



Herbicide Rotation Restrictions in Forage and Cover Cropping Systems

Designing effective herbicide programs while following pesticide label restrictions can be challenging in any cropping system. With rotations that include forage and cover crops, the challenge can be increased—especially when a planned cover crop might be needed as supplemental or emergency forage. In this case, the best approach is to be aware of crop rotation restrictions ahead of time and plan the most effective solution for all possible scenarios.

Herbicide label rotational restrictions

Once a herbicide is used in a cropping system, the restrictions on that label must be followed for the original crop it is used on AND the succeeding crops until all restrictions on that label have been surpassed. These rotational restrictions exist for two reasons:

1. To protect humans and animals from herbicide residues that a succeeding crop may accumulate at elevated levels prior to entering the feed or food chain.
2. To ensure good establishment for the following crops by avoiding herbicide carryover injury.

An EPA registered pesticide label is a legal document and the instructions must be followed to avoid violating Federal law. Always check the herbicide label for crop rotational restrictions (<http://www.cdms.net/LabelsMsds/LMDefault.aspx>). Each crop will have a rotational planting interval stated in days or months. If a rotational restriction is not listed for a specific crop, follow the maximum interval. Pay careful attention to any listed exceptions.

What is the difference between a forage crop and a cover crop?

Simply put, a forage crop is planted for animal feed, which can be either grazed by animals or harvested from the field. A cover crop is planted for a variety of reasons—improving soil health, adding nutrients, suppressing weeds—and is not harvested. Typically, the cover crop's biomass stays in the field and may be incorporated into the soil.

In the legal sense, once the biomass of a cover crop is removed from the field for feed (grazed or harvested), it is considered a forage crop or more precisely a crop, according to the EPA registered pesticide label. It is important to note that even in situations where cover crops are allowed to be grazed or harvested within a crop insurance or cost-share program, the label restrictions must still be followed.

Some label examples

The following excerpts are taken directly from registered pesticide labels (<http://www.cdms.net/LabelsMsds/LMDefault.aspx>). Example products are strictly for illustration purposes and are not an endorsement of the product.

Harness®

ROTATIONAL CROPS:

- 1) If a crop treated with this product is lost, field corn, seed corn, silage corn, popcorn sweet corn or milo (sorghum) may be replanted immediately. When planting milo (sorghum), only use seed properly treated with seed protectant or safener. Do not exceed a total of 3.0 pounds per acre of active ingredient if additional product is applied.
- 2) Nongrass animal feeds such as alfalfa, clover, kudzu, lespedeza, lupin, sanfoin, trefoil, and Vetch spp. may be planted 9 months after application. Wheat may be planted 4 months after application.
- 3) Rotate the next season to the following crops: soybeans, corn (all types), cotton, milo (sorghum), tobacco, sugar beets, sunflowers, potatoes, barley, buckwheat, , millet (pearl and proso), oats, rye, teosinte triticale, wild rice, dried shelled bean group *Lupinus* spp. (including grain lupin, sweet lupin and white lupin); *Phaseolus* spp. (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean, bean); *Vigna* spp. (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea and urd bean); broad bean (dry) chickpea, guar, lablab bean, lentil, pea (*Pisum* spp., includes field pea); pigeon pea.

ROTATION TO NON-FOOD WINTER COVER CROPS

Following harvest of food crops treated with Harness herbicide, only non-food or non-feed winter cover crops (with the exception of wheat) may be planted. Do not graze or harvest rotational cover crops for food or animal feed for 18 months following the last application of Harness herbicide. This prohibition does not apply to wheat, which may be planted 4 months following the last application of Harness herbicide, or to non-grass animal feeds, which may be planted 9 months after the last application of Harness herbicide.

Huskie®

CROP ROTATION INTERVALS

Huskie Herbicide breakdown in the soil is due mainly to microbial action. Under adverse conditions such as cold and drought, degradation may be slowed.

- 1 Month: Wheat, Barley, Fine fescue, Tall fescue, Kentucky bluegrass, Oats, Orchardgrass, Perennial ryegrass, Annual ryegrass, Rye, and Triticale
- 4 Months: Alfalfa*, Millet, Grain Sorghum (to include grain and forage) and Soybeans
- 9 Months: Canola, Canaryseed, Chickpeas, Corn, Dry Beans, Flax, Field Peas**, Green Beans, Green Peas, Lentils**, Mustards, Potatoes, Safflower, Sunflowers, Sugarbeets and Timothy.

* Thorough tillage prior to planting alfalfa and a minimum of 12 inches of rainfall, overhead, or flood irrigation or any combination of these water sources totaling 12 inches is required between the time following a Huskie Herbicide application and the time of alfalfa seeding.

** Field peas: 9 months for all states except 18 months in MT.

*** Lentils: 9 months for all states except 18 months in MN, MT, ND and SD.

Where a crop is not specified, conduct a field bioassay as described in "FIELD BIOASSAY" section of this label.

FIELD BIOASSAY

A field bioassay must be conducted for crops not listed on this label. To conduct a field bioassay, plant strips of the crop you want to grow the season following Huskie Herbicide application. Monitor the crop for response to Huskie Herbicide to determine if the crop can be grown safely in previously treated Huskie Herbicide areas.

Do not plant any rotational crop within 30 days following a Huskie Herbicide application.

Cover crop rotational restrictions

Most commonly used corn, soybean, and small grain herbicides do not restrict the rotational planting interval for cover crops. However, the following herbicides have rotational restrictions: Harness and Harness Xtra (can only be used on non-food winter cover crops), Hornet (10.5 months), Python WDG (9 months). 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.

Forage crop rotational restrictions

The following tables summarize the rotational restriction interval in months along with specific restrictions for forages grown after commonly used herbicide applications in small grains, soybean and corn. Products listed in this publication are strictly for informational purposes; their inclusion is not an endorsement.

Months to plant forage crops after herbicide application on **small grains**

| | | NON-LEGUME FORAGE CROPS | | | | | | | | | | LEGUME FORAGE CROPS | | | | | MAX ROTATION (a) | |
|--------------------------|--------------------|-------------------------|--------|-----------|------------|------|--------------|---------|-----------|-------|--------|---------------------|--------|--------|-----------|-------|------------------|-----|
| | | ANNUAL RYEGRASS | BARLEY | BUCKWHEAT | CEREAL RYE | OATS | PEARL MILLET | SORGHUM | TRITICALE | WHEAT | RADISH | ALFALFA | CLOVER | COWPEA | FIELD PEA | VETCH | | |
| POSTEMERGENCE HERBICIDES | Affinity BroadSpec | B, W | 1.5 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | Dicamba (Clarity) | B, O, W | (b) | (b) | 4 | (b) | (b) | (b) | (b) | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Buctril | ALL | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | Callisto | O | 18 | 4 | 4 | 4 | 0 | 0 | 18 | 4 | 18 | 10 | 18 | 18 | 18 | 18 | 18 | 18 |
| | Harmony Extra SG | B, O, W | 1.5 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | Harmony SG | B, O, W | 1.5 | 0 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | Huskie | B, W | 1 | 1 | (c) | 1 | 1 | 4 | 4 | 1 | (c) | 4 (d) | (c) | 9 | 9 | (c) | 9 | 9 |
| | MCPA amine | ALL | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) |
| | Orion | B, O, W | 0.5 | 0.5 | 12 | 0.5 | 0.5 | 0.5 | 3 | 0.5 | 12 | 9 | 12 | 9 | 9 | 12 | 12 | 12 |
| | Starane Flex | B, O, W | 0 | 0 | 12 | 0 | 0 | 0 | 3 | 0 | 12 | 9 | 12 | 9 | 9 | 12 | 12 | 12 |
| | Starane NXT | B, O, W | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Starane Ultra | B, O, W | 0 | 0 | (e) | (e) | 0 | (e) | 0 | 0 | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) |
| | Stinger (f) | ALL | 0 | 0 | 18 | 0 | 0 | 0 | 10.5 | 0 | 0 | 10.5 | 0 | 18 | 18 | 18 | 18 | 18 |
| 2,4-D amine | ALL | 3 (g) | 1 | 3 (g) | 1 | 1 | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | 3 (g) | |

REGISTERED CEREALS
 B=BARLEY, O=OATS, W=WHEAT
 ALL=B,O,W, RED CLOVER AND ALFALFA

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.

- (a) the maximum amount of time required before planting the next crop if it is not listed on the label
- (b) 15 days per 8 fl oz/acre east of Mississippi River, only count days when the ground is not frozen, maximum amount per season is 24 fl oz/acre
- (c) field bioassay required
- (d) requires tillage and at least 12 inches of rainfall before planting the next crop
- (e) no crop rotation restrictions specified
- (f) rotational interval for soils with greater than 2% organic matter and annual precipitation exceeding 15 in per year
- (g) soil temperatures must exceed freezing for the entire time period

Months to plant forage crops after herbicide application on soybean

| | | NON-LEGUME FORAGE CROPS | | | | | | | | | LEGUME FORAGE CROPS | | | | | MAX ROTATION (a) | | |
|--|------------------------------------|-------------------------|---------------|-----------|------------|---------------|---------------|---------------|-----------|--------------|---------------------|-----------|--------------|--------|--------------|------------------|---------------|----|
| | | ANNUAL RYEGRASS | BARLEY | BUCKWHEAT | CEREAL RYE | OATS | PEARL MILLET | SORGHUM | TRITICALE | WHEAT | RADISH | ALFALFA | CLOVER | COWPEA | FIELD PEA | | VETCH | |
| PREPLANT- INCORPORATED | Prowl H2O | 10, 12 (m) | 4 (q) | 12 | 12 | 12 | 12 | 10, 12 (m) | 12 | 4 (q) | 12 | 12 | 12 | 0 | 12 | 12 | 12 (f) | |
| | Trifluralin (Treflan TR-10) | 12, 14 (m)(q) | 12, 14 (m)(q) | 5 | 5 | 12, 14 (m)(q) | 12, 14 (m)(q) | 12, 14 (m)(q) | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 12, 14 (m)(q) | |
| PREEMERGENCE HERBICIDES | Authority Assist | 30 (b) | 9.5 | 30 (b) | 4 | 18 | 30 (b) | 18 | 30 (b) | 4 | 30 (b) | 12 | 30 (b) | 30 (b) | 30 (b) | 30 (b) | 30 (b) | |
| | Authority MTZ | 18 | 4 | 18 | 18 | 18 | 18 | 12, 18 (c) | 18 | 4 | 18 | 12 | 18 | 18 | 18 | 18 | 18 | |
| | Boundary 6.5 EC | 12 | 4.5, 8 (d) | 12 | 12 | 12 | 12 | 12 | 12 | 4.5, 8 (d) | 18 | 4.5 | 12 | 12 | 12 | 12 | 18 | |
| | Dual II magnum | 12 | 4.5 | (e) | 4.5 | 4.5 | 12 | 12 | 12 | 4.5 | 2 (f) | 4 | 9 | 12 | 12 | 12 | 12 | |
| | Enlite (g) | 4 | 4 | 30 | 4 | 12 | 30 | 9 | 30 | 4 | 30 | 12 | 12 | 9 | 9 | 30 | 30 | |
| | Envive (f)(h)(i) | 4 | 4 | 30 | 4 | 30 | 30 | 10 | 30 | 4 | 30 | 12 | 18 | 12 | 12 | 30 | 30 | |
| | Fierce | (j) | (j) | (j) | (j) | (j) | (j) | (j) | (j) | (j) | (j) | 12 | (j) | (j) | (j) | (j) | (j) | 12 |
| | FirstRate (f) | 18 | 12 | 18 | 18 | 9 | 18 | 9 | 18 | 4 | 18 | 9 | 18 | 18 | 9 | 18 | 18 | |
| | Gangster | (b) | (b) | (b) | (b) | 9 | (b) | 9 | (b) | 3 | (b) | (b) | (b) | (b) | 9 | (b) | 30 | |
| | INTRRO | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | |
| | Lorox DF | 4 | 4 | 12 | 4 | 4 | 12 | 0 (f)(l) | 12 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 12 | |
| | Metribuzin 75 | 18 | 4 | 18 | 18 | 18 | 18 | 18 | 18 | 4 | 18 | 4 | 18 | 18 | 8 | 18 | 18 | |
| | Metribuzin 75DF | 18 | 4 | 18 | 18 | 18 | 4 | 18 | 18 | 4 | 18 | 4 | 18 | 18 | 8 | 18 | 18 | |
| | OpTill (k) | 40 (b) | 9.5 | 40 (b) | 4 | 18 | 40 (b) | 18 | 40 (b) | 3 | 40 (b) | 4 | 4 | 1 | 4 | 40 (b) | 40 (b) | |
| | OpTill PRO (k) | 40 (b) | 9.5 | 40 (b) | 4 | 18 | 40 (b) | 18 | 40 (b) | 4 | 40 (b) | 9 | 9 | 9 | 4 | 40 (b) | 40 (b) | |
| | Outlook | (e) | 4 | (e) | 4 | 4 | (e) | (e) | (e) | 4 | (e) | (e) | (e) | (e) | (e) | (e) | (e) | |
| | Prefix | (l) | (l) | (l) | (l) | (l) | (l) | (l) | (l) | (l) | 18 | 18 | 18 | 18 | 10 | 18 | 18 | |
| | Pursuit | 40 (b) | 9.5 | 40 (b) | 4 | 18 | 40 (b) | 18 | 40 (b) | 4 | 40 (b) | 4 | 4 | 0 | 0 | 40 (b) | 40 (b) | |
| | Python WDG | 9 | 4 | 9 | 4 | 4 | 9 | 9 | 9 | 4 | 26 | 4 | 26 | 26 | 4 | 26 | 26 | |
| | Sharpen (f)(r) | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 3 | 6 | 6 | |
| Sulfentrazone+coransulam (Authority First DF) | 30 (b) | 12 | 30 (b) | 12 | 12 | 30 (b) | 12 | 30 (b) | 4 | 30 (b) | 12 | 30 (b) | 12 | 12 | 30 (b) | 30 (b) | | |
| Valor (f) | 6, 12 (q)(s) | 4 | 6, 12 (q)(s) | 4 | 5, 10 (s) | 6, 12 (q)(s) | 1 (q) | 6, 12 (q)(s) | 2 (q) | 6, 12 (q)(s) | 5, 10 (s) | 5, 10 (s) | 6, 12 (q)(s) | 4 | 6, 12 (q)(s) | 6, 12 (q)(s) | | |
| Valor XLT (h) | 4 | 4 | 30 | 4 | 30 | 30 | 10 | 30 | 4 | 30 | 12 | 18 | 12 | 12 | 30 | 30 | | |
| Warrant | (e) | (e) | (e) | (e) | (e) | (e) | (e)(x) | (e) | 4 | (k) | 9 | 9 | (e) | (e) | 9 | (e) | | |
| Zidua | (j) | (j) | (j) | (j) | (j) | (j) | (j) | (j) | (j) | 12 | (j) | (j) | (j) | (j) | (j) | 12 | | |

| POSTEMERGENCE HERBICIDES | Assure II | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|--------------------------|------------------------------------|--------|-------------------|--------|-----|-----|----------|-----|--------|-------------------|--------|-----|-----|-----|-----|--------|--------|
| | Basagran | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) |
| | Cadet | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) | (y) |
| | Classic (f) | 3 | 3 | 30 | 3 | 3 | 30 | 15 | 30 | 3 | 30 | 9 | 9 | 9 | 9 | 30 | 30 |
| | Extreme (g) | 40 | 9.5 | 40 | 4 | 18 | 40 | 18 | 40 | 3 | 40 | 4 | 4 | 0 | 0 | 40 | 40 |
| | FirstRate (f) | 18 | 12 | 18 | 18 | 9 | 18 | 9 | 18 | 4 | 18 | 9 | 18 | 18 | 9 | 18 | 18 |
| | Flexstar | (l) | (l) | (l) | (l) | (l) | (l) | (l) | (l) | (l) | 18 | 18 | 18 | 10 | 10 | 18 | 18 |
| | Flexstar GT 3.5 | 18 | 4 | 18 | 4 | 18 | 18 | 18 | 18 | 4 | 18 | 18 | 18 | 10 | 10 | 18 | 18 |
| | Fusilade DX | (k) | 2 | (k) | 2 | 2 | 2 | 2 | 2 | 2 | (k) | (k) | (k) | (k) | (k) | (k) | 2 |
| | Glyphosate (Roundup WeatherMax) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| | Harmony SG | 1.5 | 0 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 0 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | Lactofen (Cobra/Phoenix) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) | (k) |
| | Liberty 280 SL | 6 | 2.3 | 2.3 | 2.3 | 2.3 | 6 | 6 | 2.3 | 2.3 | 2.3 | 6 | 6 | 6 | 6 | 6 | 6 |
| | Poast Plus | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 |
| | Pursuit | 40 (b) | 9.5 | 40 (b) | 4 | 18 | 40 (b) | 18 | 40 (b) | 4 | 40 (b) | 4 | 4 | 0 | 0 | 40 (b) | 40 (b) |
| | Raptor | 18 | 9,18 (q)(s)(i) | 18 | 4 | 9 | 9 | 18 | 18 | 3,15 (q)(s)(i) | 18 | 3 | 18 | 0 | 0 | 18 | 18 |
| | Resource | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Select Max | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | |
| Sequence | (e) | 4.5 | (e) | 4.5 | 4.5 | (e) | 0 | (e) | 4.5 | (e) | 4 | 9 | (e) | (e) | (e) | (e) | |
| Synchrony XP (f)(g)(i) | 3 | 3 | 30 | 3 | 3 | 3 | 9,15 (f) | 3 | 3 | 30 | 9 | 9 | 9 | 9 | 30 | 30 | |
| Ultra Blazer | 3.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 3.3 | 1.3 | 1.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | |

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.

- (a) the maximum amount of time required before planting the next crop if it is not listed on the label
- (b) requires a field bioassay
- (c) 12 months for 20 oz per acre or less
- (d) 4.5 for winter or 8.5 for spring
- (e) the next crop may be planted the following spring
- (f) rate restriction
- (g) region specific
- (h) fields south of I-90 between Lacrosse and Madison, fields south of I-94 between Madison and Milwaukee, see label for other locations
- (i) soil pH restriction
- (j) only labeled crops may be planted in rotation
- (k) no crop rotation restrictions specified
- (l) harvest restriction
- (m) rotational crops used for feed must be harvested at maturity
- (n) no grazing or harvest for forage allowed for the next crop
- (p) application timing specific
- (q) precipitation requirement
- (r) rotation interval does not include days when the ground is frozen
- (s) tillage specific
- (x) crop injury could result if a rotation crop is planted immediately
- (y) after normal harvest, planting of the next crop is allowed

Months to plant forage crops after herbicide application on corn

| | | NON-LEGUME FORAGE CROPS | | | | | | | | | LEGUME FORAGE CROPS | | | | | MAX ROTATION (a) | |
|-------------------------|--|-------------------------|-----------|---------------|------------|-----------|---------------|------------|---------------|-----------|---------------------|--------------|--------------|---------------|-------------|------------------|---------------|
| | | ANNUAL RYEGRASS | BARLEY | BUCKWHEAT | CEREAL RYE | OATS | PEARL MILLET | SORGHUM | TRITICALE | WHEAT | RADISH | ALFALFA | CLOVER | COWPEA | FIELD PEA | | VETCH |
| PREPLANT-INCORPORATED | Acetochlor (Harness) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 4 | 18 | 9 | 9 | 9 | 9 | 9 | 18 | |
| | Dual II magnum | 12 | 4.5 | (b) | 4.5 | 4.5 | 12 | 12 | 12 | 4.5 | 2 (c) | 4 (c) | 9 (c) | 12 | 12 | 12 | |
| | Outlook | (b) | 4 | (b) | 4 | 4 | (b) | (b) | (b) | 4 | (b) | (b) | (b) | (b) | (b) | (b) | |
| | Zidua | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | 12 | (e) | (e) | (e) | (e) | (e) | |
| PREEMERGENCE HERBICIDES | Acetanilide+atrazine premix (Harness Xtra) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 4 | 9 | 9 | 9 | 9 | 9 | 9 | 18 | |
| | Acetochlor (Surpass EC) | (b) | (b) | (b) | (b) | (b) | (b) | (b) | 4 | (d) | (b) | (b) | (b) | (b) | (b) | (b) | |
| | Atrazine | (f) | (f)(g)(h) | (f) | (f)(g)(h) | (f)(g)(h) | (f) | (b) | (f) | (f)(g)(h) | (f) | (f) | (f) | (f) | (f) | (f) | |
| | Anthem (c) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 6 | 18 | 10 | 18 | 11 | 11 | 18 | 18 | |
| | Callisto (i) | 18 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 18 | 10 | 18 | 18 | 18 | 18 | |
| | Dicamba (Clarity) (c) (j) | (k) | (k) | 4 | (k) | (k) | (k) | (k) | (k) | (k) | 4 | 4 | 4 | 4 | 4 | 4 | |
| | Dual II magnum | 12 | 4.5 | (b) | 4.5 | 4.5 | 12 | 12 | 12 | 4.5 | 2 (c) | 4 | 9 | 12 | 12 | 12 | 12 |
| | Fierce | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | 12 | (e) | (e) | (e) | (e) | (e) | 12 |
| | Hornet WDG | 10.5 | 4 | 26 | 4 | 4 | 26 | 26 | 26 | 4 | 26 | 10.5 (l)(m) | 26 | 26 | 10.5,18 (c) | 26 | 26 |
| | Instigate | 18 | 4,9 (g) | 4,9 (g) | 4,9 (g) | 4,9 (g) | 4,9 (g) | 10 (l) | 4,9 (g) | 4,9 (g) | 18 | 10 (l) | 18 | 18 | 18 | 18 | 18 |
| | Lumax (h) | 18 | 4.5 | (b) | 4.5 | (b) | (b) | 18 | 18 | 4.5 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| | Outlook | (b) | 4 | (b) | 4 | 4 | (b) | (b) | (b) | 4 | (b) | (b) | (b) | (b) | (b) | (b) | (b) |
| | Princep 4L | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) | (f) |
| | Prowl H2O | 10, 12 (h) | 4 (l) | 12 | 12 | 12 | 12 | 10, 12 (h) | 12 | 4 (l) | 12 | 12 | 12 | 0 | 12 | 12 | 12 (c) |
| | Python WDG | 9 | 4 | 9 | 4 | 4 | 9 | 9 | 9 | 4 | 26 | 4 | 26 | 26 | 4 | 26 | 26 |
| | Resolve Q (c) | 18 | 9 | 9 | 9 | 9 | 9 | 10,18 (l) | 9 | 3,9 (g) | 18 | 10,18 (l) | 10,18 (l) | 18 | 10 | 18 | 18 |
| | Sharpen (c) (j) | 6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 6 | 6 | 3 | 6 | 6 |
| | Surestart | 26 (n) | (b) | 26 (n) | (b) | (b) | 26 (n) | 12 | 26 (n) | 4 | 26 (n) | 18 (b)(l)(m) | 18 (b)(l)(m) | (b) | (b) | 18 (b)(l)(m) | 26 (n) |
| | Valor (c) | 6, 12 (l) (p) | 4 | 6, 12 (l) (p) | 4 | 5,10 (p) | 6, 12 (l) (p) | 1 (l) | 6, 12 (l) (p) | 2 (l) | 6, 12 (l) (p) | 5,10 (p) | 5,10 (p) | 6, 12 (l) (p) | 4 | 6, 12 (l) (p) | 6, 12 (l) (p) |
| | Verdict | (b) | 4 (g) | (b) | 4 (g) | 4 (g) | (b) | (b) | (b) | 4 (g) | (b) | (b) | (b) | (b) | (b) | (b) | (b) |
| Zemax | 18 | 4.5 | 18 | 4.5 | 4.5 | 18 | 18 | 18 | 4.5 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| Zidua | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | (e) | 12 | (e) | (e) | (e) | (e) | (e) | 12 | |

POSTEMERGENCE HERBICIDES

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|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|-------------|------------|-----------|
| 2,4-D LO-V 6E | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 1,3 (j)(q) | 3 (j) |
| Accent Q | 10,18 (r) | 4,8 (g) | 10,18 (r) | 4,8 (g) | 4,8 (g) | 10,18 (r) | 10,18 (r) | 4,8 (g) | 4,8 (g) | 10,18 (r) | 12 | 12 | 10,18 (r) | 10,18 (r) | 10,18 (r) | 10,18 (r) |
| Atrazine | (f) | (f)(g)(h) | (f) | (f)(g)(h) | (f)(g)(h) | (f) | (b) | (f) | (f)(g)(h) | (f) | (f) | (f) | (f) | (f) | (f) | (f) |
| Basagran | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) | (d) |
| Basis Blend (c) | 18 | 3,9 (g) | 9 | 3,9 (g) | 3,9 (g) | 3,9 (g) | 18 | 3,9 (g) | 3,9 (g) | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Buctril | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cadet | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) | (s) |
| Callisto (i) | 18 | 4 | 4 | 4 | 0 | 0 | 0 | 4 | 4 | 18 | 10 | 18 | 18 | 18 | 18 | 18 |
| Callisto Xtra | 18 | (b) | 18 | 18 | 18 | 18 | 18 | 18 | (b) | 18 | (b) | 18 | 18 | 18 | 18 | 18 |
| Capreno (c)(g)(l)(r) | 18 | 10 | 18 | 18 | 10,18 | 18 | 10 | 4 | 4 | 18 | 10,18 | 18 | 18 | 18 | 18 | 18 |
| Glyphosate (Roundup WeatherMax) | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Halex GT | 18 | 4 | 18 | 4 | 4 | 18 | 18 | 18 | 4 | 18 | 10 | 18 | 18 | 18 | 18 | 18 |
| Harmony SG | 1.5 | 0 | 1.5 | 1.5 | 0 | 1.5 | 1.5 | 0 | 0 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Hornet WDG | 10.5 | 4 | 26 | 4 | 4 | 26 | 26 | 26 | 4 | 26 | 10.5 (l)(m) | 26 | 26 | 10.5,18 (c) | 26 | 26 |
| Impact (c) | 18 | 3 | 18 | 3 | 3 | 18 | 9 | 18 | 3 | 18 | 9 | 18 | 18 | 9 | 18 | 18 |
| Laudis | 18 | 4 | 18 | 4 | 4 | 18 | 10 | 18 | 4 | 18 | 10 | 18 | 18 | 10 | 18 | 18 |
| Liberty 280 SL | 6 | 2.3 | 2.3 | 2.3 | 2.3 | 6 | 6 | 2.3 | 2.3 | 2.3 | 6 | 6 | 6 | 6 | 6 | 6 |
| NorthStar | 18 | 3,8 (g) | 8 | 3,8 (g) | 8 | 8 | 8 | 8 | 3,8 (g) | 18 | 8 | 18 | 18 | 8 | 18 | 18 |
| Option | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Realm Q (c) | 18 | 4,9 (g) | 18 | 4 | 4,9 (g) | 18 | 10,18 (l) | 18 | 4,9 (g) | 18 | 10,18 (l) | 18 | 18 | 18 | 18 | 18 |
| Resolve Q (c) | 18 | 9 | 9 | 9 | 9 | 9 | 10,18 (l) | 9 | 3,9 (g) | 18 | 10,18 (l) | 10,18 (l) | 18 | 10 | 18 | 18 |
| Resource | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Status | 4 | 1,4 (l) | 4 | 1,4 (l) | 1,4 (l) | 4 | 4 | 4 | 1,4 (l) | 4 | 1,4 (l) | 4 | 4 | 4 | 4 | 4 |
| Steadfast Q | 10,18 (r) | 4,8 (g) | 10,18 (r) | 4,8 (g) | 4,8 (g) | 10,18 (r) | 10,18 (r) | 10,18 (r) | 4,8 (g) | 10,18 (r) | 10, 18 (l) | 10, 18 (l) | 10,18 (r) | 10 | 10,18 (r) | 10,18 (r) |
| Stinger (l)(m) | 0 | 0 | 18 | 18 | 0 | 18 | 18 | 18 | 0 | 0 | 10.5 | 18 | 18 | 18 | 18 | 18 |
| Yukon | 2 | 2 (g) | 36 | 2 (g) | 2 (g) | 36 | 2 | 2 | 2 | 12 | 9 | 9 | 36 | 9 | 36 | 36 |

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.

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| (a) the maximum amount of time required before planting the next crop if it is not listed on the label | (g) planting date restriction | (m) soil organic matter requirement |
| (b) the next crop may be planted the following spring | (h) application timing restriction | (n) requires a field bioassay |
| (c) rate restriction | (i) see label for the mesotrione exception- only corn and grain sorghum can be planted as the next rotational crop | (p) tillage specific |
| (d) no crop rotation restrictions specified | (j) rotation interval does not include days when the ground is frozen | (q) risk of crop injury with the shorter time interval |
| (e) only crops listed on the label may be planted in rotation | (k) 15 days per 8 fl oz/acre east of Mississippi River | (r) soil pH restriction |
| (f) the next crop may be planted the second following spring | (l) precipitation requirement | (s) after normal harvest, planting of the next crop is allowed |



Please visit the Wisconsin Crop Weed Science website for more information:

wcws.cals.wisc.edu

Additional resources:

For weed control efficacy ratings consult University of Wisconsin Extension publication A3646 *Pest Management in Wisconsin Field Crops*, available at <http://learningstore.uwex.edu/>

Pesticide labels and material safety data sheets (MSDS) can be viewed at <http://www.cdms.net/LabelsMsds/LMDefault.aspx>

Focus on Forage fact sheets, University of Wisconsin Extension, <http://www.uwex.edu/ces/crops/uwforage/focusonforage.htm>

Planting winter rye after corn silage: Managing for forage, http://ipcm.wisc.edu/download/pubsNM/Rye_090507_final.pdf

Growing double crop forage after small grains <http://www.uwex.edu/ces/crops/uwforage/DoubleCrop-FOF.pdf>

Is it legal to use a cover crop as a forage crop? Maybe not . . .
<http://ipcm.wisc.edu/download/pubsPM/9-19-12-Cover-Crops-used-for-forages.pdf>

Wisconsin Crop Weed Science Research Report <http://wcws.cals.wisc.edu/documents/>

Take Action Herbicide Classification chart <http://wcws.cals.wisc.edu/documents/>

Take Action on Weeds website, sponsored by the United Soybean Board, <http://takeactiononweeds.com/>

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