

HERBICIDE OPTIONS: DIRECTIONS AND PRECAUTIONS

Table 6. Preemergence Herbicides: Directions and Precautions

How to Use This Table: This table provides directions and precautions for using preemergence herbicides labeled for use on annuals, perennials and herbaceous ground covers. In this table, preemergence herbicides are listed alphabetically by herbicide trade name. Herbicide rate provides the amount of material to be applied based on amount of active ingredient per acre, rate of product per acre or product per 1,000 sq. ft. This will aid in purchasing the amount of material needed. These DIRECTIONS AND PRECAUTIONS provide a summary of what each product will or will not do, tips to optimize product performance and necessary precautions to prevent injury to ornamentals.

Preemergence Herbicides: Preemergence herbicides act by preventing weeds from emerging or establishing. Preemergence herbicides generally do not control established weeds. Thus, preemergence herbicides need to be applied after removal of existing weeds and prior to new weed emergence. The two peak periods of weed emergence are spring to early summer and early fall. Retreatment within the growing season may be required, depending on the product and length of residual control. Through the season, weeds escaping preemergence herbicides will need to be removed. Re-treat to re-establish a uniform herbicide barrier.

Note of Caution: Information provided in this table is not meant to replace reading of the actual herbicide product label. This table is meant to assist selecting the herbicide(s) product that best suits the need. **Prior to herbicide application, read and understand the directions and precautions provided in the actual herbicide product label.**

Key to Abbreviations: A = acre (43,560 sq. ft.); fl. oz. = fluid ounces; gal. = gallons; lbs. = pounds; pts. = pints; sq. ft. = square feet.

HERBICIDE TRADE NAME(S)	Active ingredient	HERBICIDE RATE			DIRECTIONS AND PRECAUTIONS
		Active ingredient per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	
BARRICADE 65WG	prodiamine	0.65 to 1.5 lbs.	1.0 to 2.3 lbs.	0.36 to 0.83 oz.	Provides preemergence control of annual grasses (crabgrasses, foxtails, goosegrass and others) and several broadleaf weeds (carpetweed, chickweed, yellow woodsorrel and others). Do not apply more than 2.3 lbs. product /A in a growing season.
BARRICADE FL		8.4 to 19.5 oz.	21 to 48 oz.	0.5 to 1.1 oz.	

HERBICIDE TRADE NAME(S)	Active ingredient	HERBICIDE RATE			DIRECTIONS AND PRECAUTIONS
		Active ingredient per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	
BETASAN 4E BETASAN 7G (granular)	bensulide	7.5 to 12.5 lbs.	15 to 25 pt. 107 to 180 lbs.	5.6 to 9.4 fl. oz. 2.4 to 4.1 lbs.	Not for use on plants grown for sale. Label is inclusive for landscape application. Preemergence control of annual grasses (like crabgrass, goosegrass, foxtails and annual bluegrass) and certain broadleaf weeds (like henbit or deadnettle). Weak on yellow woodsorrel. Will not control established weeds or large-seeded broadleaf weeds.
DACTHAL W-75	DCPA	10.5 to 12 lbs.	14 to 16 lbs.	0.33 lbs.	Provides preemergence control of certain annual grass and broadleaf weeds. Apply to weed-free soil following cultivation. Apply in at least 50 to 100 gallons of water per acre.
DEVIRINOL 2G (granular) DEVIRINOL 50DF	napropamide	2 to 3 lbs. 4 to 6 lbs.	100 to 150 lbs. 8 to 12 lbs.	4.6 to 6.9 lbs. 3.0 to 4.4 oz.	Provides preemergence control of annual grasses (like crabgrass) and certain small-seeded broadleaf weeds (like chickweed, groundsel, knotweed). Weak on yellow woodsorrel. Incorporate granular formulation about 1-2 inches into soil. Does not control established weeds or large-seeded broadleaf weeds like morningglories, mustards, nightshade or jimsonweed. Caution: The G formulation is safer; the DF formulation may cause injury if applied over-the-top to young foliage (direct under foliage).
DIMENSION 1EC DIMENSION ULTRA WSP	dithiopyr	0.5 lbs. 0.5 lbs.	2 qt. 1.25 lbs. or (4 water soluble packets)	1.0 to 1.5 oz. 0.46 oz.	For landscape use only, not production. Provides preemergence control of annual grasses (like crabgrass, goosegrass, foxtails and annual bluegrass) and several broadleaf weeds (like bittercress, yellow woodsorrel, chickweed, henbit, Carolina geranium, mustards, knotweeds, spurge and others). Apply as a directed spray; not over-the-top or broadcast. If ornamental foliage receives spray drift, the injury is typically cosmetic and plants will outgrow it.

HERBICIDE TRADE NAME(S)	Active ingredient	HERBICIDE RATE			DIRECTIONS AND PRECAUTIONS
		Active ingredient per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	
GALLERY 75DF	Isoxaben	0.5 to 1.0 lbs.	0.66 to 1.33 lbs.	0.25 to 0.5 oz.	Has limited use with annuals, perennials, and groundcovers in production. Do not apply to containers until media has settled. Apply to weed- free media. Landscape: Do not apply to bedding plants or areas where bedding plants will be planted within one year. Do not apply to ground covers until they are well established. Provides broad spectrum, preemergence activity towards annual broadleaf weeds. Weak on annual grasses. May be tank mixed with PENDULUM or SURFLAN to provide broad-spectrum control of annual grasses and broadleaf weeds where both are labeled.
OH - 2 (granular)	oxyfluorfen plus pendimethalin	2 lbs. plus 1 lbs.	100 lbs.	2.3 lbs.	Provides broad spectrum preemergence control of grass and broadleaf weeds. Apply to weed-free soil or media. Apply only to dry foliage; irrigate immediately to remove particles from the foliage. Do not apply when plants are breaking dormancy or making a flush of growth. Do not apply to plants like daylily, lirioppe or <i>Hosta</i> with leaves that channel and concentrate the herbicide at the base. Apply two weeks prior to enclosure of greenhouse/ or shadehouse.
PENDULUM 2G (granular) PENDULUM 3.3EC PENDULUM 60WDG	pendimethalin	2 to 4 lbs.	100 to 200 lbs. 2.4 to 4.8 qt. 3.3 to 6.6 lbs.	2.3 to 4.6 lbs. 1.8 to 3.3 fl. oz. 1.2 to 2.4 oz.	Provides preemergence control of annual grasses (like crabgrass, goosegrass, foxtails, panicums, barnyardgrass, etc.) and certain broadleaf weeds (like bittercress, yellow woodsorrel, spurge, knotweed, chickweed, henbit, etc.) May be tank-mixed with GALLERY to improve broadleaf weed control spectrum; but plants sprayed must appear on both labels. Apply to weed- free media. Apply the G formulation to dry foliage and then irrigate to move herbicide from the foliage. May cause temporary discoloration of sprayed surfaces. Rinse immediately to avoid staining wood, stone, concrete, etc.

HERBICIDE TRADE NAME(S)	Active ingredient	HERBICIDE RATE			DIRECTIONS AND PRECAUTIONS
		Active ingredient per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	
PENNANT MAGNUM	metolachlor	1.23 to 1.90 lbs.	1.3 to 2.0 pt. Do not exceed 4.2 pints per year.	14 to 21 ml Do not exceed 46 ml per 1000 sq. ft. per year.	Provides preemergence control of yellow nutsedge (not purple) in addition to preemergence control of annual grasses and certain broadleaf weeds. Does not control bittercress, yellow woodsorrel, or mustards. Apply to weed- free soil or media and follow with ½ inch of irrigation to move herbicide from foliage onto underlying soil or media. Use rate is dependent upon soil texture. Typical Tennessee soils are medium- to coarse- textured, requiring 1.3 to 2.0 pts. per acre.
REGALKADE 0.5G (granular)	prodiamine	0.75 to 1.5 lbs.	132 to 300 lbs.	3 to 7 lbs.	Granular REGALKADE can be applied over-the-top of container, field grown ornamentals and established ornamental plantings. Provides preemergence control of annual grasses (crabgrasses, foxtails, goosegrass, etc.) and certain broadleaf weeds (carpetweed, chickweed, yellow woodsorrel, etc.). Weak on bittercress, morningglories and ragweed. May be applied to new transplants after soil settles from a thorough watering. Apply to dry foliage.
REGAL O-O (granular)	oxyfluorfen plus oxadiazon	2.0 lbs. Plus 1.0 lbs.	100 lbs.	2.3 lbs.	Granular Regal O-O can be applied over the top of container and field grown ornamentals. Do not apply to wet foliage. Tender new leaves are especially sensitive and injury may result.
REGALSTAR G (granular)	oxadiazon plus prodiamine	1.2 lbs.	200 lbs.	4.5 lbs.	Can be applied over the top of nursery and landscape crops. Do not apply to wet foliage. Do not apply in greenhouses.
RONSTAR G (granular)	oxadiazon	2 to 4 lbs.	100 to 200 lbs.	2.25 to 4.5 lbs.	Provides preemergence control of most annual grasses (like crabgrass and goosegrass) and broadleaf weeds (including yellow woodsorrel and bittercress). Do not apply to wet foliage or conditions where granules will collect and remain on leaves. Apply to weed- free soil or media. Requires ½ inch irrigation to move granules from foliage onto underlying soil or media. For optimum weed control, do not disturb soil or media after application.

HERBICIDE TRADE NAME(S)	Active ingredient	HERBICIDE RATE			DIRECTIONS AND PRECAUTIONS
		Active ingredient per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	
ROUT 3G (granular)	oxyfluorfen plus oryzalin	2 lbs. plus 1 lbs.	100 lbs.	2.3 lbs.	Provides preemergence control of most annual grass and broadleaf weeds. Do not apply to plants like <i>Hosta</i> that channel or concentrate the herbicide towards the base of the plant. Do not apply two weeks before or after bud break, or during periods of flush. Follow application to dry foliage, with ½ inch of overhead irrigation to wash herbicide from foliage onto the underlying media. For optimum residual control, do not disturb media surface after application.
SNAPSHOT 2.5TG (granular)	isoxaben plus trifluralin	0.5 to 1.0 lbs. plus 2 to 4 lbs.	100 to 200 lbs.	2.3 to 4.6 lbs.	Provides preemergence control of broadleaf weeds and most annual grass weeds. Apply to weed-free growing media. Requires ½ inch rainfall or irrigation within three days after application. This product contains Gallery; thus do not apply to bedding plants or areas where bedding plants will be grown.
SURFLAN AS	oryzalin	2 to 4 lbs.	2 to 4 qt.	1.5 to 3.0 fl. oz.	Provides preemergence control of annual grasses and certain annual broadleaf weeds (like chickweed and bittercress). May be tank-mixed with GALLERY to improve broadleaf weed control spectrum; but plants sprayed must appear on both labels. Apply to weed-free soil or media surface or prior to weed seed germination. Requires ½ inch rain or irrigation within 21 days after application to activate. Delay application until soil/media has settled. Landscape: May cause temporary discoloration of sprayed surfaces. Injury to begonia and coleus has been observed.

HERBICIDE TRADE NAME(S)	Active ingredient	HERBICIDE RATE			DIRECTIONS AND PRECAUTIONS
		Active ingredient per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	
TREFLAN 5G (granular)	trifluralin	4	80 lbs.	1.8 lbs.	Provides preemergence control of predominantly annual grasses and some broadleaf weeds. Apply to weed- free soil or media or prior to weed seed germination. Requires ½ inch rainfall or irrigation within three days of application (ideally, immediately after application). Repeat application no sooner than 60 days after the initial application [do not apply more than 240 lb. per acre (or three applications) in a 12-month period].
XL 2G (granular)	benefin plus oryzalin	2 to 3 lbs. plus 2 to 3 lbs.	200 to 300 lbs.	4.5 to 7.0 lbs.	Provides preemergence control of annual grasses and certain broadleaf weeds. Repeat application no sooner than 90 days after initial application (do not apply more than 900 lbs. per acre within a 12-month period). Apply to weed-free soil or media. Requires ½ inch rainfall or irrigation within 21 days after application (ideally, immediately after application). Injury to begonia and coleus has been observed.

Table 7. Postemergence Herbicides: Directions and Precautions

How to Use This Table: This table provides directions and precautions for postemergence herbicides labeled on annuals, perennials, and herbaceous ground covers. In this table, postemergence herbicides are listed alphabetically by the herbicide trade name. Herbicide rate provides the amount of material to be applied based on amount of active ingredient per acre, rate of product per acre or product per 1,000 sq. ft. These DIRECTIONS AND PRECAUTIONS provide a summary of what each product will or will not do, tips to optimize product performance and necessary precautions to prevent injury to ornamentals. This will aid in purchasing the amount of material needed.

Postemergence Herbicides: Postemergence herbicides control weeds after they have emerged or become established. Unfortunately, selective postemergence herbicides for use in ornamentals are limited. Herbicide options are available for selective control of emerged grass weeds in many ornamentals. However, control of emerged broadleaf weeds is limited to physical removal or careful spot spraying of a non-selective postemergence herbicide. To prevent re-infestation, a preemergence herbicide can be applied to the soil, mulch or media surface.

Note of Caution: Information provided in this table is not meant to replace reading of the actual herbicide product label. This table is meant to assist in selecting the herbicide(s) product that best suits the need. **Prior to herbicide application, read and understand the use directions and precautions provided in the actual herbicide product label.**

Key to abbreviations: A = acre (43,560 sq. ft.); fl. oz. = fluid ounces; gal. = gallons; lbs. = pounds; pts. =- pints; sq. ft. = square feet.

HERBICIDE TRADE NAME(S)	Herbicide Active Ingredient	Herbicide Rate				DIRECTIONS AND PRECAUTIONS
		Active per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	Spot Treatment Rate	
ACCLAIM EXTRA 0.57EC (selective for grasses)	fenoxaprop-p	0.06 to 0.17 lbs.	13 to 39 fl. oz.	0.3 to 0.9 fl. oz.	0.30 - 0.46 fl. oz. per gallon	Provides postemergence control of annual grasses and suppression of certain perennial grasses like johnsongrass and bermudagrass. Suppression (not control) of bermudagrass requires repeat applications on 30 day intervals. Use rate is dependent on stage of growth of target weeds. Seedling annual grasses require 13 oz. per acre. Annual grasses with three to four tillers require 28 oz. per acre. Use high rate on more mature grasses. Thorough coverage is essential. For best results, apply to seedling grasses up to the three tiller stage. May be tank-mixed with certain preemergence herbicides (see label). Addition of non-ionic surfactant is not required for broadcast application but may benefit in spot treatments. Injury may result when applied over-the-top of young succulent tissue; apply as directed spray. Do not apply to <i>Salvia</i> .

HERBICIDE TRADE NAME(S)	Herbicide Active Ingredient	Herbicide Rate				DIRECTIONS AND PRECAUTIONS
		Active per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	Spot Treatment Rate	
BASAGRAN T/O 4L (selective for sedges)	bentazon	1 to 2 lbs.	1.5 to 2 pt.	0.55 to 0.75 fl. oz.	n/a	Provides postemergence control of annual and yellow nutsedge (but not purple nutsedge). Make first application when three to six new leaves are present. Make second application when regrowth has three to six new leaves (approximately 7 to 21 days after initial application). Addition of crop oil concentrate (at 0.75 fl. oz. per 1,000 sq. ft.) will improve activity, but may potentially cause ornamental injury. Potential for injury increases under high humidity and temperature. Apply as a directed spray where possible or do not add crop oil concentrate. Can be applied over-the-top of ajuga, English ivy, liriop and pachysandra. Do not apply around sycamore or rhododendron.
ENVOY 1L (selective for grasses)	clethodim	0.13 to 0.26 lbs.	17 to 34 fl. oz.	0.4 to 0.8 fl. oz.	0.65 to 1.3 fl. oz. plus 0.33 fl. oz. non- ionic surfactant per gallon	Provides postemergence control of annual grasses and several perennial grasses. Perennial grasses controlled include bermudagrass and johnsongrass. Apply at low rate to young, actively growing annual and perennial grasses. Use this rate when annuals are 2 to 6 in. tall or bermudagrass has less than 8 in. new growth. Use the highest rate for very mature grasses (may only result in suppression). Requires addition of non-ionic surfactant (at 0.25% v/v or 1/2 pt. in 25 gallons of water carrier). Do not add crop oil concentrate as ornamental injury can result. Optimum control obtained when grasses are actively growing, or not stressed (due to drought or extreme temperature).

HERBICIDE TRADE NAME(S)	Herbicide Active Ingredient	Herbicide Rate				DIRECTIONS AND PRECAUTIONS
		Active per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	Spot Treatment Rate	
FINALE 1L (non-selective)	glufosinate	0.75 to 1.5 lbs.	3 to 6 qt.	2.2 to 4.4 fl. oz.	1.5 to 4 fl. oz. per gallon	Provides non-selective control of emerged grass and broadleaf weeds (annuals and perennials). Control symptoms should be evident in two to four days. Avoid contact with desired foliage; thus apply as directed or shielded spray. Do not use in container nursery stock as root uptake can occur in soilless media. In the landscape, can be used for edging. However, it does not provide residual control of later-emerging weeds. Can be tank-mixed with GALLERY, PENDULUM, SURFLAN or BARRICADE to provide residual control.
FUSILADE II T/O (selective for grasses)	fluazifop-P- butyl	0.25 to 0.375 lbs.	16 to 24 fl. oz.	0.37 to 0.55 fl. oz.	0.75 fl. oz. plus 0.5 fl. oz. non ionic surfactant per gallon	Apply over-the-top or as directed spray to control annual grasses and several perennial grasses including johnsongrass and bermudagrass (does not control broadleaf weeds). Spray when annual grasses are 2-8 inches tall and johnsongrass is 8-18 inches tall. For bermudagrass, apply when 4 to 8 inches of runner growth is achieved. Perennial grasses may require repeat applications dependent on regrowth. Requires addition of non-ionic surfactant at 0.25 to 0.50% v/v or 0.5 pint in 25 gallons of water carrier (do not use crop oil concentrate).

HERBICIDE TRADE NAME(S)	Herbicide Active Ingredient	Herbicide Rate				DIRECTIONS AND PRECAUTIONS
		Active per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	Spot Treatment Rate	
GRAMOXONE EXTRA 2.5L (non-selective)	paraquat	0.6 to 0.9 lbs.	2 to 3 pts.	0.7 to 1.1 fl. oz.	1 fl. oz. plus 0.25 fl. oz. surfactant per gallon	RESTRICTED USE PESTICIDE , with use limited to certified pesticide applicators. Requires the use of respirator and eye protection in addition to other personal protective equipment. Provides non-selective control of annual grass and broadleaf weeds and suppression of perennial weeds. Avoid contact with desired foliage; apply as a directed or shielded spray. Does not provide residual control of later-germinating annuals or regrowth of perennials. Requires the addition of non-ionic surfactant at 6.4 fl. oz. per 20 gallons of water carrier or crop oil concentrate at 26 fl. oz. per 20 gallons of water carrier.
IMAGE 70 DG (selective for grasses and sedges)	imazaquin	n/a	n/a	0.2 to 0.26 oz.	0.5 oz. per 3 gallon	Provides post- and preemergence control of certain broadleaf weeds. Very few ornamentals are known to be tolerant (refer to species tolerance tables). Injury to sensitive ornamentals can be severe (has residual activity in soil). Do not apply around bedding plants. Repeat application required for control of purple nutsedge and may be required for control of yellow nutsedge. Do not apply to areas where bedding plants will be planted within one year.
MANAGE 75WG (selective for sedges)	halosulfuron	0.03 to 0.06 lbs.	0.67 to 1.3 oz.	0.9 grams (or 1 dose pack) per 1 to 2 gallons plus 1/3 fl. oz. surfactant	n/a	Provides control of emerged yellow and purple nutsedge in established plantings. Apply as a directed spray to avoid contact on desirable plants. May require repeated applications when sufficient regrowth occurs (three to six new leaves develop). Requires addition of non-ionic surfactant at 0.25 to 0.50% v/v or 0.5 to 1 pt. in 25 gallons.

HERBICIDE TRADE NAME(S)	Herbicide Active Ingredient	Herbicide Rate				DIRECTIONS AND PRECAUTIONS
		Active per Acre	PRODUCT per Acre	PRODUCT per 1,000 sq. ft.	Spot Treatment Rate	
REWARD 2L (non-selective)	diquat	0.25 to 1 lbs.	1 to 2 pts.	0.4 to 1.5 fl. oz.	0.75 fl. oz. plus 0.25 fl. oz. surfactant	RESTRICTED USE PESTICIDE , with use limited to certified pesticide applicators. Requires the use of respirator and eye protection in addition to other personal protective equipment (see label). Provides non-selective control of emerged annual grass and broadleaf weeds and suppression of perennial weeds. Avoid contact with desired foliage; apply as a directed or shielded spray. Does not provide residual control of later-germinating annuals or regrowth of perennials.
ROUNDUP PRO 4L (non-selective)	glyphosate	1 to 5 lbs.	1 to 5 qt.	2 to 4 fl. oz.	0.7 to 2.7 fl. oz.	Provides non-selective control of annual and perennial broadleaf weeds. Control symptoms should be observed in 7 to 10 days. Avoid contact with desired foliage and succulent stems; apply as a directed or shielded spray. Avoid spray drift. Provides systemic activity.
Generic formulations are available	glyphosate	see label	see label	see label	see label	Does not provide residual control towards later-germinating annuals or regrowth of perennials. For rope or sponge wick applications use a 33 to 75% concentration in water.
VANTAGE 1EC (selective for grasses)	sethoxydim	0.3 to 0.5 lbs.	36 to 60 fl. oz.	0.8 to 1.4 fl. oz.	2 to 3 fl. oz. per gallon	Provides control of annual and perennial grasses. Apply low rate when grasses are 2 to 8 inches tall prior to tillering. For more mature grasses use the high rate (may result in suppression only). VANTAGE already contains spray additive (thus, do not add crop oil concentrate).

Table 8. Carrier Volumes, Rain-fast Times and Re-entry Intervals For Pre and Postemergence Herbicides

<p>Directions for Table: This table provides useful information to assist in the optimum application and performance of herbicides. Pre-and postemergence herbicides are listed alphabetically in the left column.</p> <p>Codes: n/a = Not appropriate; Hrs. = hours ; Immediately = Irrigate soon after application; Spray Additive: COC = crop oil concentrate; surfactant = non-ionic surfactant; NS = no spray additive required; - - = information not available; REI = Re-entry interval: ft² = foot square.</p>								
Herbicide	Rain-fast (in hrs)	Time herbicide will remain stable prior to irrigation or rainfall (in days)	Inches of rain or irrigation required to activate	Spray Pressure (psi) Screens (Mesh)	Gallons of Water Required per Acre or 1,000 ft ²	Spray Additive	Length of control or re-treat interval (in days)	REI (in hrs)
<i>Preemergence</i>								
BARRICADE 65WG	n/a	14	0.5	20 - 40 50 mesh	20 minimum or 0.5 per 1000 ft ²	NS	90	12
BARRICADE FL	n/a	14	0.5	20 - 40 50 mesh		NS	90	12
BETASAN 4E	n/a	24 hrs.	0.5	20 - 40 50 mesh	80 - 100	NS	90 - 120	12
BETASAN 7G	n/a	24 hrs.	0.5	n/a	n/a	n/a	90 - 120	12
DACTHAL W-75	n/a	- -	- -	- -	40 minimum (50 - 100 recommended)	NS	90	12
DEVRIKOL 2G	n/a	2 -3	0.5	n/a	n/a	n/a	- -	12
DEVRIKOL 50DF	n/a	2 -3	1.0 - 2	20 - 60 50 mesh	20 - 100	NS	- -	12
DIMENSION 1EC	n/a	21	0.5	20 - 40 50 mesh	25 minimum	NS	60 - 90	12
DIMENSION ULTRA WSP	n/a	- -	- -	20-40 - -	40 minimum or 1 gallon/1000 ft ²	- -	- -	12

Herbicide	Rain- fast (in hrs)	Time herbicide will remain stable prior to irrigation or rainfall (in days)	Inches of rain or irrigation required to activate	Spray Pressure (psi) Screens (Mesh)	Gallons of Water Required per Acre or 1,000 ft²	Spray Additive	Length of control or re-treat interval (in days)	REI (in hrs)
GALLERY 75DF	n/a	21	0.5	20 - 40 50 mesh	10 - 200	NS	90 - 120	12
OH-2	n/a	Irrigate Immediately	0.5	n/a	n/a	n/a	90	24
PENDULUM 2G	n/a	30	0.5	n/a	n/a	n/a	90	12
PENDULUM 3.3EC	n/a	30	0.5	25 - 50 50 mesh	20 - 40	NS	90	12
PENDULUM 60WDG	n/a	30	0.5	20 - 40 50 mesh	20 - 40	NS	90	12
PENNANT MAGNUM	n/a	7	0.5	20 - 40 50 mesh	10 - 80	NS	90	24
REGALKADE 0.5G	n/a	14	0.5	n/a	n/a	n/a	90	12
REGAL O-O	n/a	Irrigate Immediately	0.5	n/a	n/a	n/a	90	24
REGALSTAR G	n/a	14	enough to wash herbicide into soil	n/a	n/a	n/a	90	12
RONSTAR G	n/a	Irrigate Immediately	0.5	n/a	n/a	n/a	90	12
ROUT 3G	n/a	Irrigate Immediately	0.5	n/a	n/a	n/a	90	24
SNAPSHOT 2.5TG	n/a	3	0.5	n/a	n/a	n/a	90	12
SURFLAN AS	n/a	21	0.5	20 - 40 50 mesh	20 - 40	NS	90	24
TREFLAN 5G	n/a	3	0.5	n/a	n/a	n/a	90	12
XL 2G	n/a	21	0.5	n/a	n/a	n/a	90	12

Herbicide	Rain- fast (in hrs)	Time herbicide will remain stable prior to irrigation or rainfall (in days)	Inches of rain or irrigation required to activate	Spray Pressure (psi) Screens (Mesh)	Gallons of Water Required per Acre or 1,000 ft²	Spray Additive	Length of control or re-treat interval (in days)	REI (in hrs)
<i>Postemergence</i>								
ACCLAIM EXTRA 0.57EC	1	n/a	n/a	30 - 60 50 - 100 mesh	30 - 60 or 0.7 - 1.4 / 1000 ft²	See label	n/a	24
BASAGRAN T/O 4L	8	n/a	n/a	40 - 80 50 mesh	20 - 100 or 0.5 / 1000 ft²	COC	Regrowth dependent (see label)	12
ENVOY 1L	1	n/a	n/a	30 - 60 50 - 100 mesh	5 - 40	surfactant	n/a	24
FINALE 1L	4	n/a	n/a	30	20 minimum	NS	n/a	12
FUSILADE II T/O	1	n/a	n/a	40 - 60 50 - 100 mesh	5 - 40	surfactant	n/a	12
GRAMOXONE EXTRA 2.5L	1/2	n/a	n/a	30 - 50 50 - 100 mesh	20 minimum	COC surfactant	n/a	12
IMAGE 70 DG	4 - 8	1 - 7 days	0.5	20 - 60 50 - 100 mesh	40 - 100	surfactant	n/a	12
MANAGE 75WG	4 - 8	n/a	n/a	20 - 40	10 - 20	surfactant	n/a	12
REWARD 2L	1/2	n/a	n/a	30 50 - 100 mesh	15 minimum	surfactant	n/a	24
ROUNDUP PRO 4L	2 - 6	n/a	n/a	- - 50 - 100 mesh	3 - 25	NS	n/a	4
VANTAGE 1EC	1	n/a	n/a	30 - 60 50 - 100 mesh	5 - 50	NS	n/a	12