	0	18	18	10	18	18	18	18	18
Nimble	--	--	0.75	0.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Nortron SC	--	--	12	12	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12
Noventa	--	Yes	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
Omni Brand Glufosinate 280SL	--	--	0	0	6	2.3	2.3	2.3	2.3	2.3	6	6	6	0	6	6	6	6	6
Omni Brand Metribuzin 75 WDG	--	Yes	4	4	4	8	NL	NL	NL	8	4	18	18	18	18	18	8	8	18
Omni Brand Paraquat	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
On Deck Icon	--	--	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6
OpenSky	Yes	--	9	9	9	1	9	NL	1	9	9	12	12	9	12	12	9	9	12
Optill powered by Kixor	Yes	--	8.5	1	4	3	18	4	40	9.5	40	40	40	40	40	40	40	40	40
Orion	--	--	3	9	9	1	1	1	1	1	12	12	12	9	12	12	9	9	12
Outlook	--	Yes	0	0	6	4	4	4	4	4	9	9	9	6	9	9	4	4	9
Overdrive	--	--	0.25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Panoflex with Totalsol Soluble Granules	--	--	0.75	0.5	1.5	0	0.25	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Panther MTZ	--	Yes	4	4	18	9	18	18	18	8	18	18	18	18	18	18	8	8	18
Panther Pro	Yes	--	8.5	0	8	8	18	18	NL	9.5	40	40	40	40	18	40	8	8	40
Panther SC	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Parlay	--	--	4	4	4	3	3	4	4	3	4	4	4	4	4	4	4	4	4
Peak	Yes	--	1	22	22	0	0	0	0	0	10	22	22	22	22	22	10	22	22
PerfectMatch	Yes	--	9	1.5	10.5	1	9	NL	1	9	9	18	18	9	18	18	10.5	10.5	18
Permit	--	--	1	5	9	2	2	2	NL	2	2	12	36	15	9	36	9	9	36
Perpetuo	--	--	0	0	10	4	11	11	11	11	18	18	18	15	18	18	1	11	18
Phoenix	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pixxaro EC	Yes	--	0.5	4	9	0	0.5	4	0	0	12	9	9	4	9	15	9	9	15

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Maximum Rotational Restriction Intervals for Labeled Herbicides in Wisconsin Table

Herbicide- Trade Name	Bioassay Required or Recommended		Common WI Crops			Small Grains / Grasses						Brassicas			Legumes				Maximum Rotation
	Yes	Cover Crop Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Plateau	Yes	--	36	18	36	12	24	12	36	36	36	36	36	36	36	36	36	36	48
Poast	--	Yes	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PowerFlex HL	Yes	--	9	5	9	1	9	NL	1	9	9	12	12	9	12	12	9	9	12
Pre-Tector Plus EC	Yes	--	8.5	0	9.5	4	18	9.5	40	18	40	40	40	40	40	40	4	0	40
Prefix	Yes	Yes	10	0	18	4.5	4.5	4.5	18	4.5	18	18	18	18	18	18	12	18	18
PREsidual	--	Yes	4	12	4.5	8	12	12	12	8	12	18	18	12	12	12	8	12	18
Preview 2.1SC	Yes	--	4	0	12	4	18	18	18	4	18	18	18	24	18	18	18	18	18
Princep 4L	--	--	0	12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Princep Caliber 90	--	--	0	12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Princep Liquid	--	--	0	12	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Prowl 3.3 EC	--	--	FY	FY	FY	24	24	24	24	24	24	24	24	24	FY	FY	FY	FY	24
Prowl H2O	--	--	FY	FY	FY	24	24	24	24	24	24	24	24	24	FY	FY	FY	FY	24
Puma 1EC	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Pursuit	Yes	Yes	8.5	0	4	4	18	4	40	9.5	40	40	40	40	4	40	40	40	40
Python	Yes	Yes	0	0	4	4	4	4	NL	4	9	26	26	26	9	9	4	4	26
Quelex	Yes	--	3	3	9	0	3	3	0	0	3	15	15	9	15	15	9	9	15
Rapport Broadspec	--	--	.75	.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Rapport Tankmix	--	--	1.5	1.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Raptor	--	--	8.5	0	3	3	9	4	18	9	18	18	9	18	18	18	18	18	26
Razor Xtreme	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Realm Q	--	--	0	10	10	9	9	4	4	9	18	18	18	10	18	18	18	18	18
Reflex	--	--	10	0	18	4	4	4	4	4	18	18	18	18	18	18	12	12	18
Reglone Dessicant	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rely 280	--	Yes	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
Reply	--	Yes	0	FY	9	4	FY	FY	FY	FY	NL	NL	NL	NL	9	9	FY	FY	18
Reply ATZ	--	Yes	0	FY	24	4	24	NL	NL	24	NL	NL	NL	NL	24	24	24	24	24
Reply Lite	--	Yes	0	FY	24	4	24	NL	NL	24	NL	NL	NL	NL	24	24	24	24	24
Resicore	--	Yes	0	10.5	10.5	4	10.5	10.5	NL	10.5	18	18	18	18	18	18	18	18	18
Resicore XL	--	Yes	0	10.5	10.5	4	10.5	10.5	NL	10.5	18	18	18	18	18	18	18	18	18
Resolve Q	--	--	0	10	10	3	9	3	3	9	18	18	18	18	18	18	18	18	18
Resolve SG	--	--	0	10	10	4	9	18	18	9	18	18	18	18	18	18	18	18	18
Resource	--	--	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Revolin Q	Yes	Yes	0	10	10	8	8	4	4	8	18	19	18	10	18	18	10	10	18

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Herbicide-Trade Name	Bioassay Required or Recommended		Common WI Crops			Small Grains / Grasses						Brassicas			Legumes				Maximum Rotation
	Yes	Cover Crop Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Rezuvant	Yes	--	4	4	9	0	4	4	NL	0	15	9	9	4	9	15	9	9	15
Rifle	--	--	0	FY	FY	FY	0	0	0	0	NL	NL	NL	FY	FY	FY	FY	FY	FY
Rifle-D	--	--	4	4	4	0	4	4	4	4	0	4	4	4	4	4	4	4	4
Rimfire Max	Yes	--	NL	NL	NL	0	NL	NL	NL	NL	NL	NL	NL	10	NL	NL	NL	NL	18
Ringside	--	--	10	0	18	4	4	4	4	4	18	18	18	18	18	18	12	12	18
Roundup PowerMAX	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Roundup PowerMAX 3	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Roundup WeatherMAX	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Roundup Xtend With Vapor Grip Technology	--	--	0	0	4	1.5	1.5	1.5	1.5	1.5	1.5	4	4	4	4	4	4	4	6
Rugged	--	--	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	1	1	1	1	1	1	1	1	1
Saber	--	--	0	1		1	1	1	1	1	1	NL	NL	NL	NL	NL	NL	NL	3
Saddle-Up	--	--	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Salvo Postemergence Broadleaf	--	--	0.25	0.5	1	0.5	0.5	0.5	1	0.5	1	1	1	1	1	1	1	1	3
Satellite Flex	Yes	Yes	24	0	0	4	24	24	24	4	12	24	24	24	0	0	0	0	24
Satellite HydroCap	--	--	24	0	0	24	24	24	24	24	24	24	24	24	24	24	0	FY	24
Scepter 70 DG	--	--	19	1	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Scorch	--	--	0.5	4	4	0.5	0.5	NL	0.5	0.5	2	4	4	4	4	4	4	4	4
Sedona	Yes	Yes	10	0	18	4	4	4	4	4	18	18	18	18	18	18	4	12	18
Select Max with Inside Technology	--	--	0	0	0	1	1	1	1	1	1	0	0	0	0	1	0	0	1
Sequence	yes	Yes	0	0	4	4.5	4.5	4.5	NL	4.5	NL	FY	FY	NL	9	NL	0	0	FY
Shadow 3EC	--	--	0.25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sharpen powered by Kixor	--	Yes	0	6	9	3	3	3	3	3	1	9	9	9	9	9	6	6	9
Shredder E-99	--	--	0	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	3
Shutdown	Yes	--	10	0	12	4	12	4	4	4	12	12	12	24	12	12	0	12	36
Signature Clethodium	--	--	1	0	0	1	1	1	1	1	1	0	0	0	1	0	0	0	1
Signature Dicamba DGA	--	--	4	1	4	1	1	1	1	1	1	4	4	4	4	4	4	4	6
Signature LV4	--	--	0	0.5	FY	NL	NL	NL	FY	NL	FY	FY	FY	FY	FY	FY	FY	FY	FY

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Herbicide- Trade Name	Bioassay Required or Recommended		Common WI Crops			Small Grains / Grasses						Brassicas			Legumes				Maximum Rotation
	Bioassay Required or Recommended	Cover Crop Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Signature LV6	--	--	0.5	0.5	1	0.5	0.5	0.5	1	0.5	1	1	1	1	1	1	1	1	3
Simazine 4L	--	--	0	FY	24	24	24	FY	FY	24	24	24	24	FY	24	24	24	24	24
Sinate	--	--	0	9	9	3	3	3	3	3	3	18	18	18	18	18	18	18	18
Sinbar	Yes	--	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Sinder 3L	Yes	--	0	10.5	10.5	0	0	10.5	10.5	0	0	10.5	0	0	10.5	10.5	18	18	18
Sinister	--	--	10	0	18	4	4	4	4	4	18	18	18	18	18	18	12	18	18
Sinister Intent	--	Yes	10	0	18	4.5	4.5	4.5	NL	4.5	18	18	18	18	18	18	10	10	18
Slider	--	--	0	0	FY	4	4	4	4	4	FY	FY	FY	FY	FY	FY	FY	FY	FY
Smackdown	Yes	--	0	FY	FY	4	FY	FY	26	FY	26	26	26	26	FY	FY	FY	FY	26
Solstice	--	--	0	10	10	4	AH	4	4	4	18	18	18	10	18	18	18	18	18
Sonalan HFP	--	--	NL	0	NL	NL	NL	NL	NL	NL	18	NL	NL	0	NL	NL	NL	NL	NL
Sonic	Yes	--	10	0	12	4	12	12	NL	12	NL	NL	NL	24	NL	NL	9	9	30
Spartan 4F	--	--	10	0	12	4	12	4	4	4	12	12	12	24	12	12	0	12	36
Spartan Charge	Yes	--	0	0	12	4	12	4	4	4	12	12	12	24	12	12	0	12	24
Spartan Elite	Yes	--	4	0	12	4.5	12	4.5	4.5	4.5	12	12	12	12	12	12	0	0	12
Spitfire	--	--	4	4	6	2.6	2.6	2.6	2.6	2.6	2.6	6	6	6	6	6	6	6	6
Starane Flex	--	--	3	9	9	0	0	NL	NL	0	0	12	12	9	12	12	9	9	12
Starane Ultra	--	--	.5	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	4
Status	--	--	0.25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Steadfast Q	--	--	0	0.5	10	8	8	8	18	8	18	18	18	10	10	18	18	18	18
Stealth	--	Yes	FY	2	0	4	24	24	24	4	12	24	24	24	0	0	2	2	24
Stinger	Yes	--	0	10.5	10.5	0	0	NL	NL	0	0	0	0	0	18	18	18	18	18
Stinger HL	Yes	--	0	18	10.5	0	0	NL	NL	0	0	0	0	0	18	18	18	18	18
Storen Corn Herbicide*	Yes	Yes	0	10	18*	4.5	11	11	18	11	18	18	18	18	18	18	18	18	18
Storm	--	--	3.3	0	3.3	1.3	1.3	1.3	1.3	1.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Stranixa Ultra	--	--	0	4	4	0	0	4	0	0	0	4	4	4	4	4	4	4	4
Strut	--	--	4	1	4	1	1	1	1	1	1	4	4	4	4	4	4	4	6
SureStart II	Yes	--	0	FY	FY	4	FY	FY	NL	FY	26	26	26	26	FY	FY	FY	FY	26
Surpass EC	--	--	1	FY	FY	4	FY	FY	FY	FY	NL	NL	NL	NL	FY	FY	FY	FY	NL
Surpass NXT	--	Yes	0	FY	9	4	FY	FY	FY	FY	NL	NL	NL	NL	9	9	FY	FY	18
Surveil	Yes	--	9	0	10	3	9	NL	NL	NL	NL	NL	NL	30	NL	NL	9	9	30
Sword	--	--	2	2	2	0	0	2	2	0	2	2	2	2	2	2	2	2	2
Synchrony XP	--	--	9	0	9	3	3	3	3	3	3	30	30	19	9	30	9	9	30

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	Bioassay Required or Recommended	Cover Crop Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
T-Pac XP	--	--	0.75	0.5	1.5	0	1.5	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
T-Square	--	--	0.75	0.5	1.5	0	0	1.5	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Talinor	Yes	Yes	0	12	12	1	3	9	9	1	18	18	18	10	18	18	12	18	18
Tapout Selective Grass	--	--	0.25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Tarzec	Yes	--	9	5	9	1	9	NL	1	9	9	15	15	9	15	15	9	9	15
Tavium Plus VaporGrip Technology	--	--	0	1	6	4.5	4.5	4.5	12	4.5	12	6	12	12	9	12	6	12	12
TeamMate	Yes	--	9	5	9	1	9	NL	1	9	9	12	12	9	12	12	9	9	12
Tendovo	Yes	Yes	9	0	9	4.5	12	18	18	12	18	18	18	18	18	18	12	18	30
Tomahawk 4	--	--	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1
Tomahawk 5	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Top Gun	--	--	10	0	18	4	4	4	4	4	18	18	18	18	18	18	10	18	18
Tordon 22K	Yes	--	NL	36	36	2	2	2	2	2	FY	NL	NL	36	36	36	36	36	NL
Total	--	--	0	0	6	2.3	2.3	2.3	2.3	2.3	6	2.3	2.3	0	6	6	6	6	6
Treaty	--	--	0	0	1.5	0	0	NL	0	0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Treaty Extra	--	--	1.5	1.5	1.5	0	0	NL	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Treflan HFP	--	Yes	5	5	5	14	14	14	14	14	14	5	5	5	5	5	5	5	14
Tremor ATZ Lite NXT	--	Yes	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
Tremor ATZ NXT	--	Yes	0	FY	15	15	15	15	15	15	NL	NL	NL	NL	NL	NL	15	15	NL
Tremor NXT	--	Yes	0	FY	9	4	FY	FY	FY	FY	NL	NL	NL	NL	9	9	FY	FY	NL
Tribal	--	--	10	0	12	8	12	12	12	8	12	12	12	24	18	12	8	8	36
TriChargX	Yes	--	0	FY	FY	4	FY	FY	NL	FY	26	26	26	26	FY	FY	FY	FY	26
Tricor 4F	--	Yes	0	4	4	8	NL	NL	NL	8	4	18	18	18	18	18	8	18	18
Tricor DF	--	Yes	4	4	4	8	NL	NL	NL	8	4	18	18	18	18	18	8	18	18
Trifluralin 10g	--	--	14	0	0	0	0	0	0	0	NL	5	5	0	NL	NL	0	0	14
Trifluralin 4 E.C.	--	Yes	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Trifluralin HF	--	--	NL	0	NL	NL	NL	NL	NL	NL	NL	NL	NL	0	NL	NL	0	0	14
TripleFLEX II	Yes	--	0	FY	FY	4	FY	FY	NL	FY	26	26	26	26	FY	FY	FY	FY	26
Tripzin ZC	--	Yes	4	4	4	8	NL	NL	NL	8	4	18	18	18	18	18	8	NL	18
Trivence	--	--	10	0	10	4	18	30	30	4	12	30	30	30	18	30	30	30	30
TriVolt [†]	Yes	Yes	0	9	17 [†]	4	17 [†]	12	4	12	17 [†]	17 [†]	17 [†]	17 [†]	17 [†]	17 [†]	17 [†]	17 [†]	17 [†]
Trizenta	--	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Trizenta 3EC	--	--	0.25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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	Yes	Cover Crop Language	Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas	Cowpea	
Truslate Selective	Yes	--	0	10.5	10.5	0	0	NL	NL	0	0	NL	4	4	NL	NL	10.5	10.5	NL
Trust	--	Yes	5	5	5	14	14	14	14	14	14	5	5	5	5	5	5	5	14
Trust	--	Yes	14	0	0	0.75	14	5	5	0	14	0	5	0	0	0	0	0	14
Tuscany	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Tuscany SC	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
UAP Timberland Platoon Selective Weed Killer	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Ultra Blazer	--	--	3.3	0	3.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Unison Edge	--	--	.5	1	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1
UP-End Hydro Cap	--	--	24	0	0	24	24	24	24	24	24	24	24	24	24	24	0	FY	24
Valkos 51 WDG	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	NL
Valkos SC	Yes	--	9	9	18	9	18	18	18	18	18	18	18	18	18	18	18	18	18
Valor EZ 2	Yes	--	0.25	0	8	1	8	3	NL	3	8	8	8	8	8	8	3	3	8
Valor SX	Yes	--	0.25	0	8	1	8	3	NL	3	8	8	8	8	8	8	3	3	8
Valor XLT Soybean	--	--	10	0	12	4	30	4	NL	4	4	30	30	30	18	30	12	12	30
Varisto	--	--	8.5	0	3	3	9	4	18	9	18	18	18	18	18	18	0	0	26
Velpar L Cu	Yes	--	12	24	NL	24	24	24	24	24	24	12	12	24	24	24	24	24	24
Verdict powered by Kixor	--	Yes	0	6	8	4	4	4	4	4	9	9	9	8	9	9	6	6	9
Victory	--	--	0.75	0.5	1.5	0	0.25	NL	0	0	1.5	1.5	1.5	2	1.5	1.5	1.5	1.5	2
Vision	--	--	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Warrant	--	Yes	0	0	9	4	FY	FY	FY	FY	NL	NL	NL	NL	9	9	FY	FY	NL
Warrant Ultra	--	Yes	10	0	18	4	FY	FY	FY	FY	NL	NL	NL	NL	NL	NL	10	10	NL
Weed Rhap LV-4	--	--	0.5	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
Weed Rhap LV-6D	--	--	3	0.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Weedar 64 Broadleaf	--	--	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Weedmaster	--	--	4	4	4	2.6	2.6	2.6	2.6	2.6	2.6	4	4	4	4	4	4	4	6
Weedone 638 Broadleaf	--	--	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Weedone LV6 EC Broadleaf	--	--	0.5	.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Weld	Yes	--	2	10.5	10.5	0	0	0	0	0	0	4	4	4	10.5	10.5	18	18	18

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. All intervals measured in months.

FY = following year; NL= not listed; 0 = typically a labeled crop with no rotational restriction interval

*Restrictions apply, see label

†When soil pH ≥ 7.5, rotations increase from 17 to 24 months

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	Clover	Vetch	Field Peas	Cowpea	
Whiteout 2,4-D	--	--	0.5	0.5	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
WideARmatch	Yes	--	0.5	10.5	10.5	0	0.5	10.5	0	0	0.5	9	9	4	18	18	10.5	10.5	18
WideMatch	Yes	--	0	10.5	10.5	0	0	0	0	0	0	10.5	4	4	10.5	10.5	10.5	10.5	10.5
Wolverine Advanced	Yes	--	9	4	4	1	1	1	1	1	NL	NL	NL	9	NL	NL	9	NL	NL
XtendiMax with VaporGrip Technology	--	--	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6
Yukon	--	--	1	5	9	2	2	2	NL	2	2	12	NL	15	9	NL	9	9	36
Zeus Prime XC	Yes	--	0	0	12	4	12	4	4	4	12	12	12	24	12	12	0	12	24
Zeus XC	--	--	12	0	12	4	12	4	4	4	12	12	12	24	12	12	0	12	36
Zidua	--	--	0	0	10	6	18	18	18	18	18	18	18	18	18	18	2	18	18
Zidua Pro powered by Kixor	Yes	--	8.5	0	10	4	40	11	40	11	40	40	40	40	18	18	1	40	40
Zidua SC	--	--	0	4	10	6	18	18	18	18	18	18	18	18	18	18	2	11	18

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Resources

Wisconsin Herbicide Label Data
kellysolutions.com/WI

UW-Madison Extension Crops and Soils Program
cropsandsoils.extension.wisc.edu

This publication is available from the Extension Crops and Soils and Nutrient and Pest Management (NPM) Programs.

